DAIKIN

Sky Air

Sky Air

Product catalogue 2016

for professionals

Your business is our concern

BLUEVOLUTION

Why choose Daikin

Our promise is to ensure that your customers can depend on Daikin for the ultimate in comfort, so that they are free to focus on their own working and home lives.

We promise to dedicate ourselves to technological excellence, a design focus and the highest quality standards so that your customers can trust and rely on the comfort we deliver.

Our promise to the planet is absolute. Our products are at the forefront of low energy consumption and we continuously innovate to reduce the environmental impact of HVACR solutions further.

We lead where others follow. We will continue our global leadership in HVACR solutions as our specialist expertise in all market sectors combined with 90 years' experience enable us to deliver added value in long-lasting relationships based on trust, respect and credibility.

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Sky Air, the solution for the light commercial sector.

7 reasons why Sky Air is unique in the market

1 High energy efficiency

› Top seasonal efficiency
  • A++ label both in cooling and heating for combination FCQHG71F/100F + RZQG71L9V1/100L9V1
  • Variable Refrigerant Temperature that automatically adapts the refrigerant temperature to the load
› First commercial R-32 unit boosting cooling efficiency with 5%
› Auto cleaning cassette leading to 50% savings compared to standard cassettes

Top seasonal efficiency

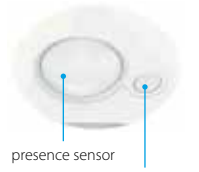
A++

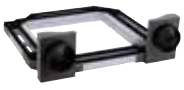
Variable Refrigerant Temperature

BLUEVOLUTION

2 Best comfort

› Variable Refrigerant Temperature preventing cold draughts
› Low sound indoor and outdoor units
› Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
› Operation down to -20°C in heat pump operation
› Fresh air intake integrated in indoor unit





Fresh air intake

3 Top reliability

› For infrastructure cooling
  › unique boosted capacity indoor unit systems
  › duty rotation control
› Gas-cooled PCB
› Most extensive testing before new units leave the factory
› Widest support network and after sales service
› All spare parts available in Europe

RELIABLE, CONTINUOUS OPERATION 24/7 365

4 Market leading controls

› Intelligent Tablet Controller: control your Sky Air total solution centrally from a touch screen
› Dedicated control solutions
  › for retail applications with retail economizer
  › for infrastructure cooling with standard remote control
› Daikin Cloud Service offers services such as online control, energy monitoring, comparison of multiple sites

Intelligent Tablet Controller

DAIKIN CLOUD SERVICE

5 Superior aesthetics

› Fully flat cassette design unit that integrates fully flat into the ceiling
› Auto cleaning cassette ensures dirt-free ceilings with high efficiency filters for regular and dust prone areas

6 Unique installation benefits

› 4-way blow ceiling suspended cassette (FXUQ) for rooms without false ceiling.
  Now connectable to Seasonal Smart and Classic
› Plug & play Daikin air handling unit with ERQ condensing units
› Total solution for cooling, heating, air curtains and ventilation
› Dedicated assymetric combinations for infrastructure cooling
› Cost-efficiently replace Daikin and non-Daikin R-22 and R-407C systems by keeping the refrigerant piping
› **Use up to 4 indoor units linked to one outdoor unit for long or irregularly shaped rooms**

FXUQ

AHU

Air curtain

7 Widest range of outdoor units for small commercial

A product for each type of customer

Pair, twin, triple, double twin systems

Capacity class		25	35	50	60	71	100	125	140	200	250
Range	kW (cooling)	2.4	3.4	5.0	5.7	6.8	9.5	12.0	13.4	20.0	24.1

Multi systems connecting to Sky Air indoors

40	50	52	68	80	90	4HP	5HP	6HP	8HP	10HP	12HP
4.0	5.0	5.2	6.8	8.0	9.0	12.1	14.0	15.5	22.4	28.0	33.5

Seasonal Smart

Industry-leading efficiency that dramatically cuts running costs and repays in <2 years See page 98
› Up to Energy Label A++
› Only dedicated solution for infrastructure cooling
› Available in R-410A and R-32

VRV IV S-series See page 152
Industry-leading efficiency with individual control of up to 9 indoor units
› incorporates VRV IV standards and technologies
› the most compact VRV

Seasonal Classic

Versatile and effective for typical needs of most retail applications. See page 122
› Up to Energy Label A+

Multi model application See page 141
Individual control of up to 5 indoor units

Super Inverter

For large commercial applications See page 131

Siesta INVERTER

Plug and play comfort at minimum up-front cost for busy shop environments See page 136
› Up to Energy Label A+
(SEER A+ for 71 Cass)

In the spotlight

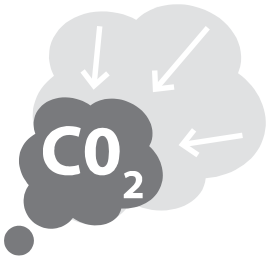
First light commercial product with R-32

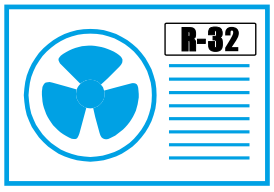
Lowest environmental footprint in it's class

BLUEVOLUTION

More details on page 106

- ☑ **Lowest environmental impact**
  - › GWP reduced with 68% as compared with R-410A refrigerant
  - › 10% lower refrigerant charge
- ☑ **Increased energy savings** thanks to R-32 refrigerant (minimum 5% more efficient in cooling when compared to R-410A products)
- ☑ **Reduced maintenance cost** as no yearly refrigerant containment leak check is required
- ☑ **Replacement technology**
- ☑ **Operation range** down to -20°C in heating mode





Pair applications:

- › FCAHG71F / RZAG71LV1
- › FCAHG100F / RZAG100LV1
- › FCAHG125F / RZAG125LV1
- › FCAHG140F / RZAG140LV1

RZAG-LV1

FCAHG-F

Be the leader in new markets

- › Technology you can trust. Take the journey with us
- › Lead the market towards R-32

Unique cassette designs

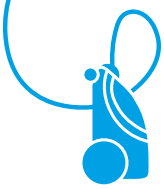
Auto cleaning cassette

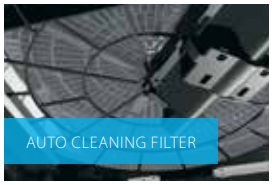
More details on page 22

Industry-first and proven 360° air discharge design

High efficiency filter

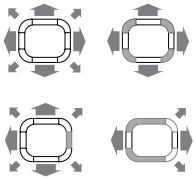
- Increases efficiency with 50% and makes maintenance easier since the unit does not need to be opened for filter cleaning
- Dust can be removed easily with a vacuum cleaner without opening the unit

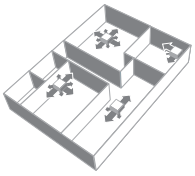




Intelligent sensors increase comfort and efficiency

Flexible installation with individual flap control





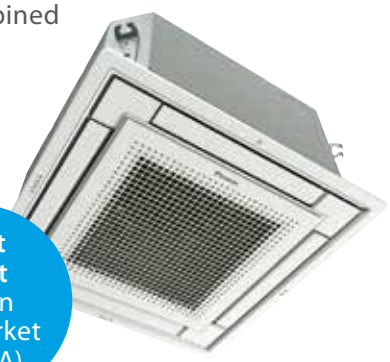
Fully flat cassette

More details on page 34

Unique design in the market that integrates fully flat into the ceiling Advanced technology and top efficiency combined

Unique design

- Designed by a European design office to fully meet the European taste.
- Fully flat into the ceiling, leaving only 8mm.
- Fully integrated in the one ceiling tile, enabling lights, speakers and sprinklers to be installed in adjoining ceiling tiles.
- Decoration panel available in 2 colours (white and white-silver).



Most quiet unit in the market (25dBA)

4-way blow ceiling suspended cassette

More details on page 77

Unique Daikin unit for high rooms with no false ceilings nor free floor space

Best in class quality

Connects to

Seasonal Classic

Seasonal Smart

Flexible installation with individual flap control

Stylish unit

Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible

Unique Sky Air technologies and controls

Intelligent Tablet Controller

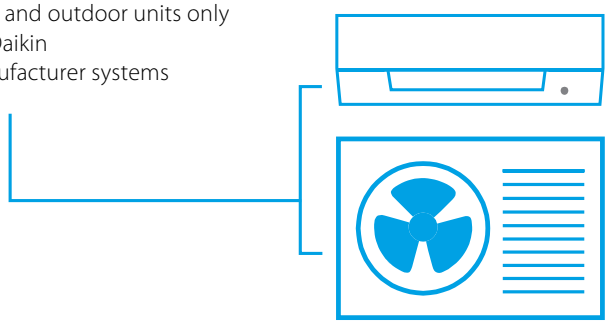
- ☑ The Daikin Intelligent Tablet Controller gives you central ontrol which allows different zones to be set to different temperatures.
- ☑ You can set pre- and post-trade modes to save energy
- ☑ The Daikin Intelligent Tablet Controller's local control can be limited (amongst the staff) and integrated with HQ control and monitoring
- ☑ It is easy to use and intuitive
- ☑ Daikin Cloud Service provides a flexible solution which can grow with your business
- ☑ Daikin Cloud Service's reduced communication (polling mechanism) means your internal payment network is secure. Via the Daikin supplied 3G/4G router you can even run it outside your network.

Replacement technology

- › Less installation time compared to a full replacement allows you to tackle more projects making it more profitable
- › Lower installation cost improves your competitive edge
- › Replace non-Daikin systems
- › Extra bullit: Lower installation cost improves your competitive edge

- ☑ Reuse existing piping and wiring
- ☑ Replace indoor and outdoor units only
- ☑ Replace both Daikin and other manufacturer systems

More details on page 94



Variable refrigerant temperature

Customised, intelligent and efficient solution

Daikin Sky Air systems are designed to adapt their operation intelligently to meet your customers' specific heating and cooling requirements, without compromising efficiency. When maximum cooling or heating is required (a big difference between the indoor temperature and the setpoint), the system is able to deliver the required capacity quickly. But at times when the cooling or heating requirement is lower (a small difference between the indoor temperature and the setpoint), the system will automatically adapt its refrigerant in order to save energy and avoid cold draughts. Intelligent Sky Air systems ensures peace of mind at all times without any need for manual adjustment.

Infrastructure cooling

More details on page 100

› For rooms and enclosures that require round-the-clock cooling
› Where continuous uptime is the absolute requirement for server data protection equipment protection

Between **20-40%** sensible capacity increase

Reliable

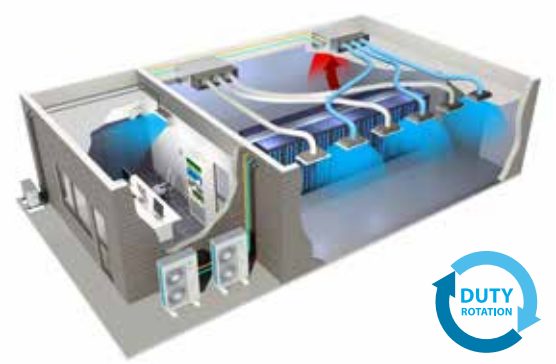
Guaranteed system operation:
› Oversized indoor units boost cooling capacity and prevent freeze-ups on the indoor side
› Wide operating range envelope: operation range in cooling down to -15°C and up to +50°C

Efficient

Optimum return on investment:
› Lowers running costs by using highly efficient direct expansion cooling systems
› Lower running costs compared to other DX systems and water based chillers.
› Minimises environmental impact with A++ energy labels
› Reduces mechanical cooling and energy consumption with the free cooling option for single phase systems

Flexible

› Scalable in capacity
› Improved infrastructure control and management
› Lower physical footprint since no floor space is occupied
› Wide range of indoor units to suit application preferences (ceiling suspended cassettes, wall mounted indoors, concealed ceiling ducted type indoors)

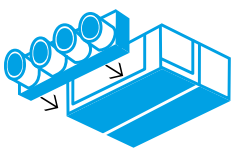


BRC1E53

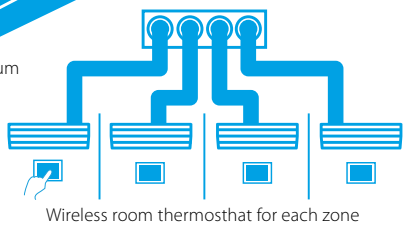
Duty rotation compatibility	Modelname
Wired remote control	BRC1E53*
Conceiled ceiling system	FBQ-D*
Wall mounted system	FAQ-C9*
Ceiling suspended system	FHQ-CB*

Multizoning

- ☑ Control of multiple climate zones with one duct indoor
- ☑ Motorized dampers regulated according to ΔT
- ☑ Automatic airflow adjustment according to the demand
- ☑ Centralized zone controller for central control



Plug & play plenum



Wireless room thermosthat for each zone

Which applications?

One system,

for comfort cooling / heating and infrastructure cooling applications

Comfort heating and cooling

› Extract heat from the outside air, even in cold weather (down to -20°C).
› Electrically powered compressor.
› Extremely effective at heating.
› Silent and discreet,
› State-of-the-art technology to keep energy bills as low as possible.

Top seasonal efficiency

BLUEVOLUTION

› A++ label both in cooling and heating for combination FCQHG71F/100F + RZQG71L9V1/100L9V1 A++
› Top efficiency by choosing R-32 products (minimum 5% more efficient when compared to R-410A)

Reliable infrastructure cooling

› For rooms and enclosures that require round-the-clock cooling
› Oversized indoor units boost cooling capacity and prevent freeze-ups on the indoor side
› Wide operating range envelope: operation range in cooling down to -15°C and up to +50°C

Control systems

User-friendly controls allow your customers to manage their Sky Air system for maximum efficiency:

› From individualised unit control to centralised management via touchscreen options and code based controllers, they are in control at all times.
› The DIII-net connection is standard, allowing you to link into the wider building management systems.
› Buildings can be monitored from a distance using Internet monitoring.

Ventilation

Daikin's ventilation option provides a supply of fresh air to help create a healthy and high quality indoor environment.

Biddle air curtains

› Biddle air curtains can be used in combination with the Sky Air system to provide highly efficient heating at building entrances: Ideal for buildings with open door policies such as retail stores.

› Year round climate control and comfort even on the most demanding days.
› Payback time of less than 12 months compared with electric air curtains.

'We were very happy to work with Daikin in installing one of the latest fully controllable systems with operational flexibility, which met all our requirements.'
Retail shop representative

Shops

Reducing retail costs

› Creates an inviting atmosphere for your customers
› Discreet with limited visual and operating impact
› Reduces energy usage and costs
› Worry-free installation
› User-friendly control

In the current commercial environment, retailers are under pressure to reduce both store development and running costs. Legislation adds further financial pressure with different energy-efficient schemes. Therefore affordable, energy-efficient solutions are vital to minimise lifetime costs, while ensuring compliance with the latest regulations.

Whatever the site and requirements we can design a system that is economical, has low environmental impact and uses the very latest in advanced VRV technology. Our heat pumps extract heat from the outside air even in cold weather to warm the retail space and can be installed either on roof tops or against walls - the ultimate in installation flexibility. And our air curtains solve that problem of comfort loss resulting from exterior doors.

Check on YouTube

www.youtube.com/DaikinEurope

Store & shop

"Leading edge design in harmony with the construction and interior design."
Architect

Office

Efficiency in the workplace

› Fully flat cassette: Design and genius in one.
› Cutting the cost of hot water.
› Fresh air: A healthier office atmosphere.
› Centralised control: Complete Daikin package for office building management

Efficient building and facilities management is key to minimising operational costs. Daikin's customised office solutions give you full control over energy consumption – creating the ideal working conditions and minimising environmental impact.

Daikin's office air conditioning can be integrated into a whole climate control solution. Heat recovery between components, free cooling ventilation and free hot water production all result in lower running costs and minimum carbon emissions.

"Total renovation and expansion of the restaurant meant new air conditioning equipment was required. Daikin was the first and only supplier to contact as we had already had good experience in the past!" Owner of a highly-rated restaurant.

Restaurants

Perfect ambiance for dining

› Ensures an even temperature distribution to create the perfect dining environment.
› Highly energy efficient
› Uses intelligent control systems operated from one central location.

Nothing should distract diners from enjoying the **perfect ambience**, and that ambience includes the **optimum temperature**. That is exactly what Daikin's concealed ceiling units deliver through whisper quiet operation and improved comfort from the 3-step air flow control. These turn your customer's restaurant into a comfortable, welcoming environment. And with **centralised control** and easy scheduling for the entire restaurant system, **energy use is minimised** to reduce your customer's running costs.

"A reliable system and guaranteed continuous operation are what count for me." General office manager

IT serverrooms, laboratories and telecom shelters

Sky Air for infrastructure cooling

› Continuous cooling operation.
› Dedicated infrastructure cooling settings
› Unique selection method with capacity tables down to -15°C outdoor temperature
› Enhanced reliability thanks to assymetric combinations (e.g. FHQ125C + RZQG100L9V1) with required seasonal energy labels

Servers, especially racks of servers, generate a great deal of heat and this needs to be removed through **continuous cooling**. This is achieved through automatic switching between units after a certain period of use to ensure that at any time, one unit is working while the other is available for maintenance.

Given the critical importance of continuous cooling for server rooms, the system can be managed via an RTD-10 controller that can monitor and control up to 8 indoor units either directly or via the building management system (RTD-NET).

Sky Air, from high specification, tailored solutions to primary cooling and heating

Indoor units

Benefits for the installer

› Modular designs and factory fitted extras make installation easier to achieve.

Benefits for the consultant

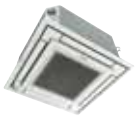
› You will have the confidence of knowing that you can recommend the right climate control systems to meet tomorrow's legislation
› You will have systems that are designed to blend into any décor and provide optimal performance with top seasonal efficiencies
› You will have access to innovative technology to maximize the climate control performance of the entire building
› Your credentials as an eco-conscious consultant and designer will be enhanced.

Benefits for the end user

› Your climate control system will meet legal requirements well beyond the current legislation
› You will obtain optimal seasonal performance thus saving energy and reducing costs
› You will have even better energy efficient units when choosing our Sky Air R-32 product range (minimum 5% more efficient compared to R-410A products)
› The climate control system will add value to the building thus protecting your investment
› You will save on installation and running costs, obtain rapid return on investment and contribute to ecological protection objectives.

A wide range of high quality and design indoor units for residential and light commercial applications

Product overview

Type	Model	Product name		PG
Ceiling mounted cassette	NEW UNIQUE High COP, round flow cassette	FCAHG-F BLUEVOLUTION	 1st R-32 commercial unit in the European market	24
	UNIQUE High COP, round flow cassette	FCQHG-F		28
	UNIQUE Round flow cassette	FCQG-F[1]		25
	UNIQUE Fully flat cassette	FFQ-C	 universal design award 2014 GERMAN DESIGN AWARD SPECIAL 2016	34
	Siesta, 4-way blow ceiling mounted unit	ACQ-D		38
Concealed ceiling	Small concealed ceiling unit	FDBQ-B		40
	Slim concealed ceiling unit	FDXS-F (9)		42
	Concealed ceiling unit with medium ESP	FBQ-D[1]		46
	Concealed ceiling unit with high ESP	FDQ-C		54
	Concealed ceiling unit with high ESP	FDQ-B[1]		59
	Concealed ceiling unit	ABQ-C		62
Wall mounted	Wall mounted unit	FAQ-C9		66
Ceiling suspended	Ceiling suspended unit	FHQ-CB[1]		69
	UNIQUE 4-way blow ceiling suspended unit	FUQ-C[1]		77
	Ceiling suspended unit	AHQ-C		75
Floor standing	Floor standing unit	FVQ-C		80
	Concealed floor standing unit	FNQ-A		83

1) Twin, triple, double twin application is only possible up to 125 class

Capacity class (kW)

	25	35	50	60	71	100	125	140	200	250
First R-32 BLUEVOLUTION light commercial range available in Europe - Lowest environmental impact: reduced GWP and higher efficiency compared to R-410A products - 5 different fan speeds available - Reduces maintenance costs as no yearly refrigerant containment check is required - Includes all R-410A high COP round flow cassette features R-32 ROUND FLOW					●	●	●	●		
360° air discharge for the highest efficiency and comfort - High COP cassette ensures top performance for commercial applications - Auto cleaning function ensures high efficiency - Intelligent sensors save energy and maximize comfort - Flexibility to suit every room layout ROUND FLOW					●	●	●	●		
360° air discharge for the highest efficiency and comfort - Auto cleaning function ensures high efficiency - Intelligent sensors save energy and maximize comfort - Flexibility to suit every room layout - Lowest installation height in the market - 27~29 dB(A) on low fan speed ROUND FLOW		●	●	●	●	●	●	●		
Unique design in the market that integrates fully flat into the ceiling - Perfect integration in standard architectural ceiling tiles - Blend of iconic design and engineering excellence with a white or silver and white finish - Intelligent sensors save energy and maximize comfort - Flexibility to suit every room layout without changing the location of the unit! - Quietest 600 x 600 cassette on the market	●	●	●	●						
Solution addressing the primary needs of small shops - Improved energy efficiency: up to A+ energy labels - Control several indoor units at the same time - Exclusively offered for pair applications Siesta					●	●	●			
Designed for hotel bedrooms and ensuring a good night rest - Compact dimensions enable installation in narrow ceiling voids - Easy mounting: drain pan can be located left or right of the unit - Discretely concealed in the ceiling: only the grilles are visible - Flexible installation as the air suction direction can be altered from rear to bottom suction	●									
Slim design for flexible installation - Medium external static pressure up to 40Pa - Small capacity unit developed for small of well insulated rooms		●	●	●	●	●	●	●		
Slimmest yet most powerfull medium static pressure unit on the market! - Slimmest unit in class, only 245mm - Low operating sound level - Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths - Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort		●	●	●	●	●	●	●		
ESP up to 200Pa, ideal for large sized buildings - Discretely concealed in the ceiling: only the grilles are visible - Possibility to change ESP via wired remote control allows optimisation of the supply air volume - Flexible installation as the air suction direction can be altered from rear to bottom suction							●			
ESP up to 250Pa, Ideal for extra large sized spaces - Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible - Up to 26.4kW in heating mode									●	●
Ideal for medium sized shops with false ceilings - Discretely concealed in the ceiling: only the grilles are visible - Best protection against possible water leakage Siesta					●	●	●	●		
For rooms with no false ceilings nor free floor space - The air is comfortably spread up- and downwards thanks to 5 different discharge angles - Easy maintenance as this can be done from the front of the unit - Easy to install: 100 class is 35% lighter than previous model - Flexible to install: pipe connection can be bottom, left or right					●	●				
For wide rooms with no false ceilings nor free floor space - Ideal for comfortable air flow in wide rooms thanks to Coanda effect - Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily! - Can be mounted in corners or narrow spaces without any problem		●	●	●	●	●	●	●		
Unique Daikin unit for high rooms with no false ceilings nor free floor space - Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily! - Flexibility to suit every room layout without changing the location of the unit! - Optimum comfort guaranteed with automatic air flow adjustment to the required load - The air is comfortably spread up- and downwards thanks to 5 different discharge angles					●	●	●			
For wide rooms with no false ceilings nor free floor space - Guarantees a stable temperature Siesta					●	●	●	●		
For spaces with high ceilings - Ideal solution for commercial spaces with no or narrow false ceilings - Even rooms with very high ceilings can be heated up or cooled down very easily! - Guarantees a stable temperature - Vertical and horizontal outblow					●	●	●	●		
Designed to be concealed in walls, only grilles remain visible - Slimmest unit on the market with a depth of only 200mm! - Both window sill or ducted installation are possible thanks to sufficient ESP - Whisper quiet operation allows installation in any location	●	●	●	●						

New combination with Seasonal Classic available!

Benefits overview Sky Air

We care	Seasonal efficiency - Smart use of energy	Seasonal efficiency gives a more realistic indication on how efficient air conditioners operate over an entire heating or cooling season.
	Inverter technology	In combination with inverter controlled outdoor units
	Home leave operation	During absence, the indoor temperature can be maintained at a certain level.
	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating.
	Auto cleaning filter	The filter automatically cleans itself once per day. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.
	Floor and presence sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.
Comfort	Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.
	Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood.
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.
Air treatment	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.
Humidity control	Dry programme	Allows humidity levels to be reduced without variations in room temperature.
Air flow	Ceiling soiling prevention	A special function prevents air blowing out too long in horizontal position, to prevent ceiling stains.
	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.
	Fan speed steps	Allows to select up to the given number of fan speed.
	Individual flap control	Individual flap control via the wired remote controller makes it simple to fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.
Remote control & timer	Weekly timer	Timer can be set to start operation anytime on a daily or weekly basis
	Infrared remote control	Infrared remote control with LCD to start, stop and regulate the air conditioner from a distance.
	Wired remote control	Wired remote control to start, stop and regulate the air conditioner from a distance.
	Centralised control	Centralised control to start, stop and regulate several air conditioners from one central point.
Other functions	Infrastructure cooling	Remove in a reliable, efficient and flexible way the heat constantly generated by the IT and server equipment to ensure maximum uptime while offering the best return on investment.
	Auto-restart	The unit restarts automatically at the original settings after power failure.
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.
	Drain pump kit	Facilitates condensation draining from the indoor unit.
	Twin/triple/double twin application	2, 3 or 4 indoor units can be connected to only 1 outdoor unit even if they have different capacities. All indoor units operate within the same mode (cooling or heating) from one remote control.
	Multi model application	Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.
	VRV for residential application	Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.

	Ceiling mounted cassette units					Concealed ceiling units						Ceiling suspended units		4-Way blow ceiling suspended unit	Wall mounted unit	Floor standing units	
NEW	FCAHG-F	FCQHG-F	FCQG-F	FFQ-C	ACQ-D	FDBQ-B	FDXS-F(9)	FBQ-D	FDQ-C	FDQ-B	ABQ-C	FHQ-CB	AHQ-C	FUQ-C	FAQ-C9	FVQ-C	FNQ-A
	 R-32																
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	5	3	3	3	4	2	3	3	3	2	3	3	3	3	3	3	2
	●	●	●	●										●			
	●	●	●	●	●	●	● depending on controller	●	●	●	●	●	●	●	●	●	●
	optional	optional	optional	optional	standard		optional	optional	optional			optional	standard	optional	optional		optional
	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	standard	optional	optional	optional	optional	optional	optional
	optional	optional	optional	optional			optional	optional	optional	optional		optional		optional	optional	optional	optional
	●	●	●	●				●				●		●	●	●	
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	standard	standard	standard	standard	standard			standard	standard			optional		standard	optional		
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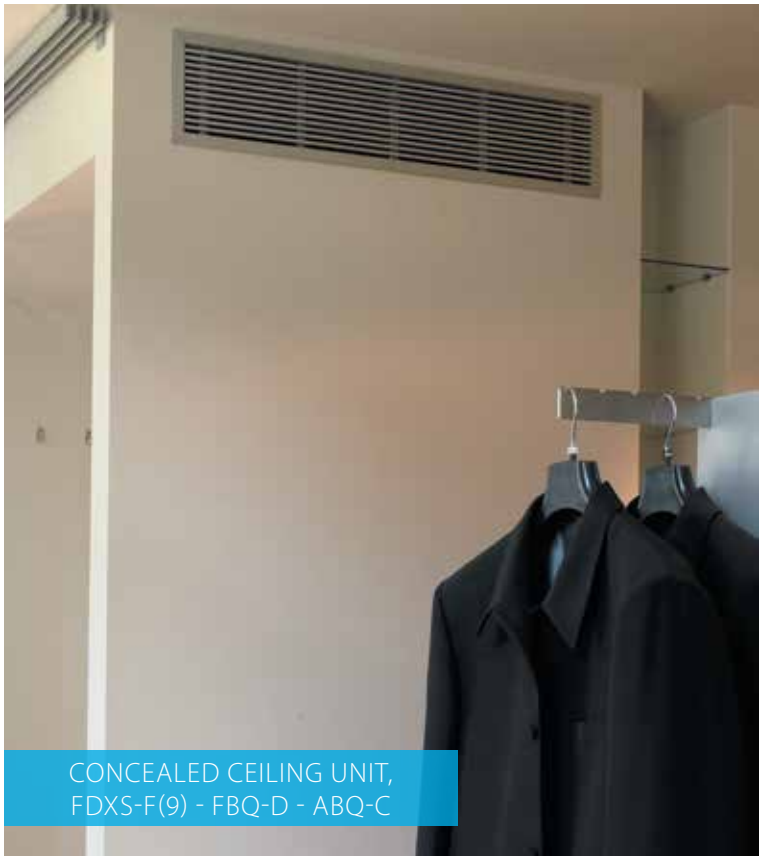
FULLY FLAT CASSETTE
FFQ-C



CONCEALED CEILING UNIT,
FDXS-F(9) - FBQ-D - ABQ-C

CONCEALED FLOOR
STANDING UNIT , FNQ-A

4-WAY BLOW CEILING
SUSPENDED CASSETTE , FUQ-C

WALL MOUNTED UNIT, FAQ-C

CEILING SUSPENDED CASSETTE, FHQ-C

AUTO CLEANING CASSETTE WITH FINE MESH FILTER, IDEAL FOR CLOTHING SHOPS

FCQG-F/FCQHG-F/FXFQ-A

Auto cleaning cassette

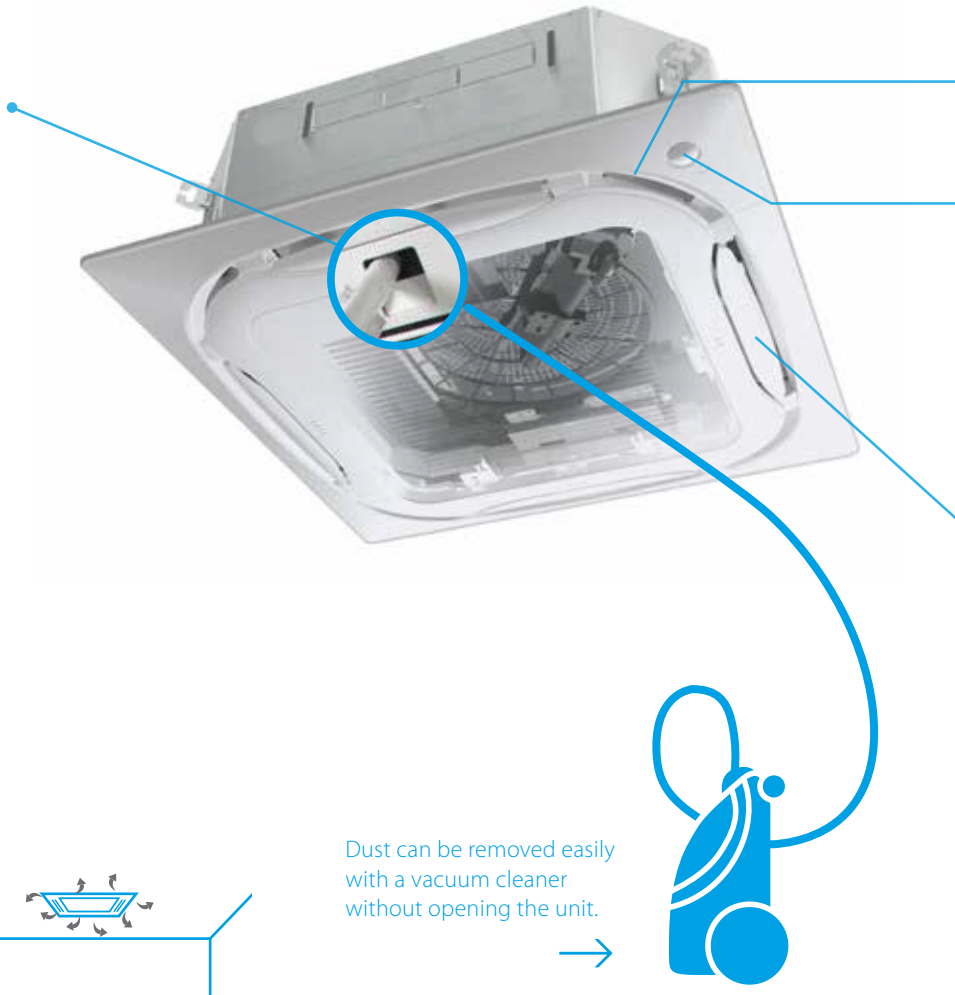
More energy efficient and user-friendly than any other cassette

› Running costs are reduced by 50% compared with standard solutions
› Automatic filter cleaning.
› Less time is required to maintain the filter: dust can be removed easily with a vacuum cleaner without opening the unit.

Finer mesh panel

› For dust prone areas (i.e. clothing and book shops) a finer mesh panel (BYCQ140DGF) ensures consistent performance and optimum air distribution
› Clean ceilings ensured thanks to fine mesh and daily cleaned filter

BYCQ140DG	BYCQ140DGF
Auto-cleaning panel	auto-cleaning panel with fine mesh filter
White with grey louvers	White with grey louvers



Dust can be removed easily with a vacuum cleaner without opening the unit.

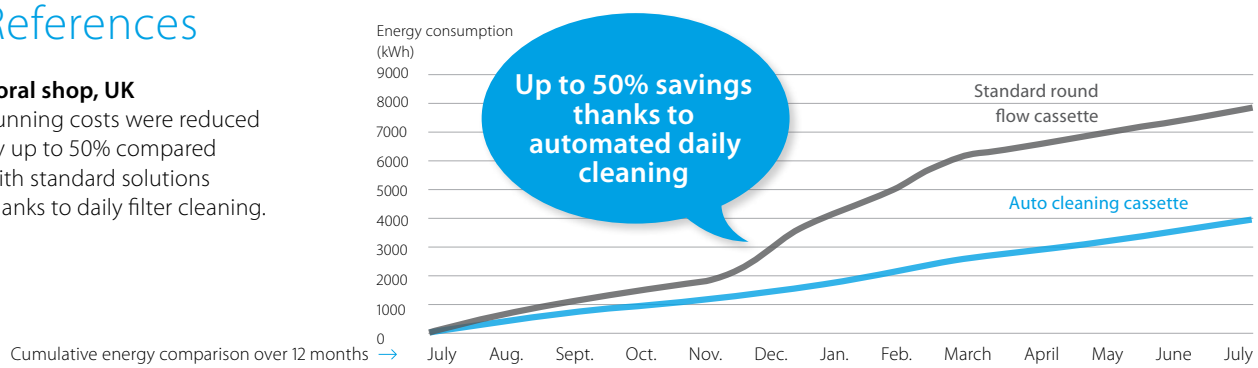
Self-cleaning cassette for maintaining the optimum store atmosphere

Air distribution with a clean filter

Air distribution with a dusty filter

References

Coral shop, UK
Running costs were reduced by up to 50% compared with standard solutions thanks to daily filter cleaning.



Why choose a round flow cassette?

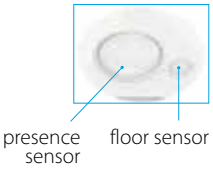
- 360° air discharge for optimum comfort
- Intelligent sensors for maximum efficiency

360° air discharge for improved comfort

› Industry-first and proven design.

Intelligent sensors improve efficiency and comfort even more

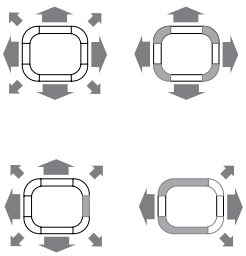
› The presence sensor adjusts the set point if no one is detected in the room leading to up to 27% savings. It also automatically directs air flow away from any person to avoid draught.

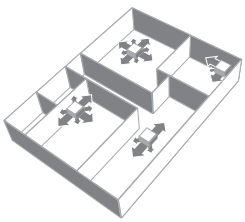


› The infrared floor sensor detects the average floor temperature and ensures even temperature distribution between ceiling and floor to prevent cold feet.

Flexible installation

› Flaps can be individually controlled or closed using the wired remote control, to suit room configuration. Optional closure kits are also available.





Benefits for the installer

› Product with unique functions in this market.
› Less time needed for onsite maintenance.
› Use the controller to individually open or close any of the four flaps to easily adapt to a changing room layout.
› Easy set-up of the sensor option to improve comfort and save energy.

Benefits for the consultant

› Product with unique functions in this market.
› Designed for use in all types and sizes of commercial offices and retail environments.
› Ideal product for improving BREEAM score/EPBD in combination with Sky Air Seasonal Smart or VRV IV heat pump units.

Benefits for the end user

› Designed for use in all types and sizes of commercial offices and retail environments.
› Perfect environment conditions: no more draughts or cold feet.
› Save up to 50% on running costs with the auto-cleaning panel, which also facilitates maintenance.
› Your customers can save up to 27% on their energy bills thanks to the sensor option.
› Flexible use of space thanks to individual flap control.

Marketing tools

› Visit the website: www.daikineurope.com/minisite/round-flow-cassette/

YouTube

www.youtube.com/DaikinEurope

R-32

Seasonal Smart

High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

› Industry leading technology extended with R-32
› 68% lower GWP compared to R-410A products
› 10% lower refrigerant charge compared to R-410A products
› Minimum 5% more efficient in cooling when compared to R-410A products

› Duty rotation control (via BRC1E53A/B/C)
› Power saving mode can be set to 70% or 40% of the demand (via BRC1E53A/B/C)
› 5 different fan speeds available
› Includes all R-410A high COP round flow cassette features

Efficiency data				FCAHG + RZAG	71F + 71LV1	100F + 100LV1	125F + 125LV1	140F + 140LV1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.66	2.15	3.00	4.00
	Heating	Nom.		kW	1.56	2.16	3.07	3.77
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++			-
		Pdesign		kW	6.80	9.50	12.00	-
		SEER			7.35		6.94	-
		Annual energy consumption		kWh	324	452	605	-
	Heating (Average climate)	Energy label			A+	A++		-
		Pdesign		kW	5.65	9.13	9.52	-
		SCOP/A			-			
		Annual energy consumption		kWh	1,743	2,753	2,879	-
Nominal efficiency	EER				4.09	4.42	4.00	3.35
	COP				4.80	4.99	4.40	4.12
	Annual energy consumption			kWh	830	1,075	1,500	2,000
	Energy label	Cooling/Heating			A/A			

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load | EER/COP according to Eurovent 2012, for use outside EU only

Indoor unit				FCAHG	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth		mm	288x840x840			
Decoration panel	Model				BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers			
	Colour				Pure White (RAL 9010)			
	Dimensions	HeightxWidthxDepth		mm	130x950x950 / 130x950x950 / 50x950x950 / 50x950x950			
	Weight			kg	10.3 / 10.3 / 5.4 . 5.4			
Sound power level	Cooling			dBA	53	61		
	Heating			dBA	53	61		
Sound pressure level	Cooling	High/Low		dBA	36/29	44/33	45/35	45/37
	Heating	High/Low		dBA	36/29	44/33	45/35	45/37
Refrigerant	Type				R-32			
	GWP				675			

Outdoor unit				RZAG	71LV1	100LV1	125LV1	140LV1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320		1,430x940x320	
Sound power level	Cooling			dBA	64		66	67
Sound pressure level	Cooling	Nom.		dBA	48	49	51	52
	Heating	Nom.		dBA	50	51	52	
	Night quiet mode	Level 1		dBA	43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50			
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5			
Refrigerant	Type/Charge/GWP			kg/TCO$_2$eq	R-32/2.6/1.8/675	R-32/3.4/2.3/675		
Piping connections	Liquid	OD		mm	9.52			
	Gas	OD		mm	15.9			
	Piping length	OU - IU	Max.	m	55	85		
		System	Equivalent	m	75	100		
			Chargeless	m	30			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240			

Contains fluorinated greenhouse gases

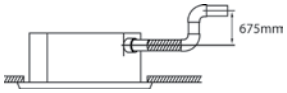
ROUND FLOW

Round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with split outdoor units is ideal for small retail, offices or residential applications

- Lowest installation height in the market: 204mm for class 71
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Modern style decoration panel is available in 4 different variations
- Daily automatic filter cleaning results in higher efficiency, comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort.
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Standard drain pump with 675mm lift increases flexibility and installation speed



FCQG35-50-60F

RXS35L3

BRC1E52A-B, BRC7FA532F

Efficiency data				FCQG + RXS	35F + 35L3	50F + 50L	60F + 60L
Cooling capacity	Min./Nom./Max.			kW	1.3/3.4/4.0	1.7/5.0/5.3	1.7/5.7/5.7
Heating capacity	Min./Nom./Max.			kW	1.3/4.20/5.2	1.7/6.00/6.0	1.7/7.0/7.0
Power input	Cooling	Min./Nom./Max.		kW	0.400/0.909/1.100	-/1.410/-	-/1.640/-
	Heating	Min./Nom./Max.		kW	0.230/1.200/1.840	-/1.620/-	-/1.990/-
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		
		Pdesign		kW	3.50	5.00	5.70
		SEER			6.35	6.48	6.22
		Annual energy consumption		kWh	193	270	321
	Heating (Average climate)	Energy label			A++		A+
		Pdesign		kW	3.32	4.36	4.71
		SCOP			4.90	4.29	4.00
		Annual energy consumption		kWh	949	1,426	1,646
Nominal efficiency	EER				3.74	3.55	3.48
	COP				3.50	3.7	3.52
	Annual energy consumption			kWh	455	705	820
	Energy label	Cooling/Heating			A/B	A/A	A/B

Indoor unit				FCQG	35F	50F	60F
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840		
Weight	Unit			kg	18	19	
Decoration panel	Model				BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers		
	Colour				Pure White (RAL 9010)		
	Dimensions	HeightxWidthxDepth		mm	130x950x950 / 130x950x950 / 50x950x950 / 50x950x950		
	Weight			kg	10.3 / 10.3 / 5.4 . 5.4		
Air filter	Type				Resin net with mold resistance		
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	12.5/10.6/8.7	12.6/10.7/8.7	13.6/11.2/8.7
	Heating	High/Nom./Low		m^3/min	12.5/10.6/8.7	12.6/10.7/8.7	13.6/11.2/8.7
Sound power level	Cooling			dBA	49		51
	Heating			dBA	49		51
Sound pressure level	Cooling	High/Nom./Low		dBA	31/29/27		33/31/28
	Heating	High/Nom./Low		dBA	31/29/27		33/31/28
Control systems	Infrared remote control				BRC7FA532F		
	Wired remote control				BRC1D52 / BRC1E52A/B		
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		

Outdoor unit				RXS	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285	735x825x300	
Weight	Unit			kg	34	47	48
Sound power level	Cooling			dBA	61	62	
	Heating			dBA	61	62	
Sound pressure level	Cooling	High/Low/Silent operation		dBA	48/-/44	48/44/-	49/46/-
	Heating	High/Low/Silent operation		dBA	48/-/45	48/45/-	49/46/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/1.2/2.5/2,087.5	R-410A/1.7/3.5/2,087.5	R-410A/1.5/3.1/2,087.5
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.5	12.70	
	Piping length	OU - IU	Max.	m	20	30	
		System	Chargeless	m	10		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	10	20	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)). For more detailed information on each combination, please refer to the electrical data drawing. (3) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

ROUND FLOW

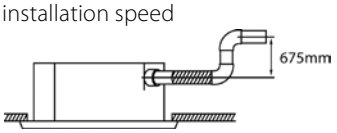
Seasonal Classic

Round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Lowest installation height in the market: 204mm for class 71
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Modern style decoration panel is available in 4 different variations
- Daily automatic filter cleaning results in higher efficiency, comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort.
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Standard drain pump with 675mm lift increases flexibility and installation speed



Efficiency data				**FCQG + RZQSG**	**71F + 71L3V1**	**100F + 100L9V1**	**125F + 125L9V1**	**140F + 140L9V1**	**100F + 100L8Y1**	**125F + 125L8Y1**	**140F + 140LY1**
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.12	2.88	3.74	4.45	2.88	3.74	4.45
	Heating	Nom.		kW	2.08	3.05	3.96	4.54	3.05	3.96	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A	-	A++	A	-
		Pdesign		kW	6.80	9.50	12.00	-	9.5	12	-
		SEER			6.10	6.50	5.30	-	6.5	5.3	-
		Annual energy consumption		kWh	390	512	793	-	512	793	-
	Heating (Average climate)	Energy label			A+			-	A+		-
		Pdesign		kW	6.33	7.60	8.03	-	7.6	8.03	-
		SCOP			4.10		4.01	-	4.1	4.01	-
		Annual energy consumption		kWh	2,162	2,596	2,804	-	2,596	2,804	-
Nominal efficiency	EER				3.21	3.30	3.21	3.01	3.30	3.21	3.01
	COP				3.61	3.54	3.41		3.54	3.41	
	Annual energy consumption			kWh	1,060	1,440	1,870	-	1,440	1,870	2,225
	Energy label	Cooling/Heating			A/A		A/B	-	A/A	A/B	-

Indoor unit				**FCQG**	**71F**	**100F**	**125F**	**140F**	**100F**	**125F**	**140F**
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840	246x840x840					
Weight	Unit			kg	21	24					
Decoration panel	Model				BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers						
	Colour				Pure White (RAL 9010)						
	Dimensions	HeightxWidthxDepth		mm	130x950x950 / 130x950x950 / 50x950x950 / 50x950x950						
	Weight			kg	10.3 / 10.3 / 5.4 / 5.4						
Air filter	Type				Resin net with mold resistance						
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4		22.8/17.6/12.4	26.0/19.2/12.4	
	Heating	High/Nom./Low		m^3/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4		22.8/17.6/12.4	26.0/19.2/12.4	
Sound power level	Cooling			dBA	51	54	58		54	58	
	Heating			dBA	51	54	58		54	58	
Sound pressure level	Cooling	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29		37/33/29	41/35/29	
	Heating	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29		37/33/29	41/35/29	
Control systems	Infrared remote control				BRC7FA532F						
	Wired remote control				BRC1D52 / BRC1E52A/B						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240						

Outdoor unit				**RZQSG**	**71L3V1**	**100L9V1**	**125L9V1**	**140L9V1**	**100L8Y1**	**125L8Y1**	**140LY1**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72	74	95	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing. (3) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

Round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FCQG100-125-140F

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B, BRC7FA532F

Efficiency data			FCQG + RZQG	71F + 71L9V1	100F + 100L9V1	125F + 125L9V1	140F + 140L9V1	71F + 71L8Y1	100F + 100L8Y1	125F + 125L8Y1	140F + 140LY1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.	kW	2.01	2.45	3.22	-	2.01	2.45	3.22	4.17
	Heating	Nom.	kW	1.89	2.60	3.72	-	1.89	2.60	3.72	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+	-	A++		A+	-
		Pdesign	kW	6.80	9.50	12.00	-	6.8	9.5	12	-
		SEER		6.80		6.00	-	6.8		6	-
		Annual energy consumption	kWh	350	489	700	-	350	489	700	-
	Heating (Average climate)	Energy label		A+	A++	A+	-	A+	A++	A+	-
		Pdesign	kW	6.33	11.30	12.66	-	6.33	11.3	12.66	-
		SCOP		4.20	4.61	4.10	-	4.2	4.61	4.1	-
		Annual energy consumption	kWh	2,110	3,432	4,323	-	2,110	3,432	4,323	-
Nominal efficiency	EER			3.39	3.87	3.73	3.21	3.39	3.87	3.73	3.21
	COP			3.97	4.15	3.63	3.61	3.97	4.15	3.63	3.61
	Annual energy consumption		kWh	1,005	1,225	1,610	-	1,005	1,225	1,610	-
	Energy label	Cooling/Heating		A/A			-	A/A			-

Indoor unit			FCQG	71F	100F	125F	140F	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth	mm	204x840x840	246x840x840			204x840x840	246x840x840		
Weight	Unit		kg	21	24			21	24		
Decoration panel	Model			BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers							
	Colour			Pure White (RAL 9010)							
	Dimensions	HeightxWidthxDepth	mm	130x950x950 / 130x950x950 / 50x950x950							
	Weight		kg	10.3 / 10.3 / 5.4 / 5.4							
Air filter	Type			Resin net with mold resistance							
Fan - Air flow rate	Cooling	High/Nom./Low	m^3/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4		15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4	
	Heating	High/Nom./Low	m^3/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4		15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4	
Sound power level	Cooling		dBA	51	54	58		51	54	58	
	Heating		dBA	51	54	58		51	54	58	
Sound pressure level	Cooling	High/Nom./Low	dBA	33/31/28	37/33/29	41/35/29		33/31/28	37/33/29	41/35/29	
	Heating	High/Nom./Low	dBA	33/31/28	37/33/29	41/35/29		33/31/28	37/33/29	41/35/29	
Control systems	Infrared remote control			BRC7FA532F							
	Wired remote control			BRC1D52 / BRC1E52A/B							
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240							

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	69	95			80	101		
Sound power level	Cooling			dBA	64	66	67	69	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52	48	50	51	52
	Heating	Nom.		dBA	50	52	53		50	52	53	
	Night quiet mode	Level 1		dBA	43	45			43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50							
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5							
Refrigerant	Type/Charge kg-TCO$_2$Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5			R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		
Piping connections	Liquid	OD		mm	9.52							
	Gas	OD		mm	15.9							
	Piping length	OU - IU	Max.	m	50	75			50	75		
		System	Equivalent	m	70	90			70	90		
			Chargeless	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
	Level difference	IU - OU	Max.	m	30.0							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			20	32		

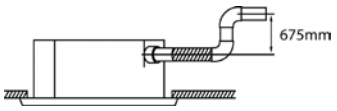
(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing. (3) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.

High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- High COP cassette ensures top performance
- Lowest installation height in the market: 204mm for class 71
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Modern style decoration panel is available in 4 different variations
- Daily automatic filter cleaning results in higher efficiency, comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort.
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Standard drain pump with 675mm lift increases flexibility and installation speed



Efficiency data				**FCQHG + RZQSG**	**71F + 71L3V1**	**100F + 100L9V1**	**125F + 125L9V1**	**140F + 140L9V1**	**100F + 100L8Y1**	**125F + 125L8Y1**	**140F + 140LY1**
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.94	2.57	3.71	4.17	2.57	3.71	4.17
	Heating	Nom.		kW	1.83	2.51	3.60	4.29	2.51	3.60	4.29
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A	-	A++	A	-
		Pdesign		kW	6.80	9.50	12.00	-	9.5	12	-
		SEER			6.50	6.70	5.40	-	6.7	5.4	-
		Annual energy consumption		kWh	366	497	778	-	497	778	-
	Heating (Average climate)	Energy label			A+			-	A+		-
		Pdesign		kW	7.60	8.03		-	8.03		-
		SCOP			4.15	4.30	4.10	-	4.3	4.1	-
		Annual energy consumption		kWh	2,563	2,615	2,742	-	2,615	2,742	-
Nominal efficiency	EER				3.50	3.70	3.23	3.21	3.70	3.23	3.21
	COP				4.10	4.30	3.75	3.61	4.30	3.75	3.61
	Annual energy consumption			kWh	970	1,285	1,855	-	1,285	1,855	-
	Energy label	Cooling/Heating			A/A			-	A/A		-

Indoor unit				**FCQHG**	**71F**	**100F**	**125F**	**140F**	**100F**	**125F**	**140F**
Dimensions	Unit	HeightxWidthxDepth		mm	288x840x840						
Weight	Unit			kg	25	26					
Decoration panel	Model				BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers						
	Colour				Pure White (RAL 9010)						
	Dimensions	HeightxWidthxDepth		mm	130x950x950 / 130x950x950 / 50x950x950 / 50x950x950						
	Weight			kg	10.3 / 10.3 / 5.4 / 5.4						
Air filter	Type				Resin net with mold resistance						
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
	Heating	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
Sound power level	Cooling			dBA	53	61					
	Heating			dBA	53	61					
Sound pressure level	Cooling	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37	44/39/33	45/40/35	45/41/37
	Heating	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37	44/39/33	45/40/35	45/41/37
Control systems	Infrared remote control				BRC7FA532F						
	Wired remote control				BRC1D52 / BRC1E52A/B						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240						

Outdoor unit				**RZQSG**	**71L3V1**	**100L9V1**	**125L9V1**	**140L9V1**	**100L8Y1**	**125L8Y1**	**140LY1**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72	74	95	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing. (3) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FCQHG71-100-125-140F

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B, BRC7FA532F

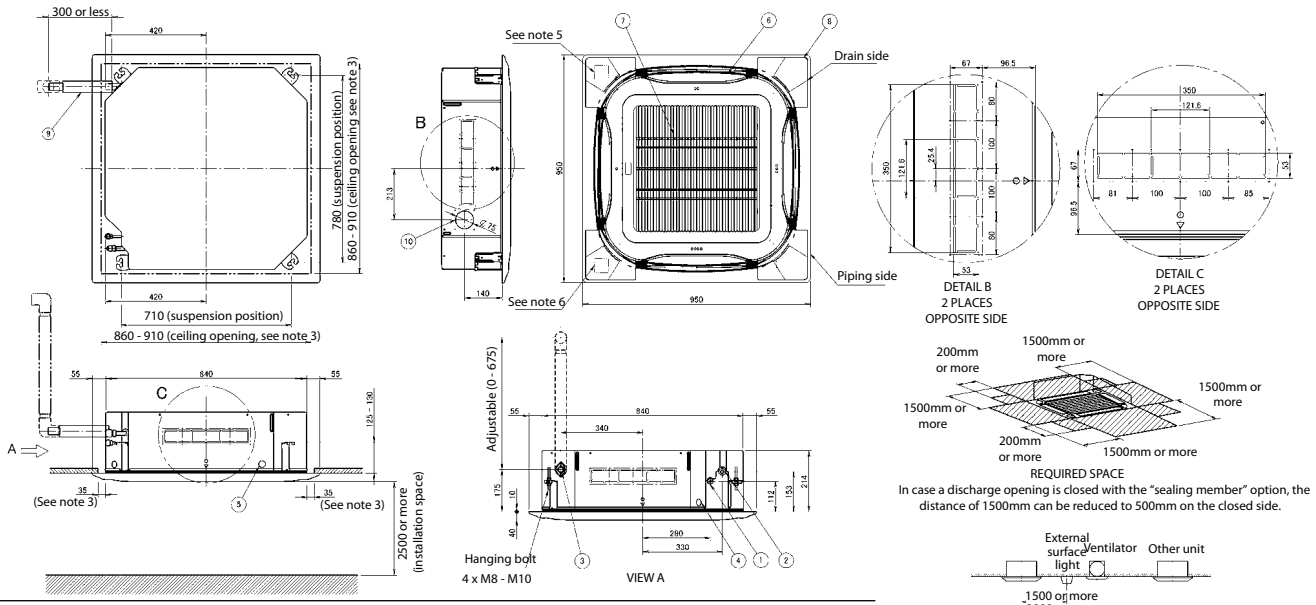
Efficiency data				FCQHG + RZQG	71F + 71L9V1	100F + 100L9V1	125F + 125L9V1	140F + 140L9V1	71F + 71L8Y1	100F + 100L8Y1	125F + 125L8Y1	140F + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.66	2.15	3.00	4.00	1.66	2.15	3.00	4.00
	Heating	Nom.		kW	1.56	2.16	3.07	3.77	1.56	2.16	3.07	3.77
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++			-	A++			-
		Pdesign		kW	6.80	9.50	12.00	-	6.8	9.5	12	-
		SEER			7.00		6.61	-	7		6.61	-
		Annual energy consumption		kWh	340	475	636	-	340	475	636	-
	Heating (Average climate)	Energy label			A+	A++		-	A+	A++		-
		Pdesign		kW	7.60	11.30	12.66	-	7.6	11.3	12.66	-
		SCOP			4.54	4.80	4.63	-	4.54	4.8	4.63	-
		Annual energy consumption		kWh	2,344	3,296	3,829	-	2,344	3,296	3,829	-
Nominal efficiency	EER				4.09	4.42	4.00	3.35	4.09	4.42	4.00	3.35
	COP				4.80	4.99	4.40	4.12	4.80	4.99	4.40	4.12
	Annual energy consumption			kWh	830	1,075	1,500	-	830	1,075	1,500	-
	Energy label	Cooling/Heating			A/A			-	A/A			-

Indoor unit				FCQHG	71F	100F	125F	140F	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth		mm	288x840x840							
Weight	Unit			kg	25	26			25	26		
Decoration panel	Model				BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers							
	Colour				Pure White (RAL 9010)							
	Dimensions	HeightxWidthxDepth		mm	130x950x950 / 130x950x950 / 50x950x950 / 50x950x950							
	Weight			kg	10.3 / 10.3 / 5.4 / 5.4							
Air filter	Type				Resin net with mold resistance							
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
	Heating	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
Sound power level	Cooling			dBA	53	61			53	61		
	Heating			dBA	53	61			53	61		
Sound pressure level	Cooling	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37	36/33/29	44/39/33	45/40/35	45/41/37
	Heating	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37	36/33/29	44/39/33	45/40/35	45/41/37
Control systems	Infrared remote control				BRC7FA532F							
	Wired remote control				BRC1D52 / BRC1E52A/B							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240							

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	69	95			80	101		
Sound power level	Cooling			dBA	64	66	67	69	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52	48	50	51	52
	Heating	Nom.		dBA	50	52	53		50	52	53	
	Night quiet mode	Level 1		dBA	43	45			43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50							
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5							
Refrigerant	Type/Charge kg-TCO$_2$Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5			R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		
Piping connections	Liquid	OD		mm	9.52							
	Gas	OD		mm	15.9							
	Piping length	OU - IU	Max.	m	50	75			50	75		
		System	Equivalent	m	70	90			70	90		
			Chargeless	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
	Level difference	IU - OU	Max.	m	30.0							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	25	40			20	32		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing. (3) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.

FCQG35-71F WITH STANDARD PANEL



NOTE

1. Location of the nameplates
   - Unit body: on the control box cover
   - Decoration panel: on the panel frame at the piping side under the corner cover
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm. Max ceiling opening: 910mm
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more)
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail
6. In case of using a infrared control, this position will be a receiver, refer to the drawing of the infrared control for more detail

Item	Name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply entry hole
5	Transmission wiring entry hole
6	Air discharge opening
7	Air suction grille
8	Corner decoration cover
9	Drain hose
10	Knock out hole

Model
FCQG35-71FVEB, FXFQ20-63AVEB

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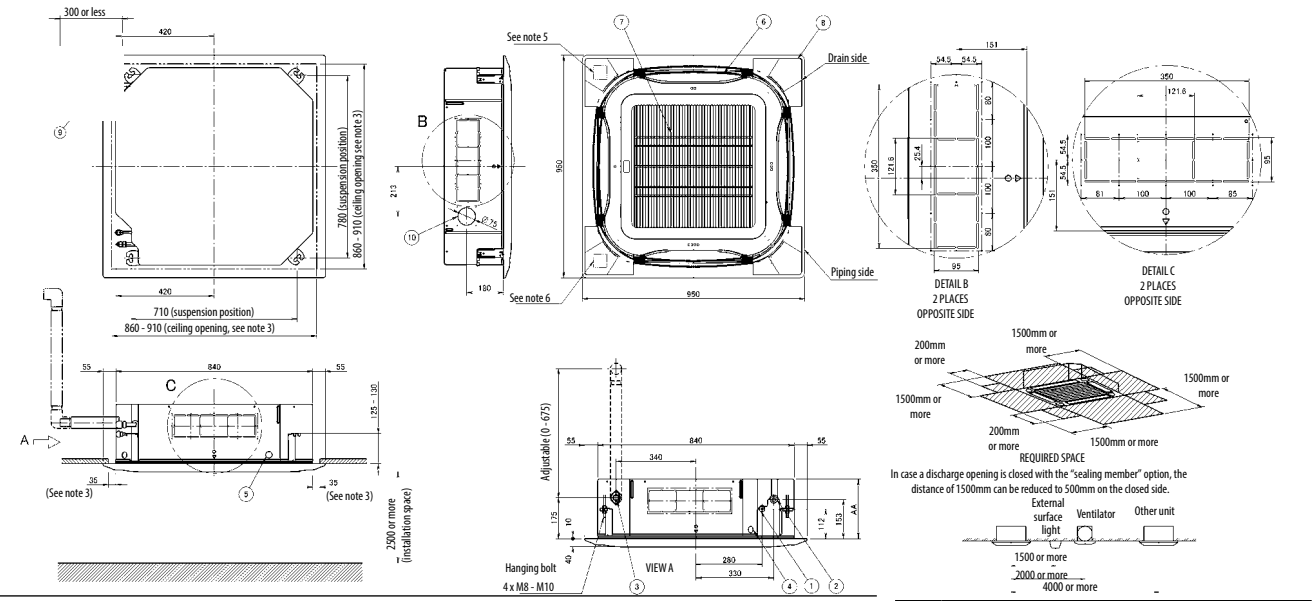
FCQG100-140F / FCQHG-F WITH STANDARD PANEL



NOTE

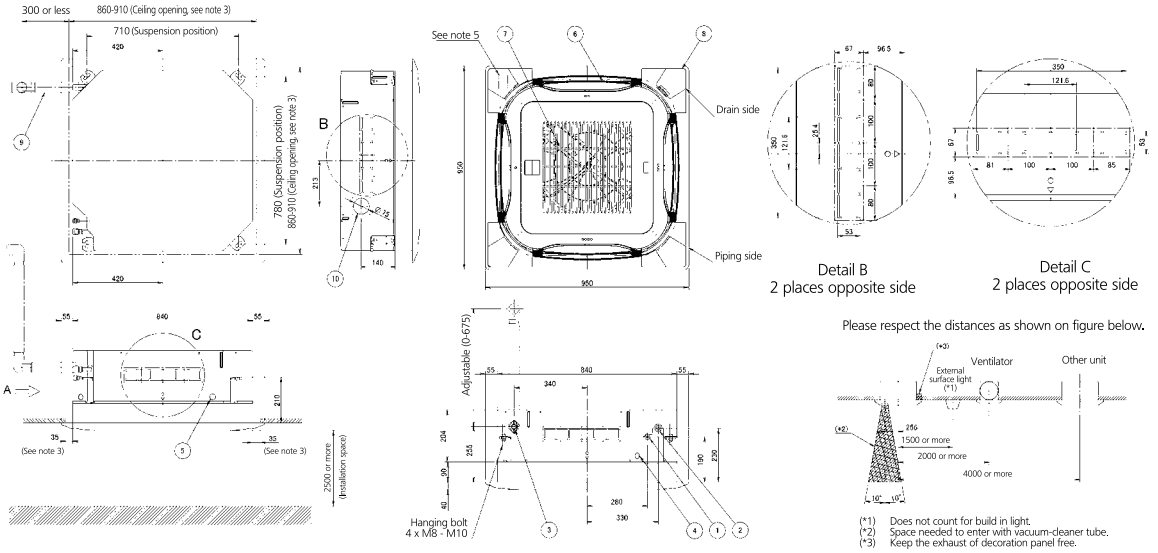
1. Location of the nameplates
   - Unit body: on the control box cover
   - Decoration panel: on the panel frame at the piping side under the corner cover
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm. Max ceiling opening: 910mm
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more)
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail
6. In case of using a infrared control, this position will be a receiver, refer to the drawing of the infrared control for more detail

Item	Name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply entry hole
5	Transmission wiring entry hole
6	Air discharge opening
7	Air suction grille
8	Corner decoration cover
9	Drain hose
10	Knock out hole

	Model
256	FCQG100-140FVEB, FXFQ80-100AVEB
298	FCQHG71-140FVEB, FXFQ125AVEB

3D077130E

FCQG35-71F WITH AUTO-CLEANING PANEL

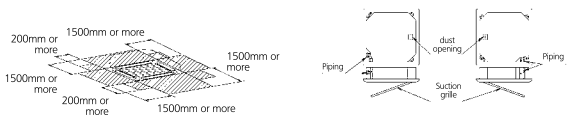


1 Liquid pipe connection
2 Gas pipe connection
3 Drain pipe connection
4 Power supply entry hole
5 Transmission wiring entry hole
6 Air discharge opening
7 Air suction grille
8 Corner decoration cover
9 Drain hose
10 Knock out hole

Model
FCQG35-71F, FXFQ20-63A

Please respect the distances as shown on figure below.

(*1) Does not count for build in light.
(*2) Space needed to enter with vacuum-cleaner tube.
(*3) Keep the exhaust of decoration panel free.



Installation direction

Notes:

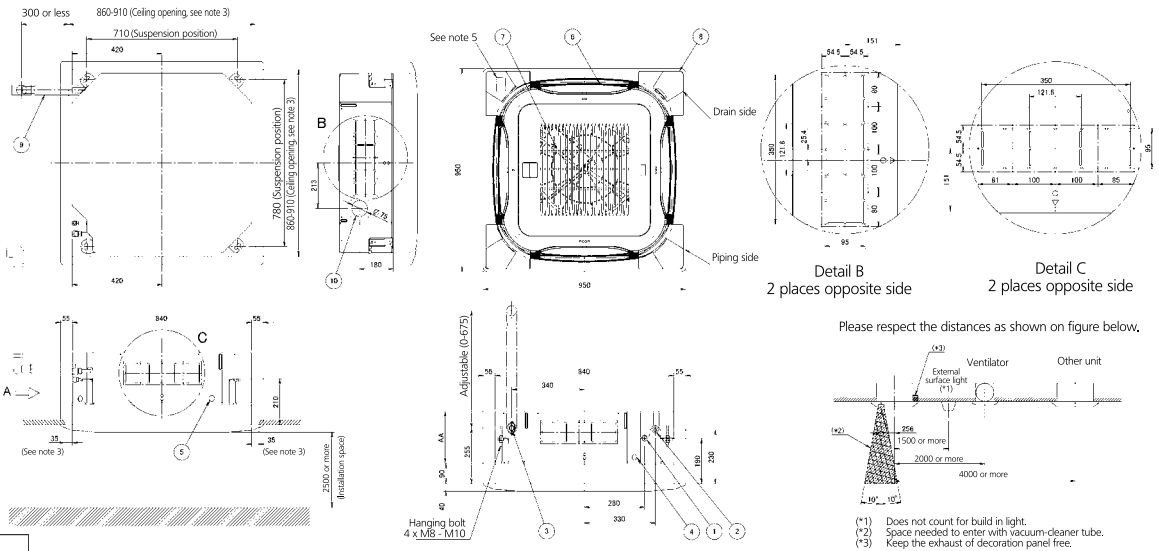
1. Location of the nameplates:
   - Unit body: on the control box cover.
   - Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary.
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm.
   MAX ceiling opening: 910mm.
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10 mm or more).
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail.

Required space

In case a discharge opening is closed with the 'sealing member' option, the distance of 1500mm can be reduced to 500mm on the closed side.

2D090231

FCQG100-140F / FCQHG-F WITH AUTO-CLEANING PANEL



1 Liquid pipe connection
2 Gas pipe connection
3 Drain pipe connection
4 Power supply entry hole
5 Transmission wiring entry hole
6 Air discharge opening
7 Air suction grille
8 Corner decoration cover
9 Drain hose
10 Knock out hole

AA	Model
246	FCQG100-140F, FXFQ80-100A
288	FCQHG71-140F, FXFQ125A

Please respect the distances as shown on figure below.

(*1) Does not count for build in light.
(*2) Space needed to enter with vacuum-cleaner tube.
(*3) Keep the exhaust of decoration panel free.

Installation direction

Notes:

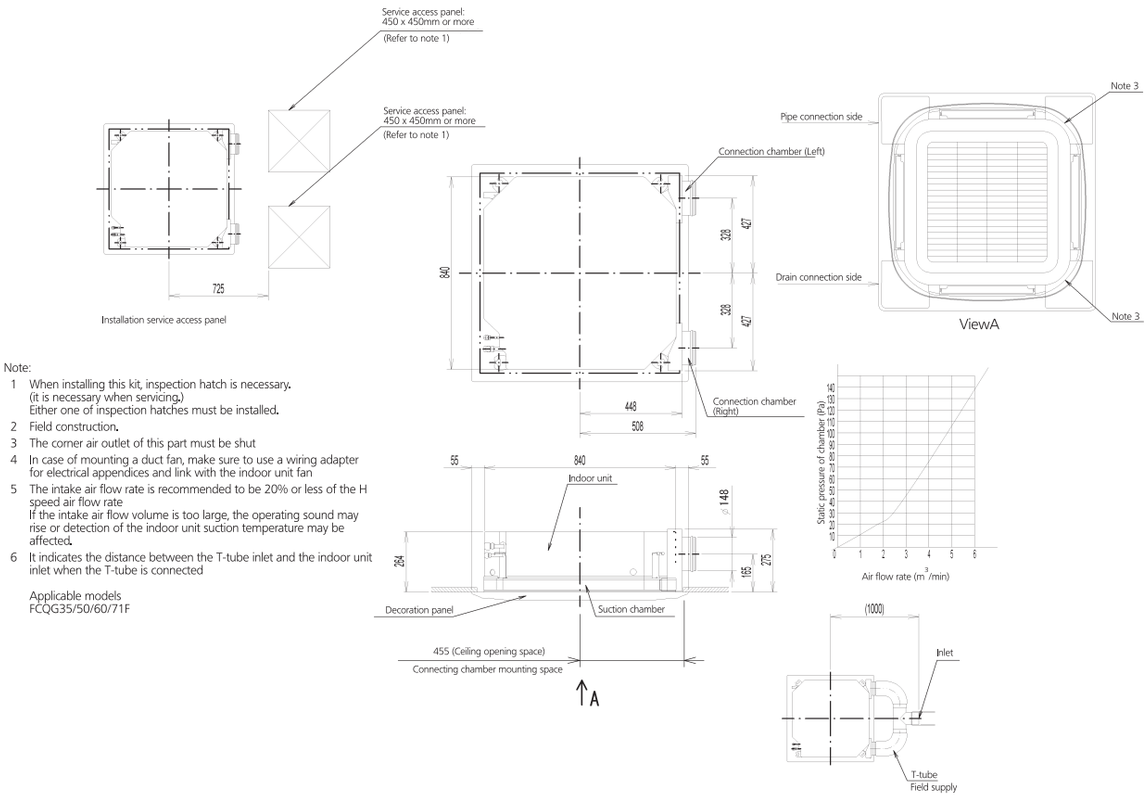
1. Location of the nameplates:
   - Unit body: on the control box cover.
   - Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary.
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm.
   MAX ceiling opening: 910mm.
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10 mm or more).
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail.

Required space

In case a discharge opening is closed with the 'sealing member' option, the distance of 1500mm can be reduced to 500mm on the closed side.

3D077131D

FCQG35-71F



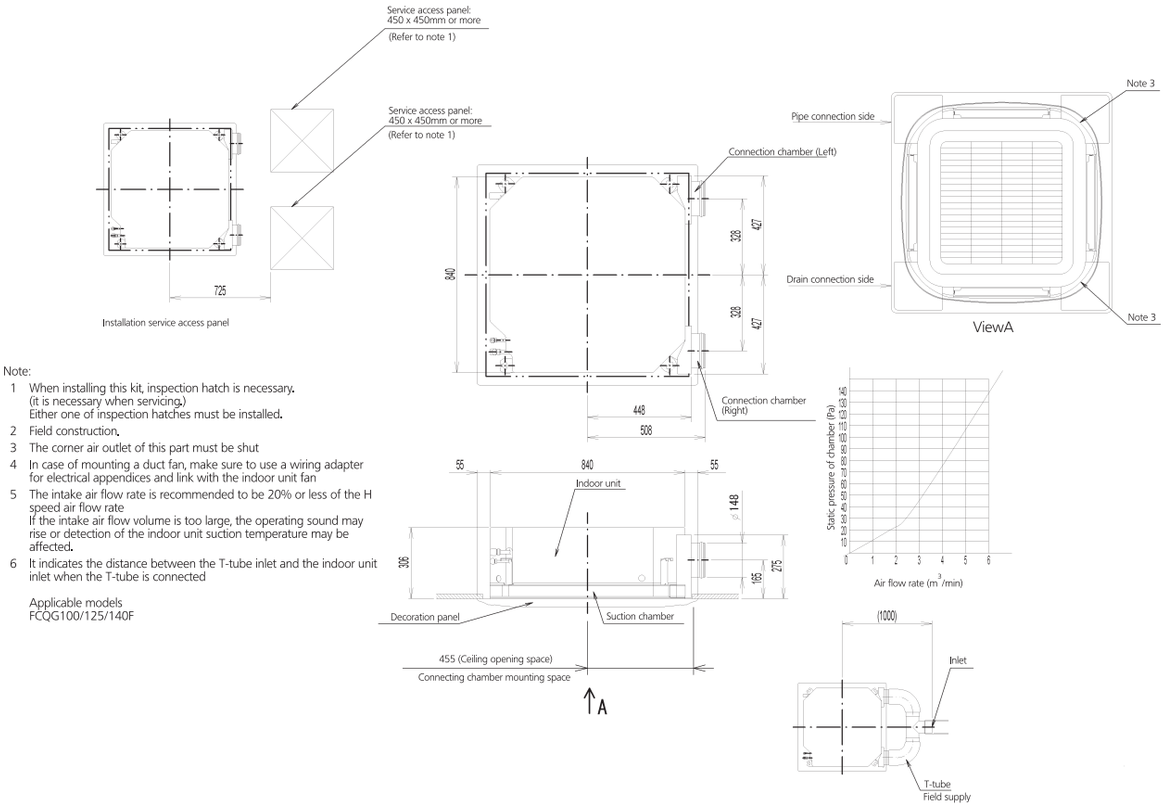
Note:

1 When installing this kit, inspection hatch is necessary.
(it is necessary when servicing.)
Either one of inspection hatches must be installed.
2 Field construction.
3 The corner air outlet of this part must be shut
4 In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan
5 The intake air flow rate is recommended to be 20% or less of the H speed air flow rate
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
6 It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected

Applicable models
FCQG35/50/60/71F

3D082217

FCQG100-140F



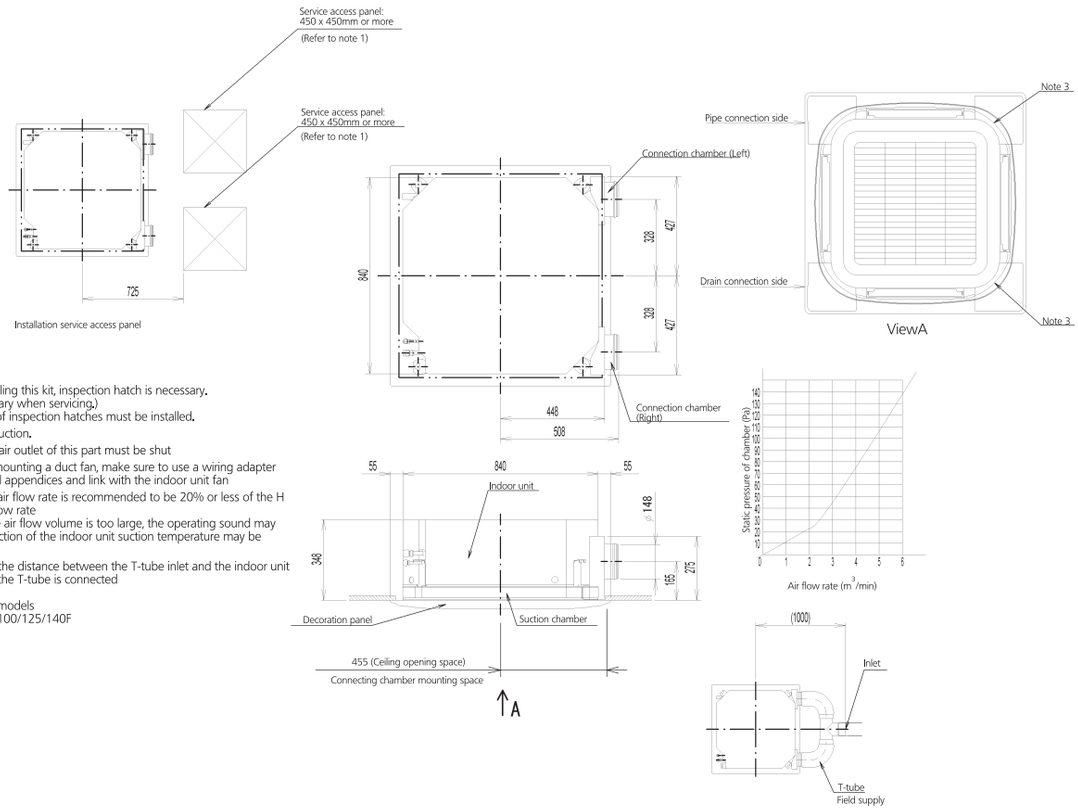
Note:

1 When installing this kit, inspection hatch is necessary.
(it is necessary when servicing.)
Either one of inspection hatches must be installed.
2 Field construction.
3 The corner air outlet of this part must be shut
4 In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan
5 The intake air flow rate is recommended to be 20% or less of the H speed air flow rate
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
6 It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected

Applicable models
FCQG100/125/140F

3D082218

FCQHG-F



Note:

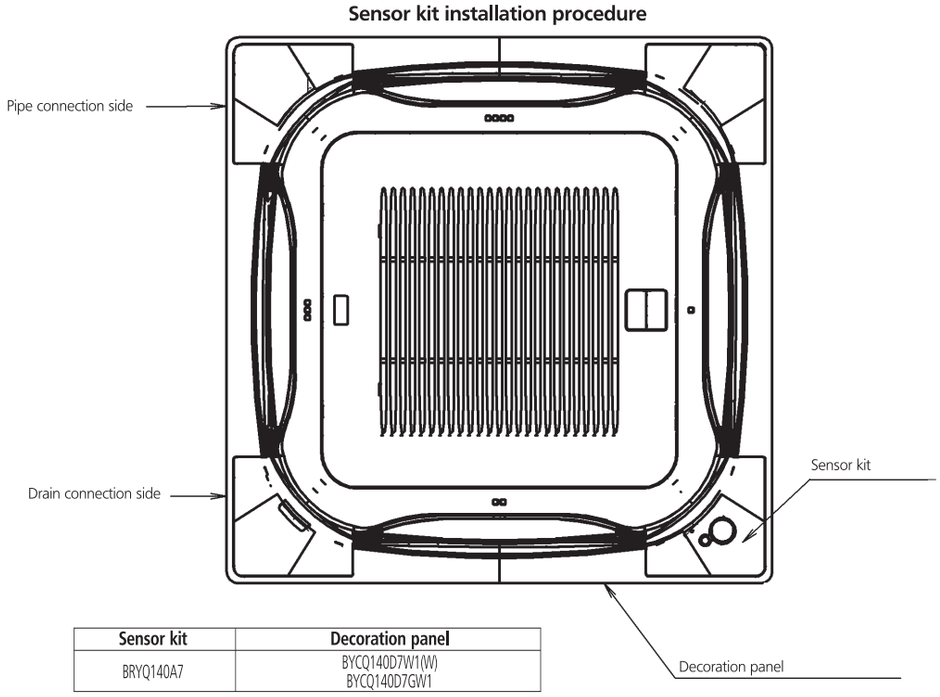
1 When installing this kit, inspection hatch is necessary.
(it is necessary when servicing.)
Either one of inspection hatches must be installed.
2 Field construction.
3 The corner air outlet of this part must be shut
4 In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan
5 The intake air flow rate is recommended to be 20% or less of the H speed air flow rate
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
6 It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected

Applicable models
FCQHG71/100/125/140F

3D082220

FCQG-F / FCQHG-F

Sensor kit installation procedure



Sensor kit	Decoration panel
BRYQ140A7	BYCQ140D7W1(W) BYCQ140D7GW1

4D077409

ARGUE CARDS

FFQ-C / FXZQ-A

universal design award 2014

GERMAN DESIGN AWARD SPECIAL 2016

Fully Flat Cassette

Design & Genius in one

Why choose fully flat cassette

- Unique design in the market that integrates fully flat into the ceiling
- Advanced technology and top efficiency combined
- Most quiet cassette available on the market

YouTube

www.youtube.com/DaikinEurope

Marketing tools

Visit the website: www.daikineurope.com/fullyflat

Benefits for the installer

› Unique product in the market!
› Most quiet unit (25dBA)
› The user-friendly remote control, available in several languages, enables the easy set-up of sensor option and control of the individual flap position
› Meeting European design taste.

Benefits for the consultant

› Unique product in the market!
› Blends seamlessly in any modern office interior design
› Ideal product to improve BREEAM score/EPBD in combination with Sky Air Seasonal Smart (FFQ-C) or VRV IV heat pump units (FXZQ-A).

Benefits for the end user

› Engineering excellence and unique design in one
› Most quiet unit (25dBA)
› Perfect working conditions: no more cold draughts
› Save up to 27% on your energy bill thanks to the optional sensors
› Flexible usage of space and suits any room configuration thanks to individual flap control
› User-friendly remote control, available in several languages.

Unique design

› Designed by a European design office to fully meet the European taste.
› Fully flat into the ceiling, leaving only 8mm.
› Fully integrated in the one ceiling tile, enabling lights, speakers and sprinklers to be installed in adjoining ceiling tiles.
› Decoration panel available in 2 colours (white and white-silver).

Differentiating in technology

Optional presence sensor

› When the room is empty, it can adjust the set temperature or switch off the unit – saving energy.
› When people are detected, the direction of the airflow is adapted to avoid cold draughts being directed towards occupants.

Optional floor sensor

› Detects the temperature difference and re-directs the airflow to ensure even temperature distribution.

Top efficiency

› Seasonal labels up to A++*
› When the room is empty, the sensor option can adjust the set temperature or switch off the unit – saving up to 27% energy.
› Individual flap control: easily control one or more flaps via the wired remote controller (BRC1E52) when rearranging the room. When fully closing or blocking the flaps, the option "Sealing member of air discharge outlet" is needed.

* for FFQ25,35C in combination with RXS25,35L3

Most quiet unit in the market

› Most silent cassette in the market (25dBA), important for office applications.

universal design award 2014

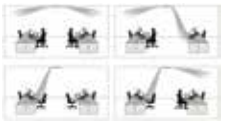
GERMAN DESIGN AWARD SPECIAL 2016

Fully flat cassette

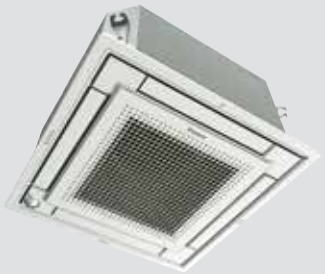
Unique design in the market that integrates fully flat into the ceiling

Combination with split outdoor units is ideal for small retail, offices or residential applications

› Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
› Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
› Individual flap control: flexibility to suit every room layout without changing the location of the unit!
› Two optional intelligent sensors improve energy efficiency and comfort.



› No optional adapter needed for DIII-connection, link your unit into the wider building management system.
› Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
› Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
› Standard drain pump with 675mm lift increases flexibility and installation speed



FFQ-C

RXS25-35L3

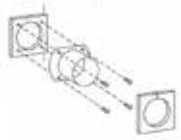
BRC1E52A-B, BRC7F530W_S - white/grey panel, BRC7EB530 - standard panel

› Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required

Fresh air intake opening in casing

* Brings in up to 10% of fresh air into the room

Optional fresh air intake kit



* Allows larger quantities of fresh air to be bought in

Efficiency data				FFQ + RXS	25C + 25L3	35C + 35L3	50C + 50L	60C + 60L
Cooling capacity	Min./Nom./Max.			kW	1.4/2.50/4.0	1.4/3.4/4.0	1.7/5.0/5.3	1.7/5.7/6.5
Heating capacity	Min./Nom./Max.			kW	1.3/3.20/5.1	1.3/4.20/5.1	1.7/5.8/6.0	1.7/7.0/8.0
Power input	Cooling	Min./Nom./Max.		kW	0.360/0.551/1.470	0.360/0.899/1.470	-/1.560/-	-/1.890/-
	Heating	Min./Nom./Max.		kW	0.300/0.820/1.650	0.300/1.200/1.650	-/1.660/-	-/2.050/-
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A+	
		Pdesign		kW	2.50	3.40	5.00	5.70
		SEER			6.11	6.32	5.93	5.71
		Annual energy consumption		kWh	143	188	295	349
	Heating (Average climate)	Energy label			A+		A	A+
		Pdesign		kW	2.31	3.10	3.84	3.96
		SCOP			4.24	4.10	3.90	4.04
		Annual energy consumption		kWh	763	1,059	1,378	1,373
Nominal efficiency	EER				4.53	3.78	3.21	3.02
	COP				3.90	3.50	3.49	3.41
	Annual energy consumption			kWh	276	450	780	945
	Energy label	Cooling/Heating			A/A		A/B	B/B

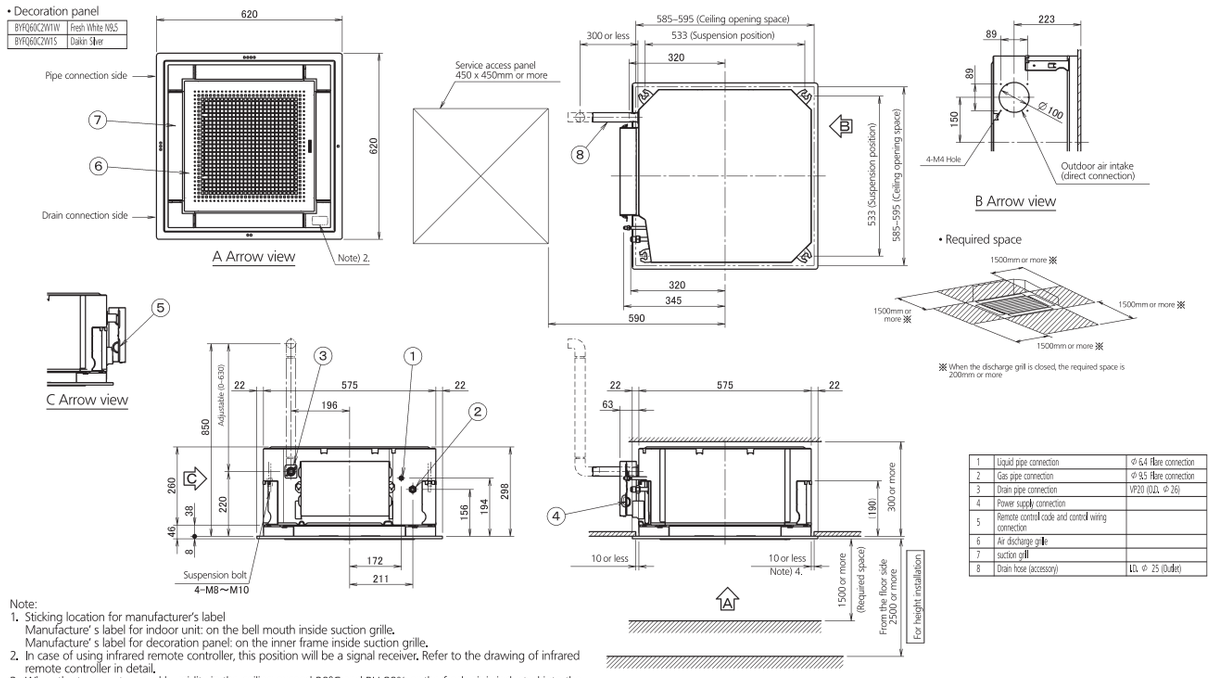
Indoor unit				FFQ	25C	35C	50C	60C
Dimensions	Unit	HeightxWidthxDepth		mm	260x575x575			
Weight	Unit			kg	16		17.5	
Decoration panel	Model				BYFQ60CW (white panel) / BYFQ60CS (grey panel) / BYFQ60B3W1 (standard panel)			
	Colour				White (N9.5) / White (N9.5) + Silver / White (RAL9010)			
	Dimensions	HeightxWidthxDepth		mm	46x620x620 / 46x620x620 / 55x700x700			
	Weight			kg	2.8 / 2.8 / 2.7			
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	9/8/6.5	10/8.5/6.5	12/10/7.5	14.5/12.5/9.5
	Heating	High/Nom./Low		m^3/min	9/8/6.5	10/8.5/6.5	12/10/7.5	14.5/12.5/9.5
Sound power level	Cooling			dBA	48	51	56	60
Sound pressure level	Cooling	High/Nom./Low		dBA	31/28.5/25	34/30.5/25	39/34/27	43/40/32
	Heating	High/Nom./Low		dBA	31/28.5/25	34/30.5/25	39/34/27	43/40/32
Control systems	Infrared remote control				BRC7F530W (white panel) / BRC7F530S (grey panel) / BRC7EB530 (standard panel)			
	Wired remote control				BRC1D52 / BRC1E52A/B			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			

Outdoor unit				RXS	25L3	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x825x300	
Weight	Unit			kg	34		47	48
Sound power level	Cooling			dBA	59	61	62	
	Heating			dBA	59	61	62	
Sound pressure level	Cooling	High/Low/Silent operation		dBA	46/-/43	48/-/44	48/44/-	49/46/-
	Heating	High/Low/Silent operation		dBA	47/-/44	48/-/45	48/45/-	49/46/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/1.0/2.1/2,087.5	R-410A/1.2/2.5/2,087.5	R-410A/1.7/3.5/2,087.5	R-410A/1.5/3.1/2,087.5
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.5		12.7	
	Piping length	OU - IU	Max.	m	20		30	
		System	Chargeless	m	10			
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	16		20	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Find all technical drawings on our business portal http://my.daikin.eu

FFQ25-35C

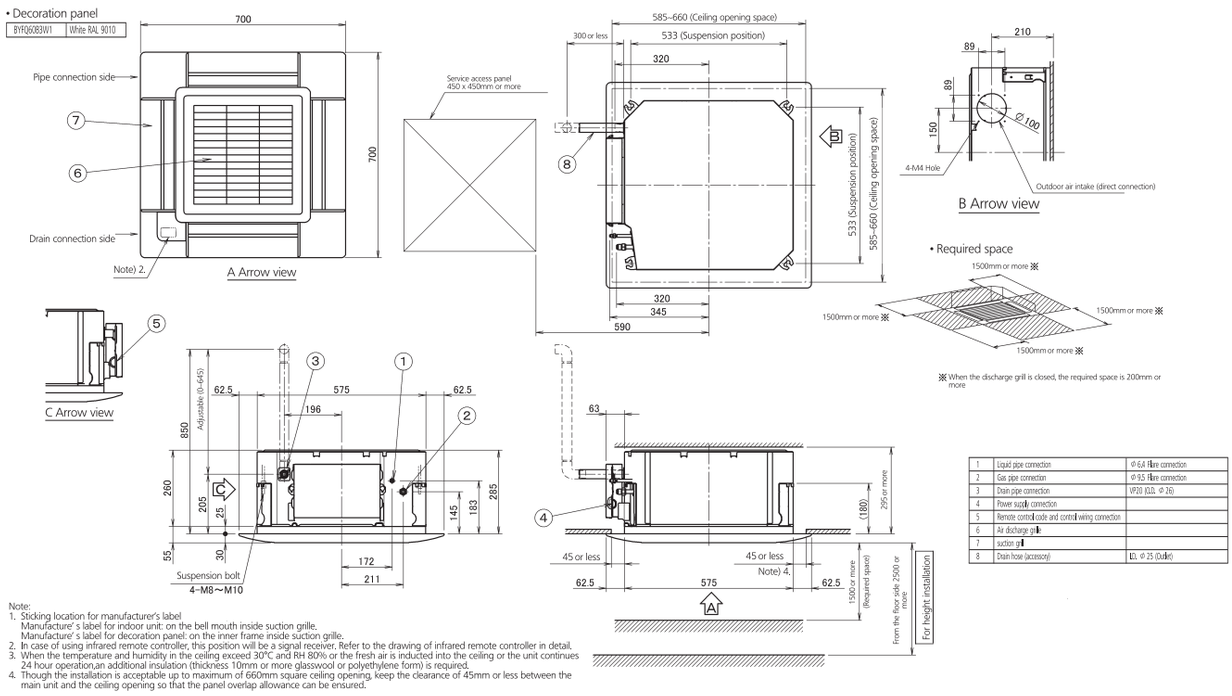


1	Liquid pipe connection	Φ 6.4 Flare connection
2	Gas pipe connection	Φ 9.5 Flare connection
3	Drain pipe connection	VP20 (I.D. Φ 26)
4	Power supply connection	
5	Remote control code and control wiring connection	
6	Air discharge grille	
7	suction grill	
8	Drain hose (accessory)	I.D. Φ 25 (Outlet)

Note:
1. Sticking location for manufacturer's label
   Manufacture' s label for indoor unit: on the bell mouth inside suction grille.
   Manufacture' s label for decoration panel: on the inner frame inside suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. When the temperature and humidity in the ceiling exceed 30°C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more glasswool or polyethylene form) is required.
4. Though the installation is acceptable up to maximum of 595mm square ceiling opening, Keep the clearance of 10mm or less between the main unit and the ceiling opening so that the panel overlap allowance can be ensured.

3D082433

FFQ25-35C



1	Liquid pipe connection	Φ 6.4 Flare connection
2	Gas pipe connection	Φ 9.5 Flare connection
3	Drain pipe connection	VP20 (I.D. Φ 26)
4	Power supply connection	
5	Remote control code and control wiring connection	
6	Air discharge grille	
7	suction grill	
8	Drain hose (accessory)	I.D. Φ 25 (Outlet)

Note:
1. Sticking location for manufacturer's label
   Manufacture' s label for indoor unit: on the bell mouth inside suction grille.
   Manufacture' s label for decoration panel: on the inner frame inside suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. When the temperature and humidity in the ceiling exceed 30°C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation,an additional insulation (thickness 10mm or more glasswool or polyethylene form) is required.
4. Though the installation is acceptable up to maximum of 660mm square ceiling opening, keep the clearance of 45mm or less between the main unit and the ceiling opening so that the panel overlap allowance can be ensured.

3D082434A

FULLY FLAT CASSETTE INTEGRATES
FULLY FLAT INTO THE CEILING

4-way blow ceiling mounted cassette

Solution addressing the primary needs of small shops

- Ideal solution for busy retail and business environments and small shops
- Improved energy efficiency: up to A+ energy labels
- Robust design and body quality
- Easy installation and maintenance thanks to improved body structure
- Exclusively offered for pair applications
- Air can be discharged in any of 4 directions
- Air filter removes airborne dust particles to ensure a steady supply of clean air
- Control several indoor units at the same time via the Siesta Sky Air group control (optional)
- Standard drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required

ACQ100-140D

AZQS100-140B(8)V1/BY1

ARCWLA

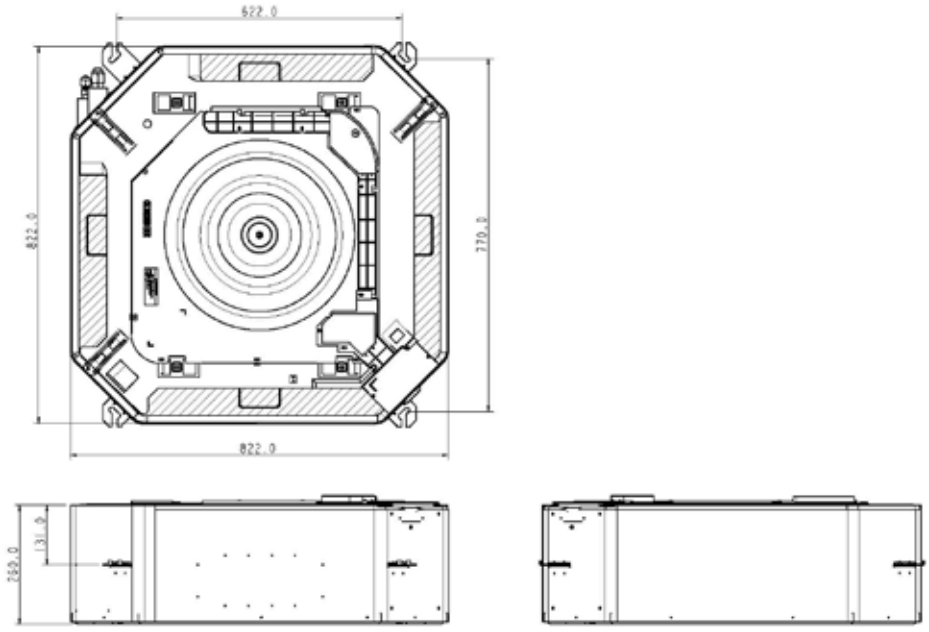
Efficiency data				**ACQ + AZQS**	**71D + 71BV1**	**100D + 100B8V1**	**125D + 125B8V1**	**140D + 140B8V1**	**100D + 100BY1**	**125D + 125BY1**	**140D + 140BY1**
Cooling capacity	Nom.			kW	6.8	9.5	12.1	13.0	9.5	12.1	13.0
Heating capacity	Nom.			kW	7.50	10.80	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.05	2.96	3.90	4.05	2.96	3.90	4.05
	Heating	Nom.		kW	2.08	2.99	3.74	4.29	2.99	3.74	4.29
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+	A	-		A	-	
		Pdesign		kW	6.80	9.50	-		9.50	-	
		SEER			5.70	5.50	-		5.50	-	
		Annual energy consumption		kWh	418	605	-		605	-	
	Heating (Average climate)	Energy label			A		-		A	-	
		Pdesign		kW	6.33	7.60	-		7.60	-	
		SCOP			4.00	3.85	-		3.85	-	
		Annual energy consumption		kWh	2,216	2,764	-		2,764	-	
Nominal efficiency	EER				3.31	3.21	3.10	3.21		3.10	3.21
	COP				3.61						
	Annual energy consumption			kWh	1,025	1,480	1,952	2,025	1,480	1,952	2,025
	Energy label	Cooling/Heating			A/A		B/A	-	A/A	B/A	-

Indoor unit				**ACQ**	**71D**	**100D**	**125D**	**140D**	**100D**	**125D**	**140D**
Dimensions	Unit	HeightxWidthxDepth		mm	265x820x820	300x820x820					
Weight	Unit			kg	31	39					
Decoration panel	Colour				White						
	Dimensions	HeightxWidthxDepth		mm	82x990x990						
	Weight			kg	4						
Air filter	Type				Removable / washable						
Fan - Air flow rate	Cooling	High/Nom./Low/Silent operation		m^3/min	24.4/20.5/17.6/15.0	29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1		29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1	
	Heating	High/Nom./Low/Silent operation		m^3/min	24.4/20.5/17.6/15.0	29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1		29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1	
Sound power level	Cooling			dBA	54	56	60		56	60	
	Heating			dBA	54	56	60		56	60	
Sound pressure level	Cooling	High/Nom./Low/Silent operation		dBA	41/38/35/32	44/41/38/36	47/44/43/41		44/41/38/36	47/44/43/41	
	Heating	High/Nom./Low/Silent operation		dBA	41/38/35/32	44/41/38/36	47/44/43/41		44/41/38/36	47/44/43/41	
Control systems	Infrared remote control				ARCWLA						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240						

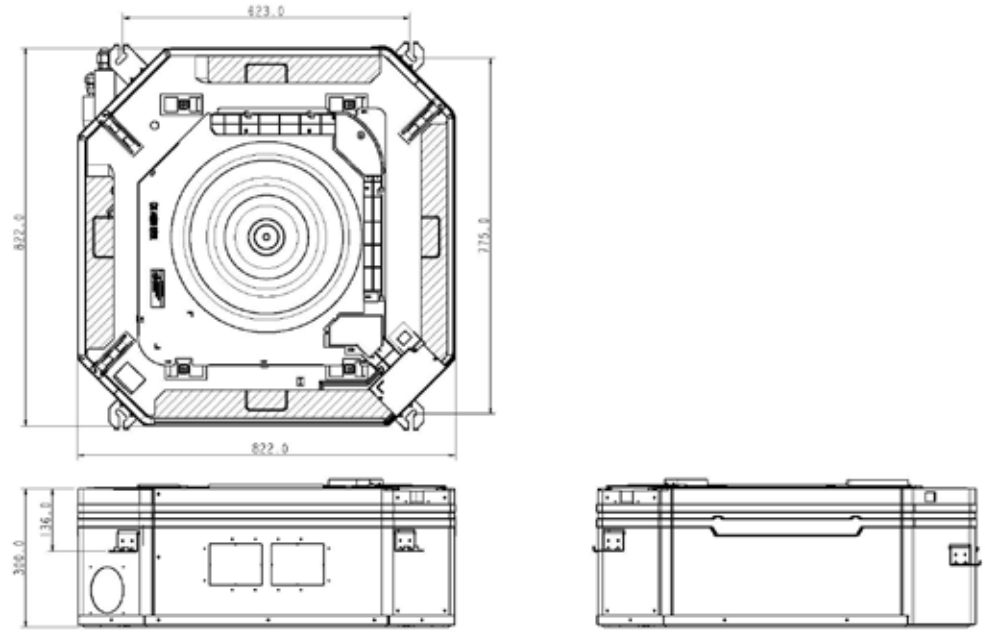
Outdoor unit				**AZQS**	**71BV1**	**100B8V1**	**125B8V1**	**140B8V1**	**100BY1**	**125BY1**	**140BY1**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72.8	74.3	94.9	82		101
Sound power level	Cooling			dBA	64	70	71	70		71	70
Sound pressure level	Cooling	Nom.		dBA	48	53	54	53		54	53
	Heating	Nom.		dBA	50	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	43	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	30.0						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

ACQ71D



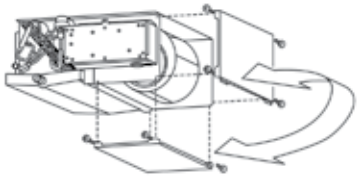
ACQ100/125/140D



Small concealed ceiling unit

Designed for hotel applications

› Compact unit (230mm high & 652mm deep), can easily be mounted in narrow ceiling voids
› Discretely concealed in the ceiling: only the suction and discharge grilles are visible
› Whisper quiet operation: down to 28dBA sound pressure level
› Flexible installation, as the air suction direction can be altered from rear to bottom suction



› For easy mounting, the drain pan can be located to the left or right of the unit

FDBQ-B

BRC1E52A/B

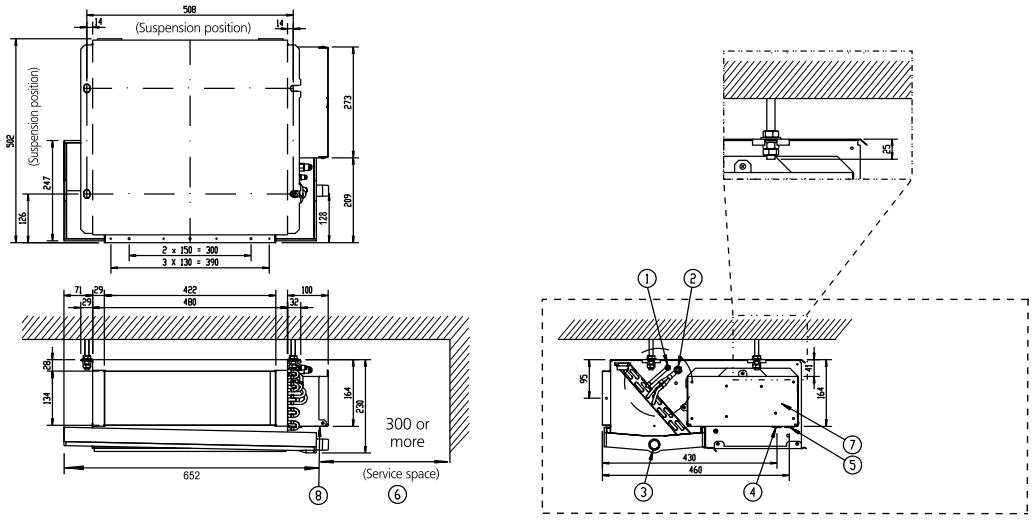
Indoor unit					FDBQ	25B
Dimensions	Unit	HeightxWidthxDepth		mm		230x652x502
Weight	Unit			kg		17.0
Air filter	Type					Resin net with mold resistance
Fan - Air flow rate	Cooling	High/Low		m^3/min		6.50/5.20
	Heating	High/Low		m^3/min		6.95/5.20
Sound power level	Cooling			dBA		55
	Heating			dBA		55
Sound pressure level	Cooling	High/Low		dBA		35.0/28.0
	Heating	High/Low		dBA		35.0/29.0
Control systems	Wired remote control					BRC1D52 / BRC1E52A/B
Power supply	Phase / Frequency / Voltage			Hz / V		1~ / 50 / 230

Outdoor unit					5MXS90E
Dimensions	Unit	HeightxWidthxDepth		mm	only available in multi model application
Weight	Unit			kg	
Sound power level	Cooling			dBA	
Sound pressure level	Cooling	Nom.		dBA	
	Heating	Nom.		dBA	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	
	Heating	Ambient	Min.~Max.	°CWB	
Refrigerant	Type/Charge kg-TCO^2Eq/GWP				
Piping connections	Liquid	OD		mm	
	Gas	OD		mm	
	Piping length	OU - IU	Max.	m	
	Additional refrigerant charge			kg/m	
	Level difference	IU - OU	Max.	m	
		IU - IU	Max.	m	
Power supply	Phase / Frequency / Voltage			Hz / V	
Current - 50Hz	Maximum fuse amps (MFA)			A	

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FDBQ25B

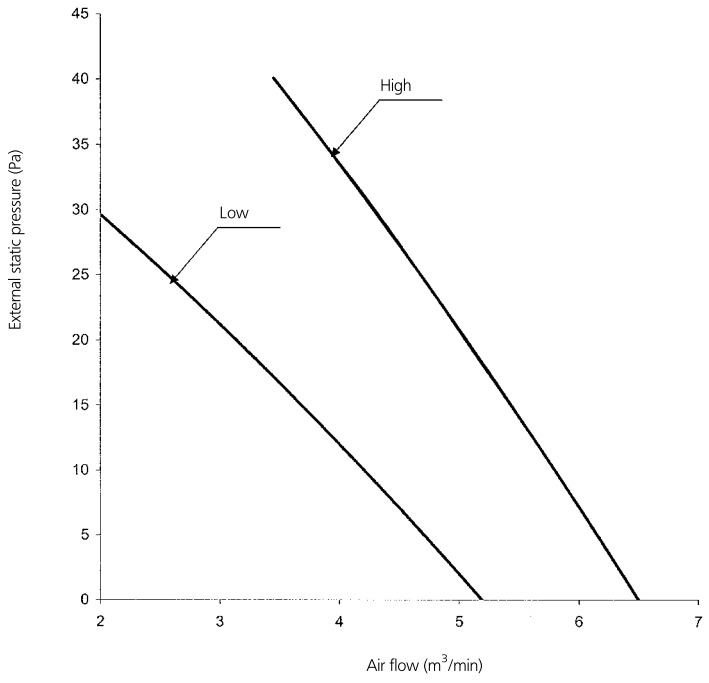
unit (mm)



1 Liquid pipe connection (ϕ6.35)
2 Gas pipe connection (ϕ9.52)
3 Drain hole (OD = ϕ27.2 ID = ϕ21.6)
4 Entry for wiring on/off-switch, remote controller and electrical heater
5 Entry for wiring power supply
6 Service space
7 Switch box
8 Name plate

3TW20814-1C

FDBQ25B



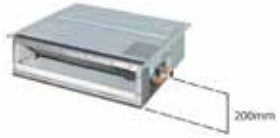
Note: The wired remote control can be used to switch between 'high' and 'low'

4TW25858-1

Concealed ceiling unit

Compact concealed ceiling unit, with a height of only 200mm

› Compact dimensions, can easily be mounted in a ceiling void of only 240mm



› Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths
› Discretely concealed in the ceiling: only the suction and discharge grilles are visible
› Low energy consumption thanks to DC fan motor
› Optimised heating solution for your home

FDXS25-35F

RXS25-35L3

BRC1E52A-B, BRC4C65

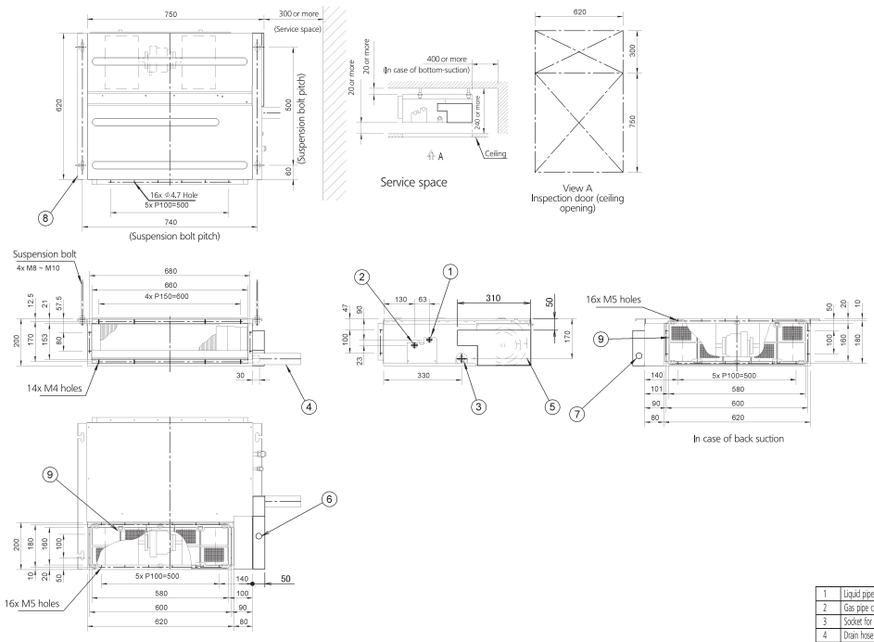
Efficiency data			FDXS + RXS	25F + 25L3	35F + 35L3	50F9 + 50L	60F + 60L
Cooling capacity	Min./Nom./Max.		kW	1.3/2.4/3.0	1.4/3.4/3.8	1.7/5.0/5.3	1.7/6.0/6.5
Heating capacity	Min./Nom./Max.		kW	1.3/3.2/4.5	1.4/4.0/5.0	1.7/5.8/6.0	1.7/7.0/8.0
Power input	Cooling	Nom.	kW	0.641	1.148	1.650	2.060
	Heating	Nom.	kW	0.800	1.150	1.870	2.180
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+	A	A+	A
		Pdesign	kW	2.40	3.40	5.00	6.00
		SEER		5.63	5.21	5.72	5.51
		Annual energy consumption	kWh	149	228	306	381
	Heating (Average climate)	Energy label		A+	A		
		Pdesign	kW	2.60	2.90	4.00	4.60
		SCOP		4.24	3.88	3.93	3.80
		Annual energy consumption	kWh	858	1,047	1,425	1,693
Nominal efficiency	EER			3.74	2.96	3.03	2.91
	COP			4.00	3.48	3.10	3.21
	Annual energy consumption		kWh	321	574	825	1,030
	Energy label	Cooling/Heating		A/A	B/A	B/D	C/C

Indoor unit			FDXS	25F	35F	50F9	60F
Dimensions	Unit	HeightxWidthxDepth	mm	200x750x620		200x1,150x620	
Weight	Unit		kg	21		30	
Air filter	Type			Removable / washable / mildew proof			
Fan - Air flow rate	Cooling	High/Nom./Low	m^3/min	8.7/8.7/7.3		12.0/11.0/10.0	16.0/16.0/13.5
	Heating	High/Nom./Low	m^3/min	8.7/8.0/7.3		16.0/14.8/13.5	
Fan - External static pressure	Nom.		Pa	30		40	
Sound power level	Cooling		dBA	53		55	56
	Heating		dBA	53		55	56
Sound pressure level	Cooling	High/Nom./Low	dBA	35/33/27		38/36/30	
	Heating	High/Nom./Low	dBA	35/33/27		38/36/30	
Control systems	Infrared remote control			BRC4C65			
	Wired remote control			BRC1E52A/B			
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 230		1~ / 50 / 220-240	

Outdoor unit				RXS	25L3	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x825x300	
Weight	Unit			kg	34		47	48
Sound power level	Cooling			dBA	59	61	62	
	Heating			dBA	59	61	62	
Sound pressure level	Cooling	High/Low/Silent operation		dBA	46/-/43	48/-/44	48/44	49/46/-
	Heating	High/Low/Silent operation		dBA	47/-/44	48/-/45	48/45	49/46/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/1.0/2.1/2,087.5	R-410A/1.2/2.5/2,087.5	R-410A/1.7/3.5/2,087.5	R-410A/1.5/3.1/2,087.5
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.5		12.7	
	Piping length	OU - IU	Max.	m	20		30	
		System	Chargeless	m	10		-	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	16		20	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FDXS25-35F

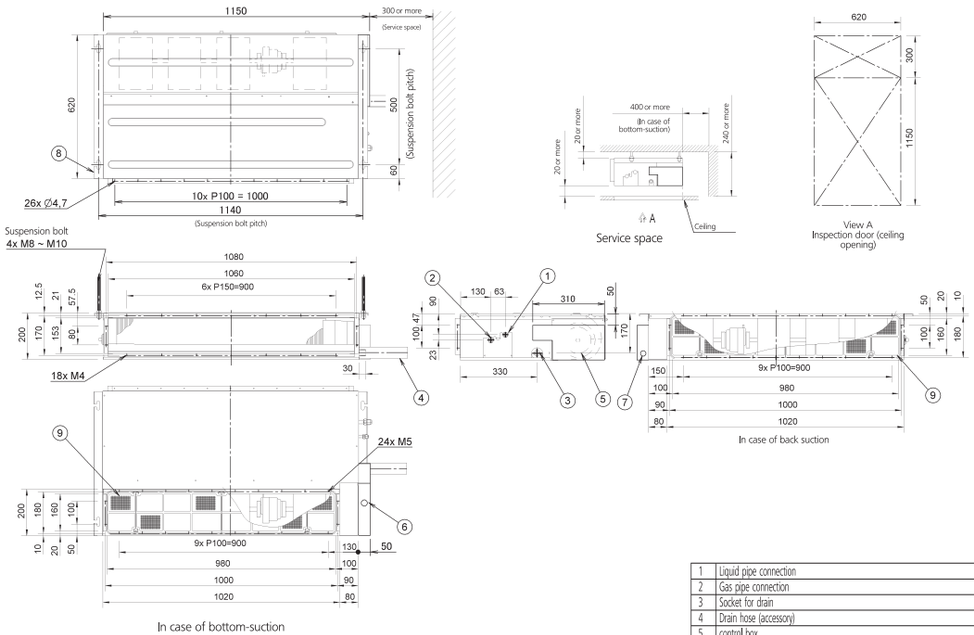


1	Liquid pipe connection	Ø 6.4 Flare connection
2	Gas pipe connection	Ø 9.5 Flare connection
3	Socket for drain	VP 20 (OD: Ø 26, ID: Ø 20)
4	Drain hose (accessory)	ID: Ø 25 (Outlet)
5	control box	
6	Transmission wring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

Note:
1. In case of back-suction, mount chamber cover to bottom side of the unit.
   In case of bottom-suction, mount chamber cover to back side of the unit.
2. Location of unit's name plate: control box cover.
3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique.) It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081343

FDXS50F9



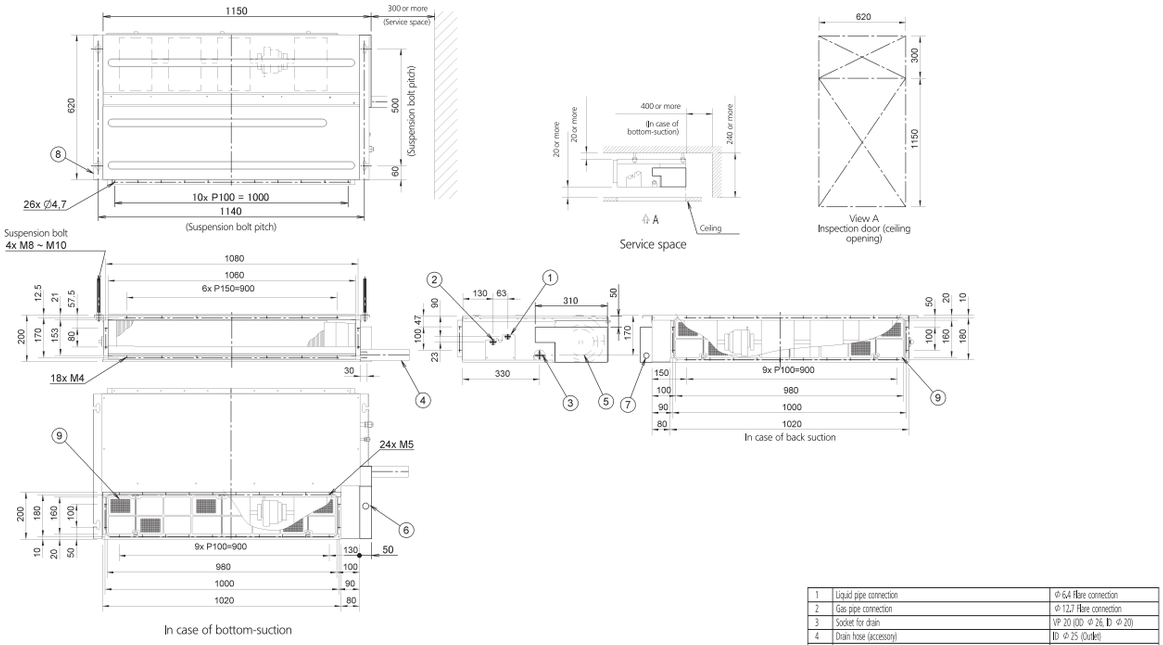
1	Liquid pipe connection	Ø 6,4 Flare connection
2	Gas pipe connection	Ø 12,7 Flare connection
3	Socket for drain	VP 20 (OD: Ø 26, ID: Ø 20)
4	Drain hose (accessory)	ID: Ø 25 (Outlet)
5	controll box	
6	Transmission wring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

Note:
1. In case of back-suction, mount chamber cover to bottom side of the unit.
   In case of bottom-suction, mount chamber cover to back side of the unit.
2. Location of unit's name plate: control box cover.
3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D085963

Detailed technical drawings

FDXS60F

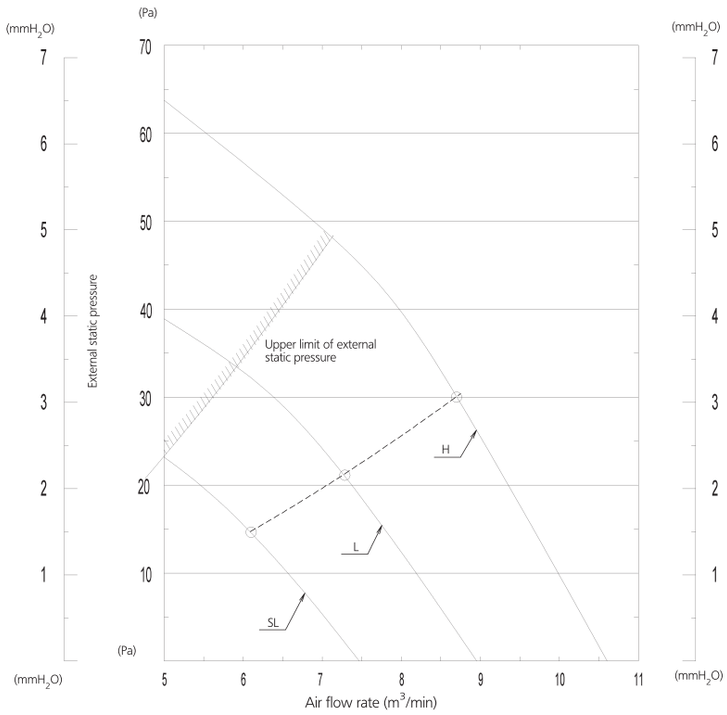


1	Liquid pipe connection	Ø 6,4 Flare connection
2	Gas pipe connection	Ø 12,7 Flare connection
3	Socket for drain	VP 20 (OD: Ø 26, ID: Ø 20)
4	Drain hose (accessory)	ID: Ø 25 (Outlet)
5	control box	
6	Transmission wiring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

Note:
1. In case of back-suction, mount chamber cover to bottom side of the unit.
   In case of bottom-suction, mount chamber cover to back side of the unit.
2. Location of unit's name plate: control box cover.
3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique.) It can not be equipped with air filter (accessory) when connecting duct to suction side.

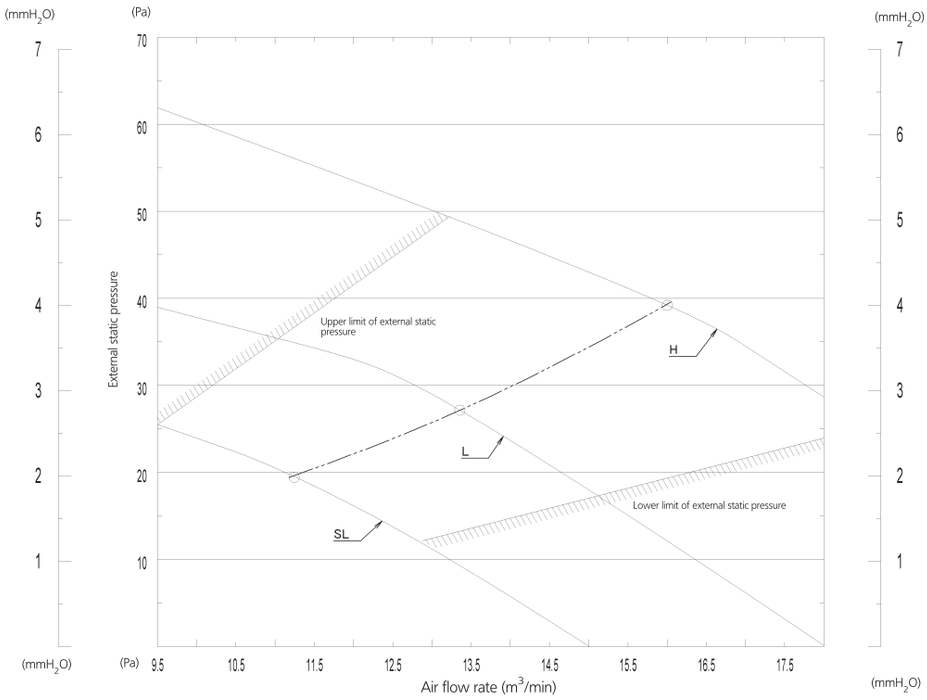
3D081360

FDXS25-35F



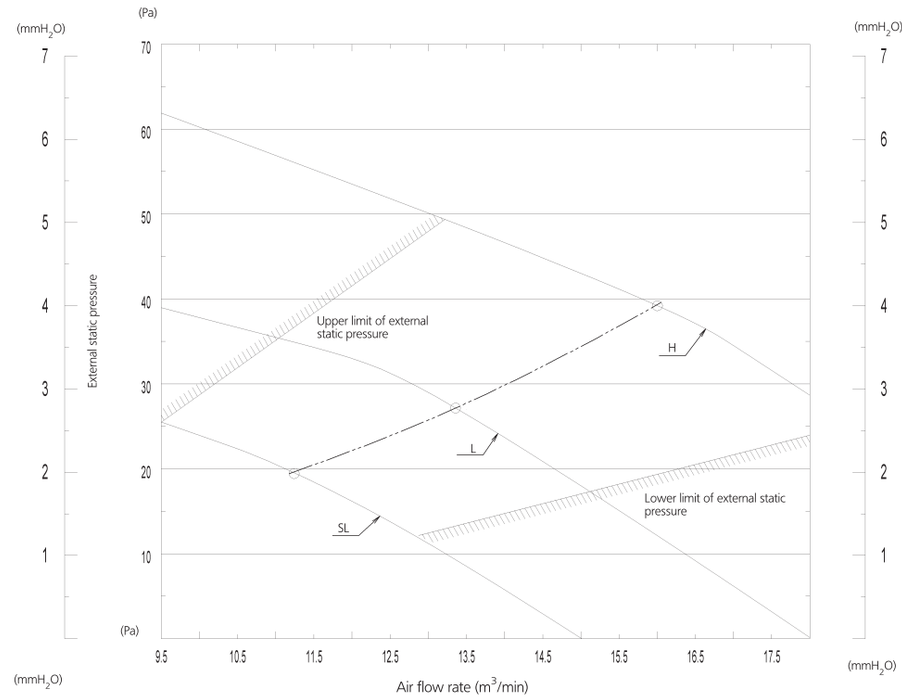
3D081327

FDXS50F9



3D085960

FDXS60F



3D081329

Seasonal Classic

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

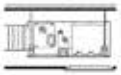
- Top efficiency in the market! Energy label up to A++
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Lowest sound levels in the market: down to 25dBA!
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.

FBQ-D

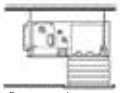
RZQSG100-125L3/9V1/L(8)Y1

BRC1E52A-B, BRC4C65

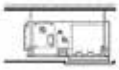
- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles
- Standard built-in drain pump with 625mm lift increases increases flexibility and installation speed



For free use into a false ceiling



For connecting onto a suction canvas (not supplied by Daikin)



For direct connection to Daikin panel (via EKBYBSD kit)

Efficiency data				**FBQ + RZQSG**	**71D + 71L3V1**	**100D + 100L9V1**	**125D + 125L9V1**	**140D + 140L9V1**	**100D + 100L8Y1**	**125D + 125L8Y1**	**140D + 140LY1**
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.50	10.80	13.50	15.50	10.80	13.50	15.50
Power input	Cooling	Nom.		kW	1.98	2.84	3.72	4.38	2.84	3.72	4.38
	Heating	Nom.		kW	1.91	2.94	3.72	4.56	2.94	3.72	4.56
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+		A	-	A+	A	-
		Pdesign		kW	6.80	9.50	12.00	-	9.50	12.00	-
		SEER			5.84	5.61	5.47	-	5.61	5.47	-
		Annual energy consumption		kWh	408	593	768	-	593	768	-
	Heating (Average climate)	Energy label			A+			-	A+		-
		Pdesign		kW	6.00	7.60		-	7.60		-
		SCOP			4.01	4.15	4.01	-	4.15	4.01	-
		Annual energy consumption		kWh	2,095	2,564	2,653	-	2,564	2,653	-
Nominal efficiency	EER				3.43	3.35	3.23	3.06	3.35	3.23	3.06
	COP				3.92	3.67	3.63	3.40	3.67	3.63	3.40
	Annual energy consumption			kWh	991	1,418	1,858	-	1,418	1,858	-
	Energy label	Cooling/Heating			A/A			-	A/A		-

Indoor unit				**FBQ**	**71D**	**100D**	**125D**	**140D**	**100D**	**125D**	**140D**
Dimensions	Unit	HeightxWidthxDepth		mm	245x1,000x800	245x1,400x800					
Weight	Unit			kg	35	46					
Air filter	Type				Resin net with mold resistance						
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18/15/12.5	29/26/23	34/29/23.5		29/26/23	34/29/23.5	
	Heating	High/Nom./Low		m^3/min	18/15/12.5	29/26/23	34/29/23.5		29/26/23	34/29/23.5	
Fan - External static pressure	High/Nom.			Pa	150/30	150/40	150/50		150/40	150/50	
Sound power level	Cooling			dBA	56	58	62		58	62	
Sound pressure level	Cooling	High/Nom./Low		dBA	30/28/25	34/32/30	37/35/32		34/32/30	37/35/32	
	Heating	High/Nom./Low		dBA	31/28/25	36/33/30	38/35/32		36/33/30	38/35/32	
Control systems	Infrared remote control				BRC4C65						
	Wired remote control				BRC1E52A/B / BRC1D52						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240						

Outdoor unit				**RZQSG**	**71L3V1**	**100L9V1**	**125L9V1**	**140L9V1**	**100L8Y1**	**125L8Y1**	**140LY1**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72	74	95	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Seasonal Smart

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

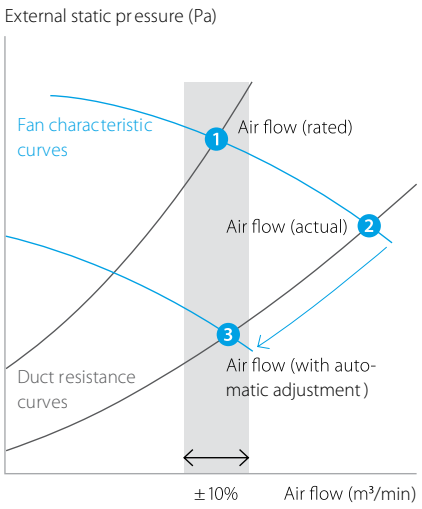
Optimised supply air volume

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance → the real air flow may be much lower or higher than nominal , leading to a lack of capacity or uncomfortable air temperature

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically(10 or more fan curves are available on every model), making installation much faster



Efficiency data				FBQ + RZQG	71D + 71L9V1	100D + 100L9V1	125D + 125L9V1	140D + 140L9V1	71D + 71L8Y1	100D + 100L8Y1	125D + 125L8Y1	140D + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.50	10.80	13.50	15.50	7.50	10.80	13.50	15.50
Power input	Cooling	Nom.		kW	1.89	2.49	3.63	4.00	1.89	2.49	3.63	4.00
	Heating	Nom.		kW	1.87	2.45	3.46	4.31	1.87	2.45	3.46	4.31
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+	A++	-	A++	A+	A++	-
		Pdesign		kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
		SEER			6.16	5.87	6.11	-	6.16	5.87	6.11	-
		Annual energy consumption		kWh	386	566	687	-	386	566	687	-
	Heating (Average climate)	Energy label			A+	A++	A+	-	A+	A++	A+	-
		Pdesign		kW	6.00	11.30	12.70	-	6.00	11.30	12.70	-
		SCOP			4.31	4.78	4.28	-	4.31	4.78	4.28	-
		Annual energy consumption		kWh	1,949	3,310	4,154	-	1,949	3,310	4,154	-
Nominal efficiency	EER				3.60	3.81	3.31	3.35	3.60	3.81	3.31	3.35
	COP				4.01	4.41	3.90	3.60	4.01	4.41	3.90	3.60
	Annual energy consumption			kWh	944	1,247	1,813	-	944	1,247	1,813	-
	Energy label	Cooling/Heating			A/A			-	A/A	A/A		-
Indoor unit				**FBQ**	**71D**	**100D**	**125D**	**140D**	**71D**	**100D**	**125D**	**140D**
Dimensions	Unit	HeightxWidthxDepth		mm	245x1,000x800	245x1,400x800			245x1,000x800	245x1,400x800		
Weight	Unit			kg	35	46			35	46		
Air filter	Type				Resin net with mold resistance							
Fan - Air flow rate	Cooling	High/Nom./Low		m³/min	18/15/12.5	29/26/23	34/29/23.5		18/15/12.5	29/26/23	34/29/23.5	
	Heating	High/Nom./Low		m³/min	18/15/12.5	29/26/23	34/29/23.5		18/15/12.5	29/26/23	34/29/23.5	
Fan - External static pressure	High/Nom.			Pa	150/30	150/40	150/50		150/30	150/40	150/50	
Sound power level	Cooling			dBA	56	58	62		56	58	62	
Sound pressure level	Cooling	High/Nom./Low		dBA	30/28/25	34/32/30	37/35/32		30/28/25	34/32/30	37/35/32	
	Heating	High/Nom./Low		dBA	31/28/25	36/33/30	38/35/32		31/28/25	36/33/30	38/35/32	
Control systems	Infrared remote control				BRC4C65							
	Wired remote control				BRC1E52A/B / BRC1D528							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240							
Outdoor unit				**RZQG**	**71L9V1**	**100L9V1**	**125L9V1**	**140L9V1**	**71L8Y1**	**100L8Y1**	**125L8Y1**	**140LY1**
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	69	95			80	101		
Sound power level	Cooling			dBA	64	66	67	69	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52	48	50	51	52
	Heating	Nom.		dBA	50	52	53		50	52	53	
	Night quiet mode	Level 1		dBA	43	45			43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50							
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5							
Refrigerant	Type/Charge kg-TCO²Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5			R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		
Piping connections	Liquid	OD		mm	9.52							
	Gas	OD		mm	15.9							
	Piping length	OU - IU	Max.	m	50	75			50	75		
		System	Equivalent	m	70	90			70	90		
			Chargeless	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
	Level difference	IU - OU	Max.	m	30.0							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			20	32		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

Combination with split outdoor units is ideal for small retail, offices or residential applications

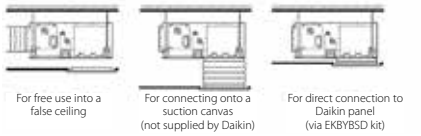
- Top efficiency in the market! Energy label up to A++
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Lowest sound levels in the market: down to 25dBA!
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles

FBQ-D

RXS35L3

BRC1E52A-B, BRC4C65

- Standard built-in drain pump with 625mm lift increases increases flexibility and installation speed



For free use into a false ceiling

For connecting onto a suction canvas (not supplied by Daikin)

For direct connection to Daikin panel (via EKBYBSD kit)

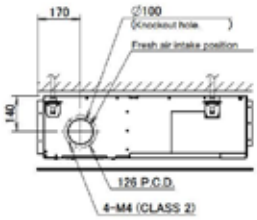
Efficiency data				**FBQ + RXS**	**35D + 35L3**	**50D + 50L**	**60D + 60L**
Cooling capacity	Nom.			kW	3.4	5.0	5.7
Heating capacity	Nom.			kW	4.00	5.50	7.00
Power input	Cooling	Nom.		kW	0.85	1.42	1.65
	Heating	Nom.		kW	1.00	1.44	1.89
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A+
		Pdesign		kW	3.40	5.00	5.70
		SEER			6.17	6.21	5.86
		Annual energy consumption		kWh	193	282	340
	Heating (Average climate)	Energy label			A+		
		Pdesign		kW	2.90	4.40	4.60
		SCOP			4.07	4.06	4.01
		Annual energy consumption		kWh	998	1,517	1,606
Nominal efficiency	EER				3.99	3.52	3.45
	COP				4.02	3.83	3.71
	Annual energy consumption			kWh	426	710	826
	Energy label	Cooling/Heating			A/A		

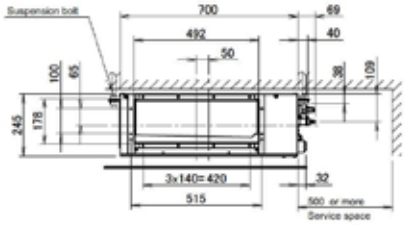
Indoor unit				**FBQ**	**35D**	**50D**	**60D**
Dimensions	Unit	HeightxWidthxDepth		mm	245x700x800		245x1,000x800
Weight	Unit			kg	28		35
Air filter	Type				Resin net with mold resistance		
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	15/12.5/10.5		18/15/12.5
	Heating	High/Nom./Low		m^3/min	15/12.5/10.5		18/15/12.5
Fan - External static pressure	High/Nom.			Pa	150/30		
Sound power level	Cooling			dBA	60		56
Sound pressure level	Cooling	High/Nom./Low		dBA	35/32/29		30/28/25
	Heating	High/Nom./Low		dBA	37/34/29		31/28/25
Control systems	Infrared remote control				BRC4C65		
	Wired remote control				BRC1E52A/B / BRC1D52		
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		

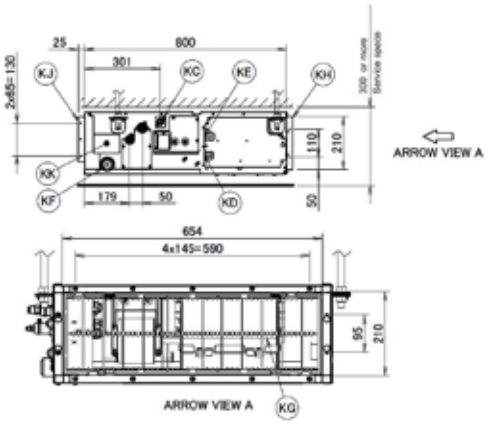
Outdoor unit				**RXS**	**35L3**	**50L**	**60L**
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285	735x825x300	
Weight	Unit			kg	34	47	48
Sound power level	Cooling			dBA	61	62	
	Heating			dBA	61	62	
Sound pressure level	Cooling	High/Low/Silent operation		dBA	48/-/44	48/44/-	49/46/-
	Heating	High/Low/Silent operation		dBA	48/-/45	48/45/-	49/46/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/1.2/2.5/2,087.5	R-410A/1.7/3.5/2,087.5	R-410A/1.5/3.1/2,087.5
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.5	12.7	
	Piping length	OU - IU	Max.	m	20	30	
		System	Chargeless	m	10		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	16	20	

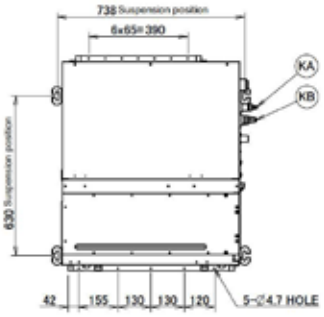
(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FBQ35D







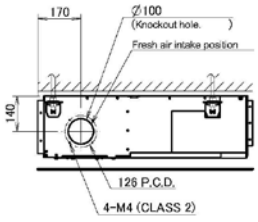


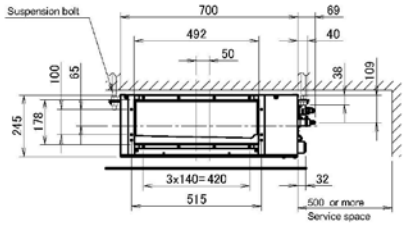
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø9.52 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

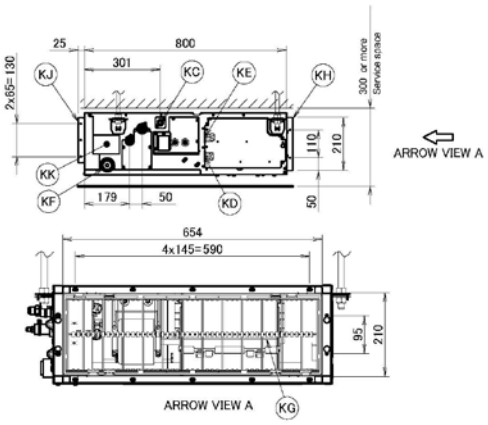
Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

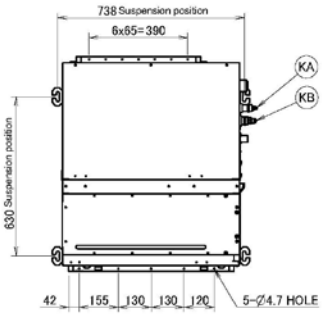
3D094988A

FBQ50D







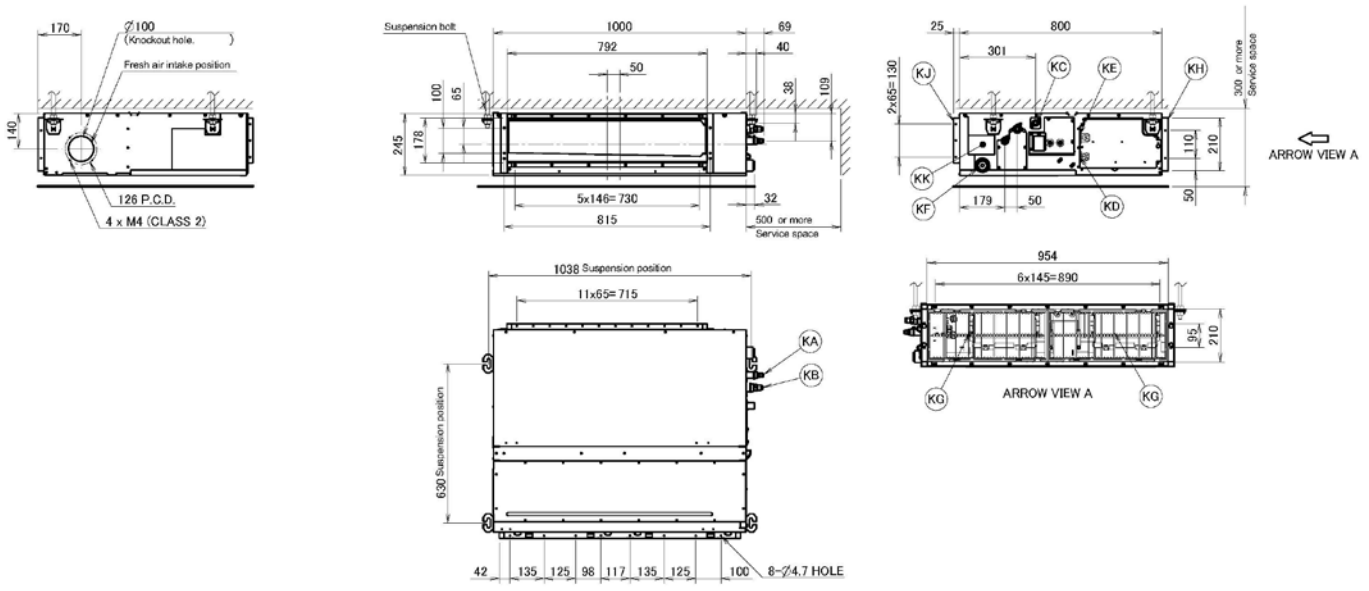


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094918A

FBQ60D

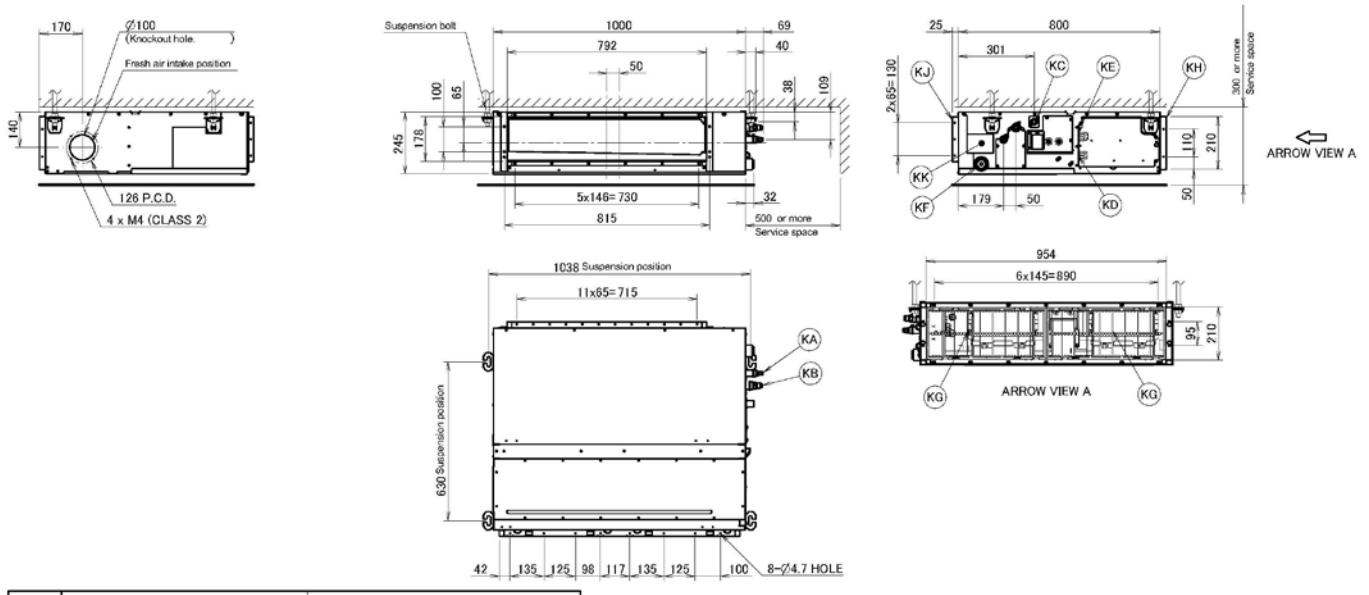


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094983A

FBQ71D

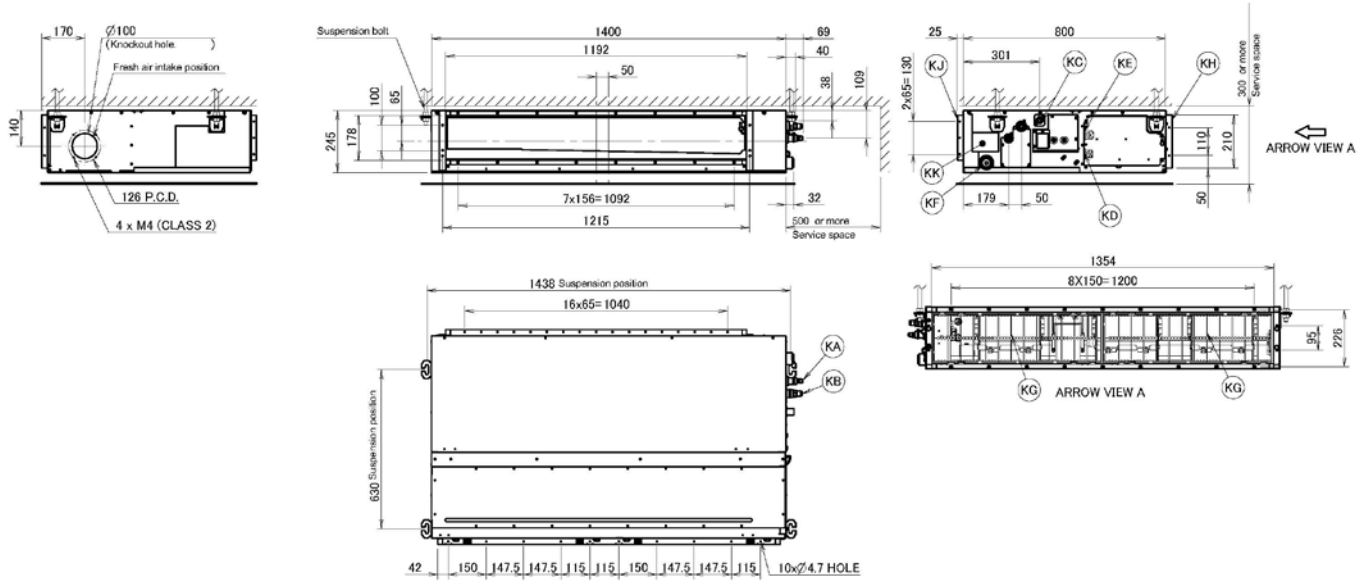


Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094915A

FBQ100-140D

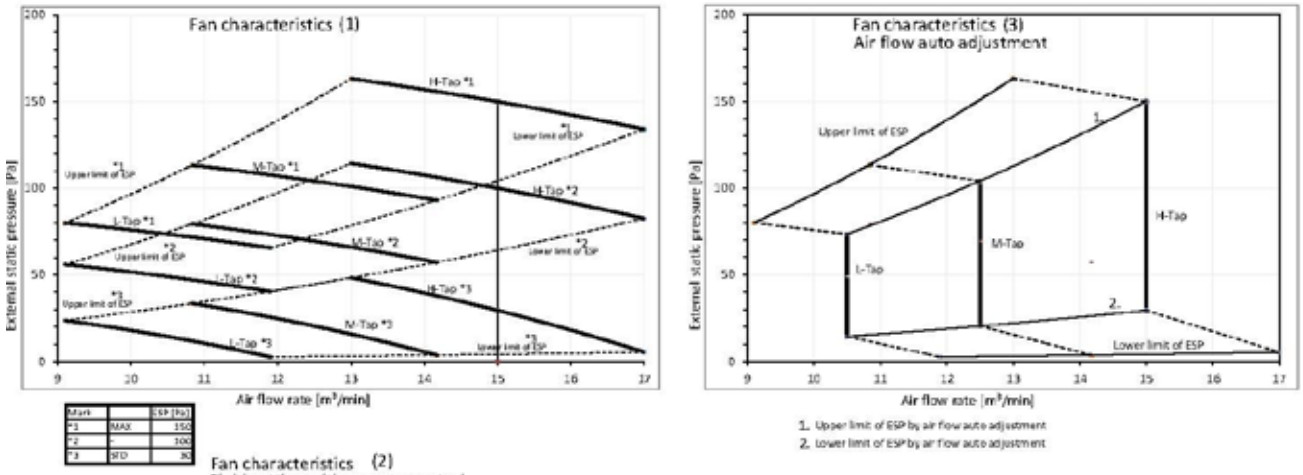


Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094914A

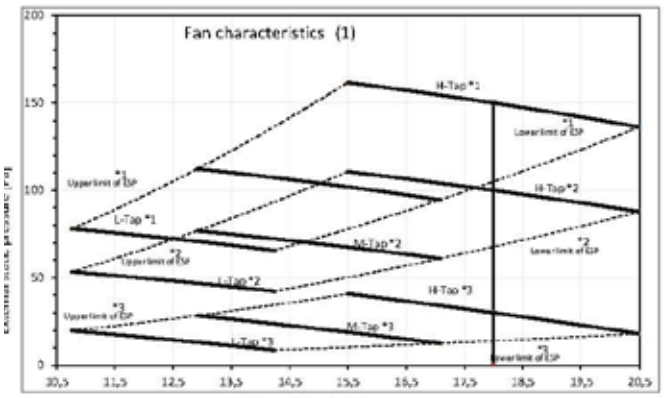
FBQ35-50D



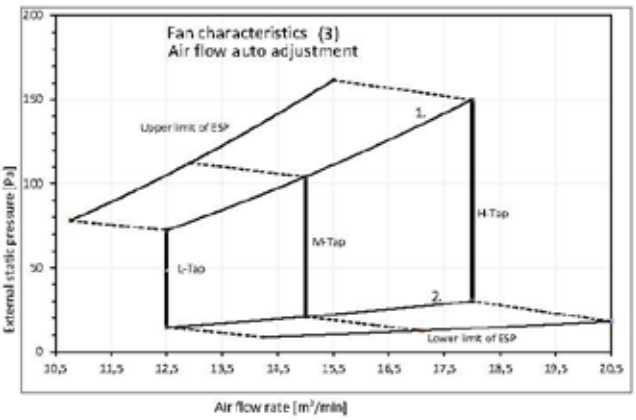
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095521A

FBQ60-71D

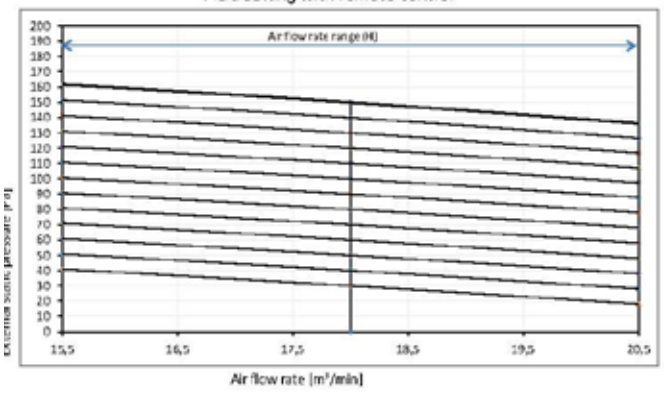


Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	30



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

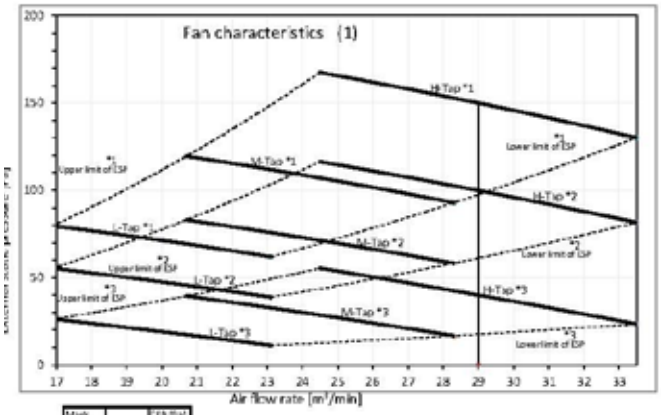
Fan characteristics (2)
Field setting with remote control



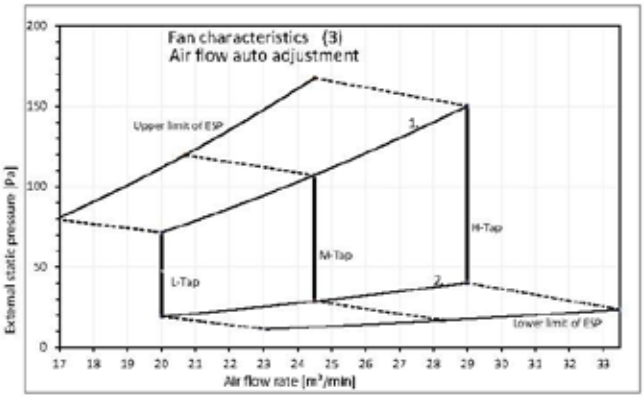
Notes
1. The fan characteristics shown are in "Fan only" mode.
2. ESP: External Static Pressure

3D095524A

FBQ100D

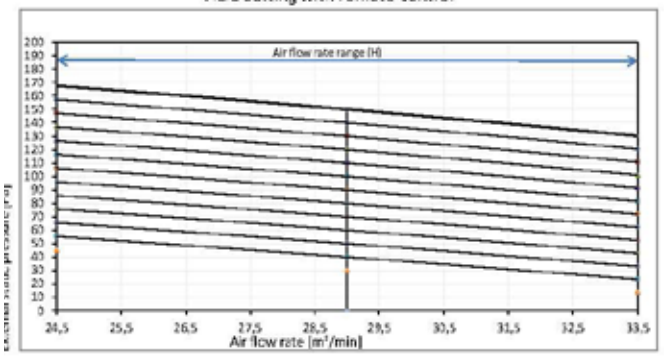


Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	40



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

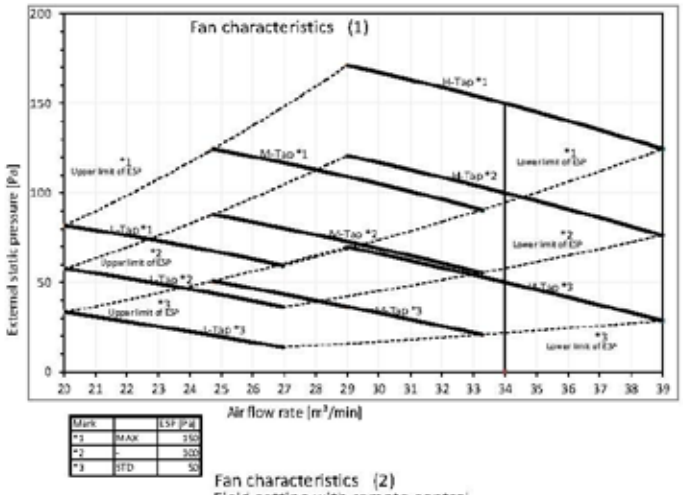
Fan characteristics (2)
Field setting with remote control



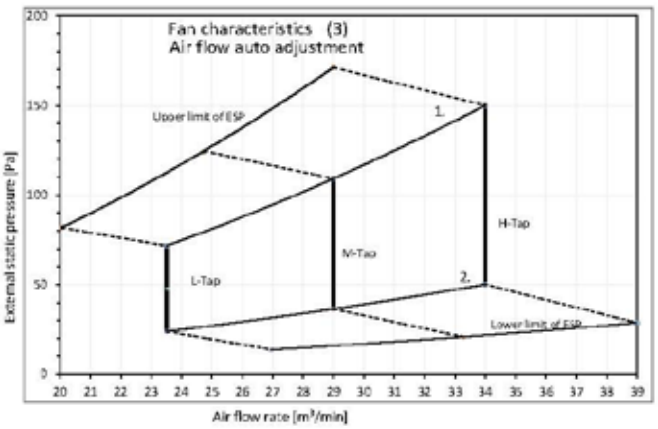
Notes
1. The fan characteristics shown are in "Fan only" mode.
2. ESP: External Static Pressure

3D095526A

FBQ125-140D

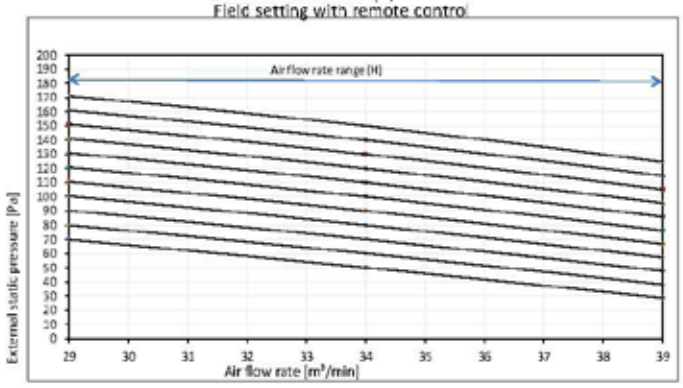


Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	50



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Fan characteristics (2)
Field setting with remote control



Notes
1. The fan characteristics shown are in "Fan only" mode.
2. ESP: External Static Pressure

3D095527A

Seasonal Classic

Seasonal Smart

Concealed ceiling unit with high ESP

ESP up to 200, ideal for large sized spaces

- Seasonal Smart ensures the best in quality, highest efficiency and performance. Seasonal Classic gives value for money.
- Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, whatever the length of duct, making installation easier and guaranteeing comfort. Moreover, the ESP can be changed via the wired remote control to optimize the supply air volume
- High external static pressure up to 200Pa facilitates using flexible ducts of varying lengths
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Reduced energy consumption thanks to specially developed DC fan motor
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Flexible installation, as the air suction direction can be altered from rear to bottom suction
- Standard built-in drain pump increases flexibility and installation speed
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.

FDQ125C

RZQSG125L3/9V1/L(8)Y1

BRC1E52A-B, BRC4C65

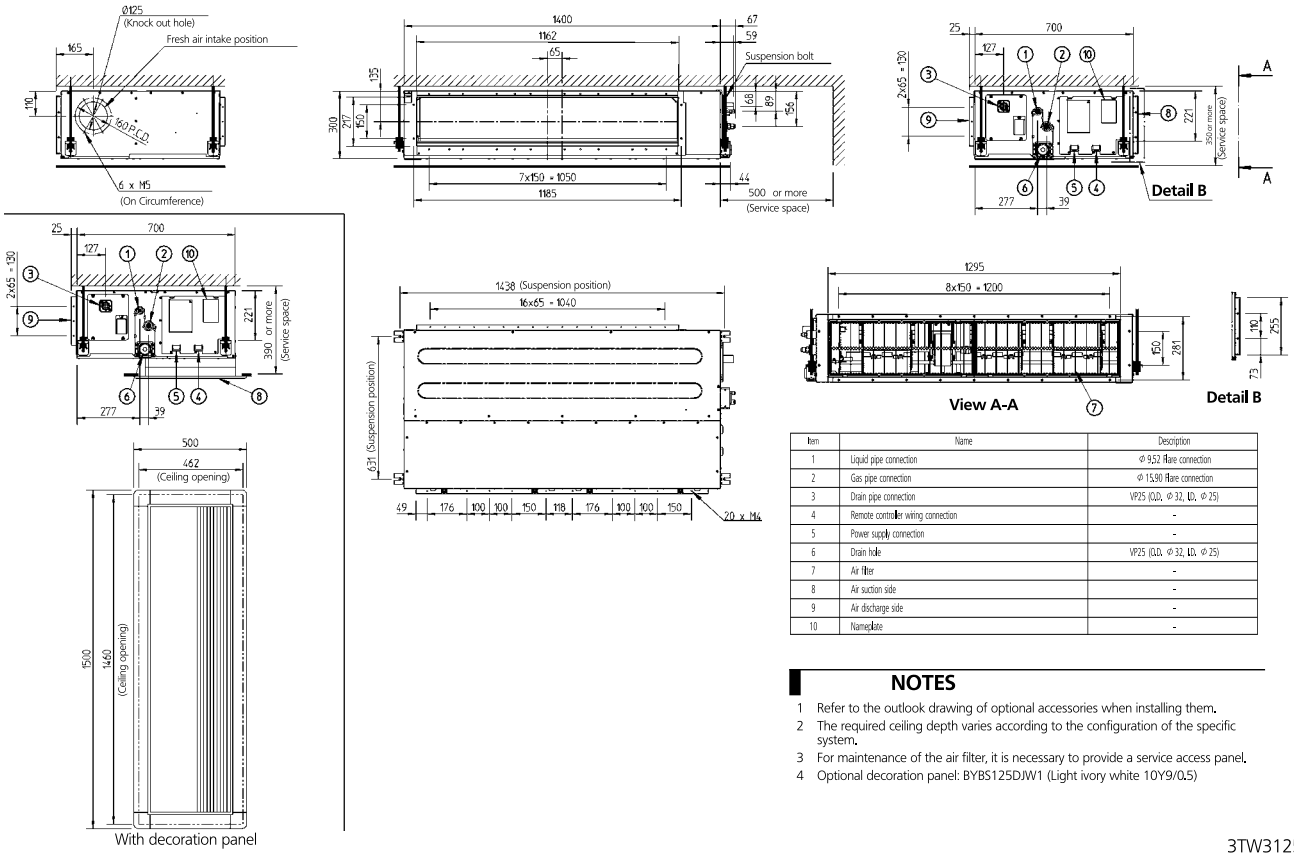
					Seasonal Smart		Seasonal Classic	
Efficiency data				**FDQ + RZQG/RZQSG**	**125C + 125L9V1**	**125C + 125L8Y1**	**125C + 125L9V1**	**125C + 125L8Y1**
Cooling capacity	Nom.			kW	12.0		12.0	
Heating capacity	Nom.			kW	13.5		13.5	
Power input	Cooling	Nom.		kW	3.20		3.74	
	Heating	Nom.		kW	3.53		3.85	
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+		A	
		Pdesign		kW	12.00		12.00	
		SEER			5.81		5.20	
		Annual energy consumption		kWh	723		808	
	Heating (Average climate)	Energy label			A+		A	
		Pdesign		kW	12.71		7.60	
		SCOP			4.21		3.90	
		Annual energy consumption		kWh	4,227		2,729	
Nominal efficiency	EER				3.75		3.21	
	COP				3.83		3.51	
	Annual energy consumption			kWh	1,600		1,870	
	Energy label	Cooling/Heating			A/A		A/B	

Indoor unit				**FDQ**	**125C**
Dimensions	Unit	HeightxWidthxDepth		mm	300x1,400x700
Required ceiling void >				mm	350
Weight	Unit			kg	45
Decoration panel	Model				BYBS125DJW1
	Colour				White (10Y9/0.5)
	Dimensions	HeightxWidthxDepth		mm	55x1,500x500
	Weight			kg	6.5
Air filter	Type				Resin net with mold resistance
Fan - Air flow rate	Cooling	High/Low		m^3/min	39/28
	Heating	High/Low		m^3/min	39/28
Fan - External static pressure	High/Nom.			Pa	200/50
Sound power level	Cooling			dBA	66
Sound pressure level	Cooling	High/Low		dBA	40/33
	Heating	High/Low		dBA	40/33
Control systems	Infrared remote control				BRC4C65
	Wired remote control				BRC1D52 / BRC1E52A/B
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220

Outdoor unit				**RZQG/RZQSG**	**125L9V1**	**125L8Y1**	**125L9V1**	**125L8Y1**
Dimensions	Unit	HeightxWidthxDepth		mm	1,430x940x320		990x940x320	
Weight	Unit			kg	95	101	74	82
Sound power level	Cooling			dBA	67		70	
Sound pressure level	Cooling	Nom.		dBA	51		54	
	Heating	Nom.		dBA	53		58	
	Night quiet mode	Level 1		dBA	45		49	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50		-15~46	
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5		-15~15.5	
Refrigerant	Type/Charge kg-TCO$_2$Eq/GWP				R-410A/4.0/8.4/2,087.5		R-410A/2.9/6.1/2,087.5	
Piping connections	Liquid	OD		mm	9.52			
	Gas	OD		mm	15.9			
	Piping length	OU - IU	Max.	m	75		50	
		System	Equivalent	m	90		70	
			Chargeless	m	30			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30.0			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	3N~ / 50 / 380-415	1~ / 50 / 220-240	3N~ / 50 / 380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	32			16

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FDQ125C



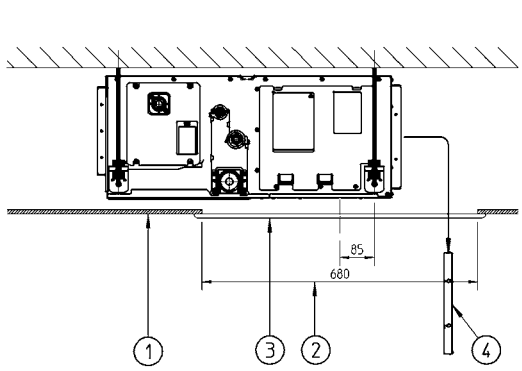
Item	Name	Description
1	Liquid pipe connection	Ø 9,52 flare connection
2	Gas pipe connection	Ø 15,90 flare connection
3	Drain pipe connection	VP25 (I.D. Ø 32, O.D. Ø 25)
4	Remote controller wiring connection	-
5	Power supply connection	-
6	Drain hole	VP25 (I.D. Ø 32, O.D. Ø 25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

NOTES

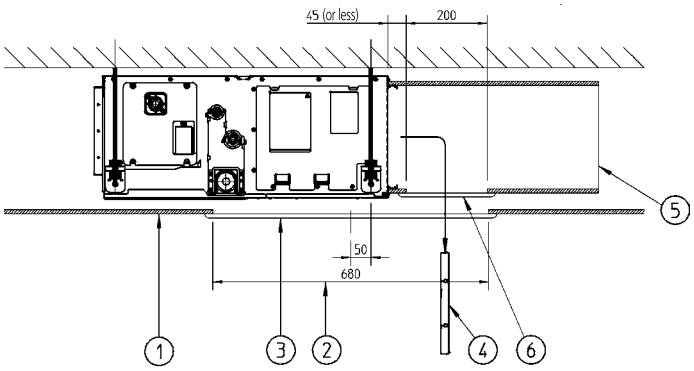
1 Refer to the outlook drawing of optional accessories when installing them.
2 The required ceiling depth varies according to the configuration of the specific system.
3 For maintenance of the air filter, it is necessary to provide a service access panel.
4 Optional decoration panel: BYBS125DJW1 (Light ivory white 10Y9/0.5)

3TW31254-1B

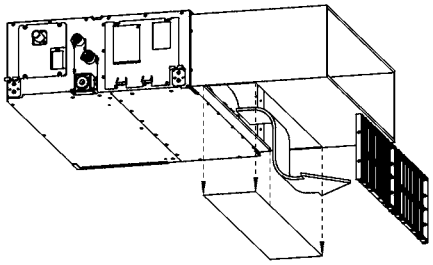
FDQ125C



Installation without air inlet duct



Installation with air inlet duct



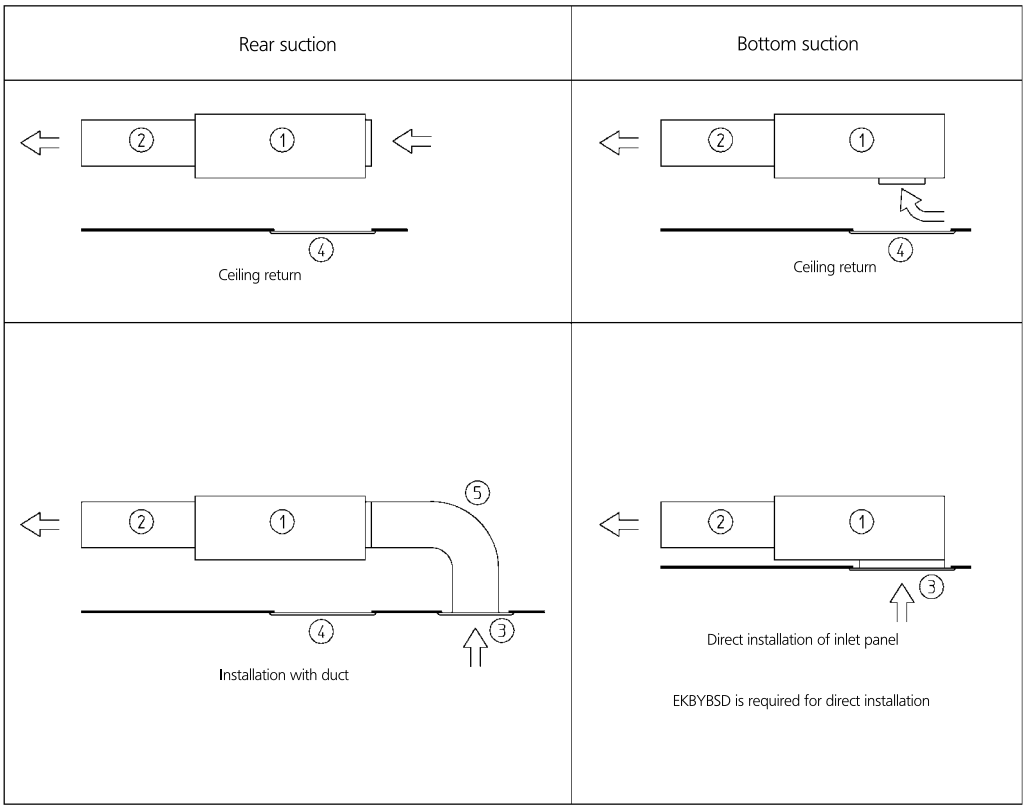
Number	Description
1	Suspended ceiling
2	Ceiling opening
3	Service access panel (optional)
4	Air filter
5	Air inlet duct
6	Duct service opening

NOTES

1 When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.
2 When installing the unit with a suction duct, a service opening must be provided in the duct.

3TW31184-4

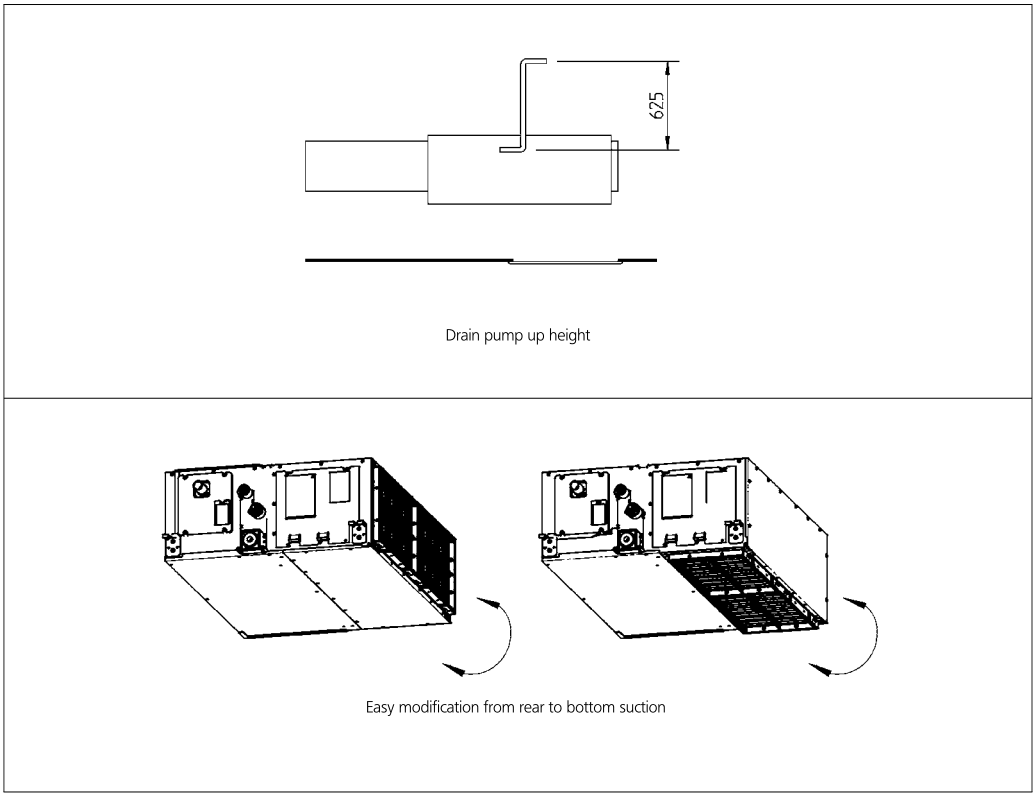
GNC



Wide variety of installation methods

Number	Description	
1	Main body	
2	Air outlet duct	Field supply
3	Inlet panel	Optional accessory
4	Access panel	Optional accessory
5	Air inlet duct	Field supply

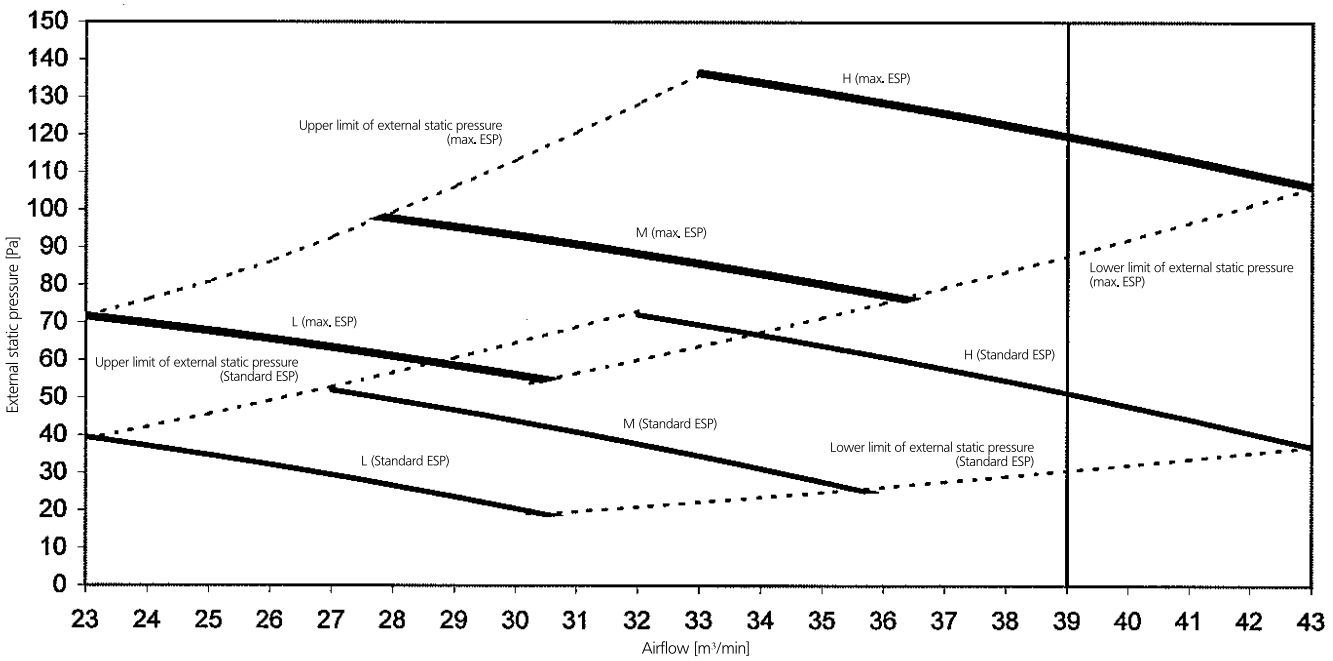
3TW31183-1A



3TW31183-1A

FDQ125C

Fan characteristics (1)



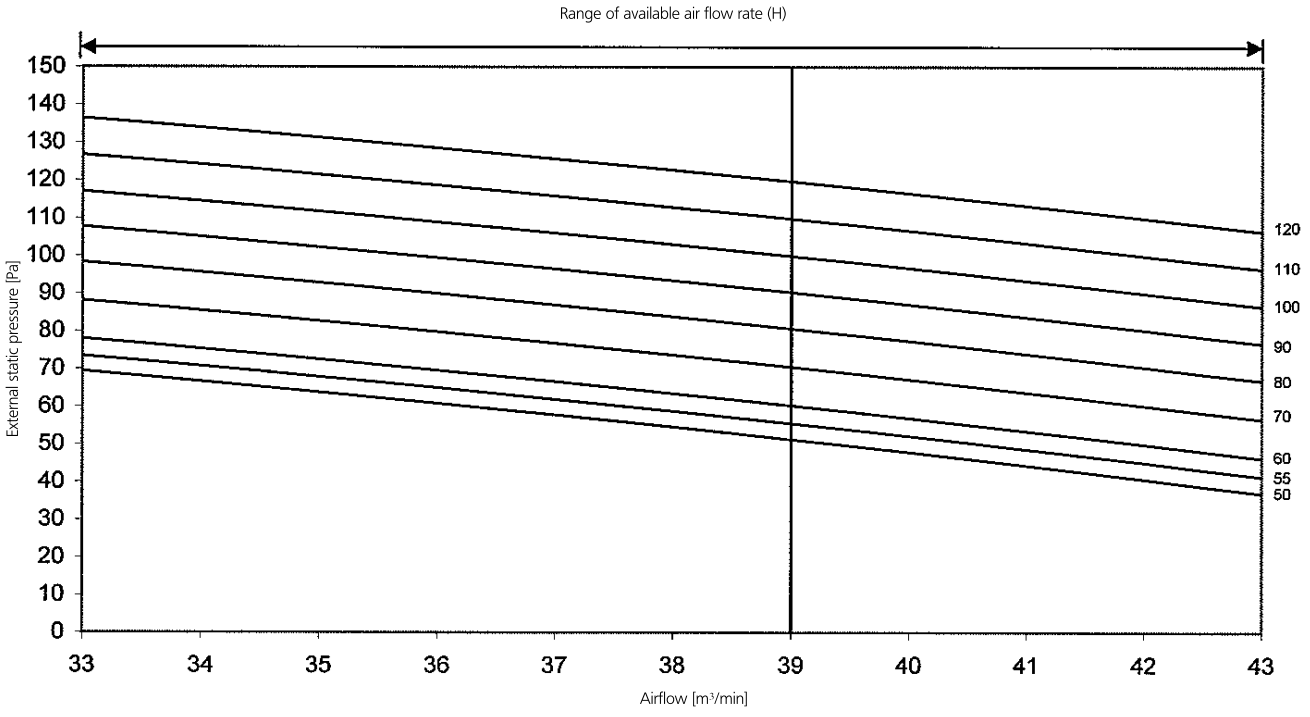
NOTES

1 Fan characteristics as shown are in 'fan only' mode
2 ESP: External static pressure

3TW31268-1

FDQ125C

Fan characteristics (2)
(Field setting with remote controller)



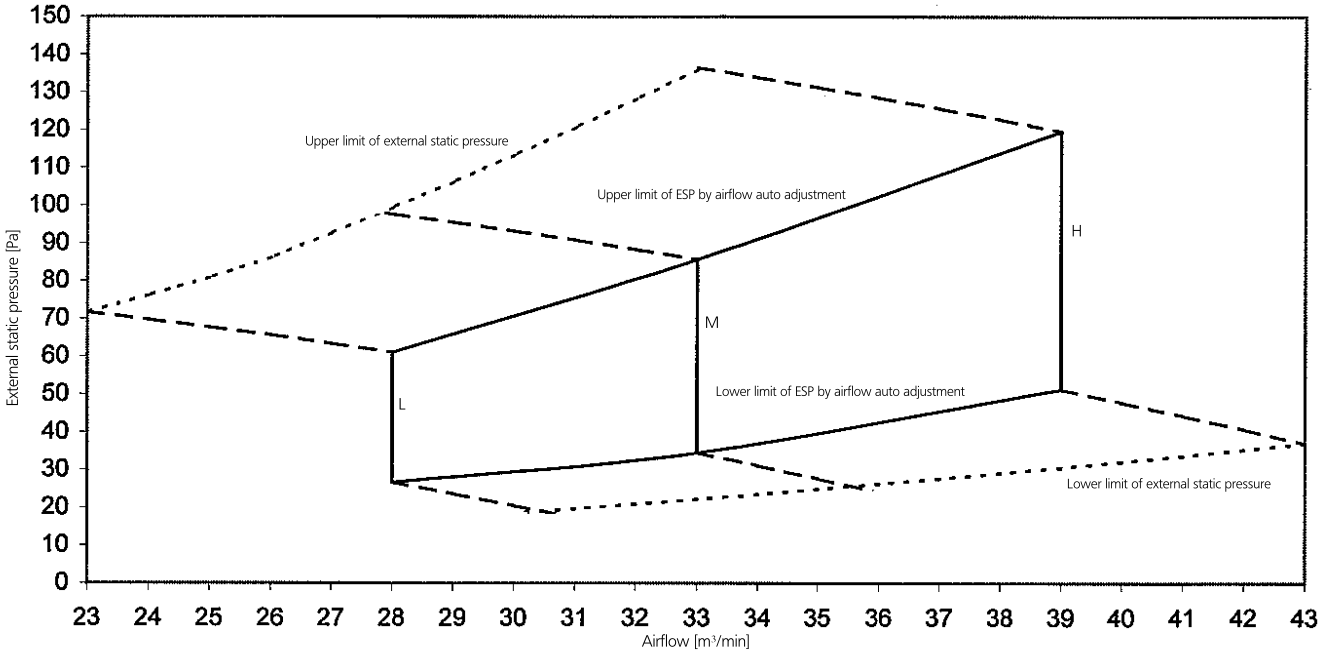
NOTES

1 Fan characteristics as shown are in 'fan only' mode
2 ESP: External static pressure

3TW31268-1

FDQ125C

Fan characteristics (3)
(airflow auto adjustment)



NOTES

1 Fan characteristics as shown are in 'fan only' mode
2 ESP: External static pressure

3TW31268-1

Concealed ceiling unit with high ESP

ESP up to 250, ideal for extra large sized spaces

› High external static pressure up to 250Pa facilitates using flexible ducts of varying lengths
› Discretely concealed in the ceiling: only the suction and discharge grilles are visible
› Up to 26.4kW in heating mode

FDQ-B

RZQ200-250C

BRC1E52A-B

Efficiency data				FDQ + RZQ	200B + 200C	250B + 250C
Cooling capacity	Nom.			kW	20.0	24.1
Heating capacity	Nom.			kW	23.0	26.4
Power input	Cooling	Nom.		kW	6.23	8.58
	Heating	Nom.		kW	6.74	8.22
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER				3.21	2.81
	COP				3.41	3.21
	Annual energy consumption			kWh	3,115	4,290
	Energy label	Cooling/Heating			-	

Indoor unit				FDQ	200B	250B
Dimensions	Unit	HeightxWidthxDepth		mm	450x1,400x900	
Required ceiling void >				mm	450	
Weight	Unit			kg	89.0	94.0
Air filter	Type				Resin net with mold resistance	
Fan - Air flow rate	Cooling	Nom.		m^3/min	69.0	89.0
	Heating	Nom.		m^3/min	69.0	89.0
Fan - External static pressure	High/Nom./Low			Pa	250/250/250	
Sound power level	Cooling			dBA	81	82
Sound pressure level	Cooling	High		dBA	45.0	47.0
	Heating	Low		dBA	45.0	47.0
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 230	

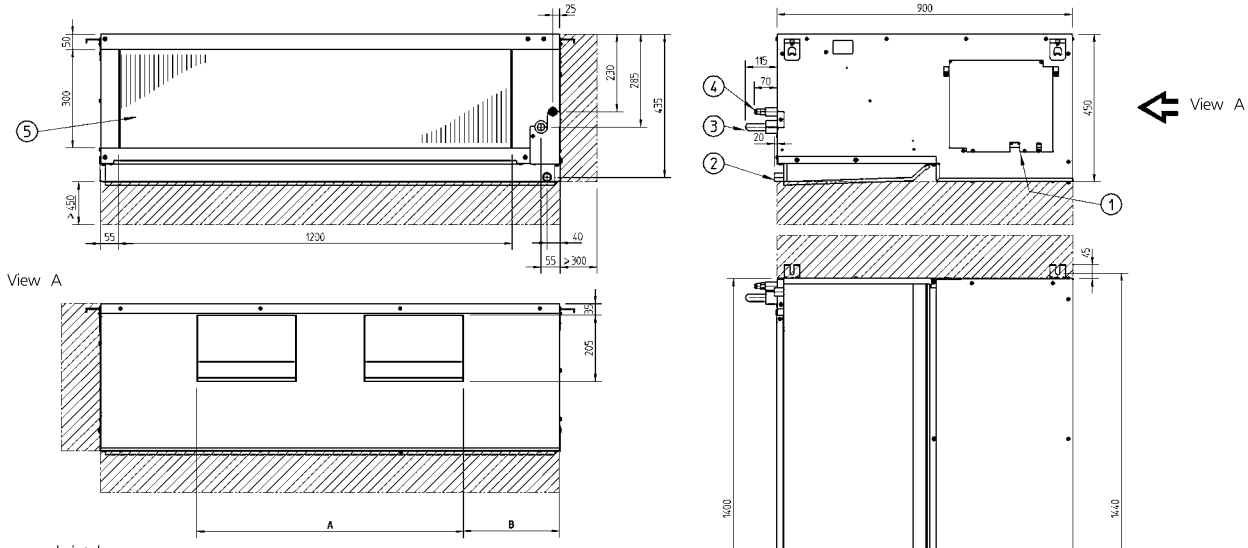
Outdoor unit				RZQ	200C	250C
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x930x765	
Weight	Unit			kg	183	184
Sound power level	Cooling			dBA	78	
	Heating			dBA	78	
Sound pressure level	Nom.			dBA	57	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5.0~46.0	
	Heating	Ambient	Min.~Max.	°CWB	-15.0~15.0	
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/8.3/17.3/2,087.5	R-410A/9.3/19.4/2,087.5
Piping connections	Liquid	OD		mm	9.52	12.7
	Gas	OD		mm	22.2	
	Piping length	OU - IU	Max.	m	100	
	Level difference	IU - OU	Max.	m	-	
Power supply	Phase / Frequency / Voltage			Hz / V	3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Find all technical drawings on our business portal http://my.daikin.eu

FDQ200-250B / FDYP200-250B

unit (mm)



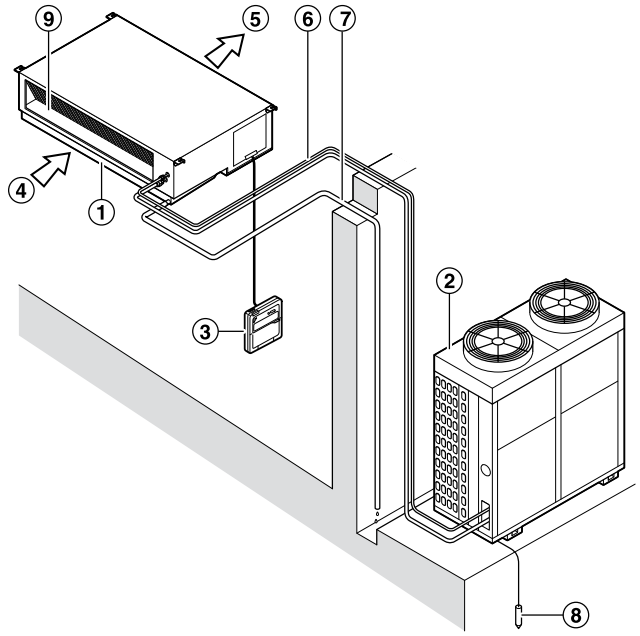
① Power supply intake
② Drain connection ⌀25 O.D.
③ Gas pipe connection
FDYP200B/250B :1 1/8" O.D. or 28,6 mm
FDQ200/250 :7/8" O.D. or 22,2 mm O.D.
④ Liquid pipe connection
FDYP200B : Single union joint 1/2" or 12.7mm
FDYP250B : Single union joint 5/8" or 15.9mm
FDQ200 : Single union joint 3/8" or 9,52 mm
FDQ250 : Single union joint 1/2" or 12.7mm
⑤ Filter

Notes:
▨ : Service space

Model	A	B
FDYP200B8V19/FDQ200B8V3B9	830	285
FDYP250B8V19/FDQ250B8V3B9	890	255

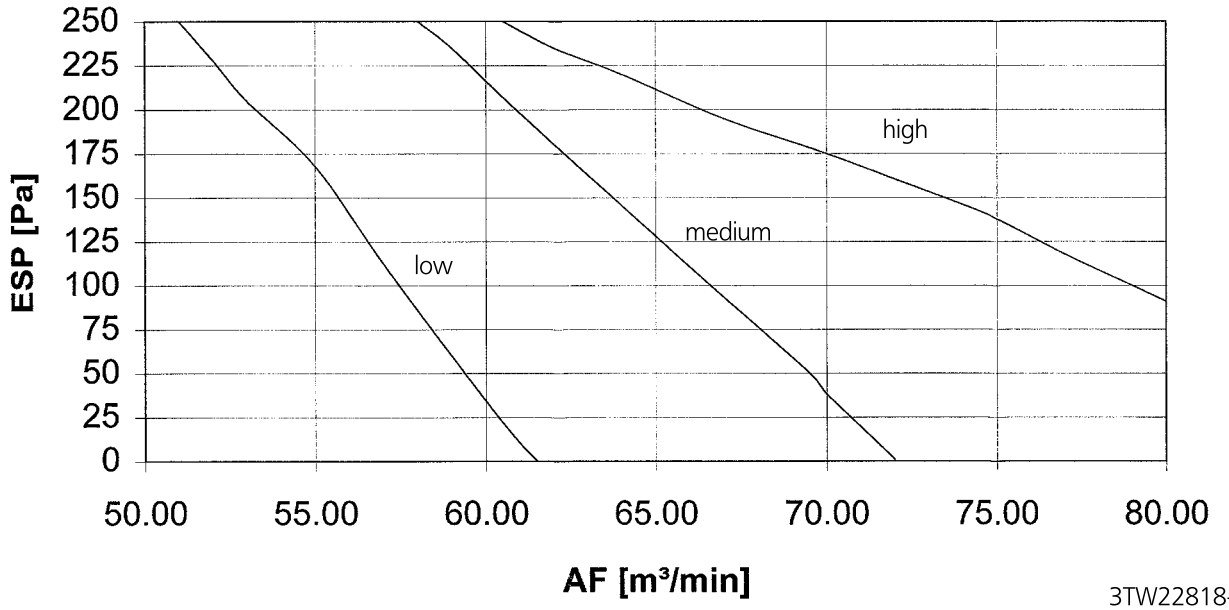
3TW30844-1

FDQ-B



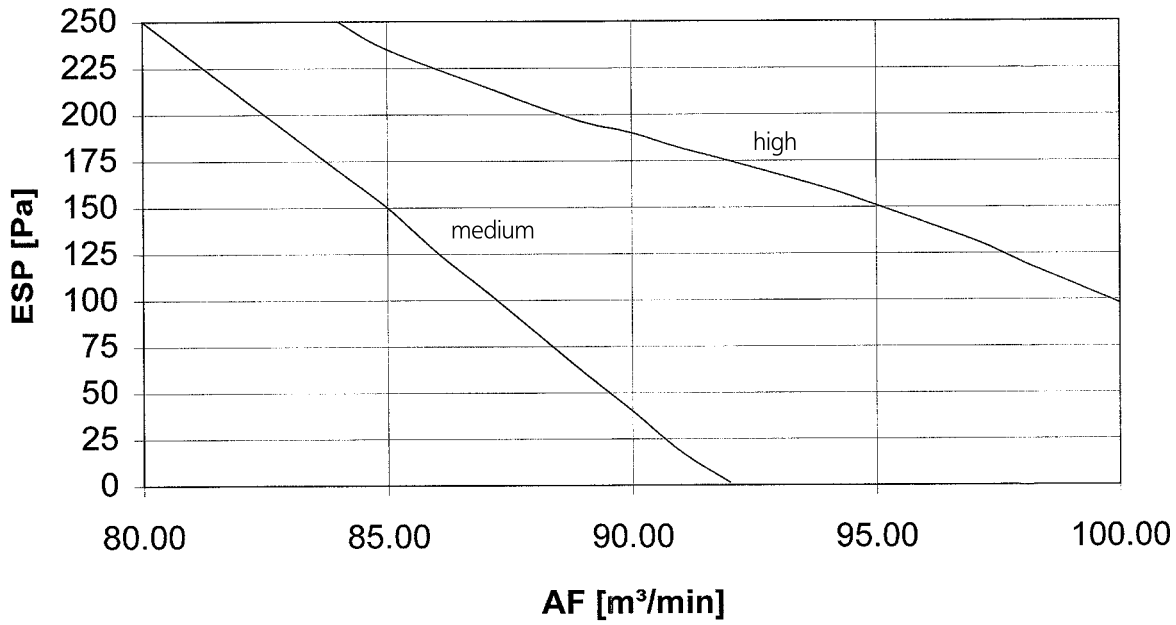
Number	Description
1	Indoor unit
2	Outdoor unit
3	Remote control
4	Inlet air
5	Discharged air
6	Refrigerant piping, connection electric wire
7	Drain pipe
8	Ground wire Wire to ground from the outdoor unit to prevent electrical shocks.
9	Air filter

FDQ200B7



3TW22818-1

FDQ200B7



3TW22828-1

Concealed ceiling unit

Ideal for medium sized shops with false ceilings

- Ideal solution for busy retail and business environments and small shops
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Exclusively offered for pair applications
- Air filter removes airborne dust particles to ensure a steady supply of clean air
- Easy installation and maintenance
- Double protection drainage system ensures quality

ABQ100C

AZQS100-125B8V1/BY1

ARCWB

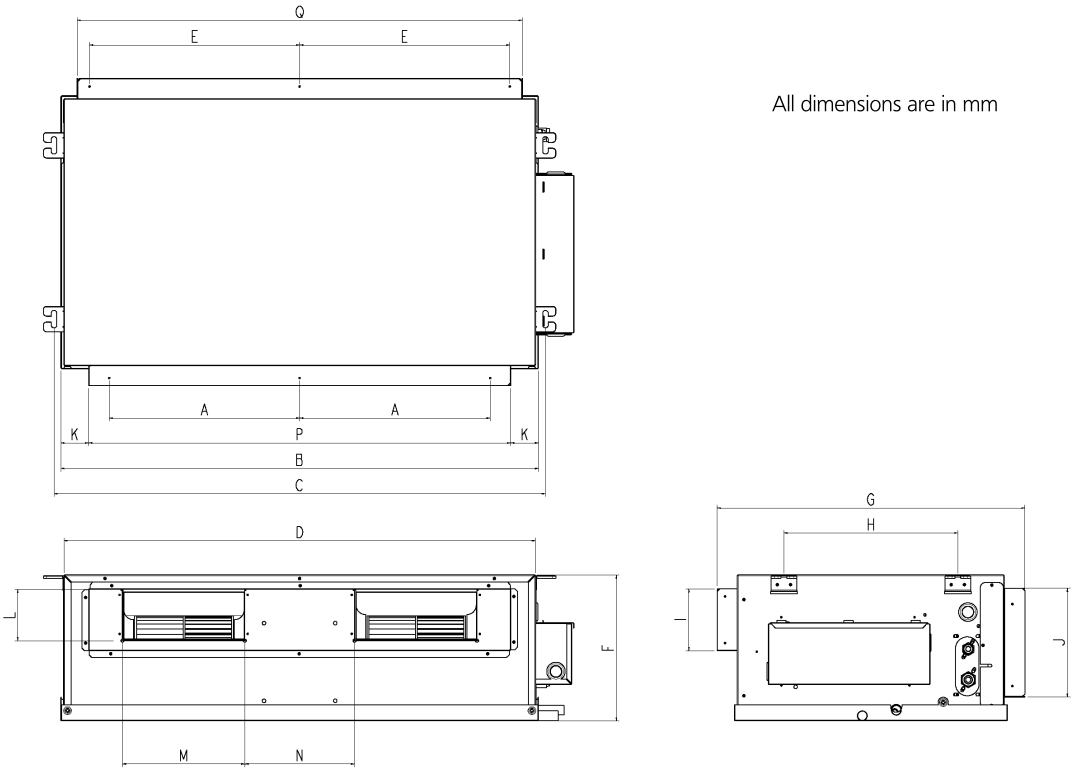
Efficiency data				ABQ + AZQS	71C + 71BV1	100C + 100B8V1	125C + 125B8V1	140C + 140B8V1	100C + 100BY1	125C + 125BY1	140C + 140BY1
Cooling capacity	Nom.			kW	6.8	9.5	12.1	13.0	9.5	12.1	13.0
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.33	3.63	4.31	4.32	3.63	4.31	4.32
	Heating	Nom.		kW	2.13	3.16	3.96	4.55	3.16	3.96	4.55
Seasonal efficiency (according to EN14825)	Cooling	Energy label			B		-		B	-	
		Pdesign		kW	6.80	9.50	-		9.50	-	
		SEER			4.65		-		4.65	-	
		Annual energy consumption		kWh	512	716	-		716	-	
	Heating (Average climate)	Energy label			A		-		A	-	
		Pdesign		kW	5.65	6.78	-		6.78	-	
		SCOP			3.80		-		3.80	-	
		Annual energy consumption		kWh	2,082	2,498	-		2,498	-	
Nominal efficiency	EER				2.91	2.62	2.81	3.01	2.62	2.81	3.01
	COP				3.51	3.42	3.41		3.42	3.41	
	Annual energy consumption			kWh	1,165	1,813	2,153	-	1,813	2,153	-
	Energy label	Cooling/Heating			C/B	D/B	C/B	-	D/B	C/B	-

Indoor unit				ABQ	71C	100C	125C	140C	100C	125C	140C
Dimensions	Unit	HeightxWidthxDepth		mm	285x600x1,007	378x541x1,045	378x541x1,299	378x541x1,499	378x541x1,045	378x541x1,299	378x541x1,499
Weight	Unit			kg	35	44	50	56	44	50	56
Air filter	Type				Saranet						
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18.3/16.8/15.4	22.7/20.5/18.3	40.5/37.4/34.8	48.7/43.9/37.9	22.7/20.5/18.3	40.5/37.4/34.8	48.7/43.9/37.9
	Heating	High/Nom./Low		m^3/min	18.3/16.8/15.4	22.7/20.5/18.3	40.5/37.4/34.8	48.7/43.9/37.9	22.7/20.5/18.3	40.5/37.4/34.8	48.7/43.9/37.9
Fan - External static pressure	High/Nom./Low			Pa	90/77/64	70/57/45	150/128/111	150/122/92	70/57/45	150/128/111	150/122/92
Sound power level	Cooling			dBA	64	60	-		60	-	
	Heating			dBA	64	60	-		60	-	
Sound pressure level	Cooling	High/Nom./Low		dBA	-	41/38/36	53/52/50	55/53/50	41/38/36	53/52/50	55/53/50
	Heating	High/Nom./Low		dBA	-	41/38/36	53/52/50	55/53/50	41/38/36	53/52/50	55/53/50
Control systems	Wired remote control				ARCWB						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240						

Outdoor unit				AZQS	71BV1	100B8V1	125B8V1	140B8V1	100BY1	125BY1	140BY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72.8	74.3	94.9	82		101
Sound power level	Cooling			dBA	64	70	71	70		71	70
Sound pressure level	Cooling	Nom.		dBA	48	53	54	53		54	53
	Heating	Nom.		dBA	50	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	43	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	30.0						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32		40	16	20	25

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

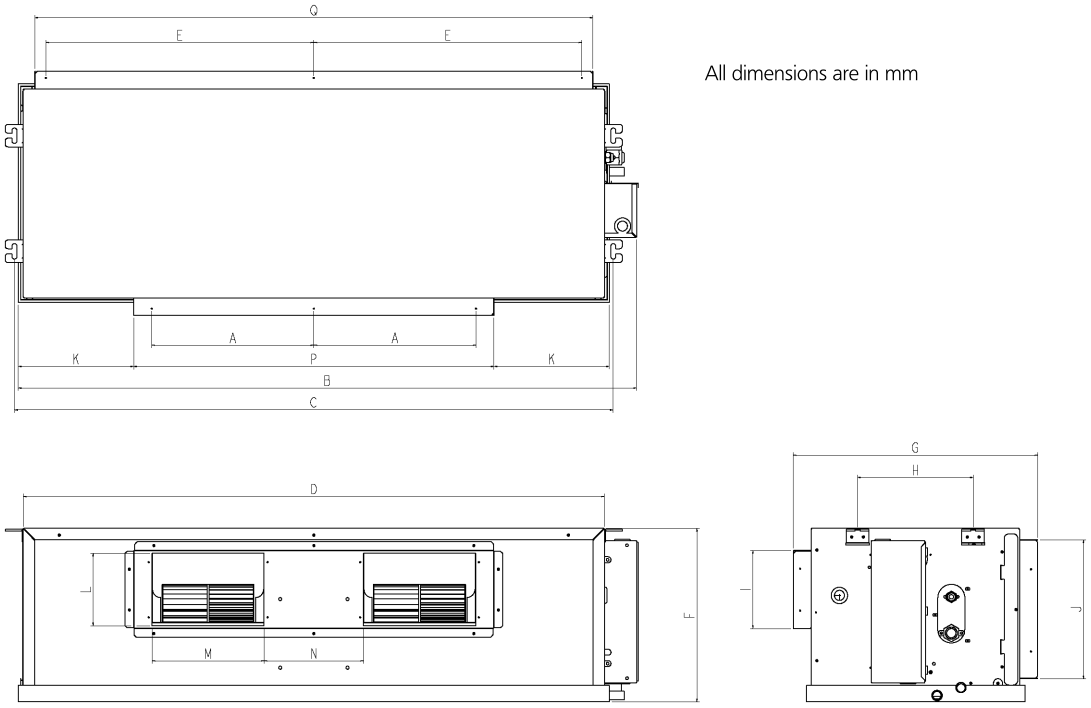
ABQ71C



All dimensions are in mm

Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
ABQ71C	372	1001	959	920	410	285	600	339	121	231	54	100	245	216	824	869

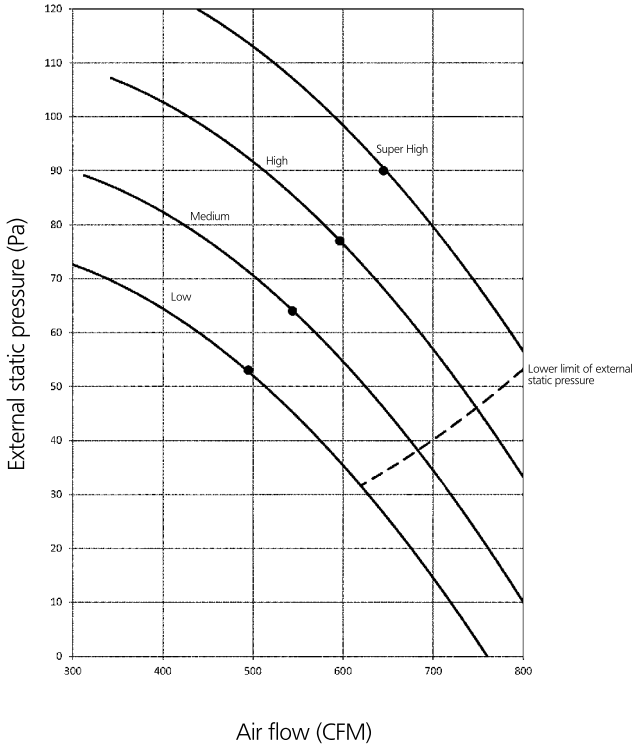
ABQ100-140C



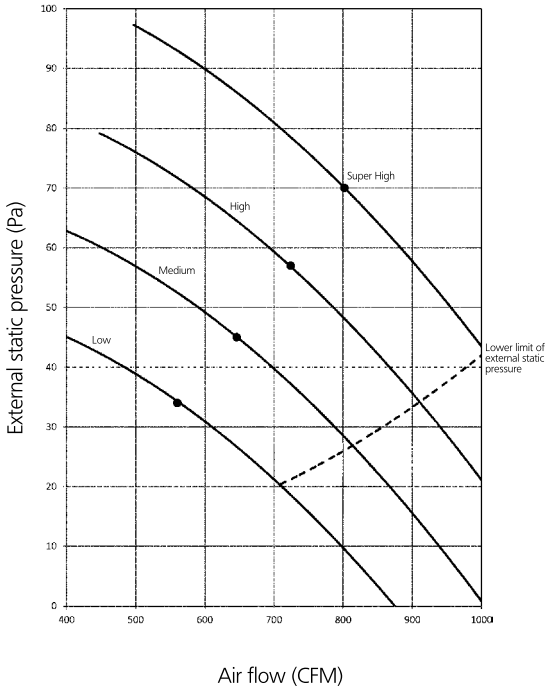
All dimensions are in mm

Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
ABQ100C	359	1115	1072	1033	467	378	541	256	180	306	128	170	234	234	798	982
ABQ125C	359	1369	1326	1287	594	378	541	256	180	306	256	170	234	234	798	1236
ABQ140C	359	1569	1526	1487	694	378	541	256	180	306	356	170	234	234	789	1436

ABQ71C

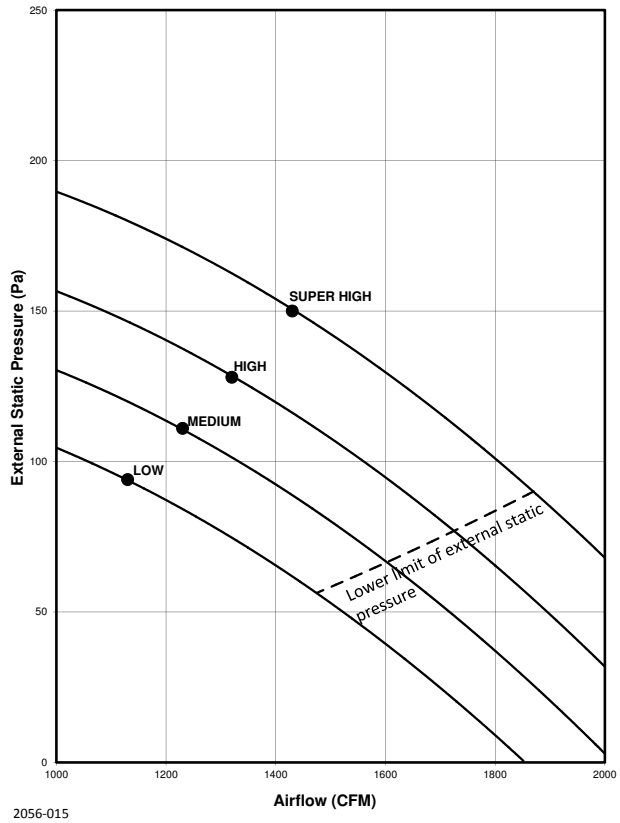


ABQ100C



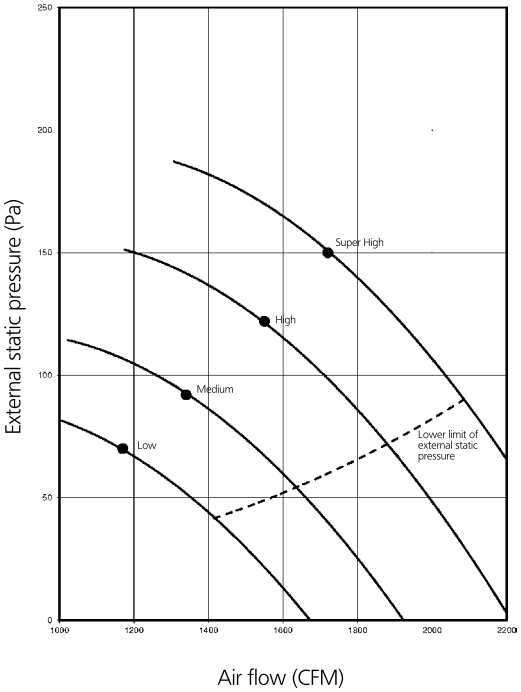
2056-014

ABQ125C



2056-015

ABQ140C



2056-016

WHERE CEILING SLOT DIFFUSER IS USED IN SUSPENDED CEILING

Seasonal Classic

Wall mounted unit

For rooms with no false ceilings nor free floor space

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- Reduced energy consumption thanks to specially developed DC fan motor
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit
- Easy to install as the largest casing only weighs 17kg and piping connection can be done at the bottom, left or right of the unit
- Optimum comfort guaranteed with automatic air-flow volume control as this minimises the difference between room and required temperature. No action required from occupants to meet the desired temperature.
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.

Efficiency data				**FAQ + RZQSG**	**71C + 71L3V1**	**100C + 100L9V1**	**100C + 100L8Y1**
Cooling capacity	Nom.			kW	6.8	9.5	
Heating capacity	Nom.			kW	7.5	10.8	
Power input	Cooling	Nom.		kW	2.12	3.16	
	Heating	Nom.		kW	2.08	3.17	
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+		
		Pdesign		kW	6.80	9.50	
		SEER			6.05	5.61	
		Annual energy consumption		kWh	393	593	
	Heating (Average climate)	Energy label			A	A+	
		Pdesign		kW	6.00	6.81	
		SCOP			3.90	4.01	
		Annual energy consumption		kWh	2,155	2,378	
Nominal efficiency	EER				3.21	3.01	
	COP				3.61	3.41	
	Annual energy consumption			kWh	1,060	1,580	
	Energy label	Cooling/Heating			A/A	B/B	

Indoor unit				**FAQ**	**71C**	**100C**
Dimensions	Unit	HeightxWidthxDepth		mm	290x1,050x238	340x1,200x240
Weight	Unit			kg	13	17
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18/16/14	26/23/19
	Heating	High/Nom./Low		m^3/min	18/16/14	26/23/19
Sound power level	Cooling			dBA	61	65
	Heating			dBA	61	65
Sound pressure level	Cooling	High/Nom./Low		dBA	45/42/40	49/45/41
	Heating	High/Nom./Low		dBA	45/42/40	49/45/41
Control systems	Infrared remote control				BRC7EB518	
	Wired remote control				BRC1D52 / BRC1E52A/B	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220	

Outdoor unit				**RZQSG**	**71L3V1**	**100L9V1**	**100L8Y1**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320	
Weight	Unit			kg	67	72	82
Sound power level	Cooling			dBA	65	70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	
	Heating	Nom.		dBA	51	57	
	Night quiet mode	Level 1		dBA	-	49	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15.0~46	-15~46	
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5		
Refrigerant	Type/Charge kg-TCO^2Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5	
Piping connections	Liquid	OD		mm	9.52		
	Gas	OD		mm	15.9		
	Piping length	OU - IU	Max.	m	50		
		System	Equivalent	m	70		
			Chargeless	m	30		
	Additional refrigerant charge			kg/m	See installation manual		
	Level difference	IU - OU	Max.	m	15	30.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		3N~ / 50 / 380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32	16

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Seasonal Smart

Wall mounted unit

For rooms with no false ceilings nor free floor space

› Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FAQ100C

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B BRC7EB518

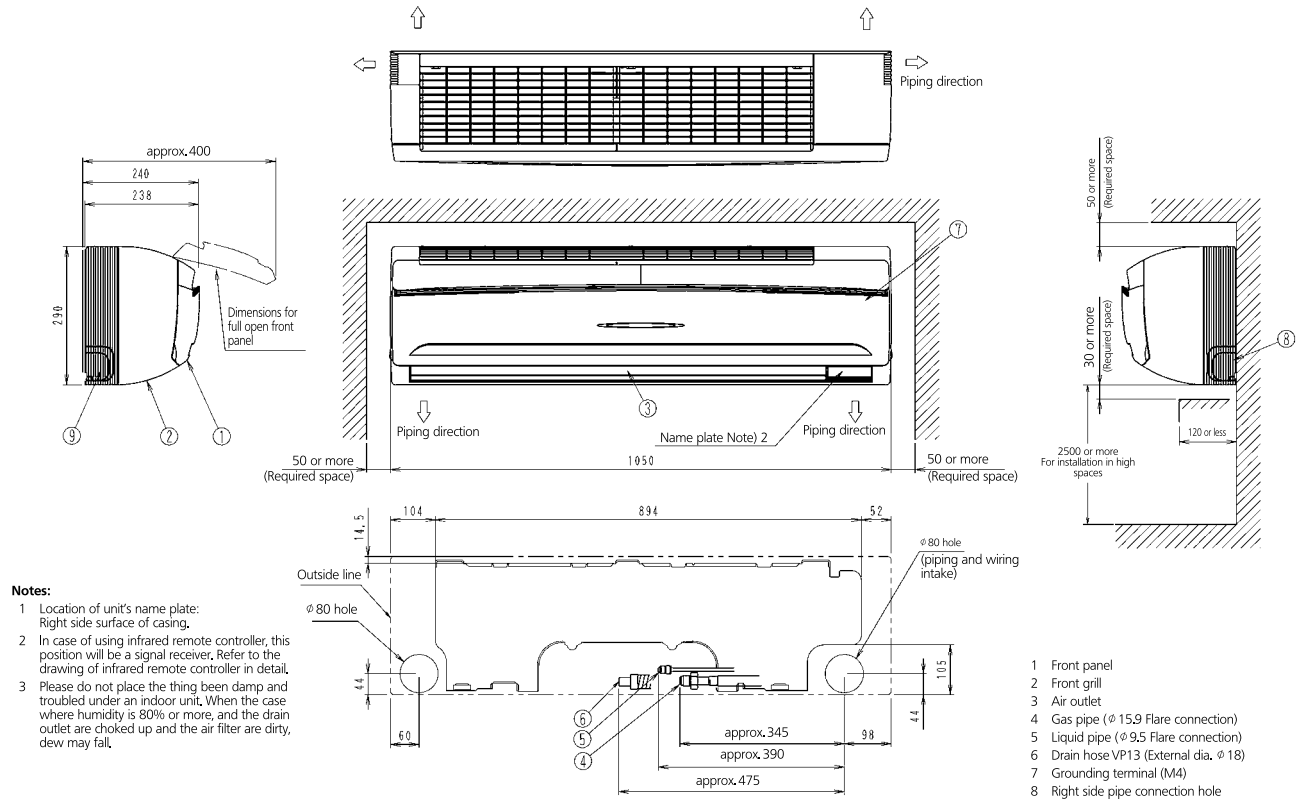
Efficiency data				FAQ + RZQG	71C + 71L9V1	100C + 100L9V1	71C + 71L8Y1	100C + 100L8Y1
Cooling capacity	Nom.			kW	6.8	9.5	6.8	9.5
Heating capacity	Nom.			kW	7.5	10.8	7.5	10.8
Power input	Cooling	Nom.		kW	2.00	2.63	2.00	2.63
	Heating	Nom.		kW	2.03	3.00	2.03	3.00
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++			
		Pdesign		kW	6.80	9.50	6.8	9.5
		SEER			6.51	6.11	6.51	6.11
		Annual energy consumption		kWh	366	545	366	545
	Heating (Average climate)	Energy label			A+			
		Pdesign		kW	6.33	10.20	6.33	10.2
		SCOP			4.02	4.01	4.02	4.01
		Annual energy consumption		kWh	2,205	3,562	2,205	3,562
Nominal efficiency	EER				3.40	3.62	3.40	3.62
	COP				3.70	3.61	3.70	3.61
	Annual energy consumption			kWh	1,000	1,315	1,000	1,315
	Energy label	Cooling/Heating			A/A			

Indoor unit				FAQ	71C	100C
Dimensions	Unit	HeightxWidthxDepth		mm	290x1,050x238	340x1,200x240
Weight	Unit			kg	13	17
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18/16/14	26/23/19
	Heating	High/Nom./Low		m^3/min	18/16/14	26/23/19
Sound power level	Cooling			dBA	61	65
	Heating			dBA	61	65
Sound pressure level	Cooling	High/Nom./Low		dBA	45/42/40	49/45/41
	Heating	High/Nom./Low		dBA	45/42/40	49/45/41
Control systems	Infrared remote control				BRC7EB518	
	Wired remote control				BRC1D52 / BRC1E52A/B	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220	

Outdoor unit				RZQG	71L9V1	100L9V1	71L8Y1	100L8Y1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320	990x940x320	1,430x940x320
Weight	Unit			kg	69	95	80	101
Sound power level	Cooling			dBA	64	66	64	66
Sound pressure level	Cooling	Nom.		dBA	48	50	48	50
	Heating	Nom.		dBA	50	52	50	52
	Night quiet mode	Level 1		dBA	43	45	43	45
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50			
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5			
Refrigerant	Type/Charge kg-TCO$_2$Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52			
	Gas	OD		mm	15.9			
	Piping length	OU - IU	Max.	m	50	75	50	75
		System	Equivalent	m	70	90	70	90
			Chargeless	m	30			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30.0			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32	20	32

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FAQ71C



Notes:

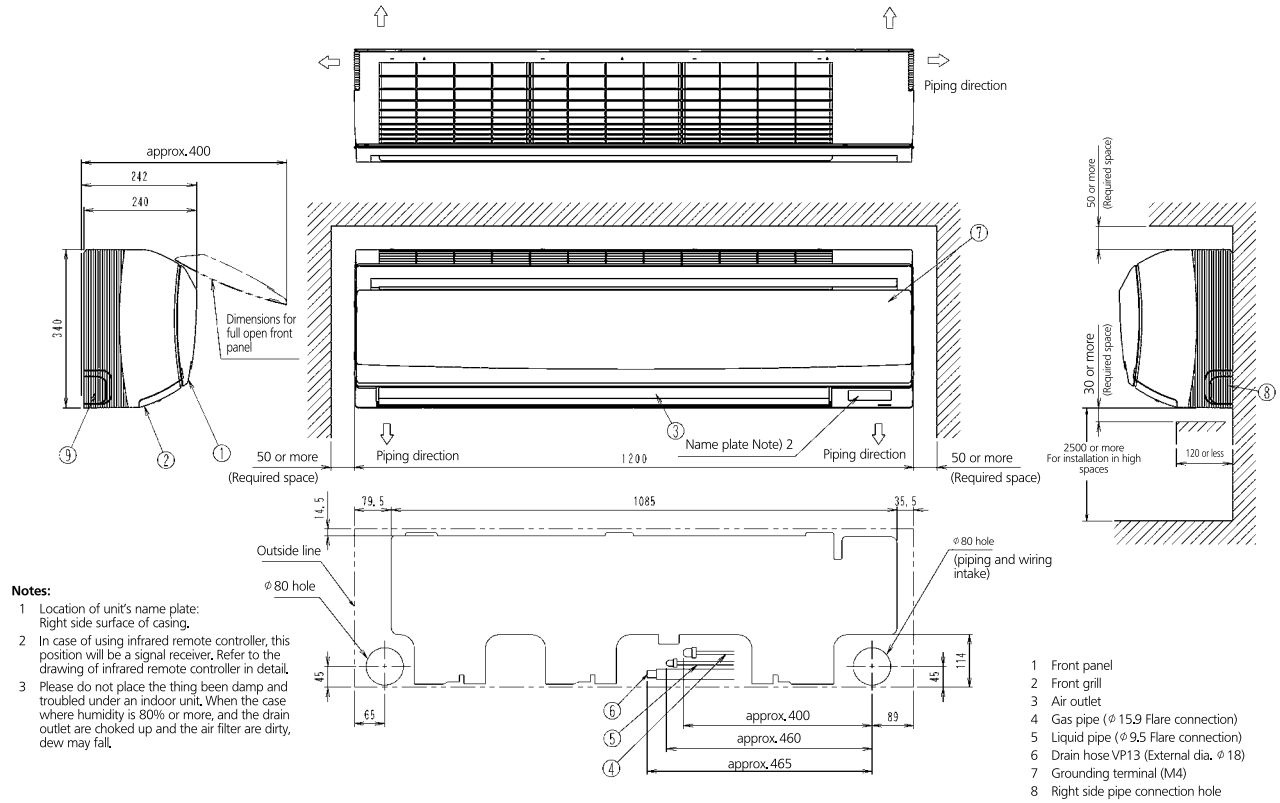
1 Location of unit's name plate: Right side surface of casing.
2 In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3 Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

1 Front panel
2 Front grill
3 Air outlet
4 Gas pipe (ø15.9 Flare connection)
5 Liquid pipe (ø9.5 Flare connection)
6 Drain hose VP13 (External dia. ø18)
7 Grounding terminal (M4)
8 Right side pipe connection hole
9 Left side pipe connection hole

Mounting location

3D073840A

FAQ100C



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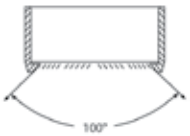
Mounting location

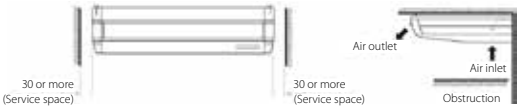
3D073841A

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space



- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Drain pump kit available as accessory

FHQ60C

RXS35L3

BRC1E52A-B, BRC7G53

- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Efficiency data				**FHQ + RXS**	**35C + 35L3**	**50C + 50L**	**60C + 60L**
Cooling capacity	Min./Nom./Max.			kW	1.4/3.40/4.0	1.7/5.0/5.3	1.7/5.7/5.7
Heating capacity	Min./Nom./Max.			kW	1.3/4.00/5.1	1.7/6.0/6.0	1.7/7.20/7.2
Power input	Cooling	Min./Nom./Max.		kW	0.410/0.950/1.490	-/1.570/-	-/1.750/-
	Heating	Min./Nom./Max.		kW	0.270/0.980/1.980	-/1.790/-	-/2.170/-
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+	
		Pdesign		kW	3.40	5.00	5.70
		SEER			6.18	5.87	6.02
		Annual energy consumption		kWh	193	298	332
	Heating (Average climate)	Energy label			A+	A	
		Pdesign		kW	3.10	4.35	4.71
		SCOP			4.43	3.86	3.87
		Annual energy consumption		kWh	981	1,578	1,705
Nominal efficiency	EER				3.58	3.18	3.26
	COP				4.08	3.35	3.32
	Annual energy consumption			kWh	475	785	875
	Energy label	Cooling/Heating			A/A	B/C	A/C

Indoor unit				**FHQ**	**35C**	**50C**	**60C**
Dimensions	Unit	HeightxWidthxDepth		mm	235x960x690		235x1,270x690
Weight	Unit			kg	24	25	31
Air filter	Type				Resin net with mold resistance		
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	14/11.5/10	15/12/10	19.5/15/11.5
	Heating	High/Nom./Low		m^3/min	14/11.5/10	15/12/10	19.5/15/11.5
Sound power level	Cooling			dBA	53	54	
	Heating			dBA	53	54	
Sound pressure level	Cooling	High/Nom./Low		dBA	36/34/31	37/35/32	37/35/33
	Heating	High/Nom./Low		dBA	36/34/31	37/35/32	37/35/33
Control systems	Infrared remote control				BRC7G53		
	Wired remote control				BRC1D52 / BRC1E52A/B		
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220		

Outdoor unit				**RXS**	**35L3**	**50L**	**60L**
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285	735x825x300	
Weight	Unit			kg	34	47	48
Sound power level	Cooling			dBA	61	62	
	Heating			dBA	61	62	
Sound pressure level	Cooling	High/Low/Silent operation		dBA	48/-/44	48/44/-	49/46/-
	Heating	High/Low/Silent operation		dBA	48/-/45	48/45/-	49/46/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/1.2/2.5/2,087.5	R-410A/1.7/3.5/2,087.5	R-410A/1.5/3.1/2,087.5
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.5	12.7	
	Piping length	OU - IU	Max.	m	20	30	
		System	Chargeless	m	10		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	10	20	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

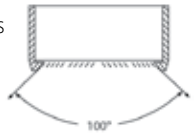
Seasonal Classic

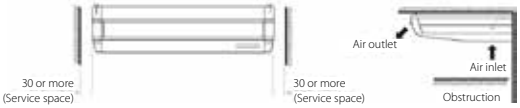
Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space





- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Drain pump kit available as accessory
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Efficiency data				FHQ + RZQSG	71C + 71L3V1	100C + 100L9V1	125C + 125L9V1	140C + 140L9V1	100C + 100L8Y1	125C + 125L8Y1	140C + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.97	2.96	4.15	4.45	2.96	4.15	4.45
	Heating	Nom.		kW	1.88	2.99	3.73	4.54	2.99	3.73	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+			-	A+		-
		Pdesign		kW	6.80	9.50	12.00	-	9.5	12	-
		SEER			5.61			-	5.61		-
		Annual energy consumption		kWh	424	593	749	-	593	749	-
	Heating (Average climate)	Energy label			A		A+	-	A	A+	-
		Pdesign		kW	7.60			-	7.6		-
		SCOP			3.90	3.91	4.01	-	3.91	4.01	-
		Annual energy consumption		kWh	2,727	2,722	2,654	-	2,722	2,654	-
Nominal efficiency	EER				3.46	3.21	2.89	3.01	3.21	2.89	3.01
	COP				4.00	3.61	3.62	3.41	3.61	3.62	3.41
	Annual energy consumption			kWh	985	1,480	2,075	-	1,480	2,075	2,225
	Energy label	Cooling/Heating			A/A		C/A	-	A/A	C/A	-

Indoor unit				FHQ	71C	100C	125C	140C	100C	125C	140C
Dimensions	Unit	HeightxWidthxDepth		mm	235x1,270x690	235x1,590x690					
Weight	Unit			kg	32	38					
Air filter	Type				Resin net with mold resistance						
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24	28/24/20	31/27/23	34/29/24
	Heating	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24	28/24/20	31/27/23	34/29/24
Sound power level	Cooling			dBA	55	60	62	64	60	62	64
	Heating			dBA	55	60	62	64	60	62	64
Sound pressure level	Cooling	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38	42/38/34	44/41/37	46/42/38
	Heating	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38	42/38/34	44/41/37	46/42/38
Control systems	Infrared remote control				BRC7G53						
	Wired remote control				BRC1D52 / BRC1E52A/B						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220						

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72	74	95	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker) For more detailed information on each combination, please refer to the electrical data drawing.

Seasonal Smart

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

For combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FHQ60-71C

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B, BRC7G53

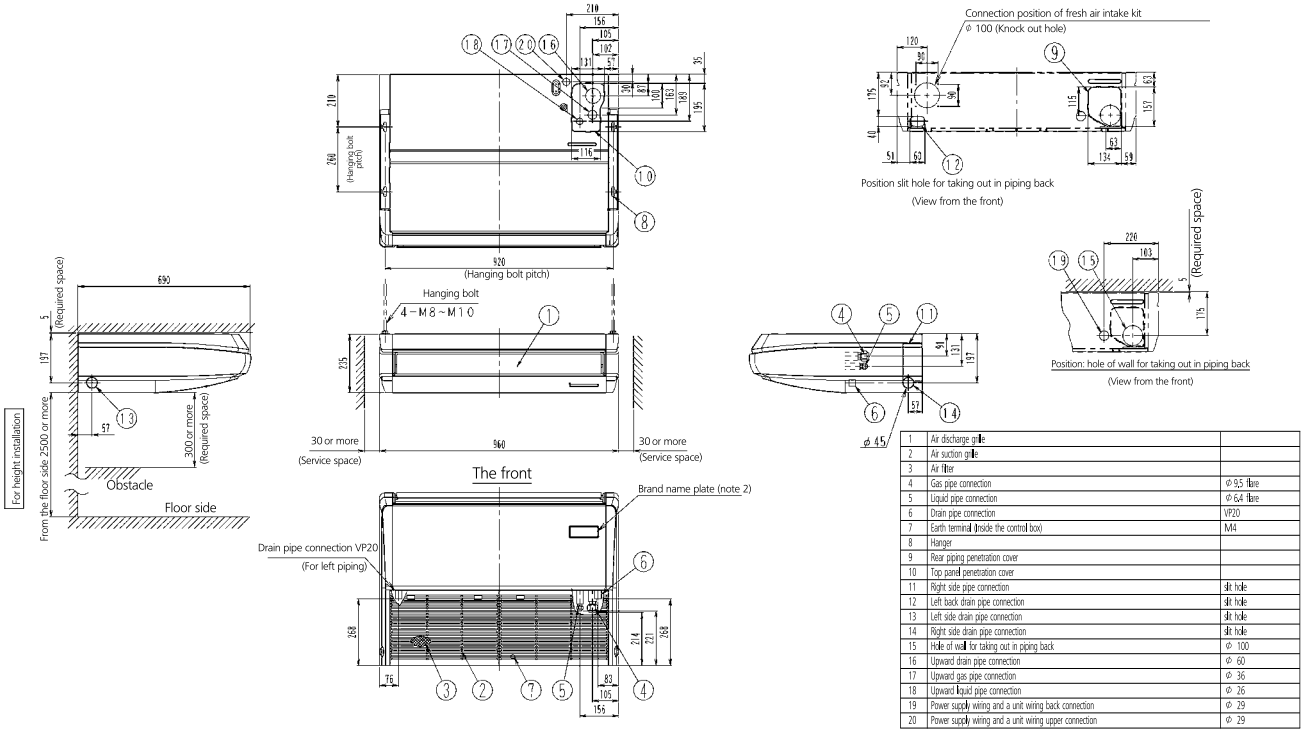
Efficiency data				FHQ + RZQG	71C + 71L9V1	100C + 100L9V1	125C + 125L9V1	140C + 140L9V1	71C + 71L8Y1	100C + 100L8Y1	125C + 125L8Y1	140C + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.78	2.49	3.58	4.05	1.78	2.49	3.58	4.05
	Heating	Nom.		kW	1.82	2.60	3.48	4.27	1.82	2.60	3.48	4.27
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A+	-	A++		A+	-
		Pdesign		kW	6.80	9.50	12.00	-	6.8	9.5	12	-
		SEER			6.95	6.11	6.01	-	6.95	6.11	6.01	-
		Annual energy consumption		kWh	343	545	699	-	343	545	699	-
	Heating (Average climate)	Energy label			A+	A++	A+	-	A+	A++	A+	-
		Pdesign		kW	7.60	11.30	14.13	-	7.6	11.3	14.13	-
		SCOP			4.32	4.61	4.23	-	4.32	4.61	4.23	-
		Annual energy consumption		kWh	2,463	3,432	4,677	-	2,463	3,432	4,677	-
Nominal efficiency	EER				3.82	3.81	3.35	3.31	3.82	3.81	3.35	3.31
	COP				4.13	4.15	3.89	3.63	4.13	4.15	3.89	3.63
	Annual energy consumption			kWh	890	1,245	1,790	-	890	1,245	1,790	-
	Energy label	Cooling/Heating			A/A			-	A/A			-

Indoor unit				FHQ	71C	100C	125C	140C	71C	100C	125C	140C
Dimensions	Unit	HeightxWidthxDepth		mm	235x1,270x690	235x1,590x690			235x1,270x690	235x1,590x690		
Weight	Unit			kg	32	38			32	38		
Air filter	Type				Resin net with mold resistance							
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24	20.5/17/14	28/24/20	31/27/23	34/29/24
	Heating	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24	20.5/17/14	28/24/20	31/27/23	34/29/24
Sound power level	Cooling			dBA	55	60	62	64	55	60	62	64
	Heating			dBA	55	60	62	64	55	60	62	64
Sound pressure level	Cooling	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38	38/36/34	42/38/34	44/41/37	46/42/38
	Heating	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38	38/36/34	42/38/34	44/41/37	46/42/38
Control systems	Infrared remote control				BRC7G53							
	Wired remote control				BRC1D52 / BRC1E52A/B							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220							

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	69	95			80	101		
Sound power level	Cooling			dBA	64	66	67	69	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52	48	50	51	52
	Heating	Nom.		dBA	50	52	53		50	52	53	
	Night quiet mode	Level 1		dBA	43	45			43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50							
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5							
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5			R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		
Piping connections	Liquid	OD		mm	9.52							
	Gas	OD		mm	15.9							
	Piping length	OU - IU	Max.	m	50	75			50	75		
		System	Equivalent	m	70	90			70	90		
			Chargeless	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
	Level difference	IU - OU	Max.	m	30.0							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			20	32		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FHQ35C

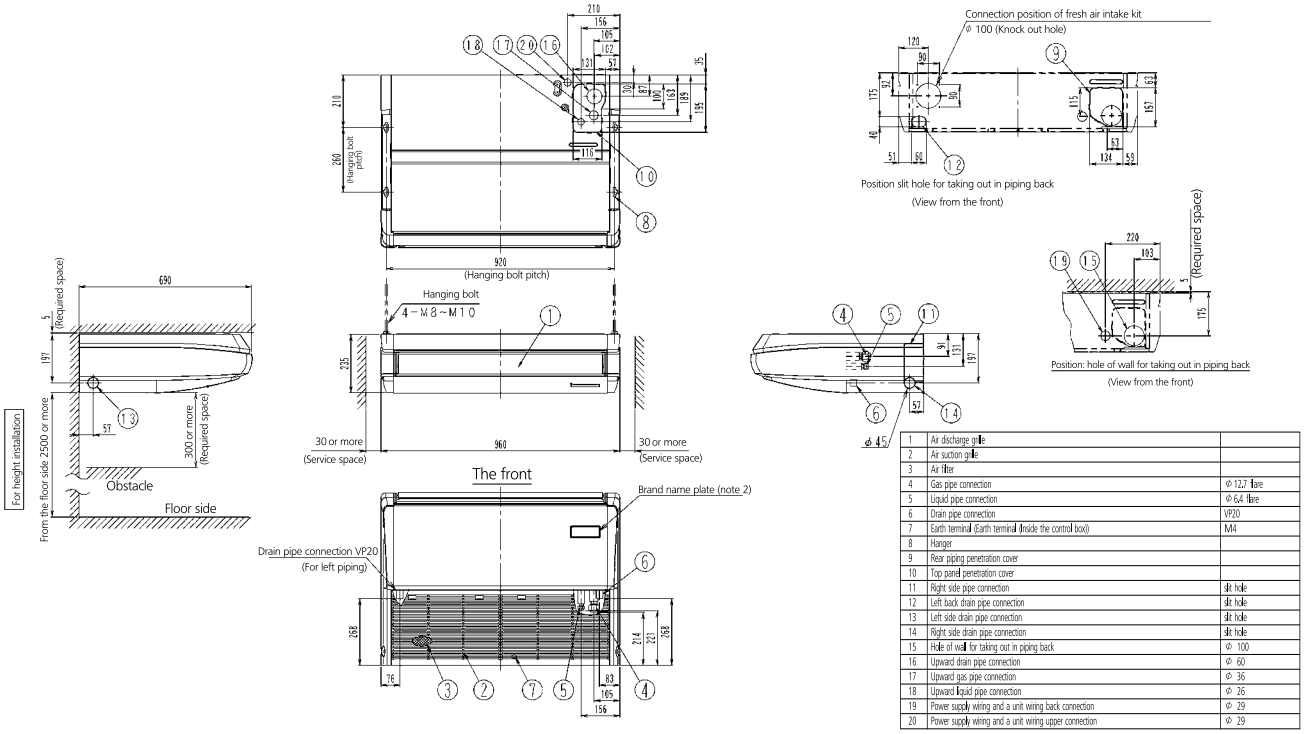


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 9,5 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the control box)	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power supply wiring and a unit wiring back connection	ø 29
20	Power supply wiring and a unit wiring upper connection	ø 29

Note:
1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

3D080028

FHQ50C

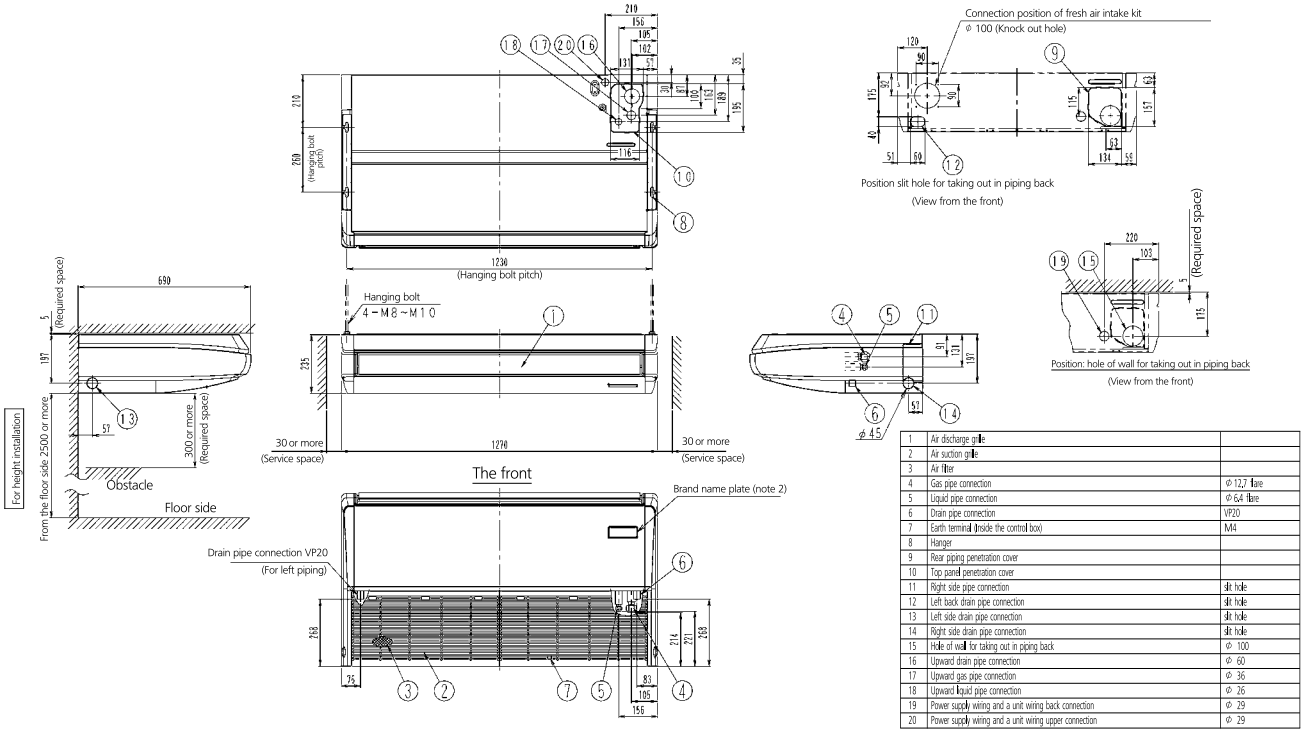


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 12,7 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (Earth terminal inside the control box))	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power supply wiring and a unit wiring back connection	ø 29
20	Power supply wiring and a unit wiring upper connection	ø 29

Note:
1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall

3D080029

FHQ60C

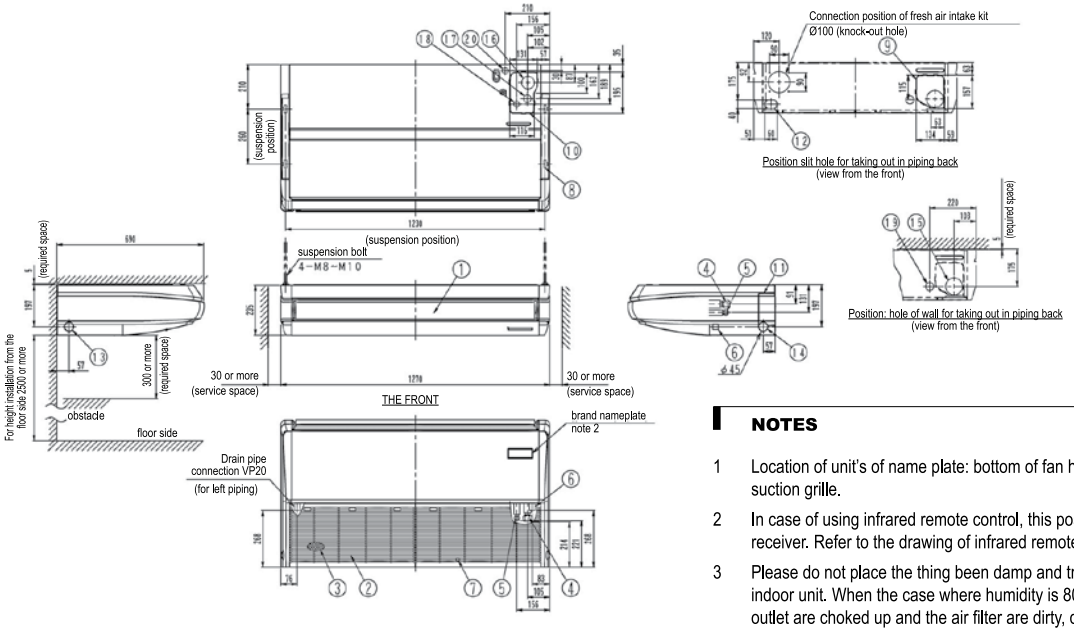


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 12,7 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the control box)	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power supply wiring and a unit wiring back connection	ø 29
20	Power supply wiring and a unit wiring upper connection	ø 29

Note:
1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

3D080119

FHQ71C



3D069632A

NOTES

1 Location of unit's of name plate: bottom of fan housing inside the suction grille.

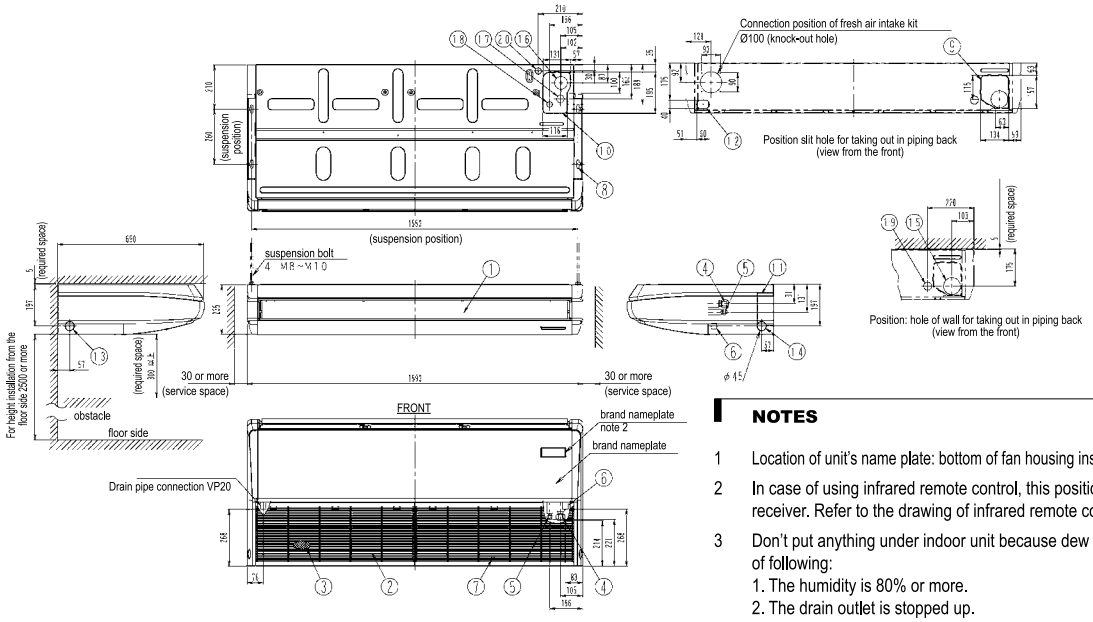
2 In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.

3 Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.

Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	

11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26
19	Power source wiring and a unit wiring back connection	Ø29
20	Power source wiring and a unit wiring upper connection	Ø29

FHQ100-140C



NOTES

1 Location of unit's name plate: bottom of fan housing inside the suction grille.

2 In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.

3 Don't put anything under indoor unit because dew may fall by reason of following:
1. The humidity is 80% or more.
2. The drain outlet is stopped up.
3. The air filter is dirty.

Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	

11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26
19	Power source wiring and a unit wiring back connection	Ø29
20	Power source wiring and a unit wiring upper connection	Ø29

Siesta

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Ideal solution for commercial spaces with no or narrow false ceilings
- Exclusively offered for pair applications
- Can easily be installed in both new and refurbishment projects
- Air filter removes airborne dust particles to ensure a steady supply of clean air
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- Easy installation and maintenance

AHQ71C

AZQS71BV1

ARCWLA

Efficiency data				AHQ + AZQS	71C + 71BV1	100C + 100B8V1	125C + 125B8V1	140C + 140B8V1	100C + 100BY1	125C + 125BY1	140C + 140BY1
Cooling capacity	Nom.			kW	6.8	9.5	12.1	13.0	9.5	12.1	13.0
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.24	3.62	4.60	4.32	3.62	4.60	4.32
	Heating	Nom.		kW	2.46	3.17	3.74	4.55	3.17	3.74	4.55
Seasonal efficiency (according to EN14825)	Cooling	Energy label			B		-		B	-	
		Pdesign		kW	6.80	9.50	-		9.50	-	
		SEER			4.65	4.60	-		4.60	-	
		Annual energy consumption		kWh	511.85	723	-		723	-	
	Heating (Average climate)	Energy label			A		-		A	-	
		Pdesign		kW	6.33	7.60	-		7.60	-	
		SCOP			3.80		-		3.80	-	
		Annual energy consumption		kWh	2,332.26	2,800	-		2,800	-	
Nominal efficiency	EER				3.03	2.62	2.63	3.01	2.62	2.63	3.01
	COP				3.05	3.41	3.61	3.41		3.61	3.41
	Annual energy consumption			kWh	1,120	1,810	2,300	-	1,810	2,300	-
	Energy label	Cooling/Heating			B/D	D/B	D/A	-	D/B	D/A	-

Indoor unit				AHQ	71C	100C	125C	140C	100C	125C	140C
Dimensions	Unit	HeightxWidthxDepth		mm	260x1,320x634	260x1,538x634	260x1,786x634	285x1,902x680	260x1,538x634	260x1,786x634	285x1,902x680
Weight	Unit			kg	38	45	54	70	45	54	70
Air filter	Type				Removable / washable						
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	23.8/21.3/18.9	31.1/27.8/24.8	34.4/30.6/27.2	43.9/39.1/28.3	31.1/27.8/24.8	34.4/30.6/27.2	43.9/39.1/28.3
	Heating	High/Nom./Low		m^3/min	23.8/21.3/18.9	31.1/27.8/24.8	34.4/30.6/27.2	43.9/39.1/28.3	31.1/27.8/24.8	34.4/30.6/27.2	43.9/39.1/28.3
Sound power level	Cooling			dBA	59	64	69	70	64	69	70
	Heating			dBA	62	64	69	70	64	69	70
Sound pressure level	Cooling	High/Nom./Low		dBA	49/48/46	52/47/46	52/50/49	56/53/46	52/47/46	52/50/49	56/53/46
	Heating	High/Nom./Low		dBA	49/48/46	52/47/46	52/50/49	56/53/46	52/47/46	52/50/49	56/53/46
Control systems	Infrared remote control				ARCWLA						
	Wired remote control				ARCWB						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240						

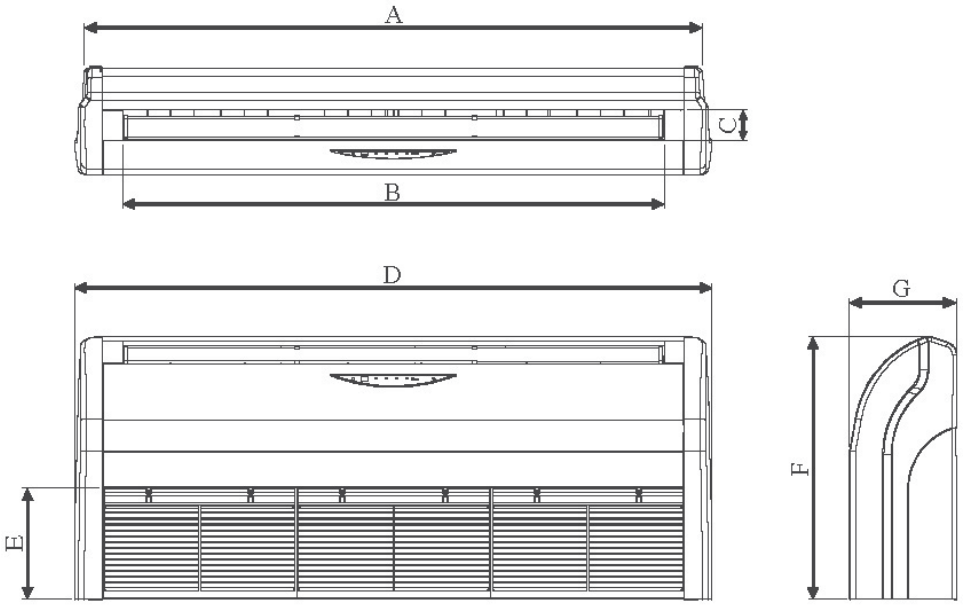
Outdoor unit				AZQS	71BV1	100B8V1	125B8V1	140B8V1	100BY1	125BY1	140BY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72.8	74.3	94.9	82		101
Sound power level	Cooling			dBA	64	70	71	70		71	70
Sound pressure level	Cooling	Nom.		dBA	48	53	54	53		54	53
	Heating	Nom.		dBA	50	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	43	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	30.0						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Find all technical drawings on our business portal http://my.daikin.eu

AHQ71-125C

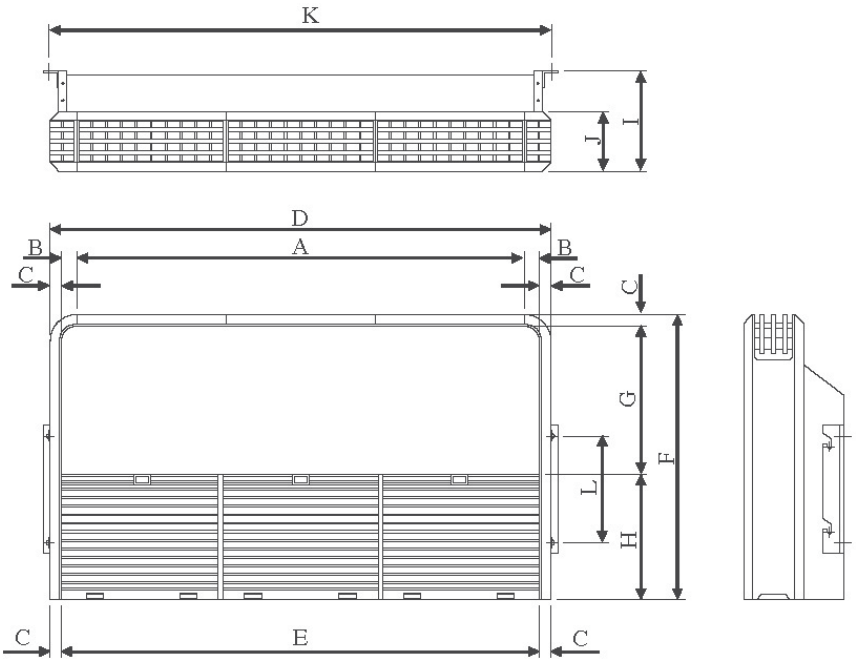
All dimensions are in mm



Model \ Dimension	A	B	C	D	E	F	G
AHQ71C	1272	1088	74	1320	268	635	259
AHQ100C	1490	1308	74	1538	268	635	259
AHQ125C	1738	1556	74	1786	268	635	259

AHQ140C

All dimensions are in mm



Model \ Dimension	A	B	C	D	E	F	G	H	I	J	L	L
AHQ140C	1750	40	36	1903	1830	680	352	292	285	140	1880	250

UNIQUE 4-WAY BLOW CEILING SUSPENDED UNIT

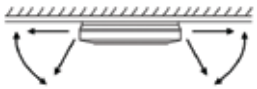
Seasonal Classic

4-way blow ceiling suspended unit

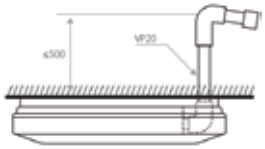
Unique Daikin unit for high rooms with no false ceilings nor free floor space

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Ideal for solid ceilings
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- 5 different discharge angles between 0 and 60°can be programmed via the remote control
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible



- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Standard drain pump with 500mm lift increases flexibility and installation speed



Efficiency data				FUQ + RZQSG	71C + 71L3V1	100C + 100L9V1	125C + 125L9V1	100C + 100L8Y1	125C + 125L8Y1
Cooling capacity	Nom.			kW	6.80	9.5	12.0	9.5	12.0
Heating capacity	Nom.			kW	7.50	10.8	13.5	10.8	13.5
Power input	Cooling	Nom.		kW	2.12	2.96	4.53	2.96	4.53
	Heating	Nom.		kW	2.08	2.99	3.95	2.99	3.95
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+		A	A+	A
		Pdesign		kW	6.80	9.50	12.00	9.50	12.00
		SEER			5.81	5.61	5.30	5.61	5.30
		Annual energy consumption		kWh	410	593	793	593	793
	Heating (Average climate)	Energy label			A	A+	A	A+	A
		Pdesign		kW	6.33	7.60			
		SCOP/A			3.90	4.01	3.85	4.01	3.85
		SCOPnet/A			-	4.02	3.86	4.02	3.86
		Annual energy consumption		kWh	2,273	2,654	2,764	2,654	2,764
Nominal efficiency	EER				3.21	3.21	2.65	3.21	2.65
	COP				3.61	3.61	3.41	3.61	3.41
	Annual energy consumption			kWh	1,060	A/A	D/B	1,480	2,265
	Energy label	Cooling/Heating			A/A	1,480	2,265	A/A	D/B

Indoor unit				FUQ	71C	100C	125C	100C	125C
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950				
Weight	Unit			kg	25	26			
Air filter	Type				Resin net with mold resistance				
Fan - Air flow rate	Cooling	High/Low		m^3/min	23/16	31/20	32.5/20.5	31/20	32.5/20.5
	Heating	High/Low		m^3/min	23/16	31/20	32.5/20.5	31/20	32.5/20.5
Sound power level	Cooling			dBA	59	64	65	64	65
	Heating			dBA	59	64	65	64	65
Sound pressure level	Cooling	High/Low		dBA	41/35	46/39	47/40	46/39	47/40
	Heating	High/Low		dBA	41/35	46/39	47/40	46/39	47/40
Control systems	Infrared remote control				BRC7C58				
	Wired remote control				BRC1D52 / BRC1E52A/B				
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220				

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	100L8Y1	125L8Y1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320			
Weight	Unit			kg	67	72	74	82	
Sound power level	Cooling			dBA	65	70		69	70
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-	54/-
	Heating	Nom.		dBA	51	57	58	57	58
	Night quiet mode	Level 1		dBA	-	49			
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15.0~46	-15~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5				
Refrigerant	Type/Charge/GWP			kg/TCO$_2$eq	R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5			
Piping connections	Liquid	OD		mm	9.52				
	Gas	OD		mm	15.9				
	Piping length	OU - IU	Max.	m	50				
		System	Equivalent	m	70				
			Chargeless	m	30				
	Additional refrigerant charge			kg/m	See installation manual				
	Level difference	IU - OU	Max.	m	15	30.0			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32		20	

EER/COP according to Eurovent 2012, for use outside EU only

Seasonal Smart

4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FUQ-C

RZQG140L9V1//L(8)Y1

BRC1E52A-B, BRC7C58

Efficiency data				FUQ + RZQG	71C + 71L9V1	100C + 100L9V1	125C + 125L9V1	71C + 71L8Y1	100C + 100L8Y1	125C + 125L8Y1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	6.8	9.5	12.0
Heating capacity	Nom.			kW	7.5	10.8	13.5	7.5	10.8	13.5
Power input	Cooling	Nom.		kW	1.68	2.46	3.54	1.68	2.46	3.54
	Heating	Nom.		kW	1.84	2.73	3.95	1.84	2.73	3.95
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A+	A++		A+
		Pdesign		kW	6.80	9.50	12.00	6.8	9.5	12
		SEER			6.50	6.11	5.61	6.5	6.11	5.61
		Annual energy consumption		kWh	367	545	749	367	545	749
	Heating (Average climate)	Energy label			A+					
		Pdesign		kW	7.60	11.30	14.13	7.6	11.3	14.13
		SCOP			4.20	4.50	4.44	4.2	4.5	4.44
		Annual energy consumption		kWh	2,534	3,516	4,456	2,534	3,516	4,456
Nominal efficiency	EER				4.05	3.86	3.39	4.05	3.86	3.39
	COP				4.08	3.95	3.42	4.08	3.95	3.42
	Annual energy consumption			kWh	840	1,230	1,770	840	1,230	1,770
	Energy label	Cooling/Heating			A/A		A/B	A/A		A/B

Indoor unit				FUQ	71C	100C	125C	71C	100C	125C
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950					
Weight	Unit			kg	25	26		25	26	
Air filter	Type				Resin net with mold resistance					
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	23/19.5/16	31/25.5/20	32.5/26.5/20.5	23/19.5/16	31/25.5/20	32.5/26.5/20.5
	Heating	High/Nom./Low		m^3/min	23/19.5/16	31/25.5/20	32.5/26.5/20.5	23/19.5/16	31/25.5/20	32.5/26.5/20.5
Sound power level	Cooling			dBA	59	64	65	59	64	65
	Heating			dBA	59	64	65	59	64	65
Sound pressure level	Cooling	High/Nom./Low		dBA	41/38/35	46/42/39	47/43/40	41/38/35	46/42/39	47/43/40
	Heating	High/Nom./Low		dBA	41/38/35	46/42/39	47/43/40	41/38/35	46/42/39	47/43/40
Control systems	Infrared remote control				BRC7C58					
	Wired remote control				BRC1D52 / BRC1E52A/B					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220					

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	71L8Y1	100L8Y1	125L8Y1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320		990x940x320	1,430x940x320	
Weight	Unit			kg	69	95		80	101	
Sound power level	Cooling			dBA	64	66	67	64	66	67
Sound pressure level	Cooling	Nom.		dBA	48	50	51	48	50	51
	Heating	Nom.		dBA	50	52	53	50	52	53
	Night quiet mode	Level 1		dBA	43	45		43	45	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50					
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5					
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5	
Piping connections	Liquid	OD		mm	9.52					
	Gas	OD		mm	15.9					
	Piping length	OU - IU	Max.	m	50	75		50	75	
		System	Equivalent	m	70	90		70	90	
			Chargeless	m	30					
	Additional refrigerant charge			kg/m	See installation manual					
	Level difference	IU - OU	Max.	m	30.0					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32		20	32	

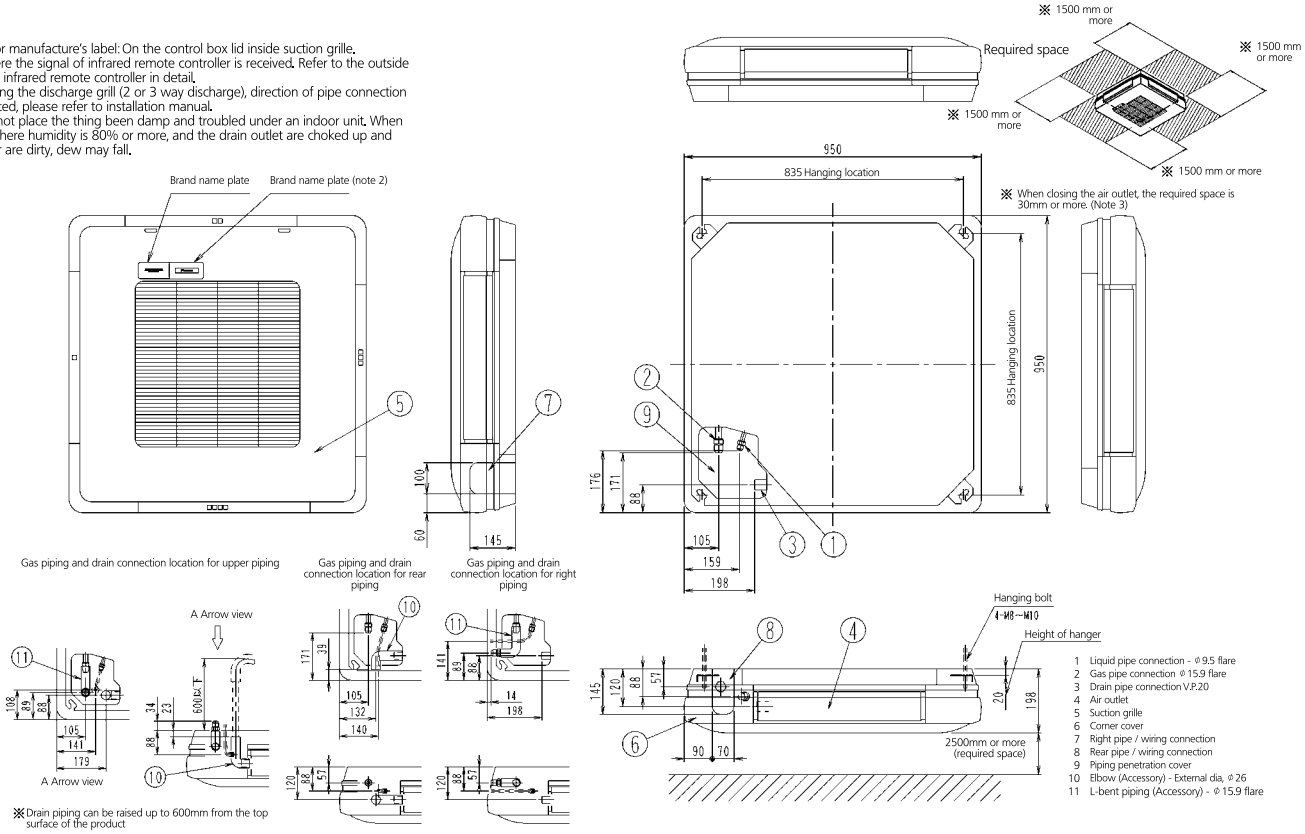
(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FUQ-C

Note:

1. Location for manufacture's label: On the control box lid inside suction grille.
2. This is where the signal of infrared remote controller is received. Refer to the outside drawing of infrared remote controller in detail.
3. When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.
4. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

(Unit: mm)



3D080135

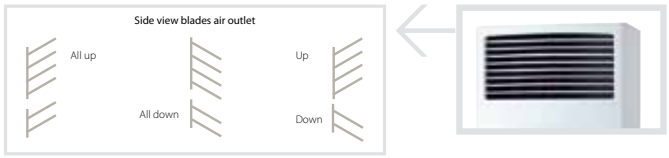
Seasonal Classic

Floor standing unit

For commercial spaces with high ceilings

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Ideal solution for commercial and busy environments
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- Improved comfort as a result of better airflow distribution from the vertical out blow which allows manual adjustment of air outlet blades at the top of the unit.
- Selectable horizontal out blow to better suit the layout of the room (via wired remote controller BRC1E52)
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- 140 class in range



Efficiency data				FVQ + RZQSG	71C + 71L3V1	100C + 100L9V1	125C + 125L9V1	140C + 140L9V1	100C + 100L8Y1	125C + 125L8Y1	140C + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.12	2.96	4.27	4.45	2.96	4.27	4.45
	Heating	Nom.		kW	2.08	2.99	3.96	4.54	2.99	3.96	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A			-	A		-
		Pdesign		kW	6.80	9.50	12.00	-	9.5	12	-
		SEER			5.50			-	5.5		-
		Annual energy consumption		kWh	433	605	764	-	605	764	-
	Heating (Average climate)	Energy label			A	A+	A	-	A+	A	-
		Pdesign		kW	6.33	7.60		-	7.6		-
		SCOP			3.86	4.01	3.85	-	4.01	3.85	-
		Annual energy consumption		kWh	2,296	2,654	2,764	-	2,654	2,764	-
Nominal efficiency	EER				3.21		2.81	3.01	3.21	2.81	3.01
	COP				3.61		3.41		3.61	3.41	
	Annual energy consumption			kWh	1,060	1,480	2,135	2,225	1,480	2,135	2,225
	Energy label	Cooling/Heating			A/A		A/B	-	A/A	C/B	-

Indoor unit				FVQ	71C	100C	125C	140C	100C	125C	140C
Dimensions	Unit	HeightxWidthxDepth		mm	1,850x600x270	1,850x600x350					
Weight	Unit			kg	39	47					
Air filter	Type				Resin net with mold resistance						
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18/16/14	28/25/22	28/26/24	30/28/26	28/25/22	28/26/24	30/28/26
	Heating	High/Nom./Low		m^3/min	18/16/14	28/25/22	28/26/24	30/28/26	28/25/22	28/26/24	30/28/26
Sound power level	Cooling			dBA	55	62	63	65	62	63	65
	Heating			dBA	55	62	63	65	62	63	65
Sound pressure level	Cooling	High/Nom./Low		dBA	43/41/38	50/47/44	51/48/46	53/51/48	50/47/44	51/48/46	53/51/48
	Heating	High/Nom./Low		dBA	43/41/38	50/47/44	51/48/46	53/51/48	50/47/44	51/48/46	53/51/48
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220						

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72	74	95	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15.0~46	-15~46					
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

Seasonal Smart

Floor standing unit

For commercial spaces with high ceilings

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FVQ71C

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B

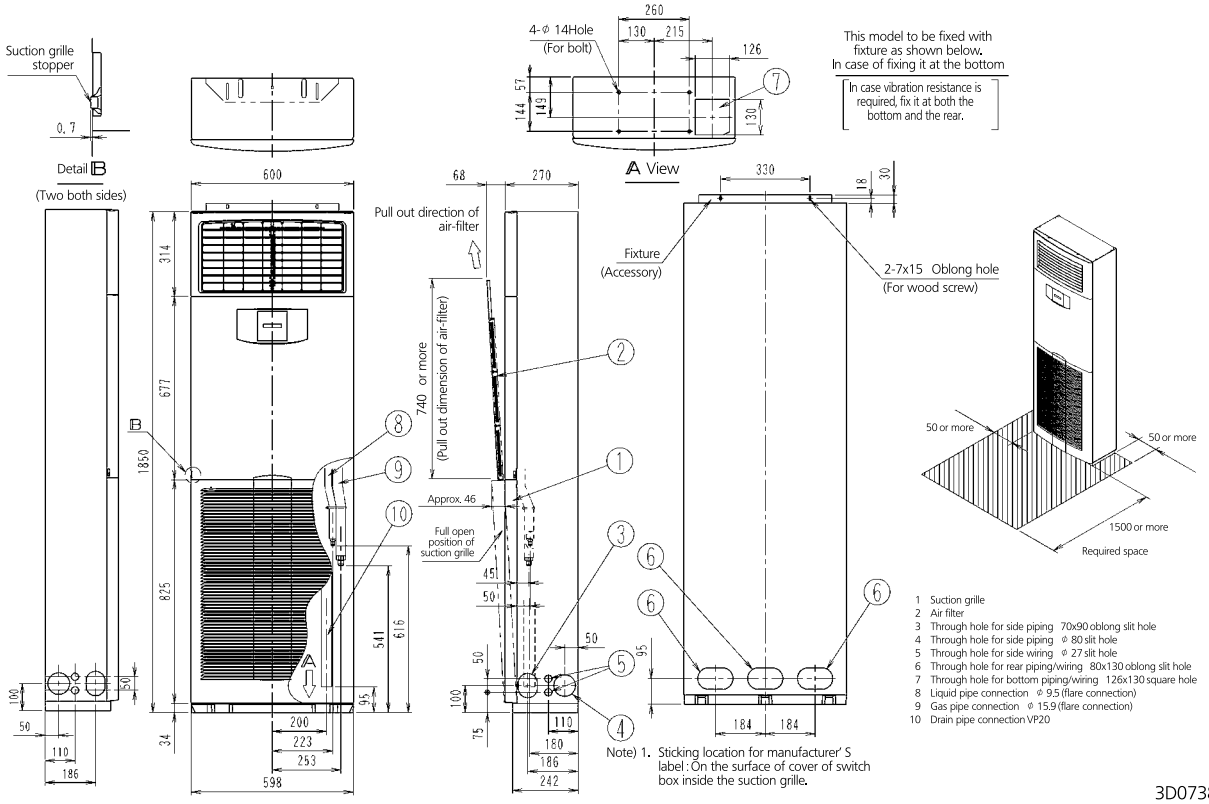
Efficiency data				FVQ + RZQG	71C + 71L9V1	100C + 100L9V1	125C + 125L9V1	140C + 140L9V1	71C + 71L8Y1	100C + 100L8Y1	125C + 125L8Y1	140C + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.02	2.49	3.74	4.17	2.02	2.49	3.74	4.17
	Heating	Nom.		kW	2.06	2.61	3.65	4.30	2.06	2.61	3.65	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+		-	A++	A+		-
		Pdesign		kW	6.80	9.50	12.00	-	6.8	9.5	12	-
		SEER			6.31	5.61		-	6.31	5.61		-
		Annual energy consumption		kWh	378	593	749	-	378	593	749	-
	Heating (Average climate)	Energy label			A+		A	-	A+		A	-
		Pdesign		kW	6.33	11.30		-	6.33	11.3		-
		SCOP			4.05	4.20	3.87	-	4.05	4.2	3.87	-
		Annual energy consumption		kWh	2,189	3,767	4,088	-	2,189	3,767	4,088	-
Nominal efficiency	EER				3.37	3.81	3.21		3.37	3.81	3.21	
	COP				3.64	4.14	3.70	3.61	3.64	4.14	3.70	3.61
	Annual energy consumption			kWh	1,010	1,245	1,870	2,085	1,010	1,245	1,870	2,085
	Energy label	Cooling/Heating			A/A			-	A/A			-

Indoor unit				FVQ	71C	100C	125C	140C	71C	100C	125C	140C
Dimensions	Unit	HeightxWidthxDepth	mm		1,850x600x270	1,850x600x350			1,850x600x270	1,850x600x350		
Weight	Unit		kg		39	47			39	47		
Air filter	Type				Resin net with mold resistance							
Fan - Air flow rate	Cooling	High/Nom./Low	m^3/min		18/16/14	28/25/22	28/26/24	30/28/26	18/16/14	28/25/22	28/26/24	30/28/26
	Heating	High/Nom./Low	m^3/min		18/16/14	28/25/22	28/26/24	30/28/26	18/16/14	28/25/22	28/26/24	30/28/26
Sound power level	Cooling		dBA		55	62	63	65	55	62	63	65
	Heating		dBA		55	62	63	65	55	62	63	65
Sound pressure level	Cooling	High/Nom./Low	dBA		43/41/38	50/47/44	51/48/46	53/51/48	43/41/38	50/47/44	51/48/46	53/51/48
	Heating	High/Nom./Low	dBA		43/41/38	50/47/44	51/48/46	53/51/48	43/41/38	50/47/44	51/48/46	53/51/48
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B							
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50/60 / 220-240/220							

Outdoor unit					RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm		990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg		69	95			80	101		
Sound power level	Cooling			dBA		64	66	67	69	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA		48	50	51	52	48	50	51	52
	Heating	Nom.		dBA		50	52	53		50	52	53	
	Night quiet mode	Level 1		dBA		43	45			43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-15~50							
	Heating	Ambient	Min.~Max.	°CWB		-20~15.5							
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP					R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5			R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		
Piping connections	Liquid	OD		mm		9.52							
	Gas	OD		mm		15.9							
	Piping length	OU - IU	Max.	m		50	75			50	75		
		System	Equivalent	m		70	90			70	90		
			Chargeless	m		30							
	Additional refrigerant charge			kg/m		See installation manual							
	Level difference	IU - OU	Max.	m		30.0							
Power supply	Phase / Frequency / Voltage			Hz / V		1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A		20	32			20	32		

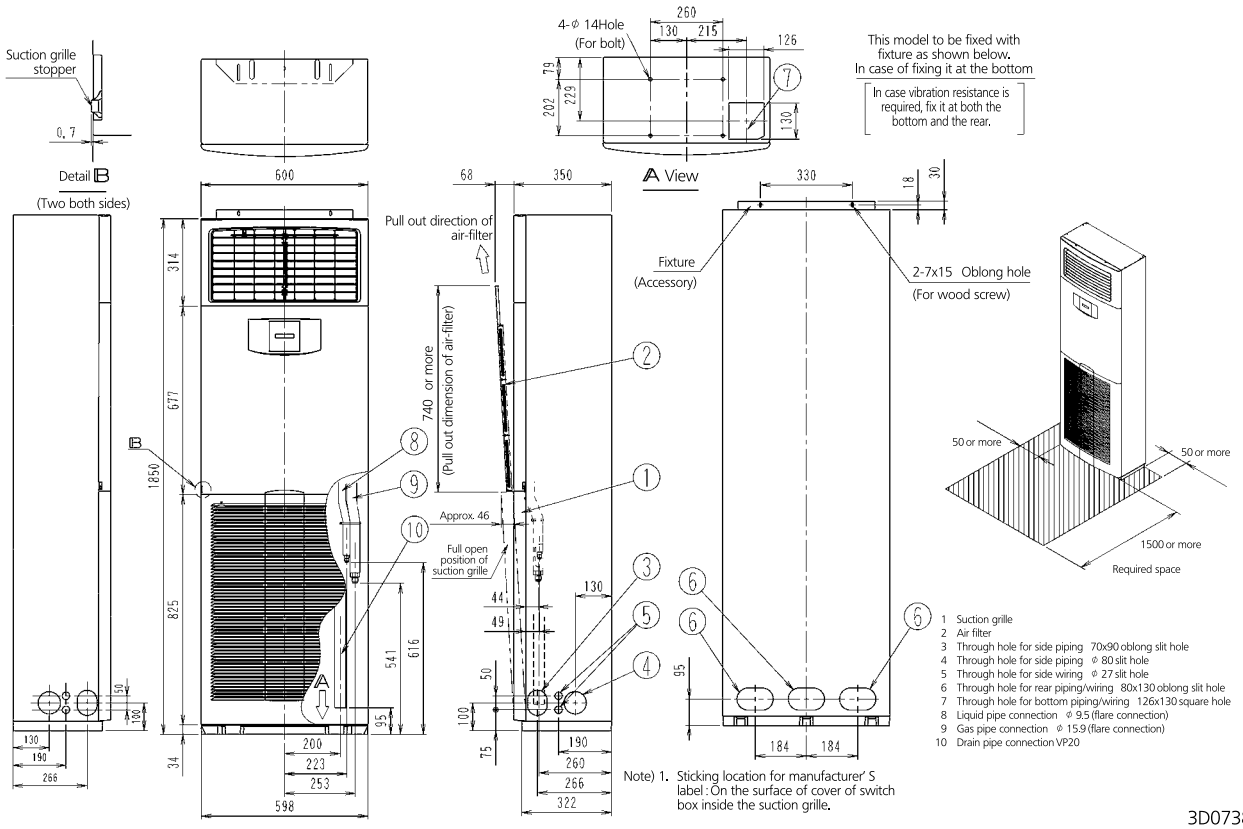
(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FVQ71C



3D073846A

FVQ100-125-140C



3D073847

Concealed floor standing unit

Designed to be concealed in walls

› Ideal for installation in offices, hotels and residential applications
› Discretely concealed in the ceiling: only the suction and discharge grilles are visible
› Its low height (620 mm) enables the unit to fit perfectly beneath a window
› Requires very little installation space as the depth is only 200 mm

› High ESP allows flexible installation

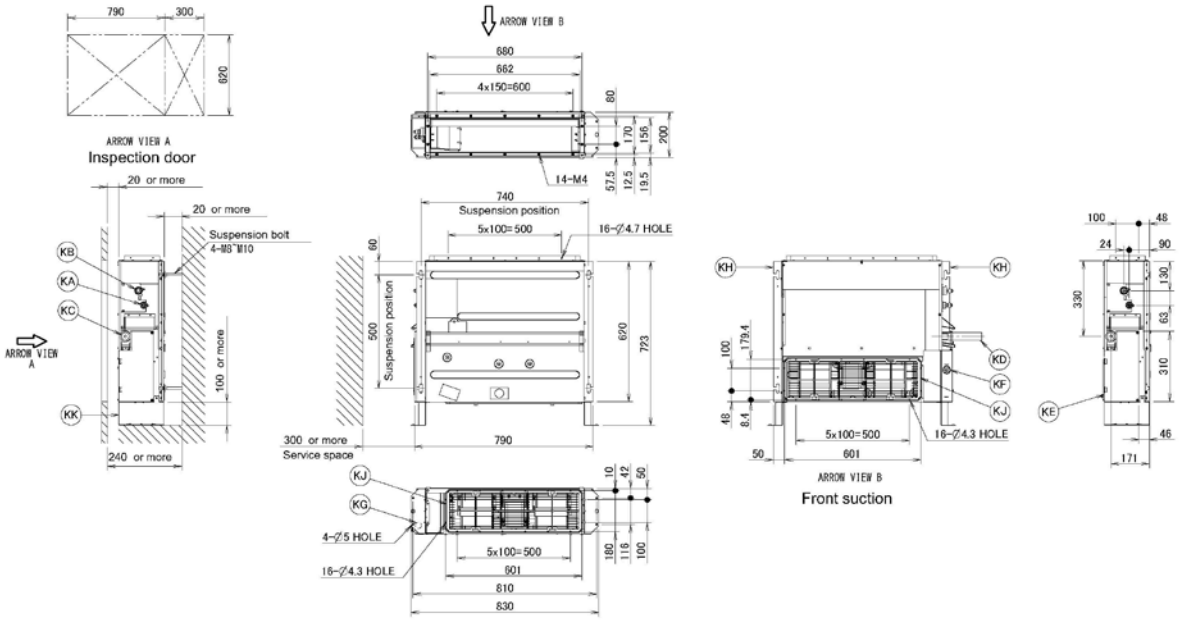
Efficiency data				FNQ + RXS	25A + 25L3	35A + 35L3	50A + 50L	60A + 60L
Cooling capacity	Nom.			kW	2.6	3.4	5.0	6.0
Heating capacity	Nom.			kW	3.20	4.00	5.80	7.00
Power input	Cooling	Nom.		kW	0.69	1.11	1.49	2.24
	Heating	Nom.		kW	0.80	1.15	1.74	2.25
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+			A
		Pdesign		kW	2.60	3.40	5.00	6.00
		SEER			5.63	5.65	5.72	5.51
		Annual energy consumption		kWh	162	211	306	381
	Heating (Average climate)	Energy label			A+			
		Pdesign		kW	2.80	2.90	4.00	4.60
		SCOP			4.24	4.05	4.09	4.16
		Annual energy consumption		kWh	925	1,002	1,369	1,548
Nominal efficiency	EER				3.77	3.06	3.35	2.68
	COP				4.00	3.48	3.34	3.11
	Annual energy consumption			kWh	345	556	746	1,119
	Energy label	Cooling/Heating			A/A	B/B	A/C	D/D

Indoor unit				FNQ	25A	35A	50A	60A
Dimensions	Unit	HeightxWidthxDepth		mm	720 (2)x750x200		720 (2)x1,150x200	
Weight	Unit			kg	23		30	
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	8.7/8/7.3		16.0/14.8/13.5	
	Heating	High/Nom./Low		m^3/min	8.7/8/7.3		16.0/14.8/13.5	
Fan - External static pressure	High/Nom.			Pa	48/30		49/40	
Sound power level	Cooling			dBA	53		56	
Sound pressure level	Cooling	High/Nom./Low		dBA	33/31/28		36/33/30	
	Heating	High/Nom./Low		dBA	33/31/28		36/33/30	
Control systems	Infrared remote control				BRC4C65			
	Wired remote control				BRC1E52A/B / BRC1D52			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220			

Outdoor unit				RXS	25L3	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x825x300	
Weight	Unit			kg	34		47	48
Sound power level	Cooling			dBA	59	61	62	
	Heating			dBA	59	61	62	
Sound pressure level	Cooling	High/Low/Silent operation		dBA	46/-/43	48/-/44	48/44/-	49/46/-
	Heating	High/Low/Silent operation		dBA	47/-/44	48/-/45	48/45/-	49/46/-
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/1.0/2.1/2,087.5	R-410A/1.2/2.5/2,087.5	R-410A/1.7/3.5/2,087.5	R-410A/1.5/3.1/2,087.5
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.5		12.7	
	Piping length	OU - IU	Max.	m	20		30	
		System	Chargeless	m	10			
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	16		20	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Dimensions indoor unit include installation legs (3) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FNQ25-35A



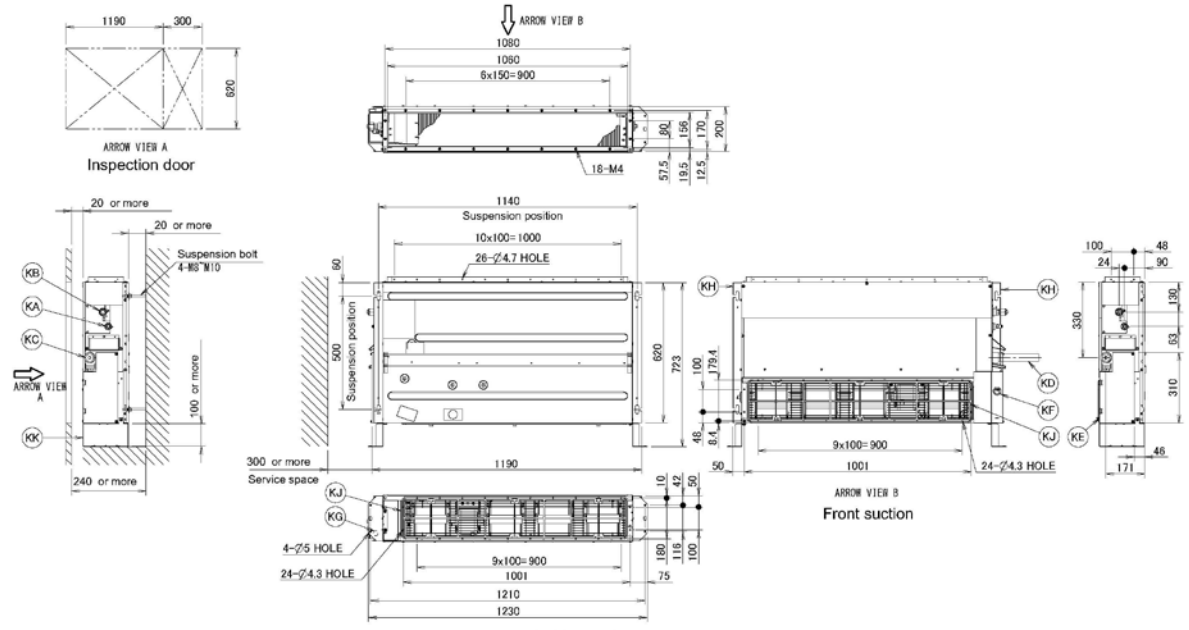
Item	Name	Description
KA	Liquid pipe connection port	Ø6.40 flared connection
KB	Gas pipe connection port	Ø9.50 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D096751

Detailed technical drawings

FNQ50-60A

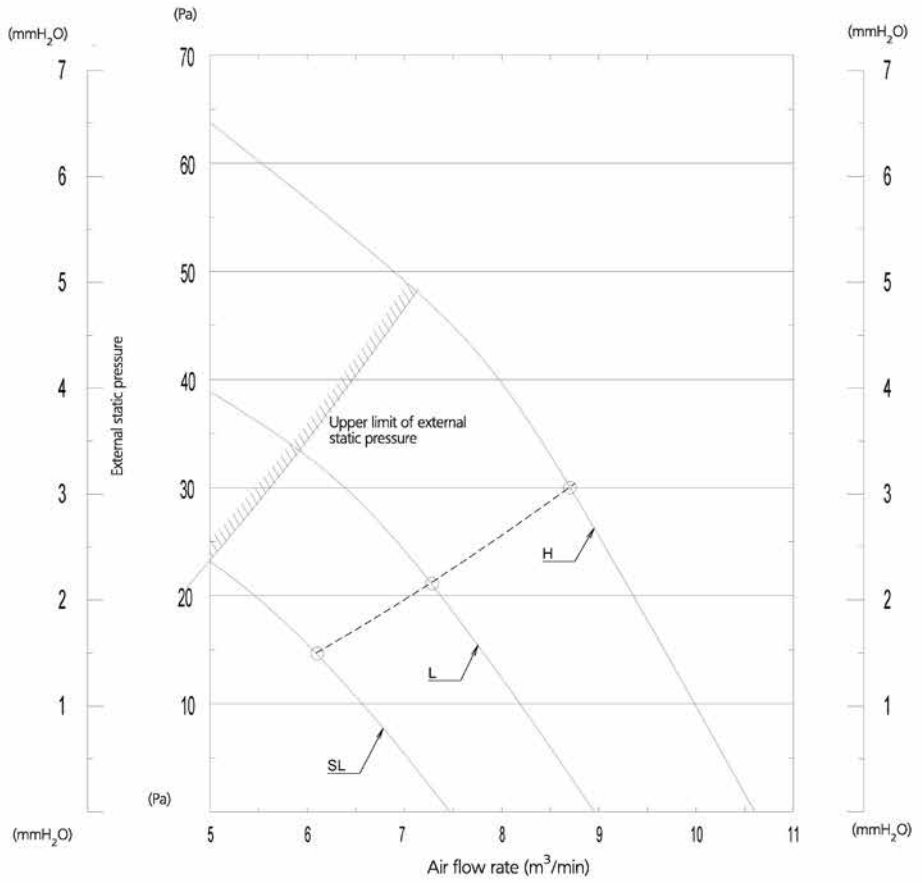


Item	Name	Description
KA	Liquid pipe connection port	Ø6.4 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D096750

FNQ25-35A



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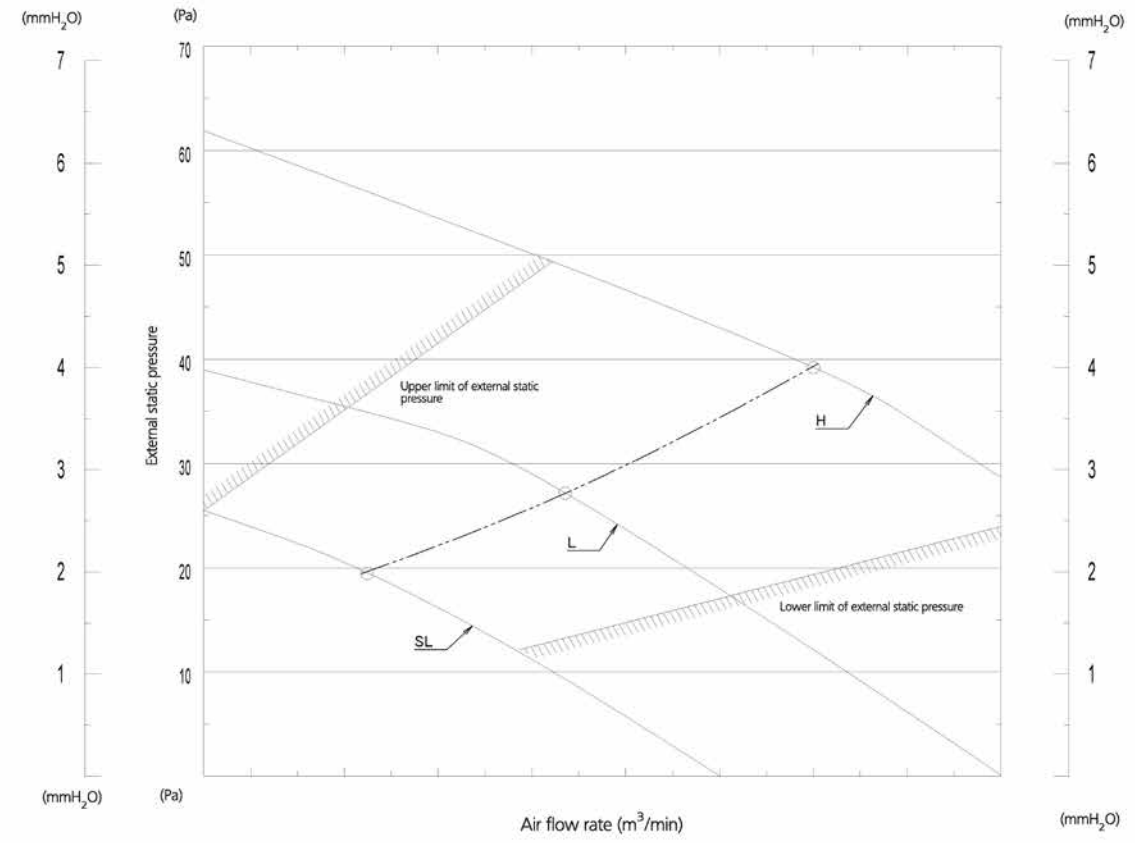
FNQ50A



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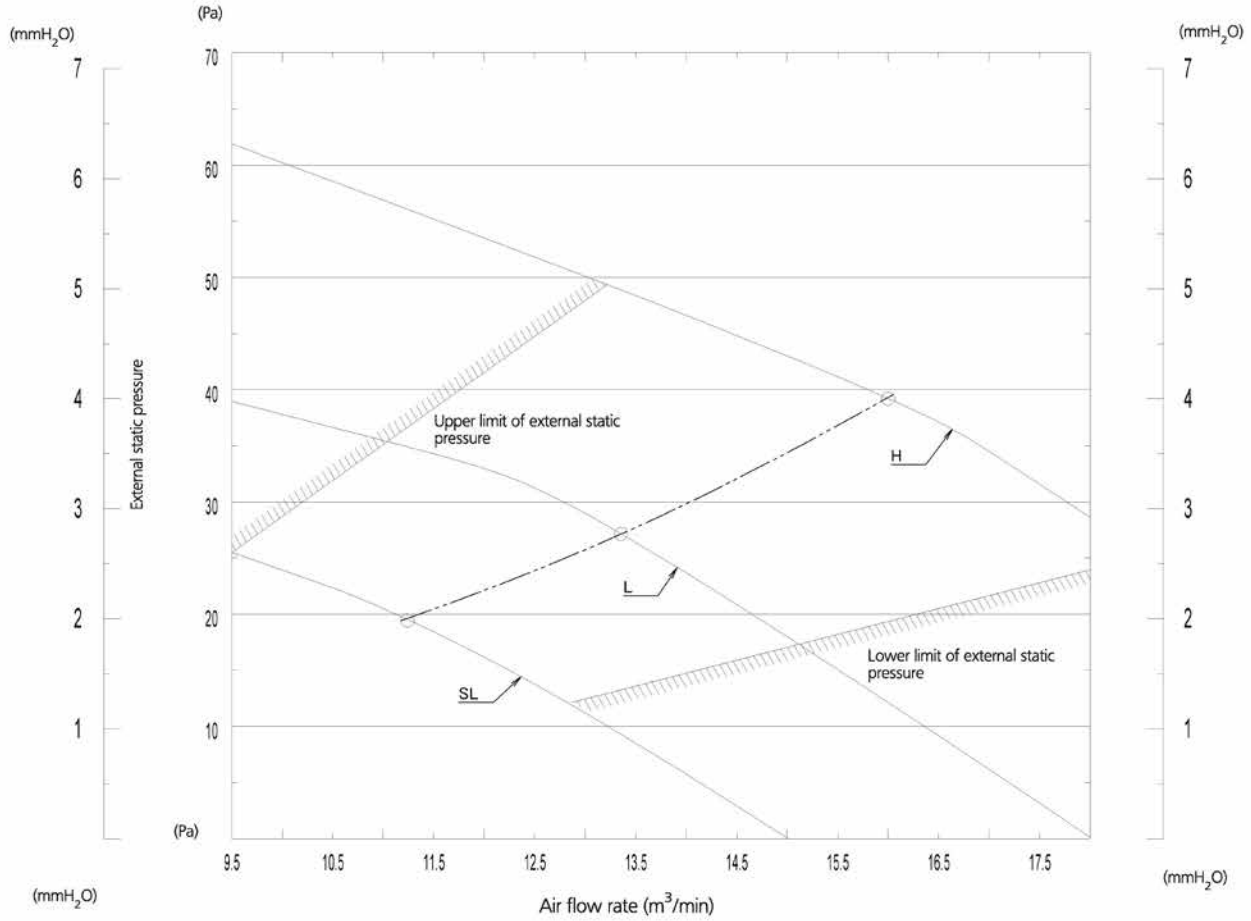
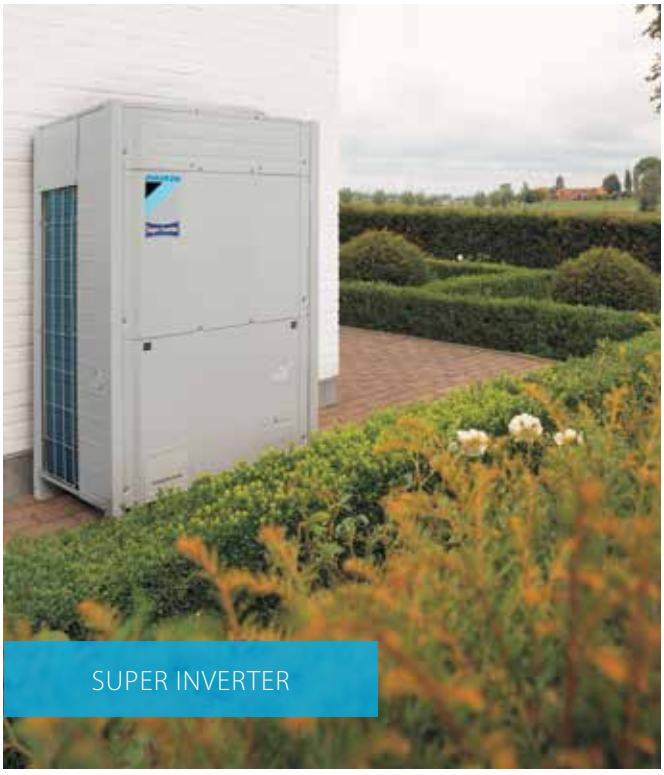
FNQ60A



3D081329A

SEASONAL SMART

SEASONAL CLASSIC



SUPER INVERTER

Outdoor units

A range of industry leading technology outdoor units

Benefits for the installer

› Less piping required as all the indoor units can be connected to one single outdoor unit.

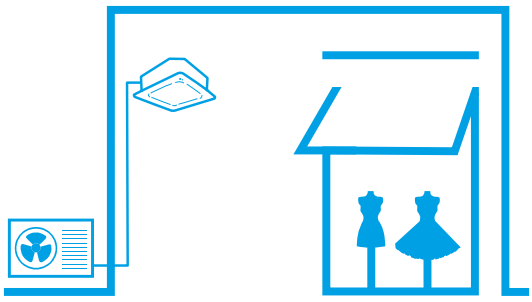
Benefits for the consultant

› Ideal solution for long or irregularly shaped rooms
› Up to 4 indoor units can be connected to a single outdoor unit
› The air flow is evenly spread into the area, as smaller indoor units are installed in different locations around the room

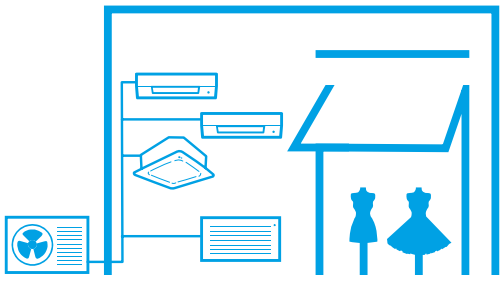
Benefits for the end user

› All the indoor units are controlled at the same time and by using a single wired remote controller
› Only 1 outdoor unit on a roof, terrace or against an outside wall to control up to 4 indoor units
› Same comfortable feeling throughout the entire room

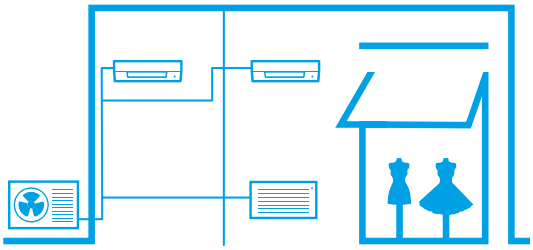
Pair solution



Twin, triple, double twin solution



Multi solution

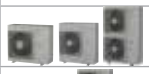


Products overview outdoor units

Pair, twin, triple & double twin application

Sky Air

Capacity class

System	Type	Model	Product name		PG	71	100	125	140	200	250
						6.8 kW	9.5 kW	12.0 kW	13.4 kW	20.0 kW	24.1 kW
Air cooled	Heat pump	Seasonal Smart R-32 BLUEVOLUTION - Industry leading technology extended with R-32 range - 68% lower GWP compared to R-410A products - 10% lower refrigerant charge compared to R-410A - Minimum 5% more efficient in cooling than R-410A - Quiet mode: set via the remote control for example during night time, ... - Re-use technology - Operation range down to -20°C in heating and -15°C in cooling - Variable Refrigerant Temperature	RZAG-LV1 NEW		106	●	●	●	●		
		Seasonal Smart - Industry leading technology for commercial applications - Dedicated solution for infrastructure cooling - Variable Refrigerant Temperature - Maximum piping length up to 75m - Re-use technology - Extended operation range down to -20°C in heating and -15°C in cooling - Pair, twin, triple and double twin application	RZQG-L9V1		107	●	●	●	●		
			RZQG-L(8)Y1		107	●	●	●	●		
		Seasonal Classic - Technology and comfort combined for commercial applications - Maximum piping length up to 50m - Re-use technology - Operation range down to -15°C both cooling and in heating - Pair, twin, triple and double twin application	RZQSG-L3/ L9V1		122	●	●	●	●		
			RZQSG-L(8)Y1		122		●	●	●		
		Super Inverter - Packaged system for commercial applications - For large commercial applications - Re-use technology - Pair, twin, triple and double twin applications	RZQ-C		131					●	●
		Standard outdoor unit - Ideal solution for busy environments and small shops - Easy-to-mount outdoor units: roof, terrace or wall - Outdoor units with swing or scroll compressor - Exclusively offered for pair applications	AZQS-B8V1		136	●	●	●	●		
			AZQS-BY1		136		●	●	●		

Multi model and VRV application

Capacity class

System	Type	Model	Productname		PG	40	50	52	68	80	90	4HP	5HP	6HP	8HP	10HP	12HP
						4.0kW	5.0kW	5.2kW	6.8kW	8.0kW	9.0kW	12.1kW	14.0kW	15.5kW	22.4kW	28.0kW	33.5kW
Air cooled	Heat pump	Multi model application - Up to 5 indoor units can be connected to a single outdoor unit - Individual control of the indoor units - Different types of indoor units can be combined in one installation - Phased installation possible - Maximum total piping length of 25m offers solution for light commercial or residential applications	2MXS-H		143	●	●										
			3MXS-K		144	●											
			3MXS-E		144			●									
			3MXS-G		145				●								
			4MXS-F		146				●								
			4MXS-E		147					●							
			5MXS-E		147						●						
		The most compact VRV › Compact and lightweight single fan design saves space and is easy to install › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV of stylish indoor units (Daikin Emura, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S-series Compact		152							●	●				
		Space saving solution without compromising on efficiency › Space saving trunk design for flexible installation › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV of stylish indoor units (Daikin Emura, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQ-TV1/TY1 VRV IV S-series	 TV1	153							●	●	●			
				TY1	153							●	●	●	●	●	●
		The invisible VRV › Unique VRV heat pump for indoor installation › Total flexibility for any shop location and building type as the outdoor unit is invisible and split up in 2 parts › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation and Biddle air curtains	SB.RKXYQ-T* VRV IV i-series		159								●		● 2nd half 2016		

Benefits overview outdoor units

			BLUEVOLUTION RZAG-LV1	RZQG-L9V1/ L(8)Y1-	RZQSG-L3/9V1/L(8)Y1	RZQ-C	AZQS-B8V1/BY1	MXS-E/F/ G/H/K	RXYSCQ-TV1	RXYSQ-TV1/ TY1	SB.RKXYQ
											
We care icons	Seasonal efficiency - Smart use of energy	Seasonal efficiency gives a more realistic indication on how efficient air conditioners operate over an entire heating or cooling season.	●	●	●	●	●	●			
	Inverter technology	In combination with inverter controlled outdoor units	●	●	●	●	●	●	●	●	●
	Replacement technology	Service and maintenance with R-22 is prohibited after 1/01/2015, meaning repairs will be impossible to R-22 systems. Avoid unexpected downtime for your customers and replace these systems now!	●	●	●	●	●				
Comfort	Night quiet	Lowers the operation sound of the outdoor unit automatically.	●	●	●			●	●	●	●
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	●	●	●	●	●	●	●	●	●
Other functions	Variable refrigeration temperature	The intelligent systems ensures highest energy savings with additional comfort to better suit application requirements.	●	●					●	●	●
	Twin/triple/double twin application	2, 3 or 4 indoor units can be connected to only 1 outdoor unit even if they have different capacities. All indoor units operate within the same mode (cooling or heating) from one remote control.		●	●	●					
	Multi model application	Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.						●			
	VRV for residential application	Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.							●	●	●
	Swing compressor	Outdoor units are fitted with a swing compressor, renowned for its low noise and high reliability	●	●	●	●	●	●			
	Scroll compressor	Outdoor units are fitted with a scroll compressor, renowned for its low noise and high energy efficiency							●	●	●
	Guaranteed operation down to -20°C	Daikin is suitable for all climates, even withstanding severe winter conditions with an operation range down to -20°C.	●	●					●	●	●
	Infrastructure cooling	For high sensible, infrastructure cooling applications, dedicated infrastructure cooling settings and allowing asymmetric combinations enhance the system's reliability.		●							

Sky air outdoor units meet customers' every need for light commercial applications, from high specification, tailored solutions to primary needs for cooling and heating

	Seasonal Smart R-32 BLUEVOLUTION 	**Seasonal Smart** 	**Seasonal Classic** 	**Super inverter** 
	› Industry-leading technology extended with R-32 products › Lowest environmental impact with R-32 refrigerant › 10% lower refrigerant charge › Minimum 5% more efficient in cooling compared to R-410A units	› For all types of commercial applications, including infrastructure cooling › Best efficiency! › Most flexible installation › Widest range of connectable indoor units	› For all types of commercial applications › Good value for money: very efficient and comfortable indoor units	› Packaged system for large commercial applications
Seasonal efficiency	Cooling / Heating Up to A++ / Up to A++	Cooling / Heating Up to A++ / Up to A++	Cooling / Heating Up to A++ / Up to A+	N/A
Max. piping lenght between indoor and outdoor	Up to 75m		Up to 50m	Up to 100m
Operation range Cooling	-15°C ~ 50°C		-15°C ~ 46°C	-5°C ~ 46°C
Operation range Heating	-20°C ~ 15.5°C		-15°C ~ 15°C	
Infrastructure cooling		✓		
1. Variable Refrigerant Temperature	✓	✓	✓	
2. Customizable Variable Refrigerant Temperature	✓	✓		
Connectable indoor units	 High COP round flow cassette	 Floor standing unit  (High) Round flow cassette  Ceiling suspended unit  Concealed floor standing unit  4-Way blow ceiling suspended cassette  Fully flat cassette Wall mounted unit  Concealed ceiling unit		
Pair application	✓	✓	✓	
Twin/triple/double twin		✓	✓	✓
Multi (max. number of connectable units)				

Siesta Sky Air 	**Multi model** 	**VRV IV S-series** 	**VRV IV i-series** 
› Basic cooling/ heating solution for small shops	› Individual control of the indoor units › Phased installation possible	› Compact and lightweight single fan design saves space and is easy to install › Covers all thermal needs of a building › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	› Unique VRV for indoor installation › Covers all thermal needs of a building › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature
Cooling / Heating Up to A / Up to A	N/A	N/A	N/A
Up to 50m	Up to 25m	Up to 50m (30m for RXYSCQ)	Up to 90m
-15°C ~ 46°C	10°C ~ 46°C	-5°C ~ 46°C (up to 52°C for 8/10/12)	-5°C ~ 46°C
-15°C ~ 15°C	-15°C ~ 18°C	-20°C ~ 15,5°C	-20°C ~ 15,5°C
		✓	✓
		✓	✓
 4-Way blow ceiling suspended cassette  Concealed ceiling unit  Ceiling suspended unit	 Daikin Emura  Daikin Nexura  Fully flat cassette  Round flow cassette  Wall mounted unit  Flexi type  Concealed ceiling unit  Ceiling suspended unit		Only VRV indoors
✓			
	✓ (5)	✓ (9)	✓ (only VRV indoor)

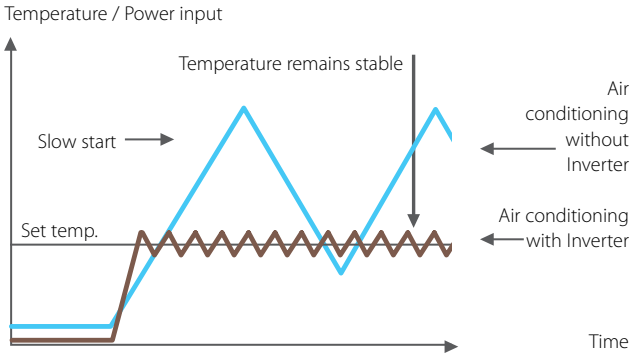
Maximum efficiency and comfort

Inverter control

Daikin's **inverter technology** is a **true innovation** in the field of climate control. The principle is simple: inverters adjust the power used to suit the actual requirement - no more, no less! This technology provides two clear benefits:

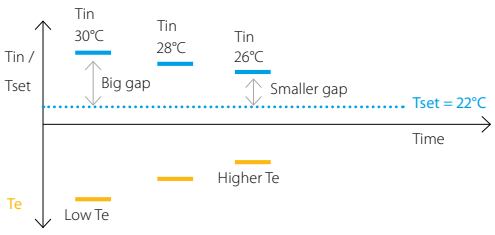
› Comfort: The inverter repays its investment many times over by improving comfort. An air conditioning system with **an inverter continuously adjusts its cooling and heating output** to suit the temperature in the room, thus **improving comfort levels**. The inverter reduces system start-up time, so the required room temperature is reached more quickly. As soon as the correct temperature is reached, the inverter ensures that it is constantly maintained.

› Energy efficient: Because an inverter **monitors and adjusts** the ambient temperature whenever needed, **energy consumption drops by 30%** compared with a traditional on/off system.



Variable refrigerant temperature

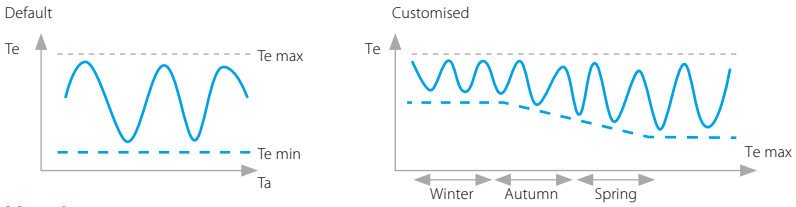
1. Operates with variable refrigerant temperature: all Daikin Sky Air outdoor units are able to adapt their operation to meet your unique cooling and heating requirements, without comprimising efficiency.



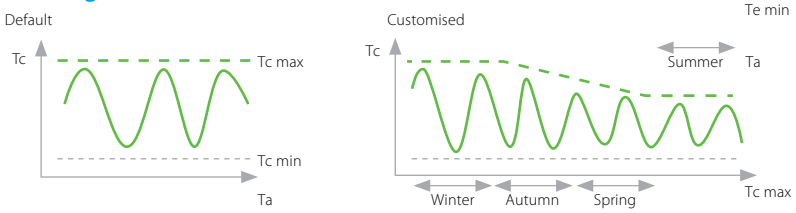
2. Go one step further in improving comfort and efficiency by having the possibility to customize the settings at time of installation. These special settings allow the boundaries of fluctuation of refrigerant's evaporating and condensing temperature to be customized to fit the application.

Variable Refrigerant Temperature

Cooling



Heating



Tin = indoor temperature / Tset = setpoint / Te = evaporating temperature of refrigerant
Tc = condensing temperature of refrigerant / Ta = ambient temperature

Replacement technology

The quick and quality way of upgrading

R-22 and R-407C systems

VRV-Q benefits to increase your profit

Optimise your business

Less installation time

Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

Lower installation costs

Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

Replace non-Daikin systems

NON DAIKIN → DAIKIN

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

Easy as one-two-three

A simple solution for replacement technology enables you to handle more projects for more customers in less time and offer them the best price! Everybody gains.

The benefits will convice your customer

- ☑ To prevent unexpected breakdown
- ☑ To lower running costs
- ☑ To protect the environment
- ☑ To improve comfort

Your copper pipes will last for multiple generations

- copper pipes used in air conditioning systems tested by Daikin will last over 60 years after installation.

- Japan/China have replaced with VRV Q-series already 10 years ago!

Umeda Center Building, Japan
- original A/C system: 20 years in use
- replacement with VRV Q-series: 2006 - 2009
- capacity up from 1620HP to 2322HP
- SHASE renewal award: 2013 (1st)

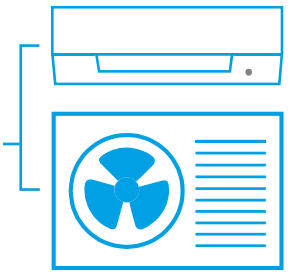
How does it work?

The Daikin low-cost upgrade solution

! Replace indoor units and BS boxes

Contact your local dealer to check compatibility in case you need to keep the indoor units.

! Replace outdoor units



Learn more about Daikin replacement solutions at www.daikineurope.com/minisite/r22

Replacement technology

Procedure for Split / Sky Air

Re-use of the existing pipe work

Check the specification of existing pipe: pressure, diameter and length. Please see NOTE 1.

No → Use new pipe for installation.

Yes

- The existing piping has:
  - NO damage, scratches, dents or fractures
  - separate insulation for the liquid and gas pipe.
- The existing unit has no history of compressor breakdown.

No → Use new pipe for installation.

Yes

Confirm operation and the possibility of using the pump down operation.

No → Clean the pipe work using the appropriate equipment.

Yes

Perform cooling operation for 30 min.
Then execute pump down operation.

Remove existing air conditioner.

Check the contamination level of the oil inside the pipe. See NOTE 2.

No → Clean the pipe work using the appropriate equipment.

OK

Flare connection MUST be redone by using the flare nut included with the new air conditioner (for R-410A).
See NOTE 3

Install the new air conditioner
(Please refer to installation manual before doing so).

Re-use of the existing wiring

Check if the specifications of the installed wiring meet the requirements of the new unit (type, quantity, …).

No → Use new wiring for installation.

Yes

Check that the wiring does not have any scratches.
Check that the wiring-ground and wiring-wiring insulation has a resistance higher than 100MΩ. Measurement needs to be performed with a 500V megger.

No → Use new wiring for installation.

Yes

Possible to re-use wiring.

NOTE 1/ Pipe specifications

1. Pipe thickness

Outside diameter (mm)	Material	Thickness (mm)
6.4	O	0.8
9.5	O	0.8
12.7	O	0.8
15.9	O	1.0
19.1	1/2H	1.0

O: annealed
1/2H: half hard

2. Capacity class and pipe diameter

	Liquid	6.4			9.5		12.7	
	Gas	9.5	12.7	15.9		19.1	15.9	19.1
Split	2.0-4.2kW	•	o	x	x	x	x	x
	5.0-6.0kW	x	•	o	x	x	x	x
	7.1kW	x	x	•	Δ	x	x	x
Sky Air	7.1kW	x	Δ	Δ	•	x	Δ	x
	10.0-14.0kW	x	x	Δ	•	o	Δ	Δ
	20.0-25.0kW	Refrigerant pipe size-up required. Please consult the RZQ-C installation manual.						

- • Possible (Standard condition)
- o Possible (With no impact on chargeless length* and total length)
- Δ Possible (With impact on chargeless length* and total length)
- x Impossible

refer to NOTE 1.3 for more information

3. Chargeless length* and total length

Split	Liquid pipe	7.1kW
Chargeless length	6.4mm	10m
	9.5mm	4m
Max. total length	6.4mm	30m
	9.5mm	12m

If the installation requires longer piping length than chargeless length, add refrigerant at the rate of 20g/m (liquid pipe: 6.4mm), 50g/m(liquid pipe: 9.5mm)

Sky Air (RZQG)	Liquid pipe	71	100	125-140
Chargeless (equivalent)	6.4mm	10m (15m)		
	9.5mm	30m (40m)		
	12.7mm	15m (20m)		
Max. total length (equivalent)	6.4mm	10m (15m)		
	9.5mm	50m(70m)	75m (95m)	
	12.7mm	25m(35m)	35m(45m)	

Sky Air (RZQSG)	Liquid pipe	71	100	125-140
Chargeless (equivalent)	6.4mm	10m (15m)		
	9.5mm	25m (35m)		
	12.7mm	10m (15m)		
Max. total length (equivalent)	6.4mm	10m (15m)		
	9.5mm	30m (50m)	50m (70m)	
	12.7mm	15m (25m)	25m (35m)	

Follow the installation manual for additional refrigerant charge.
* Maximum piping length achievable without additional refrigerant charge.
For more detailed information on RZQ-C consult the installation manual.

Multi model application	Liquid pipe	Chargeless length	Max. Total length
2MXS40	6.4mm	20m	30m
2MXS50			
3MXS52		30m	50m
3MXS68			
4MXS68			60m
4MXS80			70m
5MXS90			75m

If the installation requires longer piping length than chargeless length, add refrigerant at the rate of 20g/m (Liquid pipe: 6.4mm). Should any 9.5 mm piping be in place, use the following formula to determine the required additional refrigerant charge.

ARC=Yx50+(X-30)x20
ARC: additional refrigerant charge (g)
X: 6.4mm liquid piping length (m)
Y: 9.5mm liquid piping length (m)

In case of 4MX80:
If 0 < ARC < 800 g, apply ARC
If ARC > 800 g, apply 800 g (MAX)
If ARC < 0 g, no additional refrigerant charge required

In case of 5MX90:
If 0 < ARC < 900 g, apply ARC
If ARC > 900 g, apply 900 g (MAX)
If ARC < 0 g, no additional refrigerant charge required

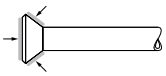
NOTE 2/ Contamination level of the oil

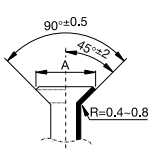
Check the colour of the oil in the existing piping by dipping a piece of white paper or cloth into it. If the oil is colourless, the re-use of the pipe work in place is allowed. An oil checking card can also be used for this purpose (reference nr = 4PW18628-1).

NOTE 3/ Flare connection

Precautions for flare connection:

- Please refer to the table for the dimensions for processing flares and for the tightening torques. (Too much tightening will endup splitting of the flare.)
- When connecting tha flare nut, apply refrigerating machine oil to the flare (inside and outside) and first screw the nut 3 or 4 turns by hand.
- After completing the installation, carry out a gas leak inspection of the piping connections with nitrogen and such.



Piping size	Flare nut tightening torque	All dimensions for processing flares (mm)	flare shape
Ø6.4	14.2~17.2 N•m (144~176 kgf•cm)	8.7~9.1	
Ø9.5	32.7~39.9 N•m (333~407 kgf•cm)	12.8~13.2	
Ø12.7	49.5~60.3 N•m (504~616 kgf•cm)	16.2~16.6	
Ø15.9	61.8~75.4 N•m (630~770 kgf•cm)	19.3~19.7	
Ø19.1	97.2~118.6 N•m (989.8~1208 kgf•cm)	23.6~24.0	

NOTE 4/ Sky Air installation:

In case of twin, triple and double twin installations, a strength pressure test must be performed on the existing piping and piping joints.This test needs to be executed according to EN 378-2 (2009), chapter 6.3.3. The acceptance criteria for the test is that no permanent deformation shall occur in the piping and piping joints at a test pressure of minimum 1.1xPS (PS = maximum allowable pressure). Only in that case is the re-use of the piping and piping joints possible (please check the nameplate of the replacement unit to determine the maximum allowable pressure PS).

The strength pressure test should be followed by a tightness test, according to EN 378-2 (2009), chapter 6.3.4.

NOTE 5/ Precautions for refrigerant piping

- Foreign material (air, mineral oil, moisture, ...) should be prevented from getting mixed into the system. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Only use R-410A as a refrigerant.

  Installation tools: use only installation tools (gauge manifold charge hose, etc.) that are appropriate for R-410A installations so as to withstand the pressure.
  Vacuum pump: use a 2-stage vacuum pump with a non-return valve. Make sure the pump oil does not flow back into the system while the pump is not working. Use a vacuum pump which can evacuate to -100.7 kPa (5 Torr. -755 mmHg).
- If the local piping has welded connections, check them for gas leaks..

Seasonal Smart: The premium solution

RZQG-L9V1/L(8)Y1

Daikin is leading the way towards more efficient and cost-effective comfort solutions with its Sky Air product range

Why choose Seasonal Smart?

- ☑ Best in class quality
- ☑ Highest seasonal efficiency values when compared with other systems under the same test conditions
- ☑ Advanced and leading technologies
- ☑ Flexible as no other

Top seasonal efficiency

- Inverter control logic optimises efficiency
- Efficiency is enhanced even further thanks to the Variable Refrigerant Temperature settings
- Using a highly efficient swing compressor
- Losses are reduced in standby mode
- A++ label both in heating and cooling FCQHG71/100F + RZQG71/100L9V1
- Available with R-32 increasing cooling effiency with 5% BLUEVOLUTION

Advanced and leading technologies

- Variable Refrigerant Temperature to suit application requirements better: eliminating cold draughts by varying the evaporating temperature.

Flexible as no other

- Reliable, efficient and flexible solution offered to meet the demanding needs of infrastructure cooling environments
- Long pipe runs (up to 75m)
- Wide operation range for cooling (down to 15°C) and for heating (down to -20°C)
- Replacement technology: re-use of existing pipework of R-22 and R-407C systems
- Wide range of indoor units connectable: wall mounted, concealed ceiling, cassette ...

Benefits for the installer

Whatever the installation requirements or restrictions, Seasonal Smart will be able to meet them thanks to:

- R-22/R-407C replacement technology
- Wide operation range for cooling (down to -15°C) to suit even infrastructure cooling applications
- Wide operation range for heating (down to -20°C) to be able to deliver heating in the most severe winters.
- Long pipe runs of up to 75m
- Easy accessibility to the gas cooled PCB (L9V1)
- Easy to install discreetly against the wall thanks to the limited depth of the unit
- Wide range of indoor units available

Benefits for the consultant

- Market leader in terms of seasonal efficiency. The unit operates extremely efficiently throughout the whole summer and winter.
- R-22/R-407C replacement technology: delivering major energy savings, rapid payback and cost-effective upgrade solution with minimum downtime
- This system has been optimised to perform well in the most severe conditions.
- Wide range of indoor units available to suit buildings with or without false ceilings

Benefits for the end user

- Market leader in terms of seasonal efficiency which reduces your customers' electricity bills to a minimum all year round
- Possibility to reduce sound level via settings on the remote controller
- Wide range of stylish, comfortable and silent indoor units available
- Possibility of integrating the unit into a Building Management system
- Reliable system in all weather conditions

Infrastructure cooling with Seasonal Smart

Daikin is the world leader when it comes to heating and cooling. With over 90 years of innovation and engineering expertise in specialised cooling, Daikin offers a Sky Air solution that is **reliable**, **efficient** and **flexible** to meet the demanding needs of infrastructure cooling environments.

Reliable

Guaranteed system operation:

› Oversized indoor units boost cooling capacity and prevent freeze-ups on the indoor side
› Wide operating range envelope: operation range in cooling down to -15°C and up to +50°C

Efficient

Optimum return on investment:

› Lowers running costs by using highly efficient direct expansion cooling systems
› Lower running costs compared to other DX systems and water based chillers.
› Minimises environmental impact with A++ energy labels
› Reduces mechanical cooling and energy consumption with the free cooling option for single phase systems

Flexible

› Scalable in capacity
› Improved infrastructure control and management
› Lower physical footprint since no floor space is occupied
› Wide range of indoor units to suit application preferences (ceiling suspended cassettes, wall mounted indoors, concealed ceiling ducted type indoors)

UNIQUE

Dedicated system combinations

Benefits

1. Boost the heat transfer capacity of the indoor system
2. Ability to work with higher evaporation temperatures (Te) avoids downtime and enables continuous operation
3. Official energy labels for indoor and outdoor system combinations provide standardized and reliable performance data

UNIQUE

2-step solution for system selection

Benefits

1. Daikin makes the system selection procedure easy and reliable by providing detailed capacity tables based on extensive testing.
2. Choose the best product combination that meets end-user requirements

UNIQUE

Efficient cooling

Benefits

1. Free cooling: optimum energy efficiency using cold ambient air
2. Widest range of indoor systems with best in class energy efficiency
3. Wide indoor and outdoor operation range, reliable performance even in extreme conditions

UNIQUE

Flexible control

Benefits

1. Optimal backup supported by duty rotation control, automatic backup activation and remote alarms
2. Guaranteed continuous operation from extended compressor limits
3. Controller settings to adapt to specific infrastructure cooling environment conditions
4. Fewer start/stop cycles

Find out more in our infrastructure cooling brochure

Boosted capacity indoor systems

High reliability at lower running costs for infrastructure cooling

Split air conditioning systems for normal comfort cooling applications usually combine indoor systems with matching capacities, or multiple indoor systems with capacities lower than the outdoor system's capacity. This works because the indoor system's cooling capacity is sufficient to handle the higher humidity conditions and varying indoor temperature requirements that are common in a normal living environment.

Applying this design logic to infrastructure cooling environments can lead to risky situations that might compromise overall system reliability and frequent downtimes of 15 minutes.

Indoor systems for infrastructure cooling environments need enhanced capabilities for continuous heat transfer because they work harder to extract energy by cooling dry air. Daikin recommends and offers asymmetric combinations (boosted capacity indoor combinations: e.g. 71 class outdoor + 100 class indoor).

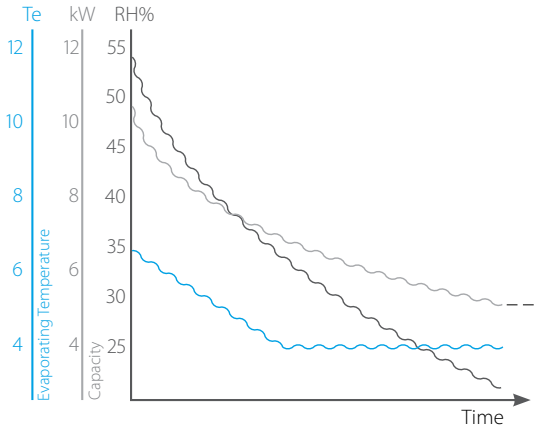
cooling. **You can now confidently combine indoor systems with higher capacities than the outdoor system.** This will boost heat transfer inside the technology or server room environments.

Boosted capacity indoor system combination

Infrastructure cooling application system solutions

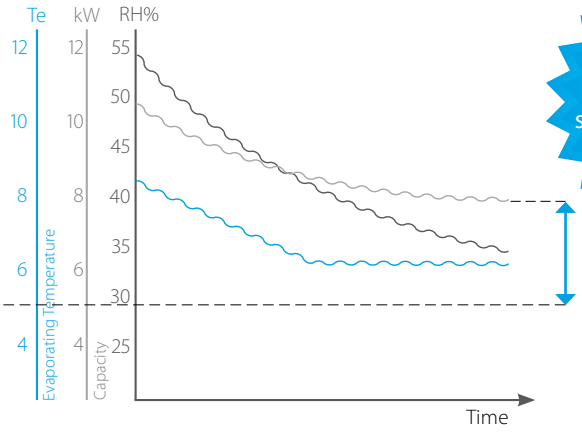
TRADITIONAL SOLUTION

Symmetric indoor-outdoor system combination



Relative Humidity: reduces over time
Capacity: reduced
Evaporating temp: drops to compensate reduced capacity
too low Te can lead to freeze-up prevention, causing system downtime

DEDICATED SOLUTION



Between **20-40%** sensible capacity increase

improved solution

- Boosted capacity indoors increase the heat transfer capacity at low relative humidity
- Allows the system to operate with higher Te, guaranteeing continuous operation and reducing unwanted dehumidification

Low humidity + Low ambient environment

Outside temperature Ta	-5 °C
Set-point	22 °C
Humidity	35 %
Indoor wet-bulb temperature	13 °C

EER

TRADITIONAL SOLUTION **100%**

IMPROVED SOLUTION **82%** — **18% SAVINGS**

18% savings on running cost

traditional solution RZQG71L9V1 + FAQ71C	
Total Capacity (TC)	5.63 kW
Sensible Heat Capacity (SHC)	4.28 kW
Power Input (PI)	2 kW
Co-efficient of Power Input (CPI)	0.39
Corrected PI	0.78 kW
EER*	5,5

dedicated system combination solution RZQG71L9V1 + FAQ100C	
Total Capacity (TC)	**6,02 kW**
Sensible Heat Capacity (SHC)	**6,02 kW**
Power Input (PI)	**2 kW**
Co-efficient of Power Input (CPI)	**0,45**
Corrected PI	**0.90 kW**
EER*	**6,7**

Sensible Heat Capacity increases **20-40%** with dedicated system combination.

*EER = (SHC/Corrected PI)

2-Step solution for system selection

High reliability for infrastructure cooling

UNIQUE

Select your infrastructure cooling system in 2 steps

No humidity generation in room (eg: Server room)

IT room requires 22°C inside. It will have 7kW of sensible cooling demand, and no latent cooling demand (no humidity generation) throughout the year.
Ceiling suspended indoor unit is the customer's preference for the server room.

Indoor temperature = 22°CDB
Sensible cooling demand (SHC) = 7 kW
Latent cooling demand (LC) = 0 kW*
Total cooling demand (TC) = SHC + LC = 7 kW
Outdoor temperature operating range = -15°C ~ +40°C
Most stringent outdoor unit capacity condition = -15°C

STEP 1

Determine requested indoor conditions and required cooling demand (Sensible and Total capacity)

Some humidity source in room (eg: Laboratory)

Lab requires 22°C inside. It will have 9 kW of sensible cooling demand, and some humidity generation in the room (est. indoor humidity level 42%).
Wall mounted indoor unit is the customer's preference for the laboratory.

Indoor temperature = 22°CDB
Indoor Relative Humidity (RH%) = 42%**
Sensible cooling demand (SHC) = 9 kW
Latent cooling demand (LC) = 0.9 kW
Total cooling demand (TC) = SHC + LC = 9.9 kW
Outdoor temperature operating range = -10°C ~ +40°C
Most stringent outdoor unit capacity condition = -10°C

STEP 2

Select the system combination from the given table, where the system 's sensible and total capacity meets the cooling demand at the requested indoor and outdoor temperatures.

SOLUTION

Boosted capacity indoor combination with 10kW outdoor system.

RZQG100L8Y1/ FHQ140C
Total capacity = 7.48 kW
Sensible capacity = 7.48 kW
Power input = 0.42 x 2.49 = 1.04 kW

* If there is no latent cooling demand, look for conditions where TC = SHC, since no more dehumidification will occur and thus the indoor environment will stabilize. When TC > SHC and there is no humidity generation, the indoor humidity will gradually decrease.

SOLUTION

Boosted capacity indoor combination with 12.5kW outdoor system.

RZQG125L9V1/ FAQ71C x 2
Total capacity = 10.45 kW
Sensible capacity = 9.34 kW
Power input = 0.48 x 3.69 = 1.78 kW

** System capacity at 42%RH (14,2°CWB) can be found by interpolation between 13°CWB (35%) and 15°CWB (48%).


Outdoor Unit

Combination table for boosted capacity indoor systems

Sky Air	Wall mounted		Ceiling suspended unit							Concealed ceiling unit with medium ESP							Concealed ceiling unit			4-way blow ceiling mounted cassette			Floor standing unit				Fully flat cassette			High COP, round flow cassette				Round flow cassette						
Model	FAQ71C	FAQ100C	FHQ35C	FHQ50C	FHQ60C	FHQ71C	FHQ100C	FHQ125C	FHQ140C	FBQ35D	FBQ50D	FBQ60D	FBQ71D	FBQ100D	FBQ125D	FBQ140D	FDXS35F	FDXS50F9	FDXS60F	FUQ71C	FUQ100C	FUQ125C	FVQ71C	FVQ100C	FVQ125C	FVQ140C	FFQ35C	FFQ50C	FFQ60C	FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F	FCQG35F	FCQG50F	FCQG60F	FCQG71F	FCQG100F	FCQG125F	FCQG140F
RZQG71L9V1B RZQG71L8Y1B		P	3	2			P			3	2			P			3	2			P			P			3	2			P			3	2			P		
RZQG100L9V1B RZQG100L8Y1B	2		4	3		2			P	4	3		2			P	4	3		2						P	4	3		2			P	4	3		2			P
RZQG125L9V1B RZQG125L8Y1B	2		4	3		2			P	4	3		2			P	4	3		2						P	4	3		2			P	4	3		2			P
RZQG140L9V1B RZQG140L7Y1B	2		4	3		2			P	4	3		2			P	4	3		2						P	4	3		2			P	4	3		2			P

Possible combinations: P = Pair 2 = Twin 3 = Triple 4 = Double Twin

Notes: The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities. When combining multiple indoor units, designate the master unit as the unit whose remote controller is equipped with the most functions. Refer to the option list when selecting the correct refnet kit required to install a multi-combination.

Performance characteristics

for boosted capacity indoor combinations

Boosted capacity indoors with 7kW outdoor system

RZQG71L9V1 / RZQG71L8Y1

Indoor			Outdoor temperature [°C DB]																																			
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	4.81	3.98	0.34	4.81	3.98	0.36	4.81	3.98	0.37	4.81	3.98	0.39	4.81	3.98	0.41	4.81	3.98	0.43	4.81	3.98	0.46	4.81	3.98	0.48	5.90	5.25	0.98	5.85	5.22	1.09	5.80	5.20	1.19	5.76	5.17	1.30
41.8	11	18	4.81	4.67	0.34	4.81	4.67	0.36	4.81	4.67	0.37	4.81	4.67	0.39	4.81	4.67	0.41	4.81	4.67	0.43	4.81	4.67	0.46	4.81	4.67	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
57	13		6.02	5.05	0.37	6.02	5.05	0.41	6.02	5.05	0.45	6.02	5.05	0.50	6.02	5.05	0.52	6.02	5.05	0.55	6.02	5.05	0.57	6.02	5.05	0.64	7.49	5.89	0.99	7.23	5.75	1.10	6.96	5.61	1.20	6.70	5.47	1.31
31.4	11		4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43	4.81	4.81	0.46	4.81	4.81	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
44.9	13	20	6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55	6.02	6.02	0.57	6.02	6.02	0.64	7.49	7.00	0.99	7.23	6.81	1.10	6.96	6.60	1.20	6.70	6.37	1.31
52	14		6.62	5.76	0.38	6.62	5.76	0.44	6.62	5.76	0.50	6.62	5.76	0.55	6.62	5.76	0.58	6.62	5.76	0.60	6.62	5.76	0.63	6.62	5.76	0.72	8.15	6.56	0.99	7.74	6.36	1.10	7.34	6.15	1.20	6.93	5.93	1.31
22.9	11		4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43	4.81	4.81	0.46	4.81	4.81	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
34.8	13	22	6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55	6.02	6.02	0.57	6.02	6.02	0.64	7.49	7.49	0.99	7.23	7.23	1.10	6.96	6.96	1.20	6.70	6.70	1.31
47.6	15		7.22	6.06	0.39	7.22	6.06	0.46	7.22	6.06	0.54	7.22	6.06	0.61	7.22	6.06	0.63	7.22	6.06	0.66	7.22	6.06	0.69	7.22	6.06	0.79	8.41	7.00	1.00	7.99	6.80	1.11	7.58	6.60	1.21	7.16	6.37	1.32
54.3	16		7.82	5.71	0.41	7.82	5.71	0.49	7.82	5.71	0.58	7.82	5.71	0.66	7.82	5.71	0.69	7.82	5.71	0.72	7.82	5.71	0.75	7.82	5.71	0.87	8.68	6.54	1.00	8.25	6.35	1.11	7.83	6.14	1.21	7.40	5.92	1.32
21.2	12		5.41	5.41	0.36	5.41	5.41	0.38	5.41	5.41	0.41	5.41	5.41	0.44	5.41	5.41	0.46	5.41	5.41	0.49	5.41	5.41	0.52	5.41	5.41	0.56	6.70	6.70	0.99	6.54	6.54	1.10	6.38	6.38	1.20	6.23	6.23	1.31
32.1	14	24	6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60	6.62	6.62	0.63	6.62	6.62	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
43.8	16		7.82	6.57	0.41	7.82	6.57	0.49	7.82	6.57	0.58	7.82	6.57	0.66	7.82	6.57	0.69	7.82	6.57	0.72	7.82	6.57	0.75	7.82	6.57	0.87	8.68	7.45	1.00	8.25	7.26	1.11	7.83	7.04	1.21	7.40	6.82	1.32
50	17		8.10	6.08	0.43	8.10	6.08	0.51	8.10	6.08	0.60	8.10	6.08	0.68	8.10	6.08	0.70	8.10	6.08	0.73	8.10	6.08	0.75	8.10	6.08	0.88	8.96	6.99	1.00	8.53	6.80	1.11	8.09	6.59	1.21	7.66	6.37	1.32
21.5	14		6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60	6.62	6.62	0.63	6.62	6.62	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
26.3	15	27	7.22	7.22	0.39	7.22	7.22	0.46	7.22	7.22	0.54	7.22	7.22	0.61	7.22	7.22	0.63	7.22	7.22	0.66	7.22	7.22	0.69	7.22	7.22	0.79	8.41	8.41	1.00	7.99	7.99	1.11	7.58	7.58	1.21	7.16	7.16	1.32
31.3	16			7.82	0.41	7.82	7.82	0.49	7.82	7.82	0.58	7.82	7.82	0.66	7.82	7.82	0.69	7.82	7.82	0.72	7.82	7.82	0.75	7.82	7.82	0.87	8.68	8.68	1.00	8.25	8.25	1.11	7.83	7.83	1.21	7.40	7.40	1.32

3D098206A

PAIR	FAQ100C	FHQ100C	FBQ100D	FUQ100C	FVQ100C	FCQHG100F	FCQG100F
Cooling	2.00	1.78	1.89	1.67	2.02	1.66	2.01

TWIN	FHQ50C x 2	FBQ50D x 2	FDXS50F9 x 2	FFQ50C x 2	FCQG50F x 2
Cooling	2.34	2.02	2.23	2.02	2.04

TRIPLE	FHQ35CA x 3	FBQ35D x 3	FDXS35F x 3	FFQ35C x 3	FCQG35F x 3
Cooling	2.39	2.11	2.26	2.07	2.06

Boosted capacity indoors with 10kW outdoor system

RZQG100L9V1 / RZQG100L8Y1

Indoor			Outdoor temperature [°C DB]																																			
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	6.00	5.63	0.33	6.00	5.63	0.34	6.00	5.63	0.35	6.00	5.63	0.37	6.00	5.63	0.38	6.00	5.63	0.38	6.00	5.63	0.39	6.00	5.63	0.39	8.36	7.11	1.00	7.92	6.83	1.10	7.48	6.53	1.20	7.09	6.28	1.29
41.8	11	18	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	7.98	1.00	7.92	7.72	1.10	7.48	7.43	1.20	7.09	7.15	1.29
57	13		7.48	6.37	0.42	7.48	6.37	0.44	7.48	6.37	0.45	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.45	7.48	6.37	0.46	9.71	7.67	1.00	9.30	7.42	1.11	8.90	7.16	1.21	8.45	6.88	1.30
31.4	11		6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
44.9	13	20	7.48	7.25	0.42	7.48	7.25	0.44	7.48	7.25	0.45	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.45	7.48	7.25	0.46	9.71	8.53	1.00	9.30	8.28	1.11	8.90	8.01	1.21	8.45	7.74	1.30
52	14		8.22	7.18	0.47	8.22	7.18	0.48	8.22	7.18	0.49	8.22	7.18	0.51	8.22	7.18	0.50	8.22	7.18	0.49	8.22	7.18	0.49	8.22	7.18	0.49	10.50	8.45	1.01	10.23	8.31	1.11	9.96	8.17	1.21	9.68	7.94	1.31
22.9	11		6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
34.8	13	22	7.48	7.48	0.42	7.48	7.48	0.44	7.48	7.48	0.45	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.45	7.48	7.48	0.46	9.71	9.71	1.00	9.30	9.30	1.11	8.90	8.90	1.21	8.45	8.45	1.30
47.6	15		8.96	7.82	0.52	8.96	7.82	0.53	8.96	7.82	0.54	8.96	7.82	0.55	8.96	7.82	0.54	8.96	7.82	0.53	8.96	7.82	0.52	8.96	7.82	0.52	11.28	9.19	1.01	10.89	8.96	1.11	10.51	8.72	1.22	10.12	8.48	1.32
54.3	16		9.70	7.54	0.56	9.70	7.54	0.58	9.70	7.54	0.59	9.70	7.54	0.60	9.70	7.54	0.59	9.70	7.54	0.57	9.70	7.54	0.55	9.70	7.54	0.56	11.84	8.40	1.01	11.40	8.22	1.11	11.03	8.04	1.22	10.58	7.77	1.32
21.2	12		6.74	6.74	0.38	6.74	6.74	0.39	6.74	6.74	0.40	6.74	6.74	0.41	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42	9.04	9.04	1.00	8.61	8.61	1.10	8.19	8.19	1.21	7.77	7.77	1.30
32.1	14	24	8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
43.8	16		9.70	8.68	0.56	9.70	8.68	0.58	9.70	8.68	0.59	9.70	8.68	0.60	9.70	8.68	0.59	9.70	8.68	0.57	9.70	8.68	0.55	9.70	8.68	0.56	11.84	9.74	1.01	11.40	9.51	1.12	11.03	9.32	1.22	10.58	9.06	1.32
50	17		9.98	7.86	0.58	9.98	7.86	0.59	9.98	7.86	0.60	9.98	7.86	0.61	9.98	7.86	0.60	9.98	7.86	0.60	9.98	7.86	0.60	9.98	7.86	0.60	12.39	9.45	1.02	11.86	9.16	1.12	11.33	8.86	1.22	10.80	8.52	1.33
21.5	14		8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
26.3	15	27	8.96	8.96	0.52	8.96	8.96	0.53	8.96	8.96	0.54	8.96	8.96	0.55	8.96	8.96	0.54	8.96	8.96	0.53	8.96	8.96	0.52	8.96	8.96	0.52	11.28	11.28	1.01	10.89	10.89	1.11	10.51	10.51	1.22	10.12	10.12	1.32
31.3	16		9.70	9.70	0.56	9.70	9.70	0.58	9.70	9.70	0.59	9.70	9.70	0.60	9.70	9.70	0.59	9.70	9.70	0.57	9.70	9.70	0.55	9.70	9.70	0.56	11.84	11.84	1.01	11.40	11.40	1.12	11.03	11.03	1.22	10.58	10.58	1.32

3D098207A

PAIR	FHQ140C	FBQ140D	FVQ140C	FCQHG140F	FCQG140F
Cooling	2.49	2.49	2.49	2.15	2.45

TWIN	FAQ71C x 2	FHQ71C x 2	FBQ71D x 2	FUQ71C x 2	FCQHG71F x 2	FCQG71F x 2
Cooling	2.64	2.94	2.83	2.34	2.14	2.35

TRIPLE	FHQ50C x 3	FBQ50D x 3	FDXS50F9 x 3	FFQ50C x 3	FCQG50F x 3
Cooling	2.98	2.96	2.54	2.70	2.33

DOUBLE TWIN	FHQ35C x 4	FBQ35D x 4	FDXS35F x 4	FFQ35C x 4	FCQG35F x 4
Cooling	3.03	3.05	2.58	2.75	2.35

Symbols

TC Maximum total cooling capacity [kW]
SHC Sensible heat capacity [kW]
CPI Coefficient of the power input
PI Power input [kW]
compressor + indoor and outdoor fan motors
RH Relative humidity [%]

Boosted capacity indoors with 12.5kW outdoor system

RZQG125L9V1 / RZQG125L8Y1

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	7.49	6.72	0.33	7.49	6.72	0.34	7.49	6.72	0.35	7.49	6.72	0.36	7.49	6.72	0.37	7.49	6.72	0.38	7.49	6.72	0.38	7.49	6.72	0.38	10.25	8.55	0.98	9.71	8.21	1.08	9.17	7.86	1.18	8.69	7.55	1.27
41.8	11	18	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	9.60	0.98	9.71	9.28	1.08	9.17	8.94	1.18	8.69	8.60	1.27
57	13		9.34	7.60	0.42	9.34	7.60	0.43	9.34	7.60	0.44	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	11.91	9.22	0.99	11.41	8.92	1.09	10.91	8.61	1.19	10.37	8.28	1.28
31.4	11		7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
44.9	13	20	9.34	8.65	0.42	9.34	8.65	0.43	9.34	8.65	0.44	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	11.91	10.27	0.99	11.41	9.96	1.09	10.91	9.64	1.19	10.37	9.31	1.28
52	14		10.27	8.56	0.46	10.27	8.56	0.47	10.27	8.56	0.49	10.27	8.56	0.50	10.27	8.56	0.49	10.27	8.56	0.49	10.27	8.56	0.48	10.27	8.56	0.48	12.88	10.16	0.99	12.54	10.00	1.09	12.21	9.83	1.19	11.87	9.55	1.29
22.9	11		7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
34.8	13	22	9.34	9.34	0.42	9.34	9.34	0.43	9.34	9.34	0.44	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	11.91	11.91	0.99	11.41	11.41	1.09	10.91	10.91	1.19	10.37	10.37	1.28
47.6	15		11.20	9.34	0.51	11.20	9.34	0.52	11.20	9.34	0.53	11.20	9.34	0.55	11.20	9.34	0.54	11.20	9.34	0.52	11.20	9.34	0.51	11.20	9.34	0.51	13.83	11.06	0.99	13.36	10.78	1.09	12.88	10.49	1.20	12.41	10.20	1.29
54.3	16		12.12	9.00	0.55	12.12	9.00	0.57	12.12	9.00	0.58	12.12	9.00	0.59	12.12	9.00	0.58	12.12	9.00	0.56	12.12	9.00	0.54	12.12	9.00	0.55	14.51	10.10	1.00	13.98	9.89	1.10	13.52	9.67	1.20	12.98	9.35	1.30
21.2	12		8.42	8.42	0.37	8.42	8.42	0.38	8.42	8.42	0.39	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	11.08	11.08	0.98	10.56	10.56	1.08	10.04	10.04	1.19	9.53	9.53	1.27
32.1	14	24	10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
43.8	16		12.12	10.35	0.55	12.12	10.35	0.57	12.12	10.35	0.58	12.12	10.35	0.59	12.12	10.35	0.58	12.12	10.35	0.56	12.12	10.35	0.54	12.12	10.35	0.55	14.51	11.71	1.00	13.98	11.44	1.10	13.52	11.21	1.20	12.98	10.90	1.30
50	17		12.47	9.38	0.57	12.47	9.38	0.58	12.47	9.38	0.59	12.47	9.38	0.60	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59	15.20	11.36	1.00	14.54	11.02	1.10	13.89	10.66	1.20	13.24	10.25	1.31
21.5	14		10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
26.3	15	27	11.20	11.20	0.51	11.20	11.20	0.52	11.20	11.20	0.53	11.20	11.20	0.55	11.20	11.20	0.54	11.20	11.20	0.52	11.20	11.20	0.51	11.20	11.20	0.51	13.83	13.83	0.99	13.36	13.36	1.09	12.88	12.88	1.20	12.41	12.41	1.29
31.3	16		12.12	12.12	0.55	12.12	12.12	0.57	12.12	12.12	0.58	12.12	12.12	0.59	12.12	12.12	0.58	12.12	12.12	0.56	12.12	12.12	0.54	12.12	12.12	0.55	14.51	14.51	1.00	13.98	13.98	1.10	13.52	13.52	1.20	12.98	12.98	1.30

3D098208A

PAIR	FHQ140C	FBQ140D	FVQ140C	FCQHG140F	FCQG140F
Cooling	3.58	3.63	3.74	3.00	3.22

TWIN	FAQ71C x 2	FHQ71C x 2	FBQ71D x 2	FUQ71C x 2	FCQHG71F x 2	FCQG71F x 2
Cooling	3.69	3.67	4.10	3.44	2.97	3.17

TRIPLE	FHQ50C x 3	FBQ50D x 3	FDXS50F9 x 3	FFQ50C x 3	FCQG50F x 3
Cooling	3.66	3.97	3.45	3.23	3.17

DOUBLE TWIN	FHQ35C x 4	FBQ35D x 4	FDXS35F x 4	FFQ35C x 4	FCQG35F x 4
Cooling	3.64	3.74	3.94	3.01	3.23

Combinations with 14kW outdoor system

RZQG140L9V1 / RZQG140L7Y1

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	8.24	7.27	0.32	8.24	7.27	0.33	8.24	7.27	0.34	8.24	7.27	0.35	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.38	10.95	8.87	0.96	10.37	8.51	1.06	9.79	8.15	1.16	9.28	7.83	1.25
41.8	11	18	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	9.96	0.96	10.37	9.62	1.06	9.79	9.27	1.16	9.28	8.92	1.25
57	13		10.28	8.22	0.41	10.28	8.22	0.42	10.28	8.22	0.43	10.28	8.22	0.45	10.28	8.22	0.45	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44	12.72	9.56	0.97	12.18	9.25	1.07	11.65	8.93	1.17	11.07	8.58	1.26
31.4	11		8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
44.9	13	20	10.28	9.35	0.41	10.28	9.35	0.42	10.28	9.35	0.43	10.28	9.35	0.45	10.28	9.35	0.45	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.44	12.72	10.64	0.97	12.18	10.33	1.07	11.65	10.00	1.17	11.07	9.65	1.26
52	14		11.30	9.26	0.45	11.30	9.26	0.47	11.30	9.26	0.48	11.30	9.26	0.49	11.30	9.26	0.49	11.30	9.26	0.48	11.30	9.26	0.47	11.30	9.26	0.47	13.75	10.53	0.97	13.40	10.36	1.07	13.04	10.19	1.17	12.68	9.90	1.27
22.9	11		8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
34.8	13	22	10.28	10.28	0.41	10.28	10.28	0.42	10.28	10.28	0.43	10.28	10.28	0.45	10.28	10.28	0.45	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44	12.72	12.72	0.97	12.18	12.18	1.07	11.65	11.65	1.17	11.07	11.07	1.26
47.6	15		12.32	10.10	0.50	12.32	10.10	0.51	12.32	10.10	0.52	12.32	10.10	0.54	12.32	10.10	0.53	12.32	10.10	0.51	12.32	10.10	0.50	12.32	10.10	0.50	14.77	11.47	0.98	14.26	11.18	1.08	13.76	10.88	1.18	13.25	10.57	1.27
54.3	16		13.33	9.73	0.54	13.33	9.73	0.56	13.33	9.73	0.57	13.33	9.73	0.58	13.33	9.73	0.57	13.33	9.73	0.55	13.33	9.73	0.53	13.33	9.73	0.54	15.50	10.47	0.98	14.93	10.25	1.08	14.44	10.03	1.18	13.86	9.69	1.28
21.2	12		9.26	9.26	0.37	9.26	9.26	0.38	9.26	9.26	0.39	9.26	9.26	0.40	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	11.83	11.83	0.97	11.28	11.28	1.07	10.72	10.72	1.17	10.17	10.17	1.25
32.1	14	24	11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
43.8	16		13.33	11.20	0.54	13.33	11.20	0.56	13.33	11.20	0.57	13.33	11.20	0.58	13.33	11.20	0.57	13.33	11.20	0.55	13.33	11.20	0.53	13.33	11.20	0.54	15.50	12.14	0.98	14.93	11.86	1.08	14.44	11.62	1.18	13.86	11.30	1.28
50	17		13.72	10.15	0.56	13.72	10.15	0.57	13.72	10.15	0.58	13.72	10.15	0.59	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	16.23	11.78	0.98	15.53	11.43	1.08	14.83	11.06	1.18	14.14	10.63	1.29
21.5	14		11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
26.3	15	27	12.32	12.32	0.50	12.32	12.32	0.51	12.32	12.32	0.52	12.32	12.32	0.54	12.32	12.32	0.53	12.32	12.32	0.51	12.32	12.32	0.50	12.32	12.32	0.50	14.77	14.77	0.98	14.26	14.26	1.08	13.76	13.76	1.18	13.25	13.25	1.27
31.3	16		13.33	13.33	0.54	13.33	13.33	0.56	13.33	13.33	0.57	13.33	13.33	0.58	13.33	13.33	0.57	13.33	13.33	0.55	13.33	13.33	0.53	13.33	13.33	0.54	15.50	15.50	0.98	14.93	14.93	1.08	14.44	14.44	1.18	13.86	13.86	1.28

3D098209A

PAIR	FHQ140C	FBQ140D	FVQ140C	FCQHG140F	FCQG140F
Cooling	4.05	4.00	4.17	4.00	4.17

TWIN	FAQ71C x 2	FHQ71C x 2	FBQ71D x 2	FUQ71C x 2	FCQHG71F x 2	FCQG71F x 2
Cooling	3.81	3.59	3.75	3.35	3.94	4.11

TRIPLE	FHQ50C x 3	FBQ50D x 3	FDXS50F9 x 3	FFQ50C x 3	FCQG50F x 3
Cooling	4.25	3.75	4.26	4.15	4.12

DOUBLE TWIN	FHQ35C x 4	FBQ35D x 4	FDXS35F x 4	FFQ35C x 4	FCQG35F x 4
Cooling	4.23	3.75	5.38	3.83	4.18

Notes

1. The ratings shown are net capacities and include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   - Outdoor air: 85% RH
   - Corresponding refrigerant piping length: 5.0 m
   - Level difference: 0m
3. CPI is a percentage value compared to the rated value of 1.00
4. For infrastructure cooling applications, it is recommended to use remote controller setting 16(26)-2-03
5. The error rate for this value is less than 5% and depends on the indoor unit type
6. The rated power inputs (PI) for each model are listed in the table above

Pair

Industry leading technology with R-32 delivering optimal efficiency and comfort for commercial applications

- Daikin's Seasonal Smart range is the first R-32 light commercial range available in the European market
- 68% lower GWP compared to R-410A products
- 10% lower refrigerant charge compared to R-410A products
- Minimum 5% more efficient in cooling when compared to R-410A products
- Quiet mode: set via the remote control for example during night time, ...
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.

Variable Refrigerant Temperature

- Re-use of existing R-22 or R-407C technology
- Extended operation range down to -20°C in heating and down to -15°C in cooling

RZQG140L9V1//(L(8)Y1

Outdoor unit					RZAG	71LV1	100LV1	125LV1	140LV1
Dimensions	Unit	HeightxWidthxDepth			mm	990x940x320	1,430x940x320		
Weight	Unit				kg	67	93		
Sound power level	Cooling				dBA	64		66	67
Sound pressure level	Cooling	Nom.			dBA	48	49	51	52
	Heating	Nom.			dBA	50	51	52	
	Night quiet mode	Level 1			dBA	43	45		
Operation range	Cooling	Ambient	Min.~Max.		°CDB	-15~50			
	Heating	Ambient	Min.~Max.		°CWB	-20~15.5			
Refrigerant	Type					R-32			
	Charge				kg	2.6	3.4		
					TCO_2eq	1.8	2.3		
	GWP					675			
Piping connections	Liquid	OD			mm	9.52			
	Gas	OD			mm	15.9			
	Piping length	OU - IU		Max.	m	55	85		
		System		Equivalent	m	75	100		
				Chargeless	m	30			
	Additional refrigerant charge				kg/m	See installation manual			
	Level difference	IU - OU		Max.	m	30.0			
Power supply	Phase / Frequency / Voltage				Hz / V	1~ / 50/60 / 220-240			
Current - 50Hz	Maximum fuse amps (MFA)				A	-			

Contains fluorinated greenhouse gases | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series | Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series | See separate drawing for electrical data

Seasonal Smart

Pair, Twin, Triple, double twin

Industry leading technology for commercial applications and even for technical rooms

› Top efficiency:
› energy labels up to A++ in both cooling and heating
› compressor that offers substantial efficiency improvements
› control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active)
› heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load)
› via improved nominal performances
› The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.

Variable Refrigerant Temperature

› Suits high sensible, infrastructure cooling applications
› Re-use of existing R-22 or R-407C technology

› Extended operation range down to -20°C in heating and down to -15°C in cooling
› With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature

RZQG140L9V1//(L(8)Y1

› Maximum piping length up to 75m, minimum piping length is 5m.
› Outdoor units for pair, twin, triple, double twin application
› Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
› Compatibility with D-BACS
› Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.

RELIABLE, CONTINUOUS OPERATION 24/7 365

Twin, triple and double twin application

		FCQHG-F	FCQG-F				FFQ-C			FDXS-F (9)			FBQ-D				FHQ-C				FAQ-C	FUQ-C	FNQ-A		
capacity class		71	35	50	60	71	35	50	60	35	50	60	35	50	60	71	35	50	60	71	71	71	35	50	60
RZQG71L9V1	RZQG71L8Y1		2				2			2			2				2						2		
RZQG100L9V1	RZQG100L8Y1		3	2			3	2		3	2		3	2			3	2					3	2	
RZQG125L9V1	RZQG125L8Y1		4	3	2		4	3	2	4	3	2	4	3	2		4	3	2				4	3	2
RZQG140L9V1	RZQG140LY1	2	4	3		2	4	3		4	3		4	3		2	4	3		2	2	2	4	3	

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	69	95			80	101		
Sound power level	Cooling			dBA	64	66	67	69	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52	48	50	51	52
	Heating	Nom.		dBA	50	52	53		50	52	53	
	Night quiet mode	Level 1		dBA	43	45			43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50							
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5							
Refrigerant	Type/Charge kg-TCO$_2$Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5			R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		
Piping connections	Liquid	OD		mm	9.52							
	Gas	OD		mm	15.9							
	Piping length	OU - IU	Max.	m	50	75			50	75		
		System	Equivalent	m	70	90			70	90		
			Chargeless	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
	Level difference	IU - OU	Max.	m	30.0							
		IU - IU	Max.	m	0.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			20	32		

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

RZQG-L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	17.2	20	–	15,6	0,094	0,4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L9V1B				28.9	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ35A2VEB	RZQG100L9V1B				28.8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3
2xFNQ60A2VEB	RZQG125L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ50A2VEB	RZQG125L9V1B				29.5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG125L9V1B				29.2	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3
3xFNQ50A2VEB	RZQG140L9V1B				29.5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQG71-125L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	16,4	20	51	15,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L9V1B				17,1	20	–	15,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L9V1B				28,9	32	49	24,2	0.094 + 0.094	0.4 + 0.4	0,127	1,0
2xFBQ50D2VEB	RZQG100L9V1B				29,1	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.089	2x0.6
3xFBQ35D2VEB	RZQG100L9V1B				29,7	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
FBQ125D2VEB	RZQG125L9V1B				29,5	32	64	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ60D2VEB	RZQG125L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.070	2x0.5
3xFBQ50D2VEB	RZQG125L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG125-140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFBQ35D2VEB	RZQG125L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ140D2VEB	RZQG140L9V1B				29,5	32	68	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQG140L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG140L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG140L9V1B				30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG125-140L9V1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQH071FVEB	x2	RZQG125L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum: 264 V	28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2
FCQHG140FVEB		RZQG125L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	x4	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0.044 x4	0.3 x4
FCQG50FVEB	x3	RZQG125L9V1B			28,6	–	32	–	24,2	0.094+0.094	0.4+0.4	0.039 x3	0.3 x3
FCQG71FVEB	x2	RZQG125L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.054 x2	0.4 x2
FCQG140FVEB		RZQG125L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35CZVEB	x4	RZQG125L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.050 x4	0.4 x4
FFQ50CZVEB	x3	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0.050 x3	0.4 x3
FBQ35D2VEB	x4	RZQG125L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.089 x4	0.6 x4
FBQ50D2VEB	x3	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.089 x3	0.6 x3
FBQ71D2VEB	x2	RZQG125L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.070 x2	0.5 x2
FBQ140D2VEB		RZQG125L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0.187	1.5
FHQ35CAVEB	x4	RZQG125L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.060 x4	0.6 x4
FHQ50CAVEB	x3	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.060 x3	0.6 x3
FHQ71CAVEB	x2	RZQG125L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.091 x2	0.8 x2
FHQ140CAVEB		RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.150	1.8
FUQ71CVEB	x2	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.046 x2	0.9 x2
FAQ71CVEB	x2	RZQG125L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.048 x2	0.4 x2
FVQ140CVEB		RZQG125L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0.276	1.4
FDXS35F2VEB	x4	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0.034 x4	0.3 x4
FDXS50F2VEB9	x3	RZQG125L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0.060 x3	0.5 x3
FCQH071FVEB	x2	RZQG140L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum: 264 V	28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2
FCQHG140FVEB		RZQG140L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	x4	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0.044 x4	0.3 x4
FCQG50FVEB	x3	RZQG140L9V1B			28,6	–	32	–	24,2	0.094+0.094	0.4+0.4	0.039 x3	0.3 x3
FCQG71FVEB	x2	RZQG140L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.054 x2	0.4 x2
FCQG140FVEB		RZQG140L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35CZVEB	x4	RZQG140L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.050 x4	0.4 x4
FFQ50CZVEB	x3	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0.050 x3	0.4 x3
FBQ35D2VEB	x4	RZQG140L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.089 x4	0.6 x4
FBQ50D2VEB	x3	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.089 x3	0.6 x3
FBQ71D2VEB	x2	RZQG140L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.070 x2	0.5 x2
FBQ140D2VEB		RZQG140L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0.187	1.5
FHQ35CAVEB	x4	RZQG140L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.060 x4	0.6 x4
FHQ50CAVEB	x3	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.060 x3	0.6 x3
FHQ71CAVEB	x2	RZQG140L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.091 x2	0.8 x2
FHQ140CAVEB		RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.150	1.8
FUQ71CVEB	x2	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0.046 x2	0.9 x2
FAQ71CVEB	x2	RZQG140L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0.048 x2	0.4 x2
FVQ140CVEB		RZQG140L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0.276	1.4
FDXS35F2VEB	x4	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0.034 x4	0.3 x4
FDXS50F2VEB9	x3	RZQG140L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0.060 x3	0.5 x3

Symbols
MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes
1. The RLA is based on the following conditions.
Cooling
Indoor temperature 27.0°C DB / 19.0°C WB
Outdoor temperature 35.0°C DB
Heating
Indoor temperature 20.0°C DB
Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
The capacity of the MFA must be greater than that of the MCA.
Select the MFA according to the table.

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RZQG125-140L9V1

G125-140L9V1

Indoor		Outdoor	Hz~	Voltage	MCA	TOCA	MFA	Comp. MSC	Comp. RLA	OFM kW	OFM RLA	IFM kW	IFM FLA
FCQHG125FVEB		RZQG125L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG60FVEB	×2				28.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×2	0.3×2
FCQG125FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×4	0.4×4
FFQ50B8V1B	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FFQ60B8V1B	×2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×2	0.6×2
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×3				29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FDXS60F2VEB	×2				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060×2	0.5×2
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ60C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ125C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FHQ35BWV1B	×4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×4	0.6×4
FHQ50BWV1B	×3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×3	0.6×3
FHQ60BWV1B	×2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×2	0.6×2
FHQG125CVEB					29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.6
FUQ125BWV1B					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.289	1.0
FDQ125C7VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FVQ125CVEB					29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.238	1.2
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 4	0.6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3
FHQ60CAVEB	x2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091 x 2	0.6 x 2
FHQ125CAVEB					29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.5
FUQ125CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.106	1.4
FCQHG71FVEB	×2	RZQG140L9V1	50Hz 220-240V	Min. 198V Max. 264V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×4	0.4×4
FFQ50C2VEB	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	x3				29.4	—	33	—	25.2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FAQ71CVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FVQ140CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.276	1.4
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 4	0.6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3
FHQ71CAVEB	x2				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091 x 2	0.8 x 2
FHQ140CAVEB					29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.8
FUQ71CVEB	x2				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.046 x 2	0.9 x 2

SYMBOLS

: Min. Circuit Amps. (A)
: Total Over-Current Amps. (A)
: Max. Fuse Amps. (See note 7) (A)
: Max. current during the starting compressor. (A)
: Rated Load Amps. (A)
: Outdoor Fan Motor. (A)
: Indoor Fan Motor.
: Full Load Amps.
: Fan Motor Rated Output. (kW)

NOTES

1. RLA is based on the following conditions.
   Power supply: 50Hz 230V
   Cooling
   Indoor temperature 27.0°CDB/19.0°CWB
   Outdoor temperature 35.0°CDB
   Heating
   Indoor temperature 20.0°CDB
   Outdoor temperature 7.0°CDB / 6.0°CWB
2. TOCA means the total value of each DC set.
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4. Maximum allowable voltage variation between phases is 2%.
5. MCA represents maximum input current, MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6. Select wire size based on the larger value of MCA or TOCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor. (earth leakage circuit breaker)

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RZQG140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFNQ35A2VEB	RZQG140L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	29.2	32	–	24.2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

1. The RLA is based on the following conditions.
   Indoor temperature 27°C DB / 19°C WB
   Outdoor temperature 35°C DB
2. Select the wire size according to the MCA.
3. The maximum allowable voltage that is unbalanced between phases is 2%.
4. Use a circuit breaker instead of a fuse.

Symbols

① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQG71-100L8Y1

Indoor		Outdoor	Phase & No. of Power supply	Voltage range	MCA	TOCA	MFA	Comp. MSC	Comp. RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQG71EVEB		RZQG71L8Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	11,5	—	16	—	9,6	0,094	0,4	0,048	0,4
FCQHG71FVEB					11,6	—	16	—	9,6	0,094	0,4	0,091	0,5
FCQG35FVEB	×2				11,8	—	16	—	9,6	0,094	0,4	0,044×2	0,3×2
FCQG71FVEB					11,5	—	16	—	9,6	0,094	0,4	0,054	0,4
FFQ35C2VEB	×2				12,0	—	16	—	9,6	0,094	0,4	0,05×2	0,4×2
FDXS35F2VEB	×2				11,8	—	16	—	9,6	0,094	0,4	0,034×2	0,3×2
FBQ35C8VEB	×2				14,0	—	16	—	9,6	0,094	0,4	0,140×2	1,2×2
FBQ71C8VEB					12,4	—	16	—	9,6	0,094	0,4	0,350	1,1
FAQ71CVEB					11,5	—	16	—	9,6	0,094	0,4	0,048	0,4
FVQ71CVEB					11,8	—	16	—	9,6	0,094	0,4	0,117	0,6
FHQ35CAVEB	x2				12,5	—	16	—	9,6	0,094	0,4	0,060x2	0,6 x 2
FHQ71CAVEB					12,0	—	16	—	9,6	0,094	0,4	0,091	0,8
FUQ71CVEB					12,1	—	16	—	9,6	0,094	0,4	0,046	0,9
FCQG100EVEB		RZQG100L8Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,106	1,0
FCQHG100FVEB					18,1	—	20	—	14,2	0,094+0,094	0,4+0,4	0,221	1,3
FCQG35FVEB	×3				17,6	—	20	—	14,2	0,094+0,094	0,4+0,4	0,044×3	0,3×3
FCQG50FVEB	×2				17,3	—	20	—	14,2	0,094+0,094	0,4+0,4	0,039×2	0,3×2
FCQG100FVEB					17,4	—	20	—	14,2	0,094+0,094	0,4+0,4	0,117	0,7
FFQ35C2VEB	×3				18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05×3	0,4×3
FFQ50C2VEB	×2				17,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05×2	0,4×2
FDXS35F2VEB	×3				17,6	—	20	—	14,2	0,094+0,094	0,4+0,4	0,034×3	0,3×3
FDXS50F2VEB9	x2				17,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,06x2	0,5x2
FBQ35C8VEB	×3				21,0	—	25	—	14,2	0,094+0,094	0,4+0,4	0,140×3	1,2×3
FBQ50C8VEB	×2				19,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,140×2	1,2×2
FBQ100C8VEB					18,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,350	1,6
FAQ100CVEB					17,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,064	0,4
FVQ100CVEB					18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,238	1,2
FHQ35CAVEB	x3				18,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 3	0,6 x 3
FHQ50CAVEB	x2				18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 2	0,6 x 2
FHQ100CAVEB					18,1	—	20	—	14,2	0,094+0,094	0,4+0,4	0,150	1,3
FUQ100CVEB					18,1	—	20	—	14,2	0,094+0,094	0,4+0,4	0,106	1,3

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output (kW)

NOTES

1 RLA is based on the following conditions:
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min 15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)

3D077810B

RZQG71-100L8Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,8	16	–	9,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L8Y1B				12	16	–	9,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L8Y1B				17,9	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,127	1,0
2xFBQ50D2VEB	RZQG100L8Y1B				18,1	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.089	2x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG71-100L8Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,9	16	–	9,6	0,094	0,4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L8Y1B				17,9	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQG71-100L8Y1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FXQG25PVEB		RZQG71L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum: 456 V	12.6	–	16	–	9.6	0.094	0.4	0.221	1.3
FXQG35PVEB	x3	RZQG71L8Y1B			12.1	–	16	–	9.6	0.094	0.4	0.044 x3	0.3 x3
FXQG50PVEB	x2	RZQG71L8Y1B			11.8	–	16	–	9.6	0.094	0.4	0.039 x2	0.3 x2
FXQG100PVEB		RZQG71L8Y1B			11.9	–	16	–	9.6	0.094	0.4	0.117	0.7
FFQG35CVEB	x3	RZQG71L8Y1B			12.5	–	16	–	9.6	0.094	0.4	0.092 x3	0.4 x3
FFQG50CVEB	x2	RZQG71L8Y1B			12.0	–	16	–	9.6	0.094	0.4	0.090 x2	0.4 x2
FBQ35D2VEB	x3	RZQG71L8Y1B			13.3	–	16	–	9.6	0.094	0.4	0.089 x3	0.6 x3
FBQ50D2VEB	x2	RZQG71L8Y1B			12.5	–	16	–	9.6	0.094	0.4	0.089 x2	0.6 x2
FBQ100D2VEB		RZQG71L8Y1B			12.3	–	16	–	9.6	0.094	0.4	0.127	1.0
FHQ35CAVEB	x3	RZQG71L8Y1B			13.3	–	16	–	9.6	0.094	0.4	0.090 x3	0.6 x3
FHQ50CAVEB	x2	RZQG71L8Y1B			12.5	–	16	–	9.6	0.094	0.4	0.090 x2	0.6 x2
FHQ100CAVEB		RZQG71L8Y1B			12.6	–	16	–	9.6	0.094	0.4	0.130	1.3
FUQ100CVEB		RZQG71L8Y1B			12.6	–	16	–	9.6	0.094	0.4	0.106	1.3
FAQ100CVEB		RZQG71L8Y1B			11.5	–	16	–	9.6	0.094	0.4	0.064	0.4
FVQ100CVEB		RZQG71L8Y1B			12.5	–	16	–	9.6	0.094	0.4	0.238	1.2
FDXS35PVEB	x3	RZQG71L8Y1B			12.1	–	16	–	9.6	0.094	0.4	0.034 x3	0.3 x3
FDXS50PVEB	x2	RZQG71L8Y1B			12.3	–	16	–	9.6	0.094	0.4	0.060 x2	0.5 x2
FCQG125PVEB	x2	RZQG100L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum: 456 V	17.5	–	20	–	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2
FCQG140PVEB		RZQG100L8Y1B			18.3	–	20	–	14.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35PVEB	x4	RZQG100L8Y1B			18.0	–	20	–	14.2	0.094+0.094	0.4+0.4	0.044 x4	0.3 x4
FCQG50PVEB	x3	RZQG100L8Y1B			17.5	–	20	–	14.2	0.094+0.094	0.4+0.4	0.039 x3	0.3 x3
FCQG71PVEB	x2	RZQG100L8Y1B			17.3	–	20	–	14.2	0.094+0.094	0.4+0.4	0.064 x2	0.4 x2
FCQG140PVEB		RZQG100L8Y1B			17.8	–	20	–	14.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQG35CVEB	x4	RZQG100L8Y1B			18.5	–	20	–	14.2	0.094+0.094	0.4+0.4	0.092 x4	0.4 x4
FFQG50CVEB	x3	RZQG100L8Y1B			18.0	–	20	–	14.2	0.094+0.094	0.4+0.4	0.090 x3	0.4 x3
FBQ35D2VEB	x4	RZQG100L8Y1B			19.5	–	20	–	14.2	0.094+0.094	0.4+0.4	0.089 x4	0.6 x4
FBQ50D2VEB	x3	RZQG100L8Y1B			18.8	–	20	–	14.2	0.094+0.094	0.4+0.4	0.089 x3	0.6 x3
FBQ71D2VEB	x2	RZQG100L8Y1B			17.8	–	20	–	14.2	0.094+0.094	0.4+0.4	0.070 x2	0.5 x2
FBQ140D2VEB		RZQG100L8Y1B			18.4	–	20	–	14.2	0.094+0.094	0.4+0.4	0.187	1.5
FHQ35CAVEB	x4	RZQG100L8Y1B			19.3	–	20	–	14.2	0.094+0.094	0.4+0.4	0.090 x4	0.6 x4
FHQ50CAVEB	x3	RZQG100L8Y1B			18.8	–	20	–	14.2	0.094+0.094	0.4+0.4	0.090 x3	0.6 x3
FHQ71CAVEB	x2	RZQG100L8Y1B			18.5	–	20	–	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.8 x2
FHQ140CAVEB		RZQG100L8Y1B			18.8	–	20	–	14.2	0.094+0.094	0.4+0.4	0.150	1.8
FUQ71CVEB	x2	RZQG100L8Y1B			18.8	–	20	–	14.2	0.094+0.094	0.4+0.4	0.046 x2	0.3 x2
FAQ71CVEB	x2	RZQG100L8Y1B			17.5	–	20	–	14.2	0.094+0.094	0.4+0.4	0.040 x2	0.4 x2
FVQ140CVEB		RZQG100L8Y1B			18.3	–	20	–	14.2	0.094+0.094	0.4+0.4	0.276	1.4
FDXS35PVEB	x4	RZQG100L8Y1B			18.0	–	20	–	14.2	0.094+0.094	0.4+0.4	0.034 x4	0.3 x4
FDXS50PVEB	x3	RZQG100L8Y1B			18.4	–	20	–	14.2	0.094+0.094	0.4+0.4	0.060 x3	0.5 x3

Symbols
MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
kW: Fan motor rated output [kW]

Notes
1. The RLA is based on the following conditions.
Cooling
Indoor temperature 27.0°C DB / 19.0°C WB
Outdoor temperature 35.0°C DB
Heating
Indoor temperature 20.0°C DB
Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
The capacity of the MFA must be greater than that of the MCA.
Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
Earth leakage circuit breaker

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RZQG71-100L8Y1

Indoor		Outdoor	Hz~	Voltage	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB		RZQG71L9V1	50Hz 220-240V	Min. 198V Max. 264V	18.2	—	20	—	15.6	0.094	0.4	0.091	0.5
FCQG35FVEB	x2				18.4	—	20	—	15.6	0.094	0.4	0.044×2	0.3×2
FCQG71FVEB					18.1	—	20	—	15.6	0.094	0.4	0.054	0.4
FFQ35C2VEB	x2				18.6	—	20	—	15.6	0.094	0.4	0.050×2	0.4×2
FDXS35F2VEB	x2				18.4	—	20	—	15.6	0.094	0.4	0.034×2	0.3×2
FBQ35C8VEB	x2				20.6	—	25	—	15.6	0.094	0.4	0.140×2	1.2×2
FBQ71C8VEB					19.0	—	20	—	15.6	0.094	0.4	0.350	1.1
FAQ71CVEB					18.1	—	20	—	15.6	0.094	0.4	0.048	0.4
FVQ71CVEB					18.4	—	20	—	15.6	0.094	0.4	0.117	0.6
FHQ35CAVEB	x2				19.1	—	20	—	15.6	0.094	0.4	0,060 x 2	0,6 x 2
FHQ71CAVEB					18.6	—	20	—	15.6	0.094	0.4	0.091	0.8
FUQ71CVEB					18.7	—	20	—	15.6	0.094	0.4	0.046	0.9
FCQHG100FVEB		RZQG100L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.221	1.3
FCQG35FVEB	x3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×3	0.3×3
FCQG50FVEB	x2				28.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×2	0.3×2
FCQG100FVEB					28.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.117	0.7
FFQ35C2VEB	x3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FFQ50C2VEB	x2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×2	0.4×2
FDXS35F2VEB	x3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×3	0.3×3
FDXS50F2VEB9	x2				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06x2	0.5x2
FBQ35C8VEB	x3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ50C8VEB	x2				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.140×2	1.2×2
FBQ100C8VEB					29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	1.6
FAQ100CVEB					28.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.064	0.4
FVQ100CVEB					29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.238	1.2
FHQ35CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 3	0,6 x 3
FHQ50CAVEB	x2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 2	0,6 x 2
FHQ100CAVEB					29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.3
FUQ100CVEB					29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.106	1.3

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature: 27.0°CDB/19.0°CWB
Outdoor temperature: 35.0°CDB
Heating
Indoor temperature: 20.0°CDB
Outdoor temperature: 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min 15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQG71-100L8Y1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG100FVEB		RZQG71L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum: 264 V	19.2	—	20	—	15.6	0.094	0.4	0.221	1.3
FCQG35FVEB	x3	RZQG71L9V1B			18.7	—	20	—	15.6	0.094	0.4	0.044 x3	0.3 x3
FCQG50FVEB	x2	RZQG71L9V1B			18.4	—	20	—	15.6	0.094	0.4	0.039 x2	0.3 x2
FCQG100FVEB		RZQG71L9V1B			18.5	—	20	—	15.6	0.094	0.4	0.117	0.7
FFQ35C2VEB	x3	RZQG71L9V1B			19.1	—	20	—	15.6	0.094	0.4	0.050 x3	0.4 x3
FFQ50C2VEB	x2	RZQG71L9V1B			18.6	—	20	—	15.6	0.094	0.4	0.050 x2	0.4 x2
FBQ35C8VEB	x3	RZQG71L9V1B			19.9	—	25	—	15.6	0.094	0.4	0.089 x3	0.6 x3
FBQ50C8VEB	x2	RZQG71L9V1B			19.1	—	20	—	15.6	0.094	0.4	0.089 x2	0.6 x2
FBQ100C8VEB		RZQG71L9V1B			18.9	—	20	—	15.6	0.094	0.4	0.127	1.0
FHQ35CAVEB	x3	RZQG71L9V1B			19.8	—	20	—	15.6	0.094	0.4	0.060 x3	0.6 x3
FHQ50CAVEB	x2	RZQG71L9V1B			19.1	—	20	—	15.6	0.094	0.4	0.060 x2	0.6 x2
FHQ100CAVEB		RZQG71L9V1B			19.2	—	20	—	15.6	0.094	0.4	0.150	1.3
FUQ100CVEB		RZQG71L9V1B			19.2	—	20	—	15.6	0.094	0.4	0.106	1.3
FAQ100CVEB		RZQG71L9V1B			18.1	—	20	—	15.6	0.094	0.4	0.064	0.4
FVQ100CVEB		RZQG71L9V1B			19.1	—	20	—	15.6	0.094	0.4	0.238	1.2
FDXS35F2VEB	x3	RZQG71L9V1B			18.7	—	20	—	15.6	0.094	0.4	0.034 x3	0.3 x3
FDXS50F2VEB9	x2	RZQG71L9V1B			18.9	—	20	—	15.6	0.094	0.4	0.060 x2	0.5 x2
FCQHG71FVEB		RZQG100L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum: 264 V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2
FCQHG140FVEB		RZQG100L9V1B			29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.344	1.4
FCQG35FVEB	x4	RZQG100L9V1B			29.2	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044 x4	0.3 x4
FCQG50FVEB	x3	RZQG100L9V1B			28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039 x3	0.3 x3
FCQG71FVEB	x2	RZQG100L9V1B			28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.054 x2	0.4 x2
FCQG140FVEB		RZQG100L9V1B			28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	x4	RZQG100L9V1B			29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050 x4	0.4 x4
FFQ50C2VEB	x3	RZQG100L9V1B			29.2	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050 x3	0.4 x3
FBQ35C8VEB	x4	RZQG100L9V1B			30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.089 x4	0.6 x4
FBQ50C8VEB	x3	RZQG100L9V1B			29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.089 x3	0.6 x3
FBQ71C8VEB	x2	RZQG100L9V1B			28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.070 x2	0.5 x2
FBQ140C8VEB		RZQG100L9V1B			29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.140	1.0
FHQ35CAVEB	x4	RZQG100L9V1B			30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x4	0.6 x4
FHQ50CAVEB	x3	RZQG100L9V1B			29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x3	0.6 x3
FHQ71CAVEB	x2	RZQG100L9V1B			29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091 x2	0.8 x2
FHQ140CAVEB		RZQG100L9V1B			29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.6
FUQ71CVEB	x2	RZQG100L9V1B			29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.046 x2	0.9 x2
FAQ71CVEB	x2	RZQG100L9V1B			28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.048 x2	0.4 x2
FVQ140CVEB		RZQG100L9V1B			29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.270	1.4
FDXS35F2VEB	x4	RZQG100L9V1B			29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034 x4	0.3 x4
FDXS50F2VEB9	x3	RZQG100L9V1B			29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x3	0.5 x3

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
kW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
Cooling
Indoor temperature 27.0°C DB / 19.0°C WB
Outdoor temperature 35.0°C DB
Heating
Indoor temperature 20.0°C DB
Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
The capacity of the MFA must be greater than that of the MCA.
Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
Earth leakage circuit breaker

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RZQG100-125L8Y1

Unit combination			Minimum Ssc value [kVA]
FFQ35B9W1B	x3	RZQG100L8Y1B	936
FFQ50B9W1B	x2		951
FHQ35BWV1B	x3		977
FHQ50BWV1B	x2		936
FBQ35C8VEB	x3		1092
FBQ50C8VEB	x2		1014
FCQG35FVEB	x3		915
FCQG50FVEB	x2		899
FBQ100C8VEB	x1		962
FCQG100FVEB	x1		905
FCQHG100FVEB	x1		941
FAQ100CVEB	x1		884
FVQ100CVEB	x1		936
FHQG100CVEB	x1		936
FUQ100BWV1B	x1		925
FFQ35B9W1B	x4	RZQG125L8Y1B	962
FFQ50B9W1B	x3		993
FFQ60B9W1B	x2		951
FHQ35BWV1B	x4		1014
FHQ50BWV1B	x3		977
FHQ60BWV1B	x2		936
FBQ35C8VEB	x4		1170
FBQ50C8VEB	x3		1092
FBQ60C8VEB	x2		1003
FCQG35FVEB	x4		936
FCQG50FVEB	x3		915
FCQG60FVEB	x2		899
FBQ125C8VEB	x1		993
FCQG125FVEB	x1		925
FCQHG125FVEB	x1		951
FVQ125CVEB	x1		936
FHQG125CVLB	x1		962
FUQ125BWV1B	x1		925
FDQ125C7VEB	x1		993

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NOTES

- In accordance with EN/IEC 61000-3-12[1], it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc[2] ≧ minimum Ssc value.
- [1] European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≦ 75A per phase.
  [2] Short-circuit power

RZQG100-140L(8)Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ35D2VEB	RZQG100L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	18,7	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
FBQ125D2VEB	RZQG125L8Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ60D2VEB	RZQG125L8Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG125L8Y1B				18,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG125L8Y1B				19,4	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ140D2VEB	RZQG140L7Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQG140L7Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG140L7Y1B				18,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG140L7Y1B				19,4	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

1 The RLA is based on the following conditions.
  Indoor temperature 27°C DB / 19°C WB
  Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG100-140L(8)Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFNQ35A2VEB	RZQG100L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	17,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3
2xFNQ60A2VEB	RZQG125L8Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ50A2VEB	RZQG125L8Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG125L8Y1B				18,2	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3
3xFNQ50A2VEB	RZQG140L7Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG140L7Y1B				18,2	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQG125-140L(8)Y1

Indoor		Outdoor		Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQG125EVEB		RZQG125L8Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG125FVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG80FVEB	×2				17,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×2	0.3×2
FCQG125FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	×4				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FFQ60C2VEB	×2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×2	0.6×2
FDXS35F2VEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×3				18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FDXS60F2VEB	×2				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060×2	0.5×2
FBQ35C8VEB	×4				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ60C8VEB	×2				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ125C8VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350	2.1
FDQ125C7VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350	2.1
FVQ125CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.238	1.2
FHQ35CAVEB	x4				19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 4	0.6 x 4
FHQ50CAVEB	x3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3
FHQ60CAVEB	x2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091 x 2	0.6 x 2
FHQ125CAVEB					18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,5
FUQ125CVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,4
FCQG71EVEB	×2	RZQG140L7Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FCQG140EVEB					17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG71FVEB	×2				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	×4				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FDXS35F2VEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×4				18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FBQ35C8VEB	×4				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350	2.1
FHQ140CAVEB					18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.150	1.8
FUQ71CVEB	x2				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.046 x 2	0.9 x 2

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output (kW)

NOTES

1 RLA is based on the following conditions.
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)

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RZQG125-140L(8)Y1

Infrastructure Cooling

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
[illegible]	[illegible]	3N~ 50Hz 380-415V	Minimum 342 V Maximum 456 V	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.021 x2	0.3 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.344	1.4
[illegible]	[illegible]	[illegible]	[illegible]	18.0	—	20	—	14.2	0.064+0.064	0.44+0.44	0.044 x4	0.3 x4
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.029 x3	0.3 x3
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.054 x2	0.4 x2
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.168	1.0
[illegible]	[illegible]	[illegible]	[illegible]	18.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.054 x4	0.4 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.050 x3	0.4 x3
[illegible]	[illegible]	[illegible]	[illegible]	18.0	—	20	—	14.2	0.064+0.064	0.44+0.44	0.089 x4	0.6 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.0	—	20	—	14.2	0.064+0.064	0.44+0.44	0.089 x3	0.6 x3
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.079 x2	0.5 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.4	—	20	—	14.2	0.064+0.064	0.44+0.44	0.181	1.5
[illegible]	[illegible]	[illegible]	[illegible]	18.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.060 x4	0.6 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.060 x3	0.6 x3
[illegible]	[illegible]	[illegible]	[illegible]	18.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.091 x2	0.8 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.150	1.8
[illegible]	[illegible]	[illegible]	[illegible]	18.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.046 x2	0.9 x2
[illegible]	[illegible]	[illegible]	[illegible]	17.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.048 x2	0.4 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.076	1.4
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.034 x4	0.3 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.6	—	20	—	14.2	0.064+0.064	0.44+0.44	0.060 x3	0.5 x3
[illegible]	[illegible]	3N~ 50Hz 380-415V	Minimum 342 V Maximum 456 V	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.021 x2	0.3 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.344	1.4
[illegible]	[illegible]	[illegible]	[illegible]	18.0	—	20	—	14.2	0.064+0.064	0.44+0.44	0.044 x4	0.3 x4
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.029 x3	0.3 x3
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.054 x2	0.4 x2
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.168	1.0
[illegible]	[illegible]	[illegible]	[illegible]	18.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.054 x4	0.4 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.050 x3	0.4 x3
[illegible]	[illegible]	[illegible]	[illegible]	18.0	—	20	—	14.2	0.064+0.064	0.44+0.44	0.089 x4	0.6 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.0	—	20	—	14.2	0.064+0.064	0.44+0.44	0.089 x3	0.6 x3
[illegible]	[illegible]	[illegible]	[illegible]	17.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.079 x2	0.5 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.4	—	20	—	14.2	0.064+0.064	0.44+0.44	0.181	1.5
[illegible]	[illegible]	[illegible]	[illegible]	18.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.060 x4	0.6 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.060 x3	0.6 x3
[illegible]	[illegible]	[illegible]	[illegible]	18.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.091 x2	0.8 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.150	1.8
[illegible]	[illegible]	[illegible]	[illegible]	18.8	—	20	—	14.2	0.064+0.064	0.44+0.44	0.046 x2	0.9 x2
[illegible]	[illegible]	[illegible]	[illegible]	17.5	—	20	—	14.2	0.064+0.064	0.44+0.44	0.048 x2	0.4 x2
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.076	1.4
[illegible]	[illegible]	[illegible]	[illegible]	18.3	—	20	—	14.2	0.064+0.064	0.44+0.44	0.034 x4	0.3 x4
[illegible]	[illegible]	[illegible]	[illegible]	18.6	—	20	—	14.2	0.064+0.064	0.44+0.44	0.060 x3	0.5 x3

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
kW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

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RZAG-LV1

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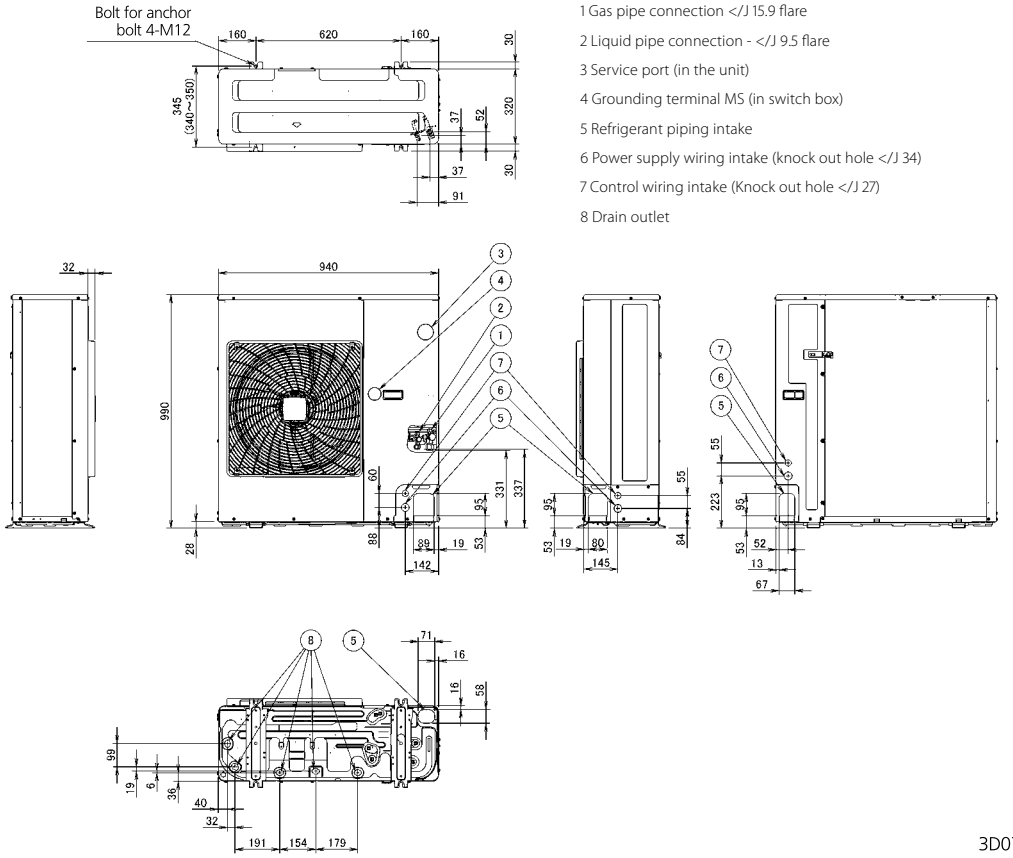
RZQG-L9V1/L8Y1



1 Gas pipe connection </J 15.9 flare
2 Liquid pipe connection - </J 9.5 flare
3 Service port (in the unit)
4 Grounding terminal MS (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole </J 34)
7 Control wiring intake (Knock out hole </J 27)
8 Drain outlet

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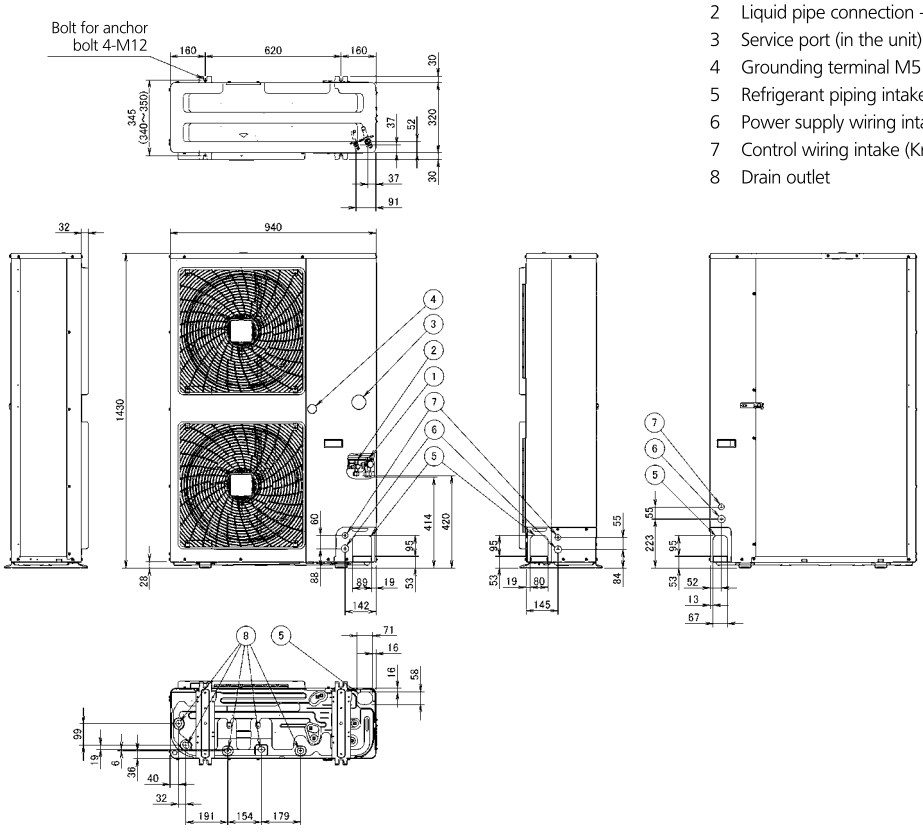
RZQG100-140L9V1/L8Y1



1 Gas pipe connection ϕ 15.9 flare
2 Liquid pipe connection - ϕ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ 34)
7 Control wiring intake (Knock out hole ϕ 27)
8 Drain outlet

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RZQG-L9V1/L8Y1

RZQG-L9V1

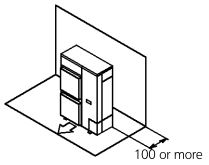
Installation service space

The measure of these values is "mm".

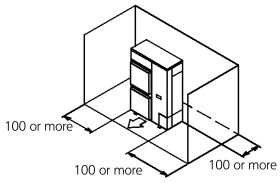
(A) When there are obstacles on suction sides.

- **No obstacle above**

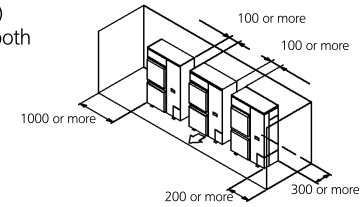
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

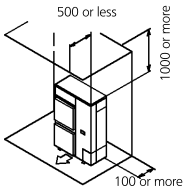


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

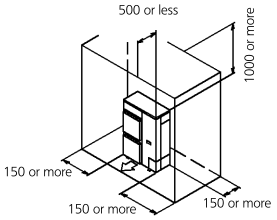


- **Obstacle above, too.**

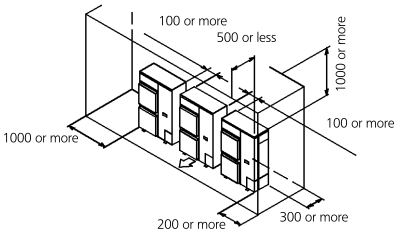
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



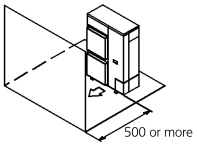
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



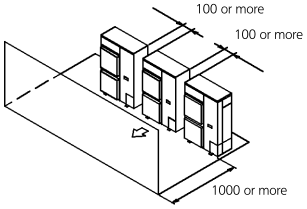
(B) When there are obstacles on discharge sides.

- **No obstacle above**

① Stand-alone installation
- Obstacle on the discharge side only

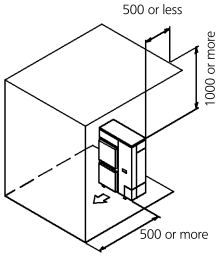


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

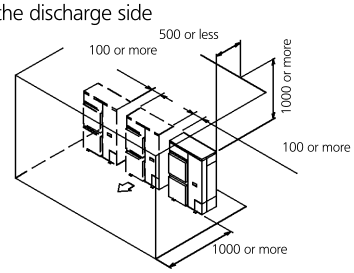


- **Obstacle above, too**

① Stand-alone installation
- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side



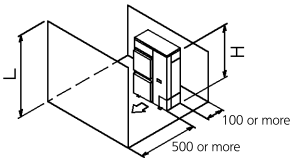
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

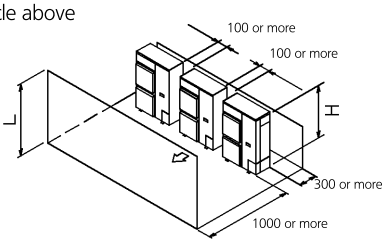
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- No obstacle above



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RZQG-L9V1/L8Y1

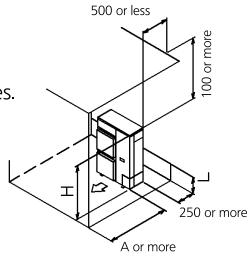
● Obstacle above, too

① Stand-alone installation (Note 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



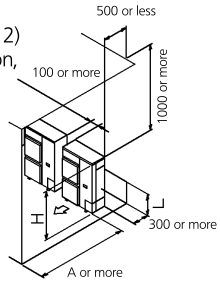
② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	1000 or more
	1/2 H < L ≦ H	1250 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.



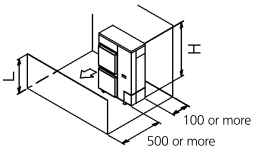
Pattern 2

When the obstacle on the discharge side is lower than the unit (L ≦ H)
(There is no limit for the height of obstructions on the suction side.)

● No obstacle above

① Stand-alone installation

- No obstacle above

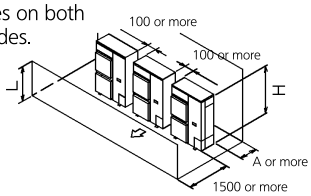


② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

L	A
L ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more



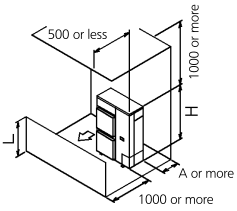
● obstacle above

① Stand-alone installation (Note 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	100 or more
	1/2 H < L ≦ H	200 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



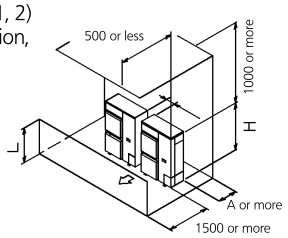
② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

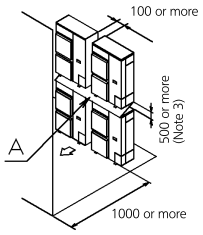
Limit of series installation is 2 units.



(D) Double-decker installation

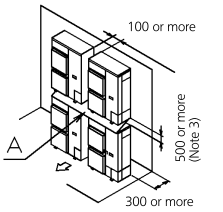
① Obstacle on the discharge side. (1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



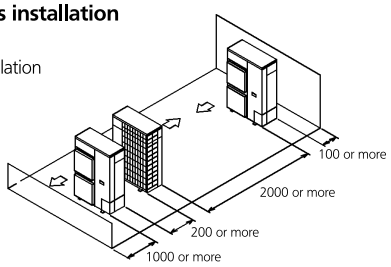
② Obstacle on the suction side. (1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



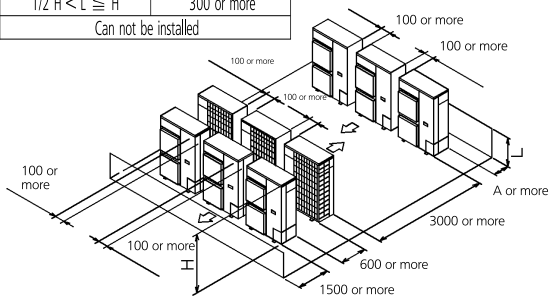
(E) Multiple rows of series installation (on the rooftop, etc.)

① One row of stand-alone installation



② Rows of series installation (2 or more)
The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



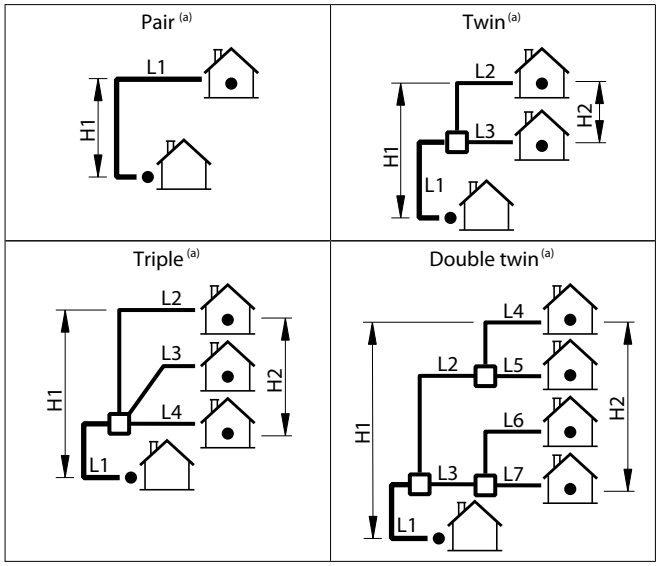
NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. Close off the gap between the upper and lower units so there is no reintake of discharged air.

3D069554

3.4 Charging refrigerant

3.4.1 Definitions: L1~L7, H1, H2



(a) Assume that the longest line in the illustration corresponds with the actual longest pipe, and the highest unit in the illustration corresponds with the actual highest unit.
L1 Main piping
L2~L7 Branch piping
H1 Height difference between the highest indoor unit and the outdoor unit
H2 Height difference between the highest and the lowest indoor unit
□ Refrigerant branch kit

3.4.2 To determine the additional refrigerant amount

To determine if adding additional refrigerant is necessary

If	Then
(L1+L2+L3+L4+L5+L6+L7)≤ chargeless length Chargeless length= ▪ 10 m (size-down) ▪ 30 m (standard) ▪ 15 m (size-up)	You do not have to add additional refrigerant.
(L1+L2+L3+L4+L5+L6+L7)> chargeless length	You must add additional refrigerant. For future servicing, encircle the selected amount in the tables below.

INFORMATION

Piping length is the largest one way length of liquid piping.

To determine the additional refrigerant amount (R in kg) (in case of pair)

	L1 (m)			
L1 (standard):	30~40 m	40~50 m	50~60 m (a)	60~75 m (a)
L1 (size-up):	15~20 m	20~25 m	25~30 m (a)	30~35 m (a)
R:	0.5 kg	1.0 kg	1.5 kg	2.0 kg

(a) Only for RZQG100~140.

To determine the additional refrigerant amount (R in kg) (in case of twin, triple and double twin)

1 Determine G1 and G2.

G1 (m)	Total length of <x> liquid piping x=Ø9.5 mm (standard) x=Ø12.7 mm (size-up)
G2 (m)	Total length of Ø6.4 mm liquid piping

2 Determine R1 and R2.

If	Then
G1>30 m (a)	Use the table below to determine R1 (length= G1−30 m)(a) and R2 (length=G2).
G1≤30 m (a) (and G1+G2>30 m) (a)	R1=0.0 kg. Use the table below to determine R2 (length= G1+G2−30 m)(a).

(a) In case of size-up: Replace 30 m by 15 m.

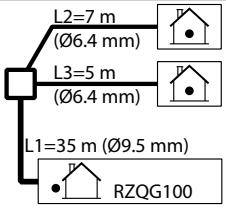
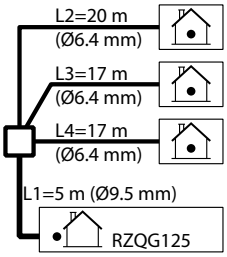
In case of standard liquid pipe size:					
		Length			
		0~10 m	10~20 m	20~30 m (a)	30~45 m (a)
	R1:	0.5 kg	1.0 kg	1.5 kg	2.0 kg
	R2:	0.3 kg	0.6 kg	0.9 kg	1.2 kg

In case of size-up liquid pipe size:					
		Length			
		0~5 m	5~10 m	10~15 m (a)	15~20 m (a)
	R1, R2:	0.5 kg	1.0 kg	1.5 kg	2.0 kg

(a) Only for RZQG100~140.

3 Determine the additional refrigerant amount: R=R1+R2.

Examples

Layout	Additional refrigerant amount (R)		
	Case: Twin, standard liquid pipe size		
	1	G1	Total Ø9.5 => G1=35 m
		G2	Total Ø6.4 => G2=7+5=12 m
	2	Case: G1>30 m	
		R1	Length=G1−30 m=5 m => R1=0.5 kg
		R2	Length=G2=12 m => R2=0.6 kg
	3	R	R=R1+R2=0.5+0.6=1.1 kg
	Case: Triple, standard liquid pipe size		
	1	G1	Total Ø9.5 => G1=5 m
		G2	Total Ø6.4 => G2=20+17+17=54 m
	2	Case: G1≤30 m (and G1+G2>30 m)	
		R1	R1=0.0 kg
		R2	Length=G1+G2−30 m=5+54−30=29 m => R2=0.9 kg
	3	R	R=R1+R2=0.0+0.9=0.9 kg

Seasonal Classic

Pair, Twin, Triple, double twin

Technology and comfort combined for commercial applications

› Top efficiency:
› Energy labels up to A++ (cooling) /A+ (heating) for RZQG71/100L9V1 + FCQG71/100F
› compressor that offers substantial efficiency improvements
› control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active)
› heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load)
› via improved nominal performances
› Re-use of existing R-22 or R-407C technology

RZQSG100-125L3/9V1/L(8)Y1

› Guarantees operation in both heating and cooling mode down to -15°C
› With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
› Maximum piping length up to 50m, minimum piping length is 5m.
› Outdoor units for pair, twin, triple, double twin application
› Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
› Compatibility with D-BACS
› Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.

Twin, triple and double twin application

		FCQHG-F	FCQG-F				FFQ-C			FDXS-F(9)			FBQ-D				FHQ-C				FAQ-C	FNQ-A		
capacity class		71	35	50	60	71	35	50	60	35	50	60	35	50	60	71	35	50	60	71	71	35	50	60
RZQSG71L3V1			2				2			2			2				2					2		
RZQSG100L9V1	RZQSG100L8Y1		3	2			3	2		3	2		3	2			3	2				3	2	
RZQSG125L9V1	RZQSG125L8Y1		4	3	2		4	3	2	4	3	2	4	3	2		4	3	2			4	3	2
RZQSG140L9V1	RZQSG140LY1	2	4	3		2	4	3		4	3		4	3		2	4	3		2	2	4	3	

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72	74	95	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
		IU - IU	Max.	m	0.5						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			16		20

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

RZQSG-L3_9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQSG71L3V1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	19	20	–	16,2	0,07	0,3	2x0.034	2x0.3
2xFNQ50A2VEB	RZQSG100L9V1B				28,9	32	–	24,4	0,2	0,6	2x0.06	2x0.5
3xFNQ35A2VEB	RZQSG100L9V1B				28,8	32	–	24,4	0,2	0,6	3x0.034	3x0.3
2xFNQ60A2VEB	RZQSG125L9V1B				29	32	–	24,4	0,2	0,6	2x0.06	2x0.5
3xFNQ50A2VEB	RZQSG125L9V1B				29,5	32	–	24,4	0,2	0,6	3x0.06	3x0.5
4xFNQ35A2VEB	RZQSG125L9V1B				29,2	32	–	24,4	0,2	0,6	4x0.034	4x0.3
3xFNQ50A2VEB	RZQSG140L9V1B				29,5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQSG140L9V1B				29,2	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps (A)

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output (kW)
Rhz Rated operating frequency (Hz)
COMP Compressor

3D096315C

RZQSG71-100L3 9V1

Indoor		Outdoor	Hz Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG125FVEB		RZQSG125L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.4	0.2	0.6	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.4	0.2	0.6	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.4	0.2	0.6	0.039×3	0.3×3
FCQG60FVEB	×2				28.3	—	32	—	24.4	0.2	0.6	0.044×2	0.3×2
FCQG125FVEB					28.8	—	32	—	24.4	0.2	0.6	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.4	0.2	0.6	0.05×4	0.4×4
FFQ50C2VEB	×3				29.0	—	32	—	24.4	0.2	0.6	0.05×3	0.4×3
FFQ60C2VEB	×2				29.0	—	32	—	24.4	0.2	0.6	0.05×2	0.6×2
FDXS35F2VEB	×4				29.0	—	32	—	24.4	0.2	0.6	0.034×4	0.3×4
FDXS50F2VEB9	×3				29.4	—	32	—	24.4	0.2	0.6	0.06x3	0.5×3
FDXS60F2VEB	×2				28.8	—	32	—	24.4	0.2	0.6	0.060×2	0.5×2
FBQ35C8VEB	×4				33.5	—	40	—	24.4	0.2	0.6	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.4	0.2	0.6	0.140×3	1.2×3
FBQ60C8VEB	×2				30.3	—	32	—	24.4	0.2	0.6	0.350×2	1.1×2
FBQ125C8VEB					30.1	—	32	—	24.4	0.2	0.6	0.350	2.1
FDQ125C7VEB					30.1	—	32	—	24.4	0.2	0.6	0.350	2.1
FVQ125CVEB					29.0	—	32	—	24.4	0.2	0.6	0.238	1.2
FHQ35CAVEB	x4				30.5	—	32	—	24.4	0.2	0.6	0.060x4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.4	0.2	0.6	0.060x3	0,6 x 3
FHQ60CAVEB	x2				29.0	—	32	—	24.4	0.2	0.6	0.091x2	0,6 x 2
FHQ125CAVEB					29.4	—	32	—	24.4	0.2	0.6	0.150	1.5
FCQHG71FVEB	×2	RZQSG140L9V1	50Hz 220-240V	Min. 198V Max. 264V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×3				29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06x3	0.5×3
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FAQ71CVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FVQ140CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.276	1.4
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 3	0,6 x 3
FHQ71CAVEB	x2				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091 x 2	0,8 x 2
FHQ140CAVEB					29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.15	1.8

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQSG71-100L3_9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFBQ60D2VEB	RZQSG125L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	29	32	–	24,4	0,2	0,6	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG125L9V1B				29,8	32	–	24,4	0,2	0,6	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG125L9V1B				30,4	32	–	24,4	0,2	0,6	4x0.089	4x0.6
FBQ140D2VEB	RZQSG140L9V1B				29,5	32	74	24,2	0.094 + 0.094	0.4 + 0.4	0.187	1,5
2xFBQ71D2VEB	RZQSG140L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG140L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG140L9V1B				30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQSG71-100L3_9V1

							Comp		OFM		IFM	
Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQHG71FVEB		RZQSG71L3V1	50Hz 220-240V	Min. 198V Max. 264V	18.8	–	20	–	16.2	0.07	0.3	0.091	0.5
FCQG35FVEB	×2				18.9	–	20	–	16.2	0.07	0.3	0.044×2	0.3×2
FCQG71FVEB					18.7	–	20	–	16.2	0.07	0.3	0.054	0.4
FFQ35C2VEB	×2				19.2	–	20	–	16.2	0.07	0.3	0.050×2	0.4×2
FDXS35F2VEB	×2				18.9	–	20	–	16.2	0.07	0.3	0.034×2	0.3×2
FBQ35C8VEB	×2				21.2	–	25	–	16.2	0.07	0.3	0.140×2	1.2×2
FBQ71C8VEB					19.5	–	20	–	16.2	0.07	0.3	0.350	1.1
FAQ71CVEB					18.7	–	20	–	16.2	0.07	0.3	0.048	0.4
FVQ71CVEB					18.9	–	20	–	16.2	0.07	0.3	0.117	0.6
FHQ35CAVEB	x2				19.1	–	20	–	15.7	0.07	0.3	0.060 x 2	0.6 x 2
FHQ71CAVEB					18.6	–	20	–	15.7	0.07	0.3	0.091	0.8
FCQHG100FVEB		RZQSG100L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.1	–	32	–	24.4	0.2	0.6	0.221	1.3
FCQG35FVEB	×3				28.6	–	32	–	24.4	0.2	0.6	0.044×3	0.3×3
FCQG50FVEB	×2				28.3	–	32	–	24.4	0.2	0.6	0.039×2	0.3×2
FCQG100FVEB					28.4	–	32	–	24.4	0.2	0.6	0.117	0.7
FFQ35C2VEB	×3				29.0	–	32	–	24.4	0.2	0.6	0.05×3	0.4×3
FFQ50C2VEB	×2				28.5	–	32	–	24.4	0.2	0.6	0.05×2	0.4×2
FDXS35F2VEB	×3				28.6	–	32	–	24.4	0.2	0.6	0.034×3	0.3×3
FDXS50F2VEB9	×2				28.8	–	32	–	24.4	0.2	0.6	0.06x2	0.5x2
FBQ35C8VEB	×3				32.0	–	40	–	24.4	0.2	0.6	0.140×3	1.2×3
FBQ50C8VEB	×2				30.5	–	32	–	24.4	0.2	0.6	0.140×2	1.2×2
FBQ100C8VEB					29.5	–	32	–	24.4	0.2	0.6	0.350	1.6
FAQ100CVEB					28.0	–	32	–	24.4	0.2	0.6	0.064	0.4
FVQ100CVEB					29.0	–	32	–	24.4	0.2	0.6	0.238	1.2
FHQ35CAVEB	x3				29.8	–	32	–	24.4	0.2	0.6	0.060 x 3	0.6 x 3
FHQ50CAVEB	x2				29.0	–	32	–	24.4	0.2	0.6	0.060 x 2	0.6 x 2
FHQ100CAVEB					29.1	–	32	–	24.4	0.2	0.6	0.150	1.3

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQSG71L3V1

Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp. MSC	Comp. RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB		RZQSG71L3V1	50Hz 220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5
FCQG35FVEB	×2				18.9	—	20	—	16.2	0.07	0.3	0.044×2	0.3×2
FCQG71FVEB					18.7	—	20	—	16.2	0.07	0.3	0.054	0.4
FFQ35B9V1B	×2				19.2	—	20	—	16.2	0.07	0.3	0.065×2	0.4×2
FFQ35C2VEB	×2				18.9	—	20	—	16.2	0.07	0.3	0.050×2	0.3×2
FBQ35C8VEB	×2				21.2	—	25	—	16.2	0.07	0.3	0.140×2	1.2×2
FBQ71C8VEB					19.5	—	20	—	16.2	0.07	0.3	0.350	1.1
FHQ35BW1B	×2				19.7	—	20	—	16.2	0.07	0.3	0.062×2	0.6×2
FHQG71CVEB					19.2	—	20	—	16.2	0.07	0.3	0.091	0.8
FAQ71CVEB					18.7	—	20	—	16.2	0.07	0.3	0.048	0.4
FVQ71CVEB					18.9	—	20	—	16.2	0.07	0.3	0.117	0.6
FFQ35C2VEB	×2				19.2	—	20	—	16.2	0.07	0.3	0.050×2	0.4×2
FDXS35F2VEB	×2				18.9	—	20	—	16.2	0.07	0.3	0.034×2	0.3×2

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
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Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB

2 TOCA means the total value of each OC set.

3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.

4 Maximum allowable voltage variation between phases is 2%.

5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)

6 Select wire size based on the larger value of MCA or TOCA.

7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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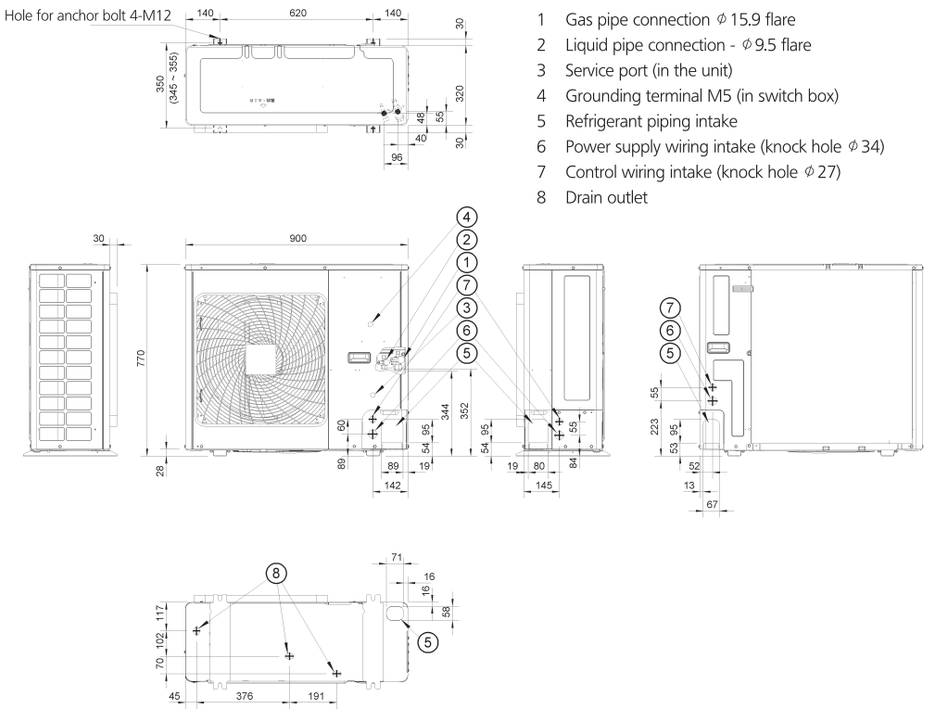
Detailed technical drawings

RZQSG71L3V1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock hole ϕ34)
7 Control wiring intake (knock hole ϕ27)
8 Drain outlet

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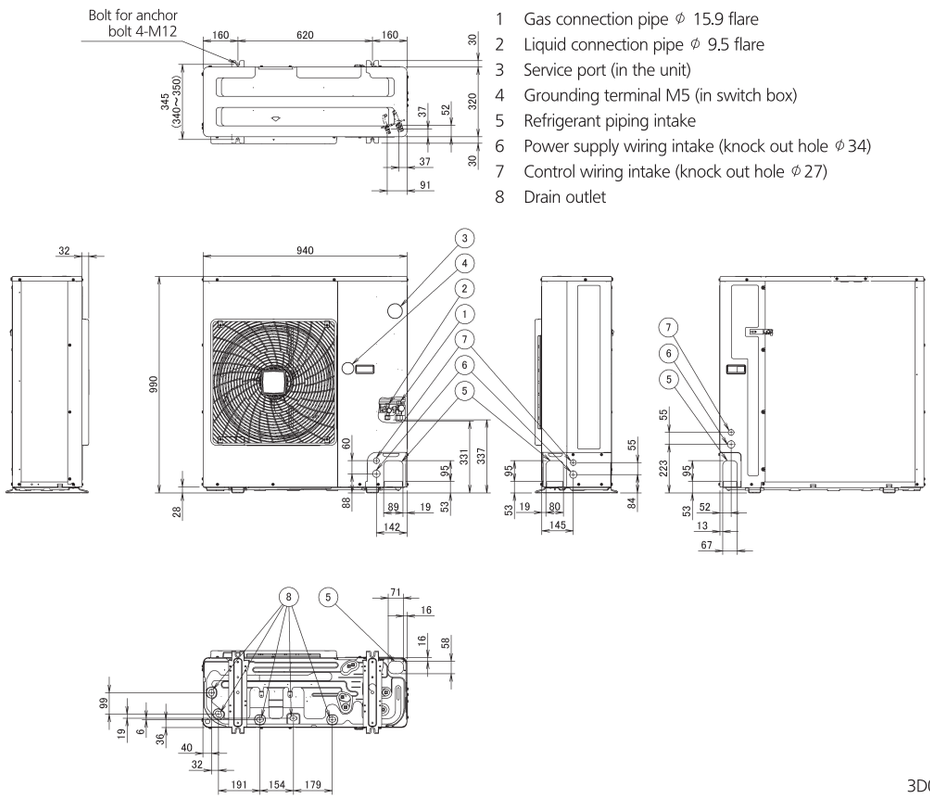
RZQSG100-125L9V1/L8Y1



1 Gas connection pipe ϕ 15.9 flare
2 Liquid connection pipe ϕ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (knock out hole ϕ27)
8 Drain outlet

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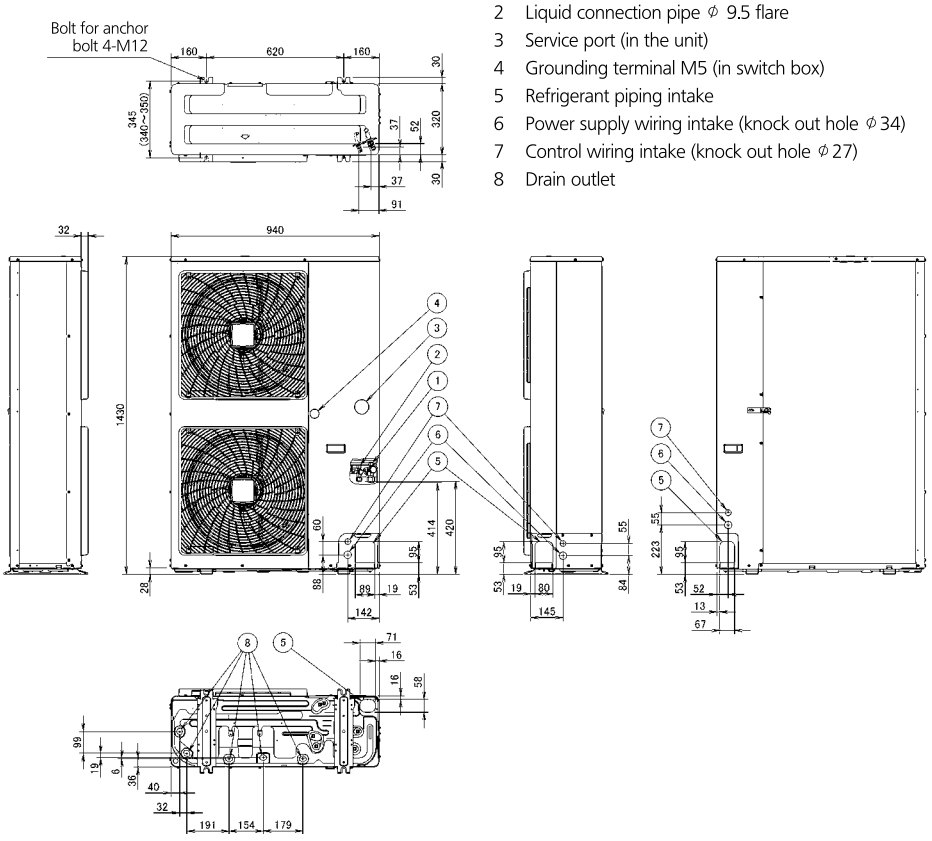
RZQSQ140LY1



1 Gas connection pipe ϕ 15.9 flare
2 Liquid connection pipe ϕ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (knock out hole ϕ27)
8 Drain outlet

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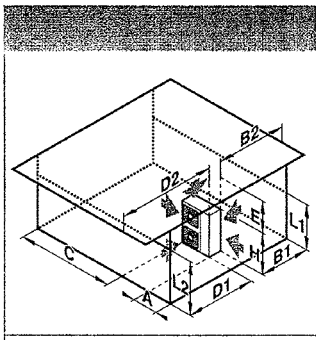
RZQSG71L3V1

A. Non stacked installation



							A	B1	B2	C	D1	D2	E	L1/L2	
✓								≥50(100)							
✓		✓	✓				≥100	≥100		≥100					
✓				✓				≥100				≤500	≥1000		
✓		✓	✓	✓			≥150	≥150		≥150		≤500	≥1000		
	✓										≥500				
	✓			✓					≤500		≥500		≥1000		
✓	✓				L1<L2			≥50(100)			≥500				
					L2<L1			≥50(100)			≥500				
✓	✓			✓	L1<L2	L1≤H		≥150(250)	≤500		≥750		≥1000	0<L1≤1/2H	1
											≥1000			0<L1≤1/2H	
						H<L1		L1≤H							
					L2<L1	L2≤H		≥50(100)			≥500 (1000)	≥500	≥1000	0<L2≤1/2H	
								≥100(200)						1/2H<L2≤H	
						H<L2		L2≤H							
✓		✓	✓				≥200	≥200(300)		≥1000					
✓		✓	✓	✓			≥200	≥200(300)		≥1000		≤500	≥1000		
	✓										≥1000				
	✓			✓					≤500		≥1000		≥1000		
✓	✓				L1<L2			≥200(300)			≥1000				
					L2<L1			≥150(250)			≥1000 (1500)			0<L1≤1/2H	
								≥200(300)						1/2H<L1≤H	
✓	✓			✓	L1<L2	L1≤H		≥200(300)	≤500		≥1000		≥1000	0<L1≤1/2H	1
											≥1250			1/2H<L1≤H	
						H<L1		L1≤H							
					L2<L1	L2≤H		≥150(250)			≥1000 (1500)	≤500	≥1000	0<L2≤1/2H	2
								≥200(300)						1/2H<L2≤H	
						H<L2		L2≤H							

Legend Unit: mm

- Suction side obstacle
- Discharge side obstacle
- Left side obstacle
- Right side obstacle
- Top side obstacle
- ✓ Obstacle is present

1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

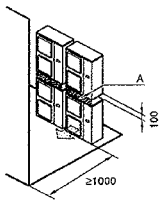
2 In these cases, only 2 units can be installed.

This situation is not allowed.

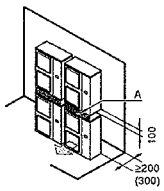
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



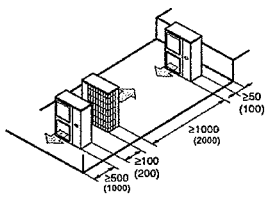
2. Obstacles exist in front of the air inlet



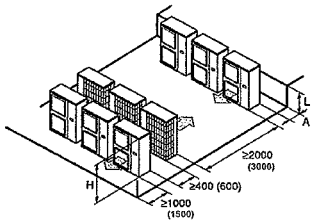
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

C. Multiple-row installation

1. Installation of one unit per row



2. Installing multiple units (2 units or more) in lateral connection per row



Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

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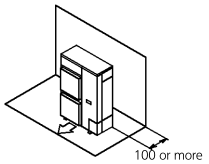
Installation service space

The measure of these values is "mm".

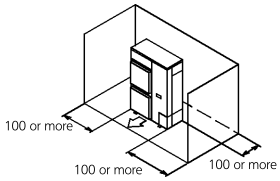
(A) When there are obstacles on suction sides.

- **No obstacle above**

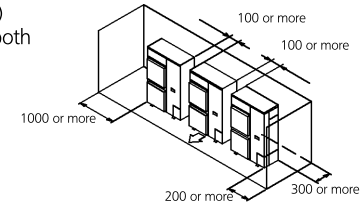
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

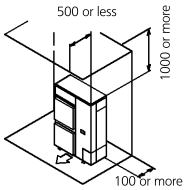


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

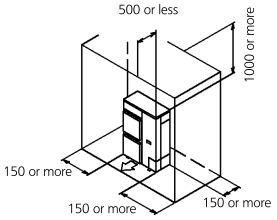


- **Obstacle above, too.**

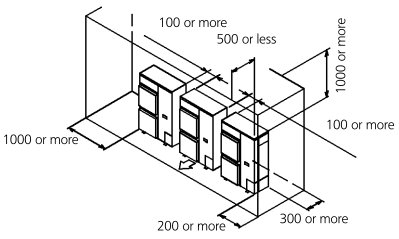
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



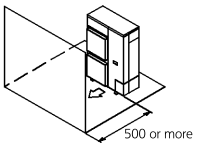
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



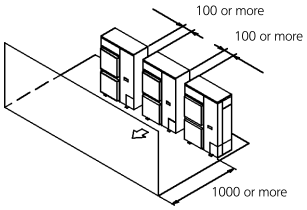
(B) When there are obstacles on discharge sides.

- **No obstacle above**

① Stand-alone installation
- Obstacle on the discharge side only

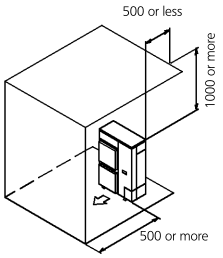


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

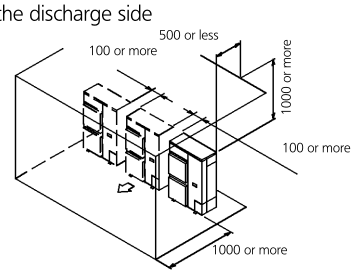


- **Obstacle above, too**

① Stand-alone installation
- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side



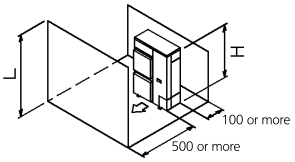
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

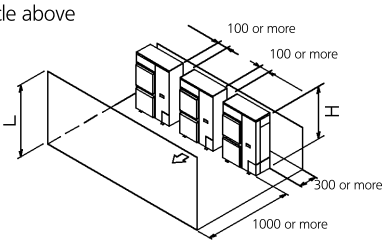
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- No obstacle above



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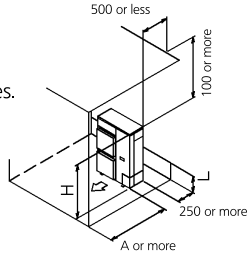
- **Obstacle above, too**

① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

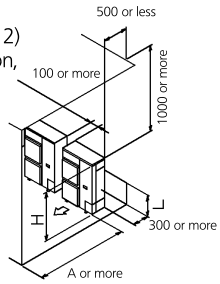


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	1000 or more
	1/2 H < L ≦ H	1250 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

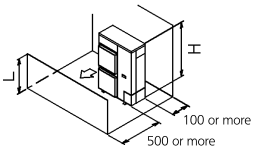


Pattern 2

When the obstacle on the discharge side is lower than the unit (L ≦ H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

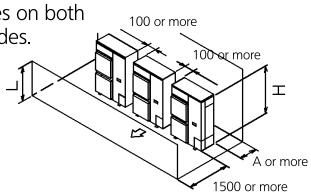
① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

L	A
L ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more

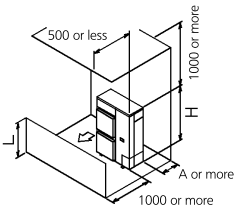


- **Obstacle above, too**

① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	100 or more
	1/2 H < L ≦ H	200 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

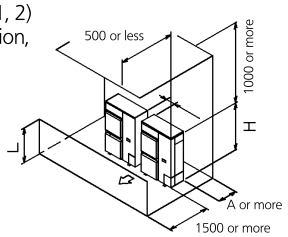


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

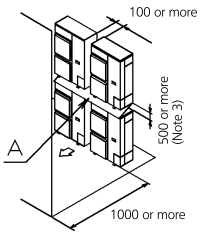
	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

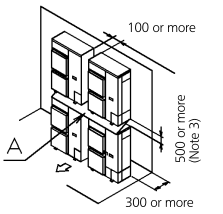


(D) Double-decker installation

① Obstacle on the discharge side. (Note 1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.

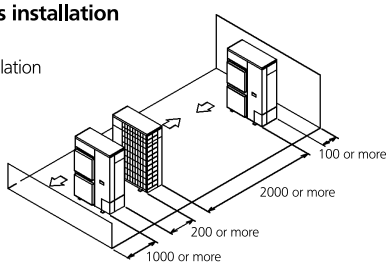


② Obstacle on the suction side. (Note 1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



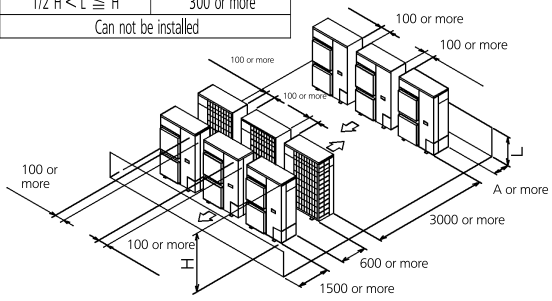
(E) Multiple rows of series installation (on the rooftop, etc.)

① One row of stand-alone installation



② Rows of series installation (2 or more)
The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing.
In this case, the space between the upper and lower outdoor units should be at least 100mm.
Close off the gap between the upper and lower units so there is no reintake of discharged air.

3D069554

Pair, Twin, Triple, double twin

Packaged system for commercial applications

- Available as 20 and 25kW
- Re-use of existing R-22 or R-407C technology
- Guarantees operation in heating mode down to -15°C
- Standard night quiet mode
- Maximum piping length up to 100m
- Maximum installation height difference up to 30m
- Wide range of connectable indoor units

RZQ200-250C

Twin, triple and double twin application

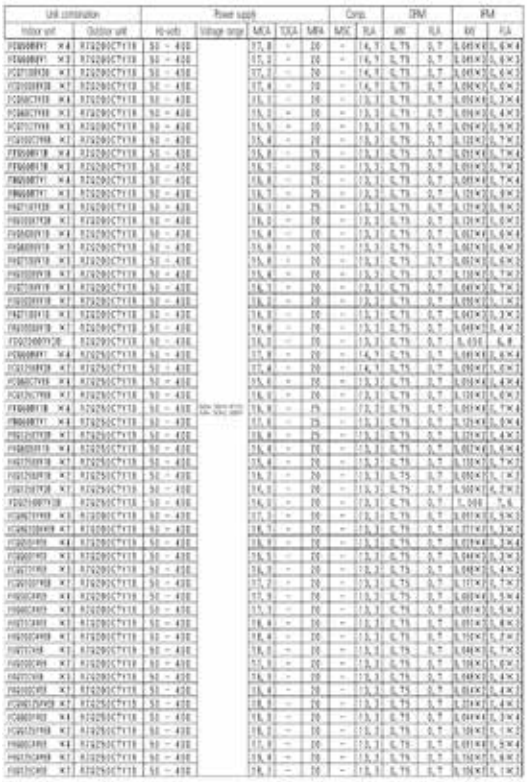
	FCQG-F					FFQ-C		FDXS-F(9)		FBQ-D					FHQ-C					FUQ-C			FAQ-C		FDQ-C	FNQ-A	
capacity class	50	60	71	100	125	50	60	50	60	50	60	71	100	125	50	60	71	100	125	71	100	125	71	100	125	50	60
RZQ200C	4	3	3	2		4	3	4	3	4	3	3	2		4	3	3	2		3	2		3	2		4	3
RZQ250C		4			2		4		4		4			4		2			2			2			2		4

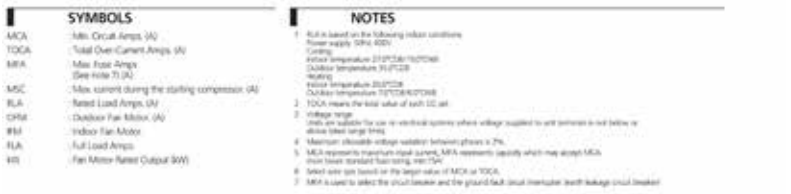
Outdoor unit					RZQ	200C	250C
Dimensions	Unit	HeightxWidthxDepth			mm	1,680x930x765	
Weight	Unit				kg	183	184
Sound power level	Cooling				dBA	78	
	Heating				dBA	78	
Sound pressure level	Nom.				dBA	57	
Operation range	Cooling	Ambient	Min.~Max.		°CDB	-5.0~46.0	
	Heating	Ambient	Min.~Max.		°CWB	-15.0~15.0	
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP					R-410A/8.3/17.3/2,087.5	R-410A/9.3/19.4/2,087.5
Piping connections	Liquid	OD			mm	9.52	12.7
	Gas	OD			mm	22.20	
	Piping length	OU - IU	Max.		m	100	
	Level difference	IU - OU	Max.		m	-	
Power supply	Phase / Frequency / Voltage				Hz / V	3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)				A	20	

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

RZQ-C

RZQ-C





3D056844B

RZQ-C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ60D2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	15,5	20	–	13,3	0,75	0,7	3x0.07	3x0.5
4xFBQ50D2VEB	RZQ200C7Y1B				16,4	20	–	13,3	0,75	0,7	4x0.089	4x0.6
2xFBQ125D2VEB	RZQ250C7Y1B				17	20	–	13,3	0,75	0,7	2x0.187	2x1.5
4xFBQ60D2VEB	RZQ250C7Y1B				16	20	–	13,3	0,75	0,7	4x0.07	4x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQ-C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFNQ60A2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	15,5	16	-	13,3	0,75	0,7	3x0.06	3x0.5
4xFNQ50A2VEB	RZQ200C7Y1B				16	20	-	13,3	0,75	0,7	4x0.06	4x0.5
4xFNQ60A2VEB	RZQ250C7Y1B				16	20	-	13,3	0,75	0,7	4x0.06	4x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQ200C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFBQ100D2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	16	20	-	13,3	0,75	0,7	2x0.127	2x1
3xFBQ71D2VEB	RZQ200C7Y1B				15,5	20	-	13,3	0,75	0,7	3x0.07	3x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQ200-250C

Unit combination			Minimum Ssc value [kVA]
FCQ50C7VEB	x4	RZQ200C7Y1B	-
FCQ60C7VEB	x3	RZQ200C7Y1B	-
FCQ71C7VEB	x3	RZQ200C7Y1B	-
FCQ100C7VEB	x2	RZQ200C7Y1B	-
FFQ50BV1B	x4	RZQ200C7Y1B	1025
FFQ60BV1B	x3	RZQ200C7Y1B	1025
FBQ50B7V1	x4	RZQ200C7Y1B	1025
FBQ60B7V1	x3	RZQ200C7Y1B	1025
FBQ71B7V3B	x3	RZQ200C7Y1B	1025
FBQ100B7V3B	x2	RZQ200C7Y1B	-
FHQ50BUV1B	x4	RZQ200C7Y1B	1025
FHQ60BUV1B	x3	RZQ200C7Y1B	-
FHQ71BUV1B	x3	RZQ200C7Y1B	-
FHQ100BUV1B	x2	RZQ200C7Y1B	-
FUQ71BUV1B	x3	RZQ200C7Y1B	1025
FUQ100BUV1B	x2	RZQ200C7Y1B	1025
FAQ71BUV1B	x3	RZQ200C7Y1B	-
FAQ100BUV1B	x2	RZQ200C7Y1B	-
FDQ200B7V3B	x1	RZQ200C7Y1B	-
FCQ60C7VEB	x4	RZQ250C7Y1B	-
FCQ125C7VEB	x2	RZQ250C7Y1B	-
FFQ60BV1B	x4	RZQ250C7Y1B	1025
FBQ60B7V1	x4	RZQ250C7Y1B	1025
FBQ125B7V3B	x2	RZQ250C7Y1B	1025
FHQ60BUV1B	x4	RZQ250C7Y1B	1025
FHQ125BUV1B	x2	RZQ250C7Y1B	-
FUQ125BUV1B	x2	RZQ250C7Y1B	1025
FDQ125B7V3B	x2	RZQ250C7Y1B	-
FDQ250B7V3B	x1	RZQ250C7Y1B	-

4TW29041-2

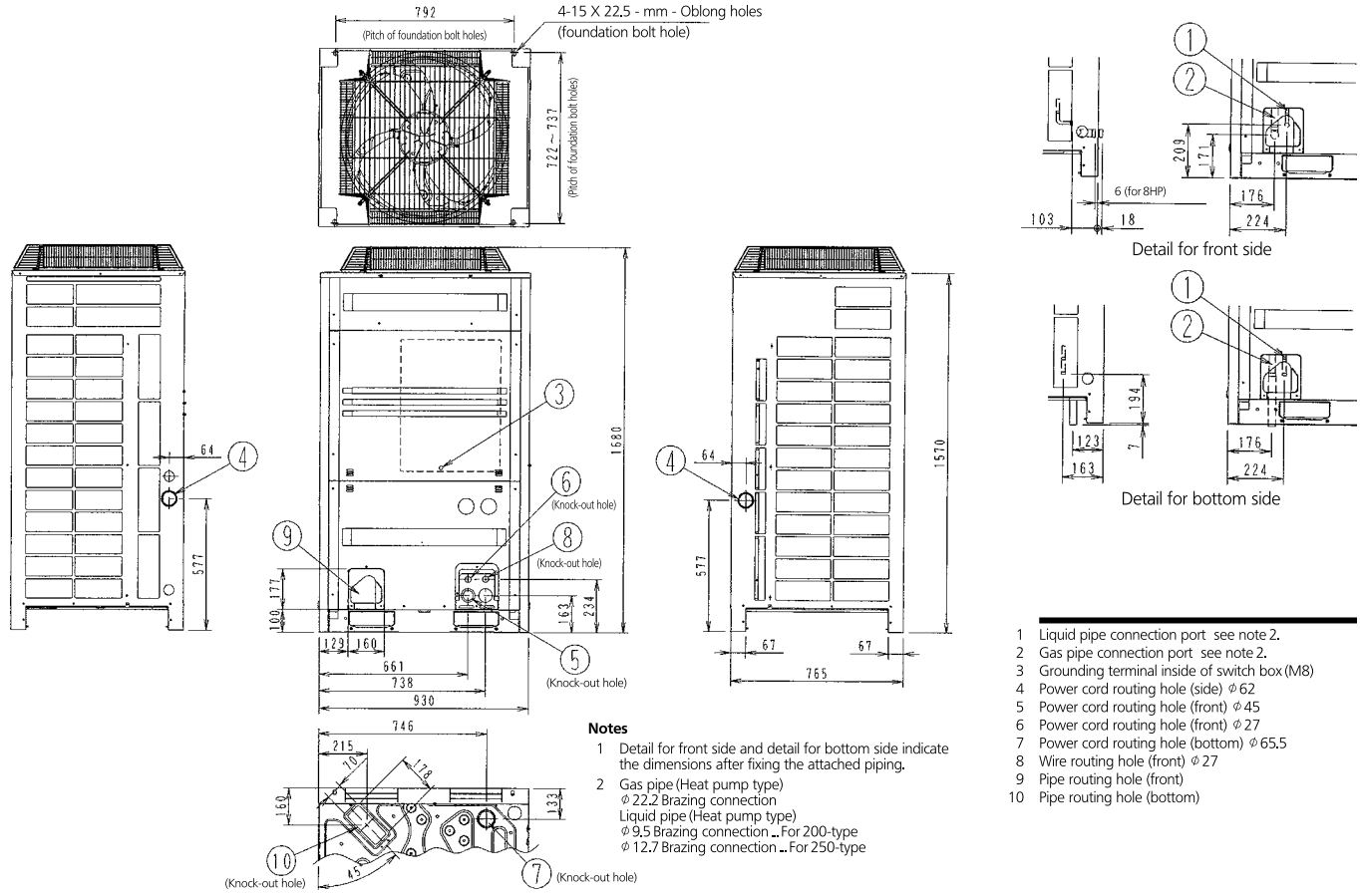
NOTES

-In accordance with EN/IEC 61000-3-12*, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc** ≧ minimum Ssc value.

- (*) European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≦ 75A per phase.

- (**) Short-circuit power

RZQ200-250C



Notes

1 Detail for front side and detail for bottom side indicate the dimensions after fixing the attached piping.

2 Gas pipe (Heat pump type)
Φ 22.2 Brazing connection
Liquid pipe (Heat pump type)
Φ 9.5 Brazing connection ... For 200-type
Φ 12.7 Brazing connection ... For 250-type

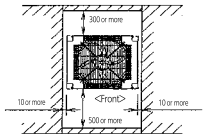
1 Liquid pipe connection port see note 2.
2 Gas pipe connection port see note 2.
3 Grounding terminal inside of switch box (M8)
4 Power cord routing hole (side) Φ 62
5 Power cord routing hole (front) Φ 45
6 Power cord routing hole (front) Φ 27
7 Power cord routing hole (bottom) Φ 65.5
8 Wire routing hole (front) Φ 27
9 Pipe routing hole (front)
10 Pipe routing hole (bottom)

3TW29044-1

RZQ200-250C

For single unit installation

<Pattern 1>



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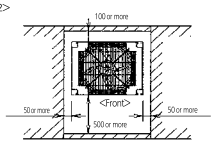

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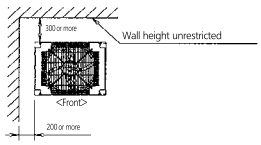
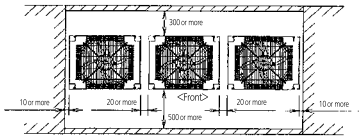


For installation in rows

<Pattern 1>



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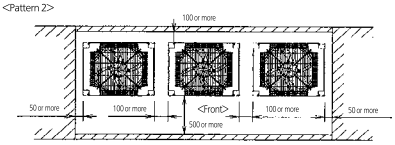
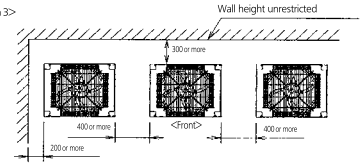
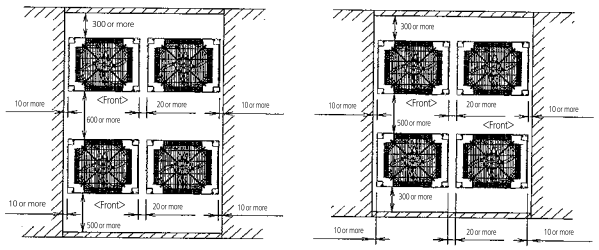


<Pattern 3>



For centralized group layout

<Pattern 1>



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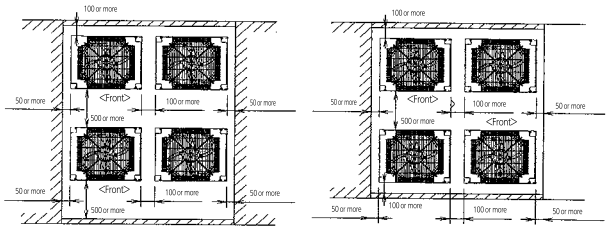


<Unit: mm>

Notes:

1 Heights of walls in case of Patterns 1 and 2:
Front: 1500 mm
suction side: 500 mm
Side: Height unrestricted.
Installation space to be shown in this drawing is based on the cooling operation at 35 degrees outdoor air temperature.
When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability because of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space to be shown in this drawing.

2 If the above wall heights are exceeded then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the figure on the right.

3 When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely.
(If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)

4 The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

3TW29049-3

Pair application

Ideal solution for busy environments and small shops

- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Outdoor units are fitted with either a swing or scroll compressor, renowned for low noise and high energy efficiency
- Exclusively offered for pair applications (capacity from 71 up to 140)
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.

AZQS100-125B8V1/BY1

Pair application

	ACQ-D				ABQ-C				AHQ-C			
capacity class	71	100	125	140	71	100	125	140	71	100	125	140
AZQS-B(8)V1	v	v	v	v	v	v	v	v	v	v	v	v
AZQS-BY1		v	v	v		v	v	v		v	v	v

Outdoor unit				**AZQS**	**71BV1**	**100B8V1**	**125B8V1**	**140B8V1**	**100BY1**	**125BY1**	**140BY1**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	72.8	74.3	94.9	82		101
Sound power level	Cooling			dBA	64	70	71	70		71	70
Sound pressure level	Cooling	Nom.		dBA	48	53	54	53		54	53
	Heating	Nom.		dBA	50	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	43	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.75/5.7/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5	R-410A/2.9/6.1/2,087.5		R-410A/4.0/8.4/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	30.0						
		IU - IU	Max.	m	-	0.5					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32		40	16	20	25

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

AZQS-B(8)V1

Indoor	Outdoor	Hz ~ Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM KW	OFM FLA	IFM kW	IFM FLA
ACQ71DV1	AZQS71B2V1B	50Hz ~220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.067	0.52
ABQ71CV1	AZQS71B2V1B			19.5	—	20	—	16.2	0.07	0.3	0.128	1.05
AHQ71CV1	AZQS71B2V1B			19.2	—	20	—	16.2	0.07	0.3	0.106	0.8
ACQ100DV1	AZQS100B8V1B			28.5	—	32	—	24.4	0.2	0.6	0.094	0.77
ABQ100CV1	AZQS100B8V1B			28.6	—	32	—	24.4	0.2	0.6	0.109	0.9
AHQ100CV1	AZQS100B8V1B			28.9	—	32	—	24.4	0.2	0.6	0.149	1.12
ACQ125DV1	AZQS125B8V1B			28.9	—	32	—	24.4	0.2	0.6	0.137	1.12
ABQ125CV1	AZQS125B8V1B			31.5	—	32	—	24.4	0.2	0.6	0.413	3.16
AHQ125CV1	AZQS125B8V1B			28.9	—	32	—	24.4	0.2	0.6	0.240	1.1
ABQ140CV1	AZQS140B8V1B			32.8	—	40	—	24.2	0.094+0.094	0.4+0.4	0.546	4.23
AHQ140CV1	AZQS140B8V1B			30.7	—	32	—	24.2	0.094+0.094	0.4+0.4	0.316	2.52
ACQ140DV1	AZQS140B8V1B			28.9	—	32	—	24.2	0.094+0.094	0.4+0.4	0.137	1.12
ACQ100DV1	AZQS100B7Y1B	3N~50Hz 380-415V	Min. 342V Max. 456V	14.2	—	16	—	11.4	0.2	0.6	0.094	0.77
ABQ100CV1	AZQS100B7Y1B			14.3	—	16	—	11.4	0.2	0.6	0.109	0.9
AHQ100CV1	AZQS100B7Y1B			14.6	—	16	—	11.4	0.2	0.6	0.149	1.12
ACQ125DV1	AZQS125B7Y1B			14.6	—	16	—	11.4	0.2	0.6	0.137	1.12
ABQ125CV1	AZQS125B7Y1B			17.2	—	20	—	11.4	0.2	0.6	0.413	3.16
AHQ125CV1	AZQS125B7Y1B			14.6	—	16	—	11.4	0.2	0.6	0.240	1.10
ABQ140CV1	AZQS140B7Y1B			21.8	—	25	—	14.2	0.094+0.094	0.4+0.4	0.546	4.23
AHQ140CV1	AZQS140B7Y1B			19.7	—	20	—	14.2	0.094+0.094	0.4+0.4	0.316	2.52
ACQ140DV1	AZQS140B7Y1B			17.9	—	20	—	14.2	0.094+0.094	0.4+0.4	0.137	1.12

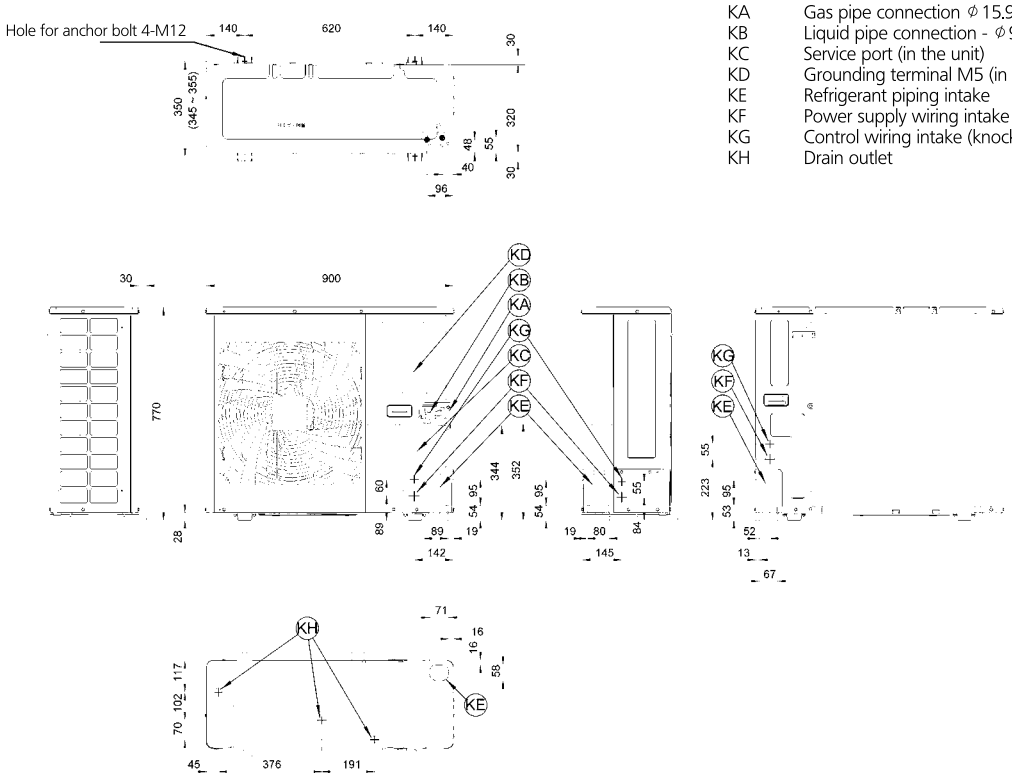
Symbols
- MCA: Minimum Circuit Ampere (A)
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere (A)
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full load amps
- KW: Fan motor rated output [kW]

Notes
1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
   The next lower standard fuse rating is minimum 15 ampere.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker _____

3D090681B

AZQS71B2V1

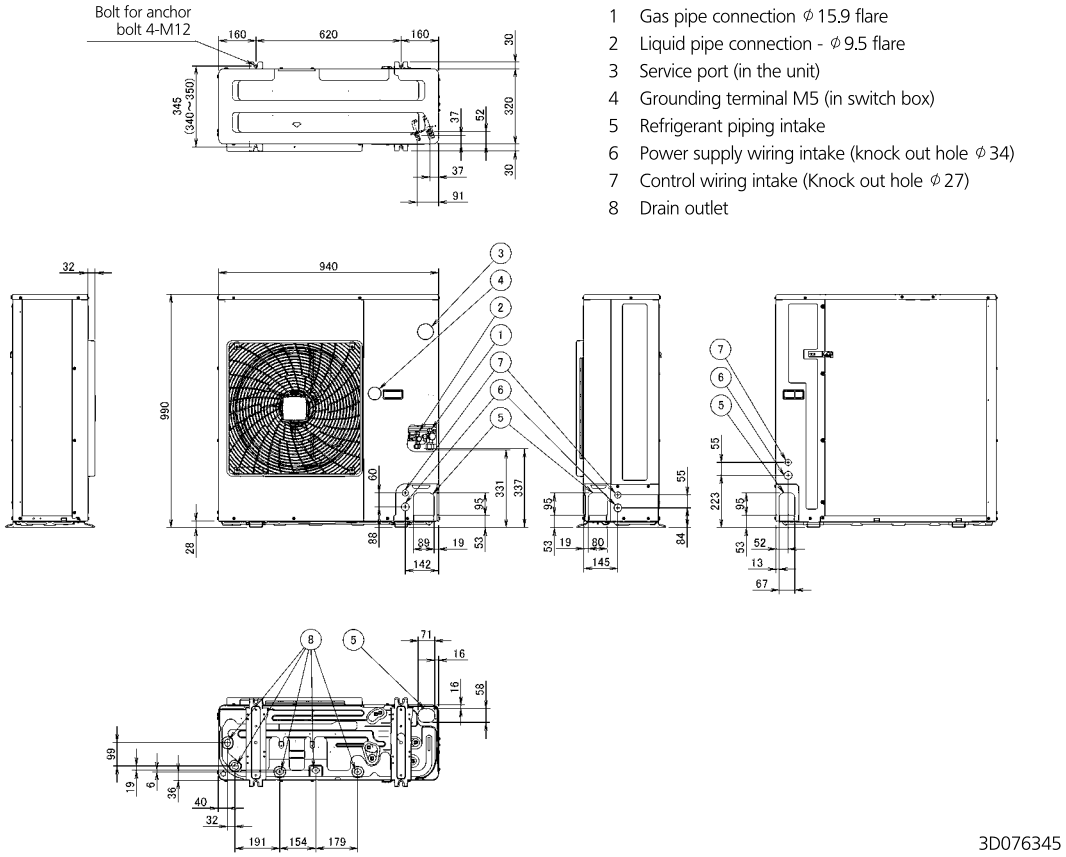
unit (mm)



KA	Gas pipe connection ϕ15.9 flare
KB	Liquid pipe connection - ϕ9.5 flare
KC	Service port (in the unit)
KD	Grounding terminal M5 (in switch box)
KE	Refrigerant piping intake
KF	Power supply wiring intake (knock hole ϕ34)
KG	Control wiring intake (knock hole ϕ27)
KH	Drain outlet

3D081307

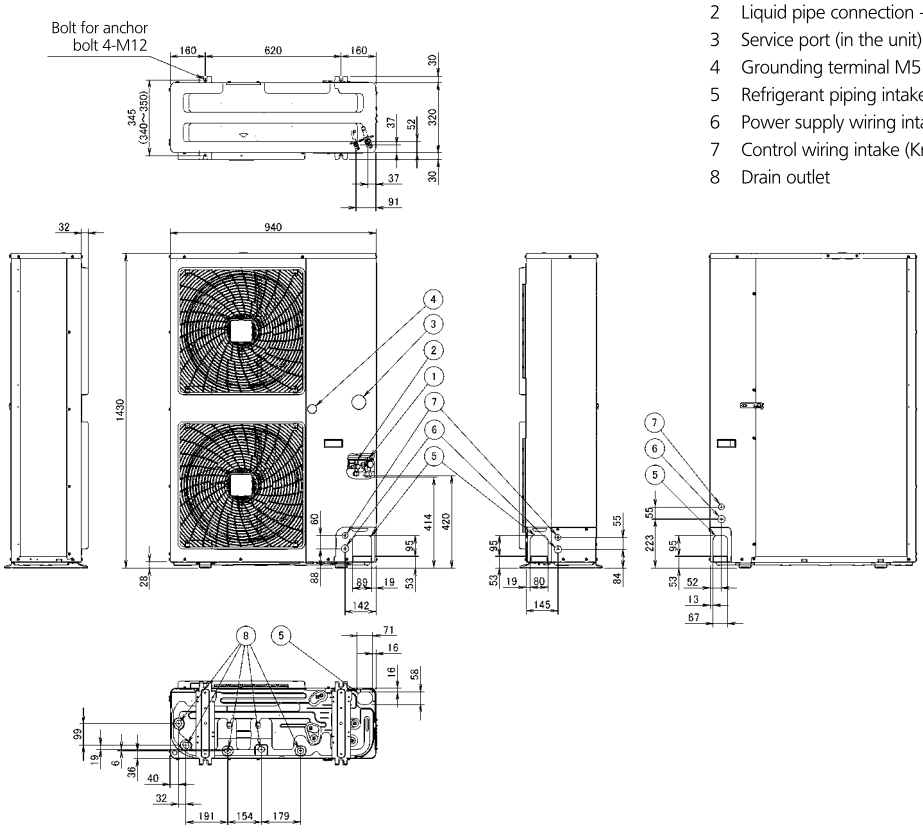
AZQS100-125B8V1/BY1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3D076345

AZQS140B8V1/BY1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3D076346

AZQS-B8V1/BY1

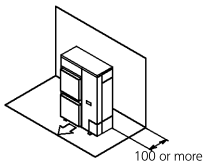
Installation service space

The measure of these values is "mm".

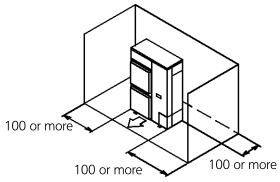
(A) When there are obstacles on suction sides.

- **No obstacle above**

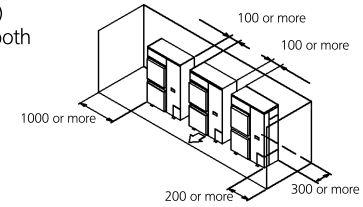
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

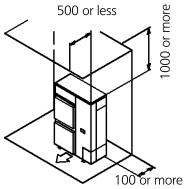


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

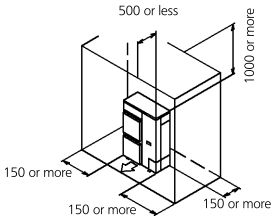


- **Obstacle above, too.**

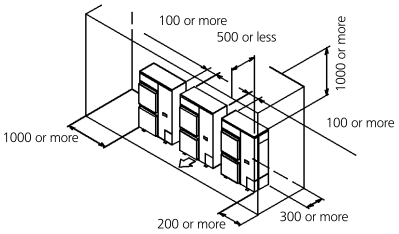
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



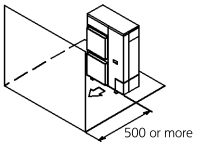
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



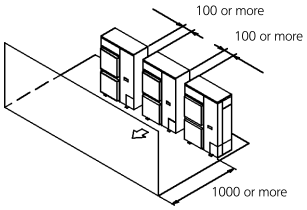
(B) When there are obstacles on discharge sides.

- **No obstacle above**

① Stand-alone installation
- Obstacle on the discharge side only

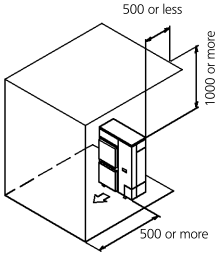


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

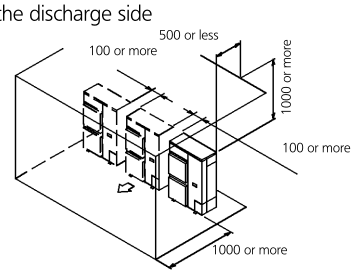


- **Obstacle above, too**

① Stand-alone installation
- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side



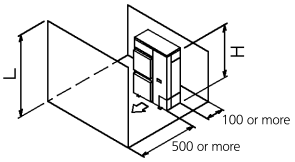
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

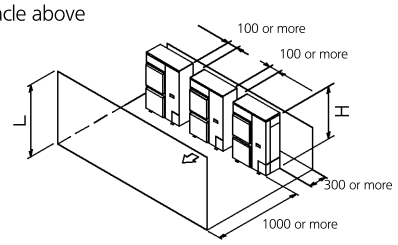
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- No obstacle above



3D069554

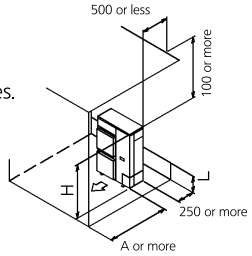
AZQS-B8V1/BY1

● **Obstacle above, too**

① Stand-alone installation (Note 2)
● obstacles on
and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

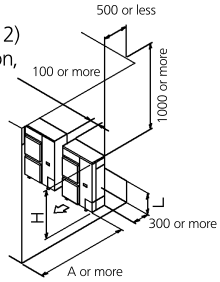


② Series installation (2 or more) (Note 1, 2)
● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	1000 or more
	1/2 H < L ≦ H	1250 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

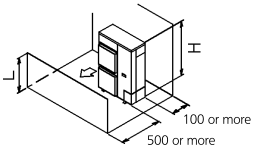


Pattern 2

When the obstacle on the discharge side is lower than the unit (L ≦ H)
(There is no limit for the height of obstructions on the suction side.)

● **No obstacle above**

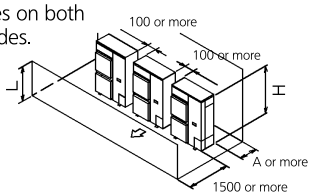
① Stand-alone installation
● No obstacle above



② Series installation (2 or more) (Note 1, 2)
● When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

L	A
L ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more

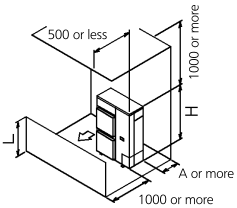


● **obstacle above**

① Stand-alone installation (Note 2)
● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	100 or more
	1/2 H < L ≦ H	200 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

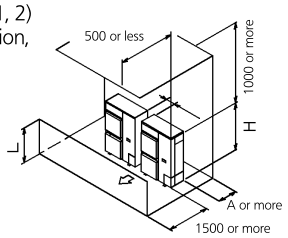


② Series installation (2 or more) (Note 1, 2)
● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

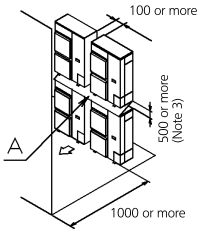
	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

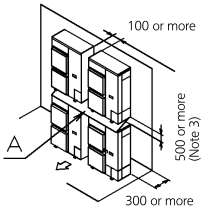


(D) Double-decker installation

① Obstacle on the discharge side. (1)
● Do not exceed two levels for stacked installation.
● Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
● Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.

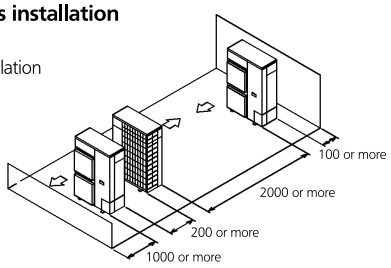


② Obstacle on the suction side. (1)
● Do not exceed two levels for stacked installation.
● Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
● Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



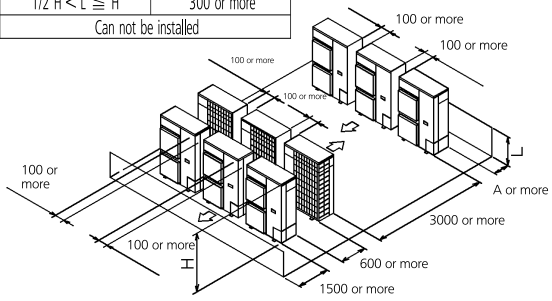
(E) Multiple rows of series installation (on the rooftop, etc.)

① One row of stand-alone installation



② Rows of series installation (2 or more)
The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing.
In this case, the space between the upper and lower outdoor units should be at least 100mm.
Close off the gap between the upper and lower units so there is no reintake of discharged air.

3D069554

Make all applications possible

Multi model applications

- All indoor units can be individually controlled and do not need to be installed in the same room.
- Combine different types of indoor units: wall mounted, floor standing, ceiling suspended, round flow cassette, concealed ceiling.
- Phased installation possible.

MXS

Installation flexibility

› A very wide range is available, from 2-port to 5-port units, making all applications possible.
› Up to 5 indoor units can be connected to 1 multi outdoor unit.
› Outdoor multi split units are fitted with the Daikin swing compressor, renowned for its low noise and high energy efficiency.
› The outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.

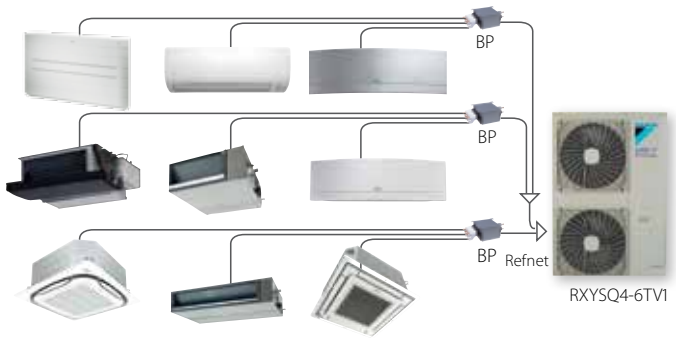
RXYS(C)Q

Installation flexibility

› Up to 9 indoor units can be connected to 1 VRV outdoor unit
› Maximum total piping length of 145m offers much more flexibility in the choice of installation position

VRV IV S-series

Variable Refrigerant Temperature



Multi model application

› Outdoor units for multi model application.
› Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
› Up to 5 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time; they operate simultaneously within the same cooling or heating mode
› Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit

3MXS52E/4MXS68E

5MXS90E

2MXS40-50H

CONNECTABLE INDOOR UNITS	Wall mounted																			Floor standing					Flexi type				Round flow cassette			Fully flat cassette				Concealed ceiling								Ceiling suspended			Concealed floor standing			
	FTXG-L				CTXS-K		FTXS-K						FTXS-G		FTX-J3			FTX-KV			FVXG-K			FVXS-F			FLXS-B(9)				FCQG-F			FFQ-C				FDXS-F(9)				FDBQ-B/ FBQ-D				FHQ-C			FNQ-A			
	20	25	35	50	15	35	20	25	35	42	50	60	71	20	25	35	20	25	35	25	35	50	25	35	50	25	35	50	60	35	50	60	25	35	50	60	25	35	50	60	25	35	50	60	35	50	60	25	35	50	60
2MXS40H	●	●	●		●	●	●	●	●					●	●	●	●	●	●	●	●	●	●	●		●	●										●	●														
2MXS50H	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									●	●	●													
3MXS40K	●	●	●		●	●	●	●	●											●	●		●	●		●	●			●			●	●			●	●							●			●	●		
3MXS52E	●	●	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●			●	●		●	●	●		●	●	●			●	●		●			●	●	●	
3MXS68G	●	●	●	●	●	●	●	●	●	●	●	●								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4MXS68F	●	●	●	●	●	●	●	●	●	●	●	●								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4MXS80E	●	●	●	●	●	●	●	●	●	●	●	●	●							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5MXS90E	●	●	●	●	●	●	●	●	●	●	●	●	●							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Note : blue cells contain preliminary data

Outdoor unit					2MXS40H	2MXS50H	3MXS40K	3MXS52E	3MXS68G	4MXS68F	4MXS80E	5MXS90E
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x936x300				770x900x320	
Weight	Unit			kg	38	42	49		58		72	73
Sound power level	Cooling			dBA	62	63	59		61		62	66
	Heating			dBA	-		60		-			
Sound pressure level	Cooling	Nom.		dBA	47	48	46		48			52
	Heating	Nom.		dBA	48	50	47		49			52
Operation range	Cooling	Ambient	Min.~Max.	°CDB	10~46		-10~46					
	Heating	Ambient	Min.~Max.	°CWB	-15~18							
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/1.20/ 2.5/2,087.5	R-410A/1.60/ 3.3/2,087.5	R-410A/2.0/ 4.2/2,087.5		R-410A/2.59/ 5.4/2,087.5	R-410A/2.6/ 5.4/2,087.5	R-410A/2.99/6.2/2,087.5	
Piping connections	Liquid	OD		mm	6.35x2		6.35x3			6.35x4		6.35x5
	Gas	OD		mm	9.52x1	12.7x1	9.52x3	9.52x2 12.7x1	9.52x1 12.7x2	9.52x2 12.7x2	9.52x1 12.7x1 15.9x2	9.52x2 12.7x1 15.9x2
	Piping length	OU - IU	Max.	m	20		25					
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 20m)		0.02 (for piping length exceeding 30m)					
	Level difference	IU - OU	Max.	m	15							
		IU - IU	Max.	m	7.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		1~ / 50 / 230					
Current - 50Hz	Maximum fuse amps (MFA)			A	16		20					

2MXS40H

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
2MXS40H	H/P	50	220	198	242	9.7	16	4.6	4.20	40	0.17
			230	207	253			4.6	4.20		
			240	216	264			4.6	4.22		

3D063342A

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

2MXS50H

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
2MXS50H	H/P	50	220	198	242	10.9	16	6.3	5.84	42	0.18
			230	207	253			6.3	5.85		
			240	216	264			6.3	5.86		

3D063343A

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

3MXS40K

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
3MXS40K	H/P	50	220	198	242	13.4	16	4.2	3.3	44	0.30
			230	207	253			4.0	3.1		
			240	216	264			3.8	2.9		

3D074910A

SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note6) (A)
MSC : Max. current during the starting compressor (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor (A)
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits.
3. Maximum allowable voltage unbalance between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the larger value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

3MXS52E

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
3MXS52E	H/P	50	220	198	242	18.5	20	6.2	5.6	44	0.30
			230	207	253			6.2	5.6		
			240	216	264			6.2	5.6		

3D052807B

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter.
   (Earth leakage circuit breaker).

3MXS68G

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
3MXS68G	H/P	50	230	207	253	18.1	20	9.1	8.37	43	0.33

3D080106

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

3MXS68G2V1B

Units						Power supply		Comp.		OFM	
Model	Hz	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA		
3MXS68G2V1B	H/P	50	230	207	253	17.5	20	9.1	8.37	43	0.33

SYMBOLS

MCA: Min. circuit Amps. (A)
MFA: Max. fuse Amps (A) (see note 6). (A)
MSC: Max. current during the starting compressor. (A)
RLA: Rated load Amps. (A)
DFM: Outdoor fan motor (A)
FLA: Full load Amps. (A)
w: Fan motor rated output (W.)

NOTES

1 RLA is based on the following conditions.
Cooling:
Indoor temp. 27°CDB / 19.0°CWB
Outdoor temp. 35°CDB

2 Voltage range.
Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

3 Maximum allowable voltage variation between phases is 2%.

4 MCA represents maximum input current. MFA represents capacity which may accept MCA.

5 Select wire size based on the value of MCA.

6 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

3D064284

4MXS68F

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
4MXS68F	H/P	50	230	207	253	18.3	20	8.3	7.31	43	0.33

3D080107

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

4MXS68F2V1B

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/D	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
4MXS68F2V1B	H/P	50	230	207	253	17.5	20	8.3	7.31	43	0.33

3D056163

SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 6). (A)
MSC : MSC means the max. current during the starting of compressor. (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
3. Maximum allowable voltage variation between phases is 2%
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA
5. Select wire size based on the larger value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)
7. For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

4MXS68F2V1B

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/D	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
4MXS68F2V1B	H/P	50	230	207	253	17.5	20	8.3	7.31	43	0.33

3D056163

SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 6). (A)
MSC : MSC means the max. current during the starting of compressor. (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
3. Maximum allowable voltage variation between phases is 2%
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA
5. Select wire size based on the larger value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)
7. For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

4MXS80E_5MXS90E

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
5MXS90E	H/P	50	230	207	253	18.5	20	11.8	9.94	95	1.02
4MXS80E	H/P	50	230	207	253	18.5	20	9.7	8.1	86	0.97

3D052365A

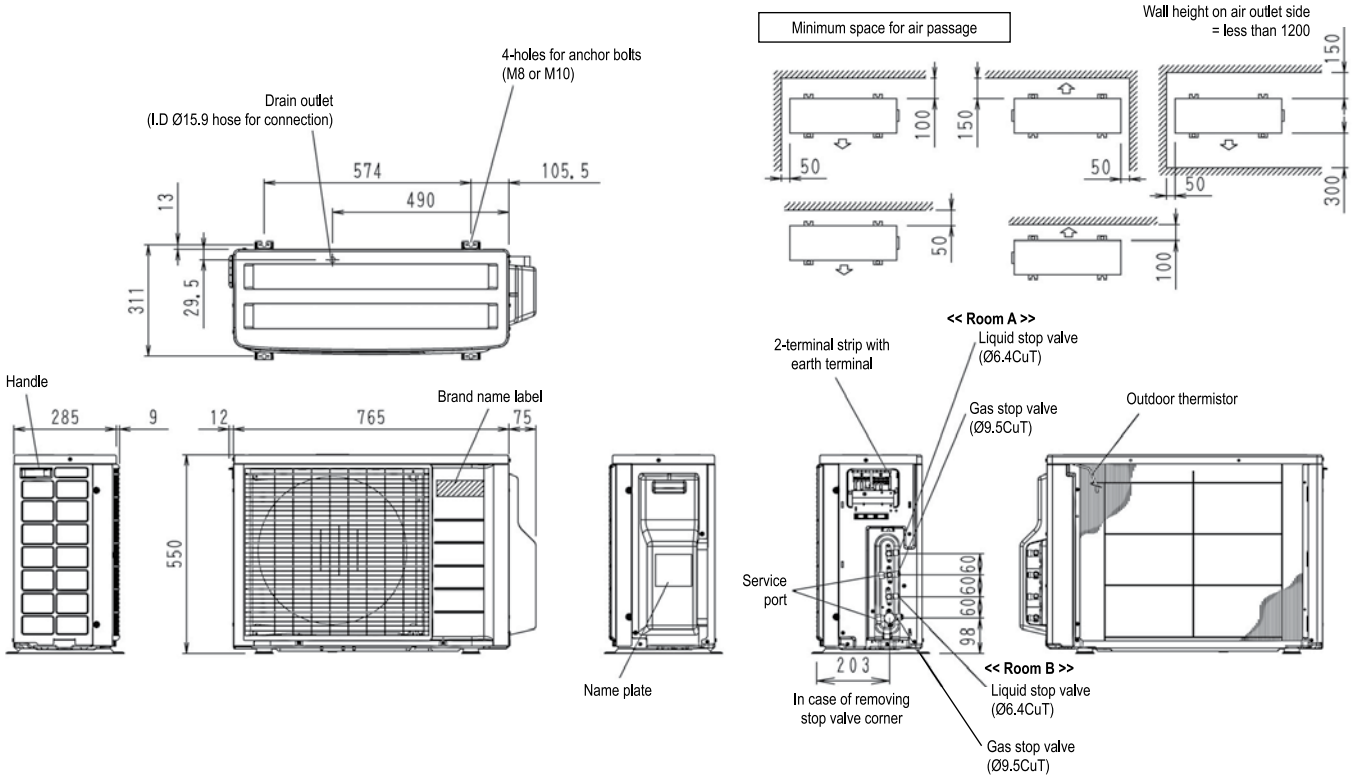
SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

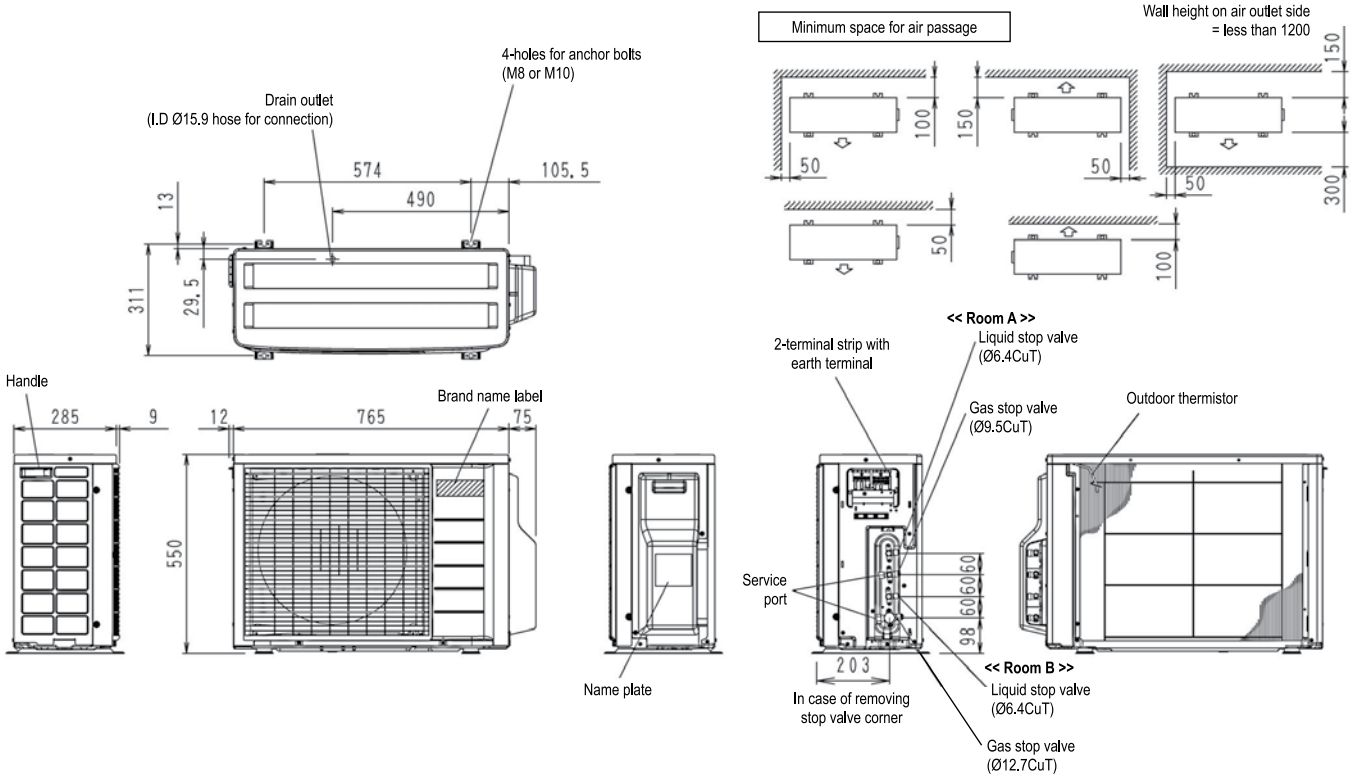
1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

2MXS40H



3D058712C

2MXS50H



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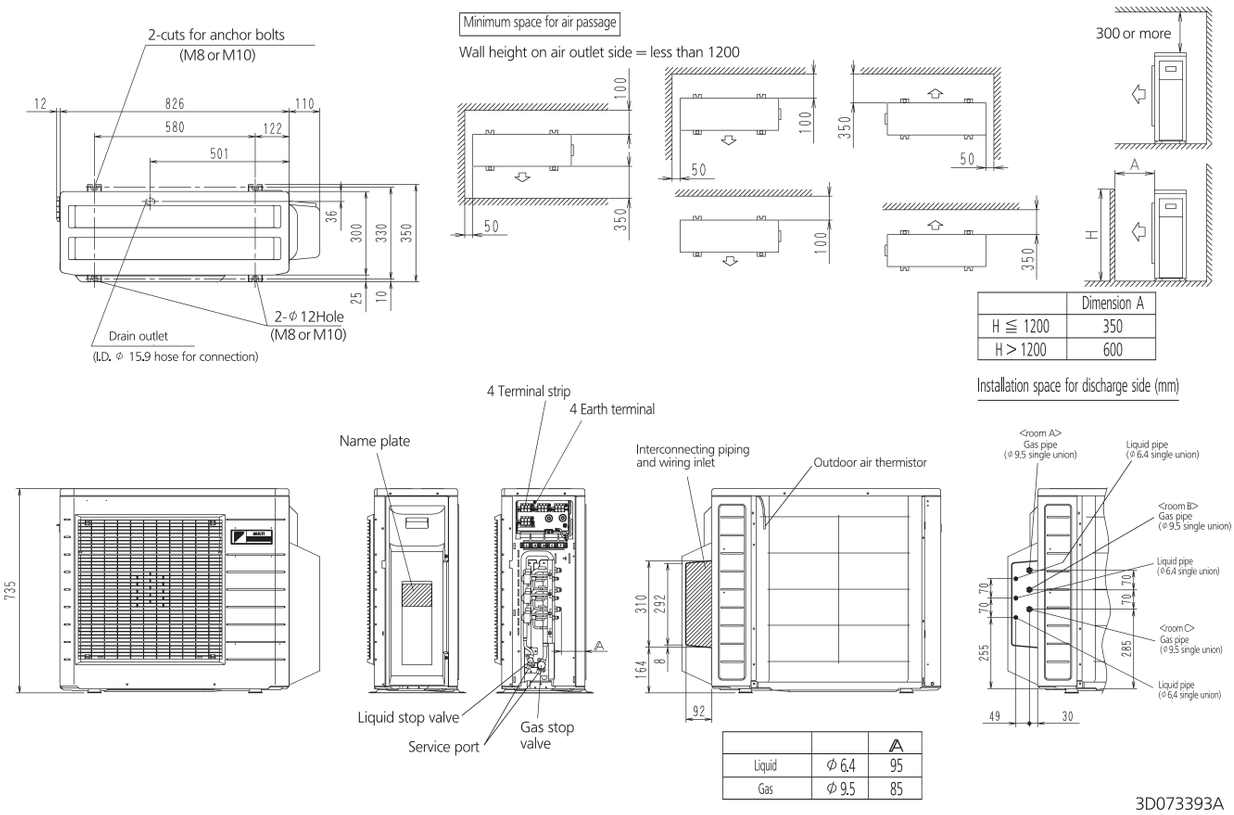
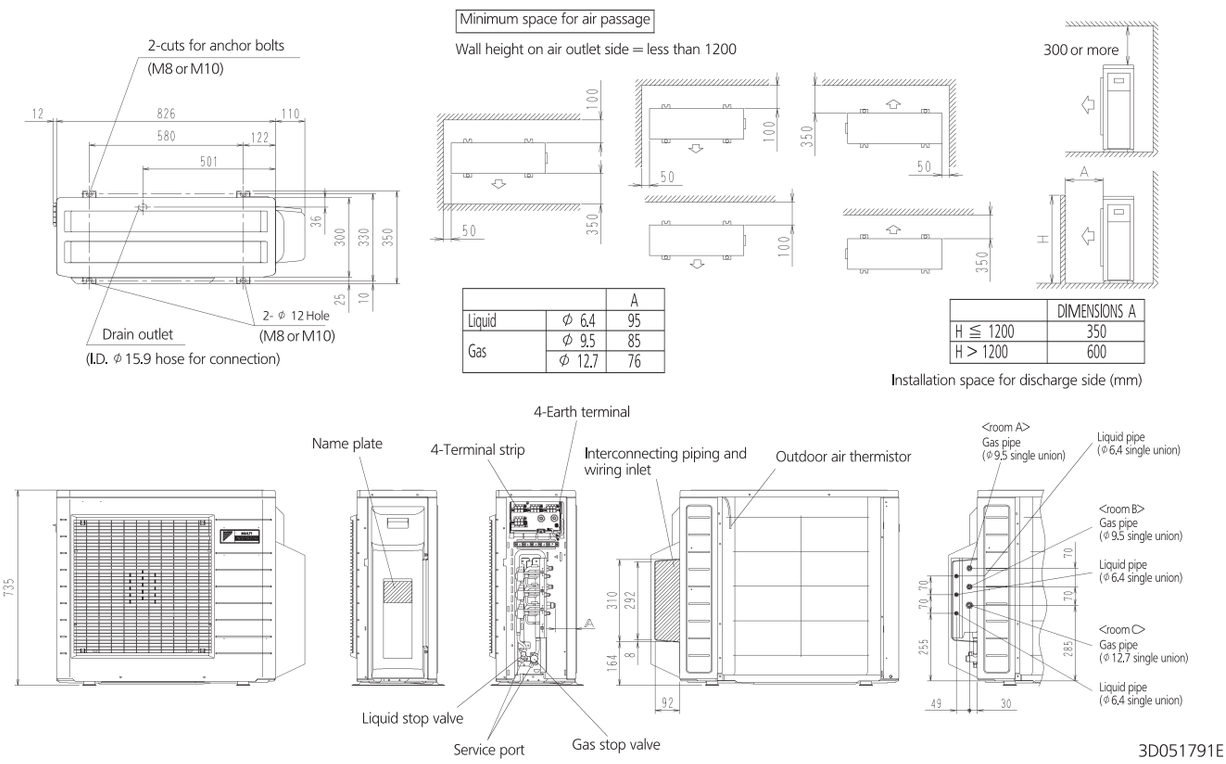
3MXS40K

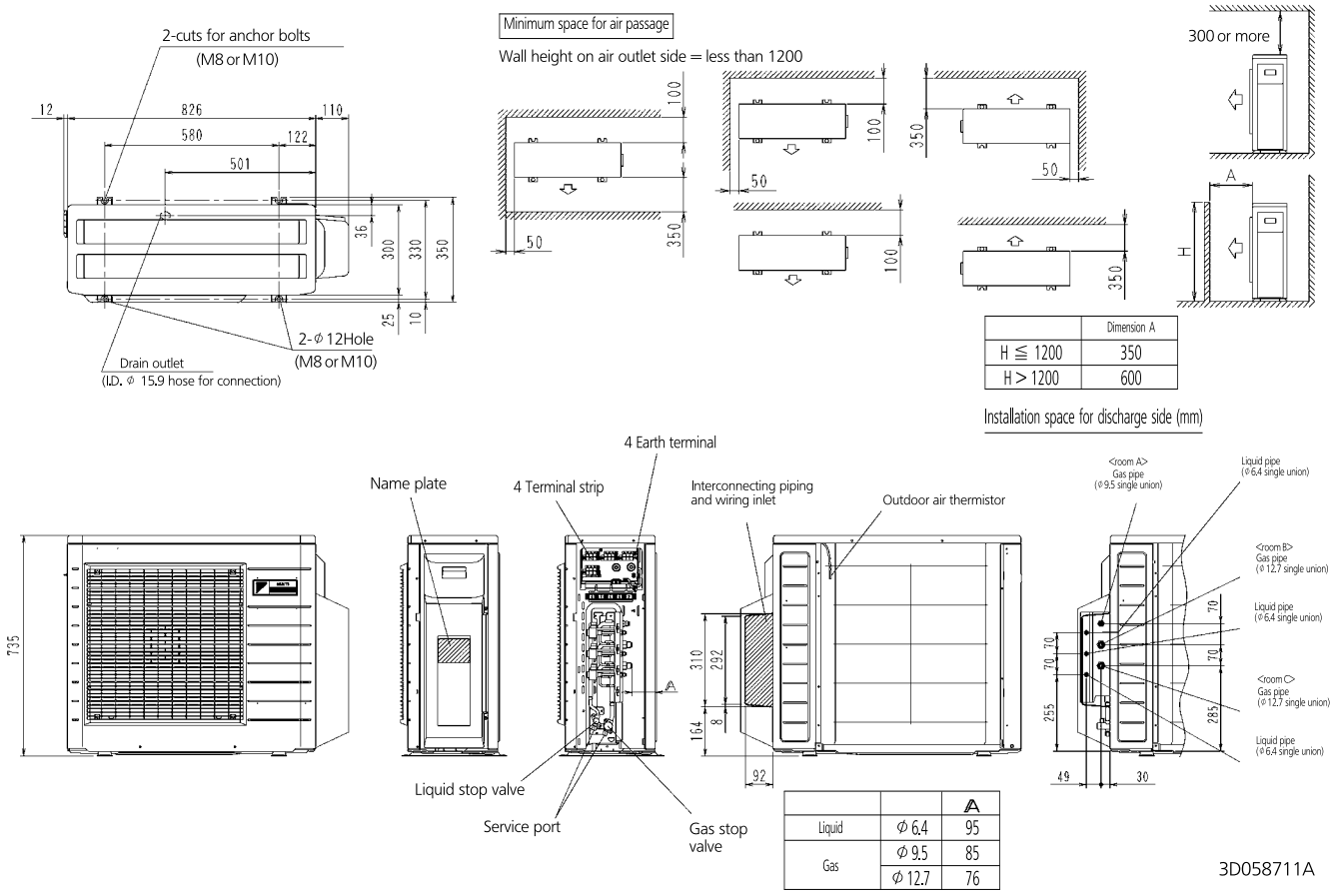


3MXS52E

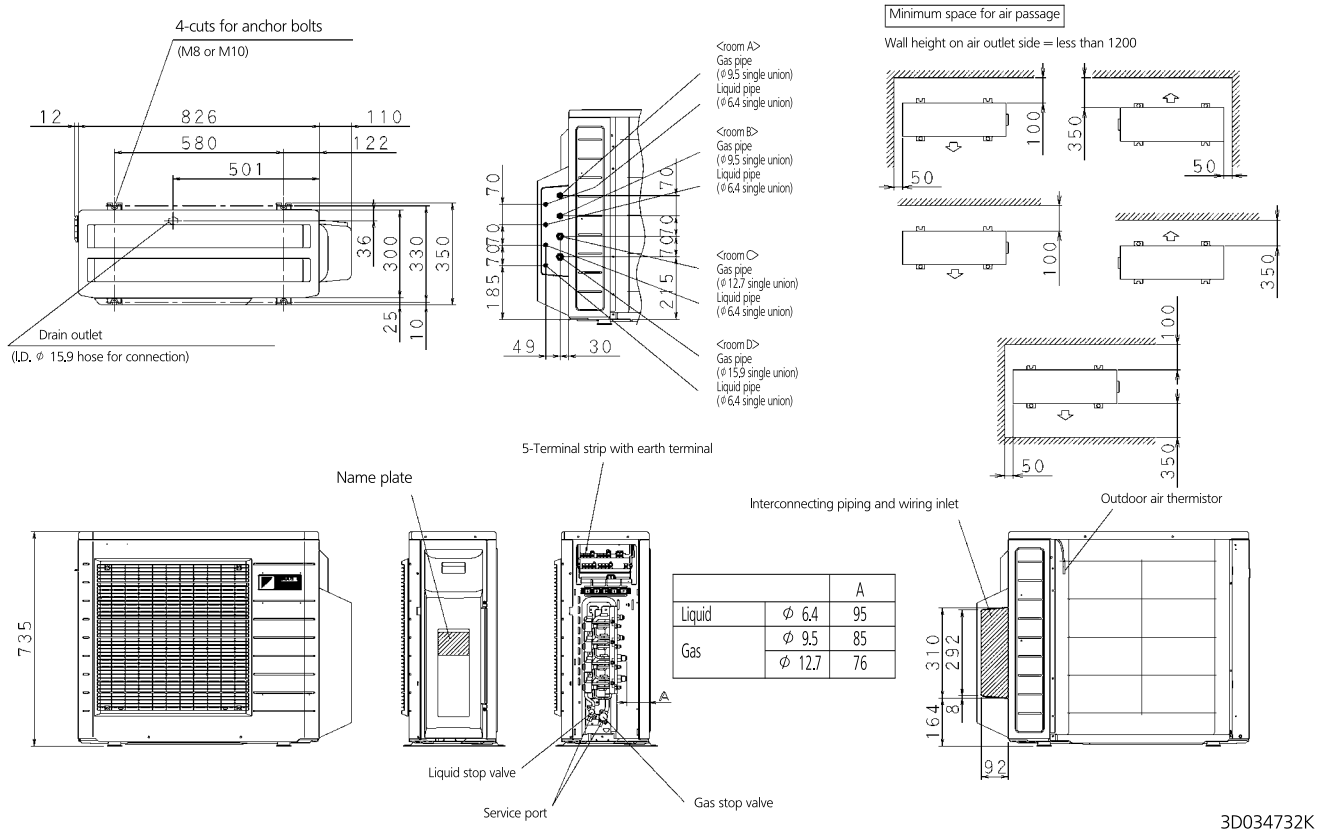
unit (mm)



3MXS68G

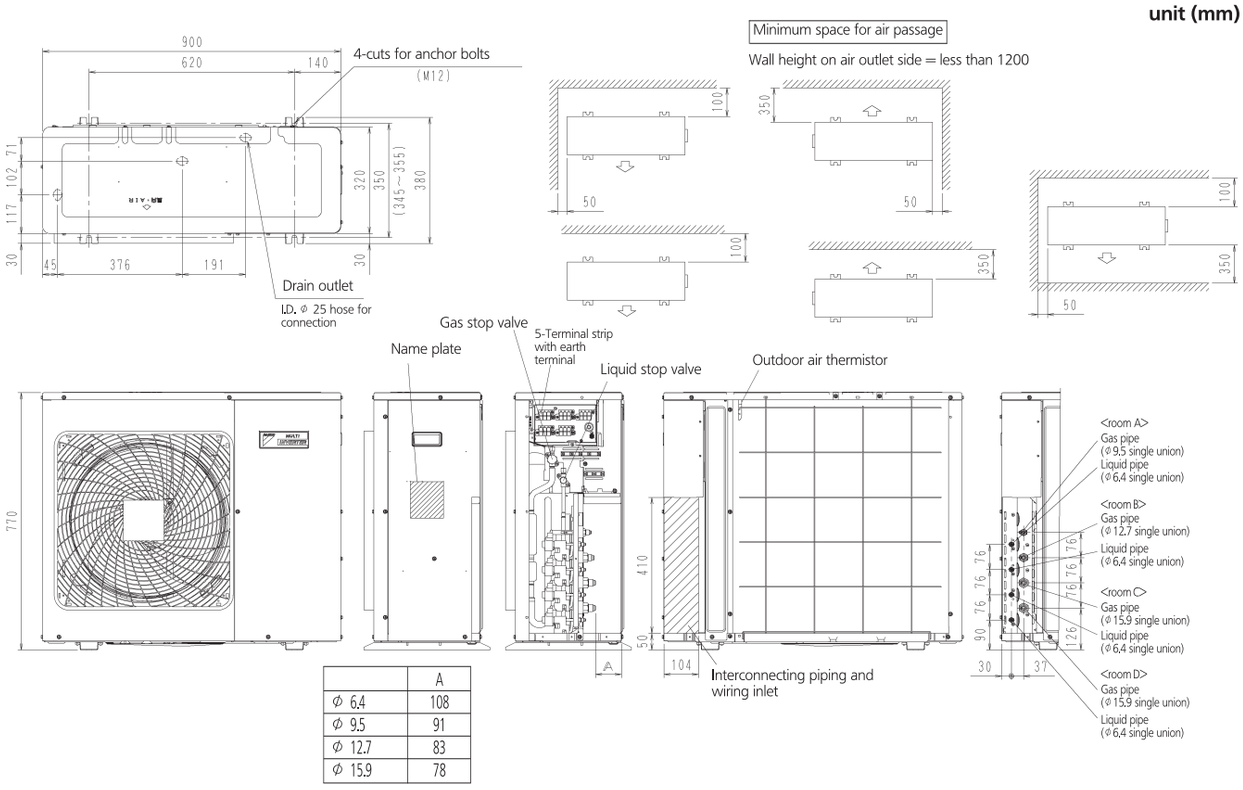


4MXS68F



4MXS80E

unit (mm)

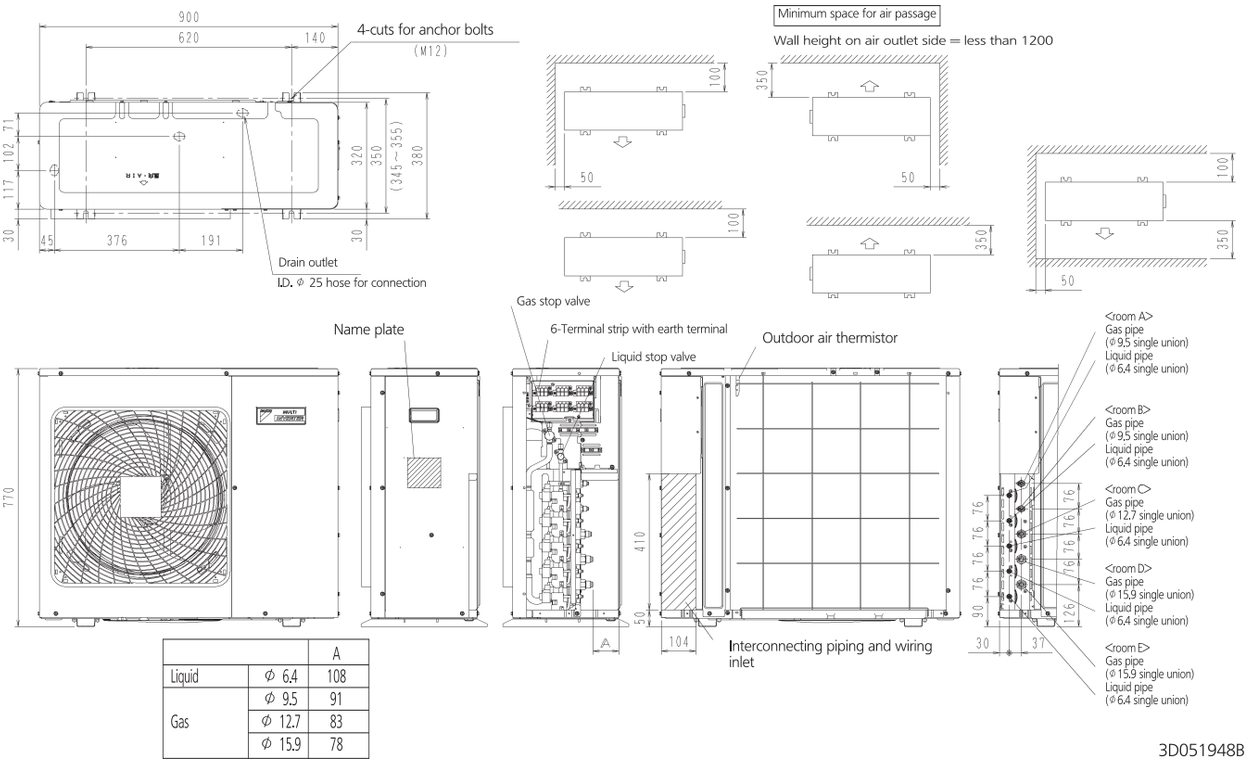


	A
φ 6.4	108
φ 9.5	91
φ 12.7	83
φ 15.9	78

3D051950B

5MXS90E

unit (mm)



		A
Liquid	φ 6.4	108
Gas	φ 9.5	91
	φ 12.7	83
	φ 15.9	78

3D051948B

VRV IV S-series compact heat pump

The most compact VRV

- Compact & lightweight single fan design makes the unit almost unnoticeable
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- 3 steps in night quiet mode: step 1: 47 dBA, step 2: 44 dBA, step 3: 41 dBA
- Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- Contains all standard VRV features

RXYSCQ-TV1

CONNECTABLE INDOOR UNITS	Wall mounted												Floor standing						Flexi type				Round flow cassette			Fully flat cassette				Concealed ceiling								Ceiling suspended		
	FTXG-L				CTXS-K		FTXS-K						FVXG-K			FVXS-F			FLXS-B(9)				FCQG-F			FFQ-C				FDXS-F(9)				FDBQ-B /FBQ-D				FHQ-C		
	20	25	35	50	15	35	20	25	35	42	50	60	71	25	35	50	25	35	50	25	35	50	60	35	50	60	25	35	50	60	25	35	50	60	25	35	50	60	35	50	60
RXYSCQ-TV1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Outdoor unit				RXYSCQ	4TV1	5TV1
Capacity range				HP	4	5
Cooling capacity	Nom.			kW	12.1	14.0
Heating capacity	Nom.			kW	12.1	14.0
	Max.			kW	14.2	16.0
Power input - 50Hz	Cooling	Nom.		kW	3.43	4.26
	Heating	Nom.		kW	3.18	3.91
		Max.		kW	4.14	5.00
EER				kW	3.53	3.29
COP at nominal capacity				kW	3.81	3.58
COP at maximum capacity				kW	3.43	3.20
Maximum number of connectable indoor units					64 (1)	
Indoor index connection	Min.				50	62.5
	Nom.				-	
	Max.				130	162.5
Dimensions	Unit	HeightxWidthxDepth		mm	823x940x460	
Weight	Unit			kg	94	
Fan	Air flow rate	Cooling	Nom.	m^3/min	91	
Sound power level	Cooling	Nom.		dBA	68	69
Sound pressure level	Cooling	Nom.		dBA	51	52
Operation range	Cooling	Min.~Max.		°CDB	-5~46	
	Heating	Min.~Max.		°CWB	-20~15.5	
Refrigerant	Type				R-410A	
	Charge			kg	3.7	
				TCO_2eq	7.7	
	GWP				2,087.5	
Piping connections	Liquid	OD		mm	9.52	
	Gas	OD		mm	15.9	
	Total piping length	System	Actual	m	-	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	32	

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%).
(2) Contains fluorinated greenhouse gases

Branch provider			BPMKS967B2	BPMKS967B3
Connectable indoor units			1~2	1~3
Max. indoor unit connectable capacity			14.2	20.8
Max. connectable combination			71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg	7	8

VRV IV S-series heat pump

Space saving solution without compromising on efficiency

- Compact & lightweight single fan design makes the unit almost unnoticeable
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- 3 steps in night quiet mode: step 1: 47 dBA, step 2: 44 dBA, step 3: 41 dBA
- Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- Contains all standard VRV features

RXYSQ4-6TV1

CONNECTABLE INDOOR UNITS	Wall mounted												Floor standing						Flexi type				Round flow cassette			Fully flat cassette				Concealed ceiling								Ceiling suspended		
	FTXG-L				CTXS-K		FTXS-K						FTXS-G		FVXG-K			FVXS-F					FLXS-B(9)				FCQG-F			FFQ-C				FDXS-F(9)				FDBQ-B /FBQ-D				FHQ-C		
	20	25	35	50	15	35	20	25	35	42	50	60	71	25	35	50	25	35	50	25	35	50	60	35	50	60	25	35	50	60	25	35	50	60	25	35	50	60	35	50	60
RXYSQ-TV1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

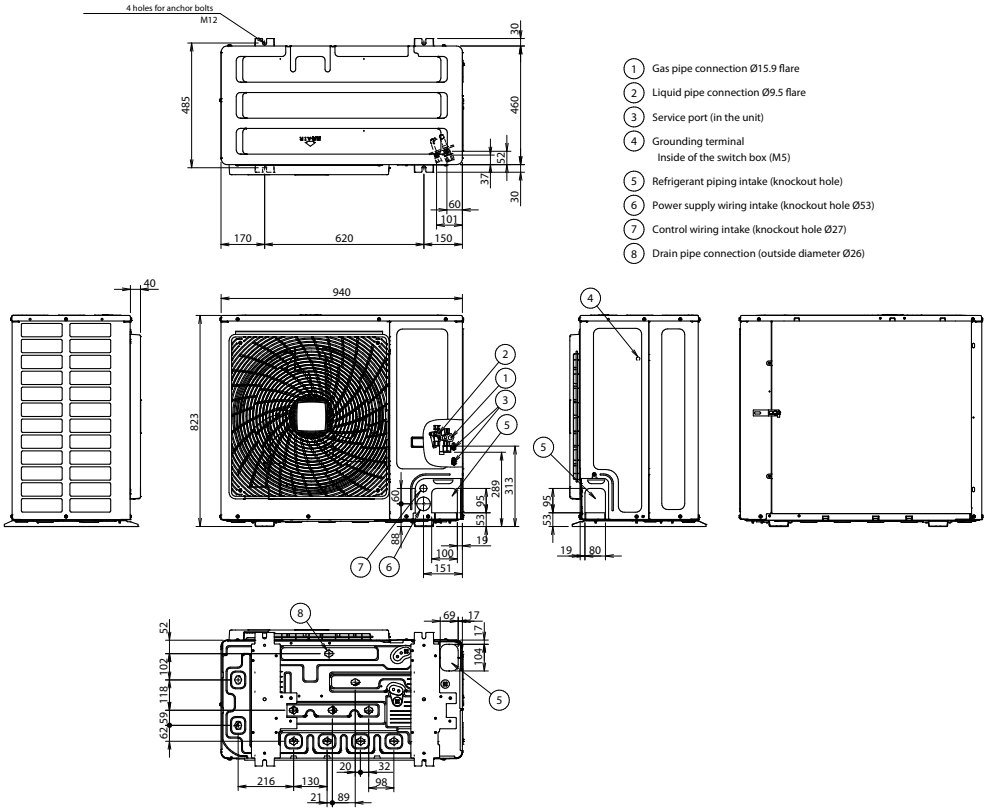
Outdoor unit					RXYSQ-TV1	4TV1	5TV1	6TV1
Capacity range					HP	4	5	6
Cooling capacity	Nom.				kW	12.1	14.0	15.5
Heating capacity	Nom.				kW	12.1	14.0	15.5
	Max.				kW	14.2	16.0	18.0
Power input - 50Hz	Cooling	Nom.			kW	3.03	3.73	4.56
	Heating	Nom.			kW	2.68	3.27	3.97
		Max.			kW	3.43	4.09	5.25
EER					kW	4.00	3.75	3.40
COP at nominal capacity					kW	4.52	4.28	3.90
COP at maximum capacity					kW	4.14	3.91	3.43
Maximum number of connectable indoor units						64 (1)		
Indoor index connection	Min.					50	62.5	70
	Nom.					-		
	Max.					130	162.5	182
Dimensions	Unit	HeightxWidthxDepth			mm	1,345x900x320		
Weight	Unit				kg	104		
Fan	Air flow rate	Cooling	Nom.		m^3/min	106		
Sound power level	Cooling	Nom.			dBA	68	69	70
Sound pressure level	Cooling	Nom.			dBA	50	51	
Operation range	Cooling	Min.~Max.			°CDB	-5~46		
	Heating	Min.~Max.			°CWB	-20~15.5		
Refrigerant	Type					R-410A		
	Charge				kg	3.6		
					TCO_2eq	7.5		
	GWP					2,087.5		
Piping connections	Liquid	OD			mm	9.52		
	Gas	OD			mm	15.9		19.1
	Total piping length	System	Actual		m	-		
Power supply	Phase/Frequency/Voltage				Hz/V	1N~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)				A	32		

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%).
(2) Contains fluorinated greenhouse gases

Branch provider			BPMKS967B2	BPMKS967B3
Connectable indoor units			1~2	1~3
Max. indoor unit connectable capacity			14.2	20.8
Max. connectable combination			71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg	7	8

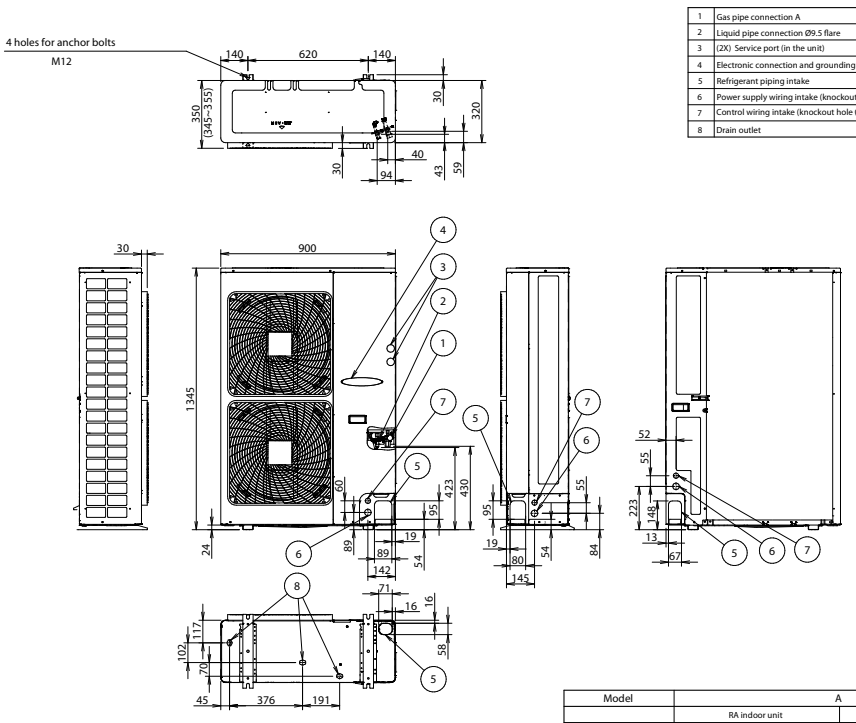
Find all technical drawings on our business portal http://my.daikin.eu

RXYCSQ-TV1



3D098107

RXYSQ-TV1



Model	A
RMXS112E8V1B	Ø19.1 brazed connection
RMXS140E8V1B	Ø19.1 brazed connection
RMXS160E8V1B	Ø19.1 brazed connection
RXYSQ4PA7V1B	Ø15.9 flared connection
RXYSQ5PA7V1B	Ø15.9 flared connection
RXYSQ6PA7V1B	Ø19.1 brazed connection
ERX100A9V1B	Ø15.9 flared connection
ERX125A9V1B	Ø15.9 flared connection
ERX140A9V1B	Ø19.1 brazed connection
GCA100BD4	Ø15.9 flared connection
GCA125BD4	Ø15.9 flared connection
GCA140BD4	Ø19.1 brazed connection
RXYSQ4PA7Y1B	Ø15.9 flared connection
RXYSQ5PA7Y1B	Ø15.9 flared connection
RXYSQ6PA7Y1B	Ø19.1 brazed connection

Model	A	
	RA indoor unit	VRV indoor unit
RXYSQ4(P8/T7)V1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ5(P8/T7)V1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ6(P8/T7)V1B	Ø19.1 brazed connection	
RXYSQ4(P8/T7)Y1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ5(P8/T7)Y1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ6(P8/T7)Y1B	Ø19.1 brazed connection	

3TW30374-1D

RXYSCQ-TV1

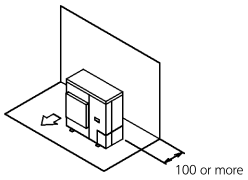
Required installation space

The unit of the values is mm.

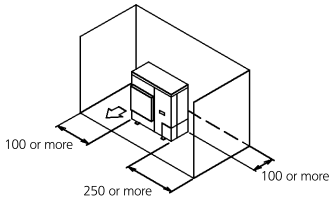
(A) When there are obstacles on suction sides.

● No obstacle above

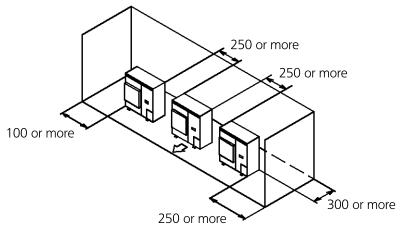
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides

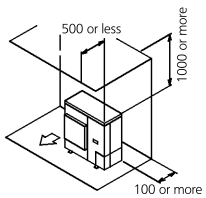


②Series installation (2 or more)
- Obstacle on both sides

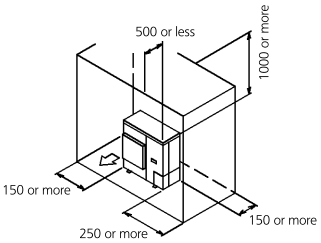


● Obstacle above, too.

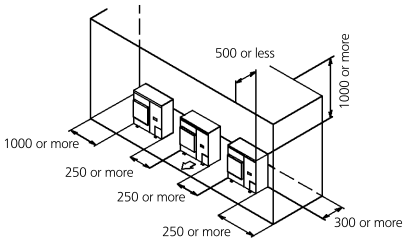
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on the suction side and both sides



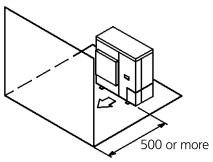
② Series installation (2 or more)
- Obstacle on the suction side and both sides



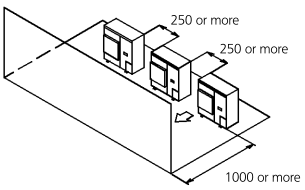
(B) When there are obstacles on discharge sides.

● No obstacle above

① Stand-alone installation

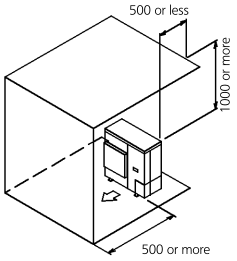


② Series installation (2 or more)

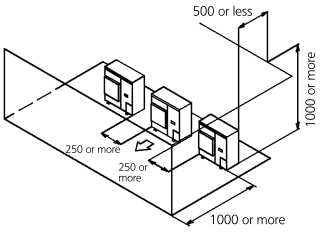


● Obstacle above, too

① Stand-alone installation



② Series installation (2 or more)



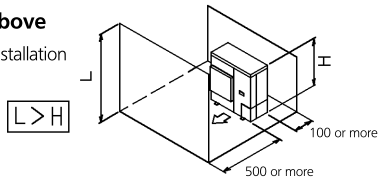
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

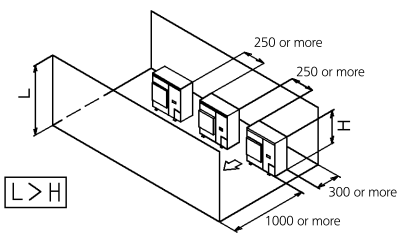
When the obstacles on the discharge side is higher than the unit.
(There is no height limit for obstructions on the intake side.)

● No obstacle above

① Stand-alone installation



② Series installation (2 or more)



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RXYSCQ-TV1

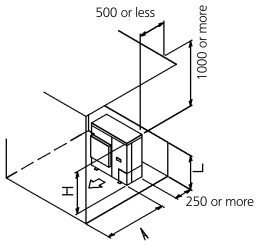
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	750
	1/2 H < L ≦ H	1000
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

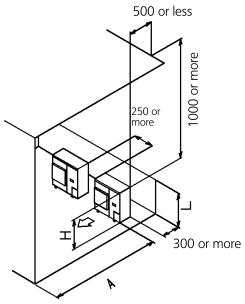


② Series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	1000
	1/2 H < L ≦ H	1250
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

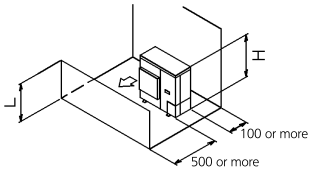


Pattern 2

When the obstacle on the discharge side is lower than the unit:
(There is no height limit for obstructions on the intake side.)

● No obstacle above

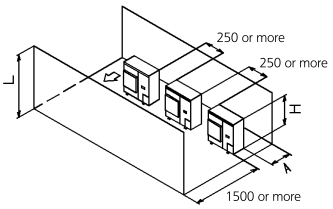
① Stand-alone installation
L > H



② Series installation (2 or more)

The relations between H, A and L are as follows.

L	A
0 < L ≦ 1/2 H	250
1/2 H < L ≦ H	300



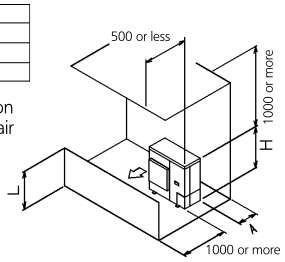
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	100
	1/2 H < L ≦ H	200
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

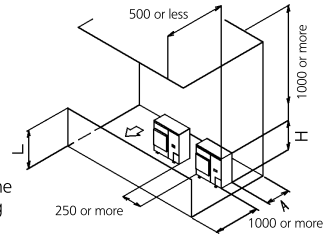


② Series installation

The relations between H, A and L are as follows.

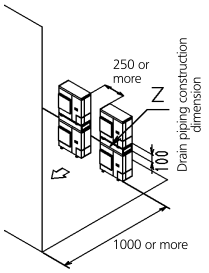
	L	A
L ≦ H	0 < L ≦ 1/2 H	250
	1/2 H < L ≦ H	300
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

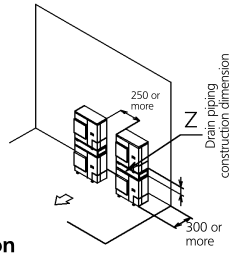


(D) Double-decker installation

① Obstacle on the discharge side.
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.

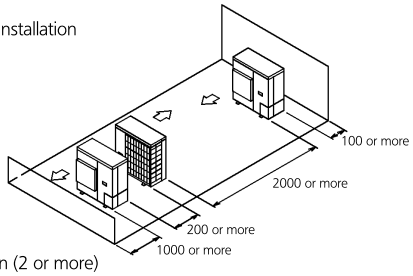


② Obstacle on the suction side.
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.



(E) Multiple rows of series installation (on the rooftop, etc.)

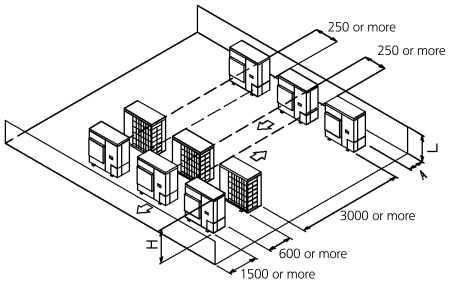
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	250
	1/2 H < L ≦ H	300
H < L	Can not be installed	



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RXYSQ-TV1 / / RXYSQ4-6TY1

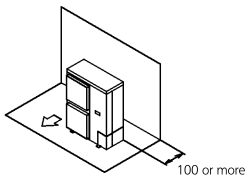
Required installation space

The unit of the values is mm.

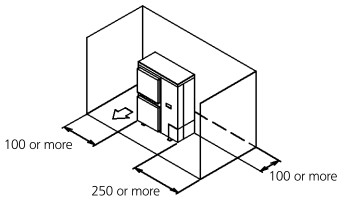
(A) When there are obstacles on suction sides.

● No obstacle above

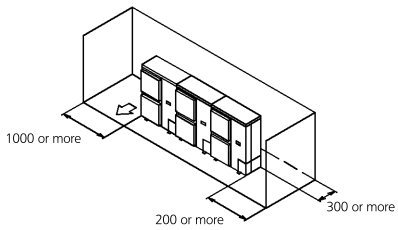
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides

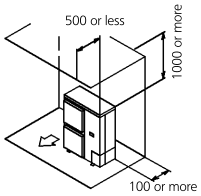


②Series installation (2 or more)
- Obstacle on both sides

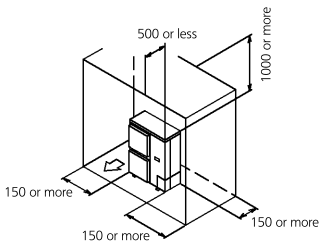


● Obstacle above, too.

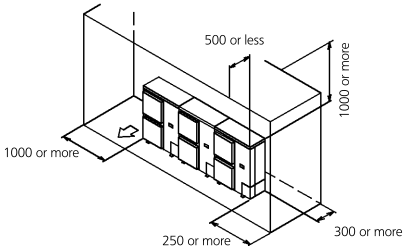
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on the suction side and both sides



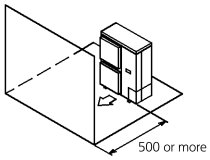
② Series installation (2 or more)
- Obstacle on the suction side and both sides



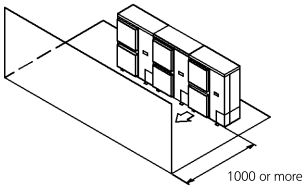
(B) When there are obstacles on discharge sides.

● No obstacle above

① Stand-alone installation

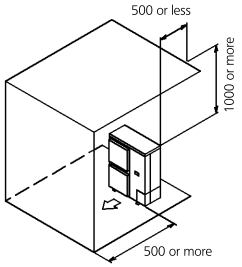


② Series installation (2 or more)

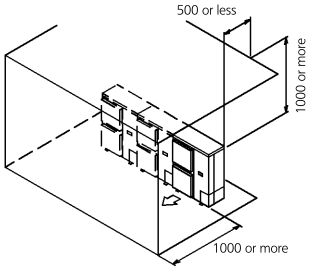


● Obstacle above, too

① Stand-alone installation



② Series installation (2 or more)



(C) When there are obstacles on both suction and discharge sides.:

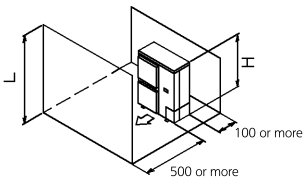
Pattern 1

When the obstacles on the discharge side is higher than the unit.
(There is no height limit for obstructions on the intake side.)

● No obstacle above

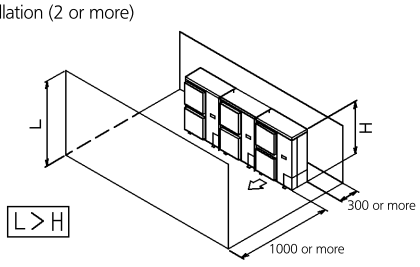
① Stand-alone installation

L > H



② Series installation (2 or more)

L > H



3D045696D

RXYSQ-TV1 / / RXYSQ4-6TY1

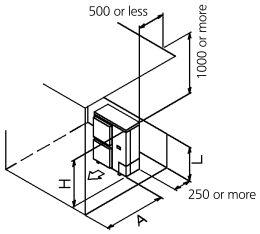
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	750
	1/2 H < L ≦ H	1000
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

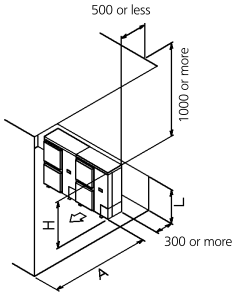


② Series installation (2 or more)

The relations between H, A and L are as follows.

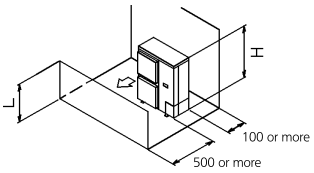
	L	A
L ≦ H	0 < L ≦ 1/2 H	1000
	1/2 H < L ≦ H	1250
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.



Pattern 2

When the obstacle on the discharge side is lower than the unit:
(There is no height limit for obstructions on the intake side.)



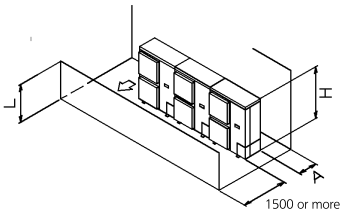
● No obstacle above

① Stand-alone installation
L ≦ H

② Series installation (2 or more)

The relations between H, A and L are as follows.

L	A
0 < L ≦ 1/2 H	250
1/2 H < L ≦ H	300



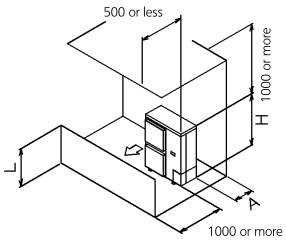
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	100
	1/2 H < L ≦ H	200
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

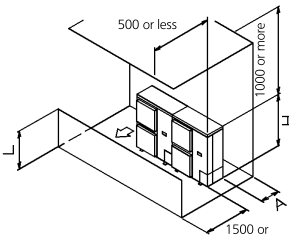


② Series installation

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	250
	1/2 H < L ≦ H	300
H < L	Set the stand as : L ≦ H	

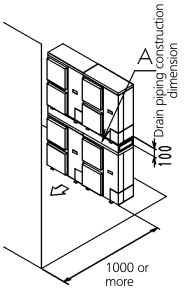
Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

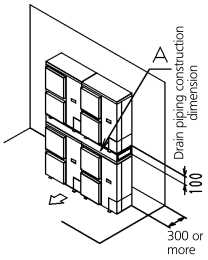


(D) Double-decker installation

① Obstacle on the discharge side.
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.

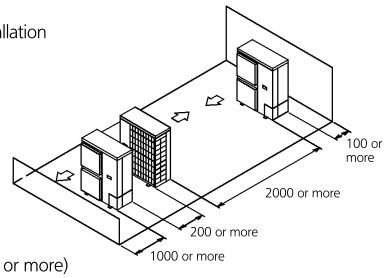
② Obstacle on the suction side.
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.





(E) Multiple rows of series installation (on the rooftop, etc.)

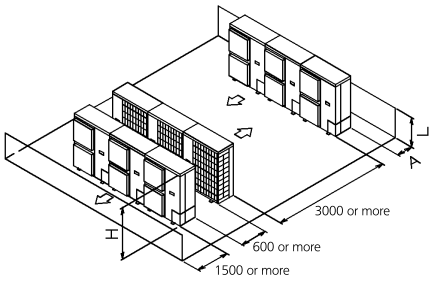
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	250
	1/2 H < L ≦ H	300
H < L	Can not be installed	



3D045696D

VRV IV heat pump for indoor installation

SB.RKXYQ-T

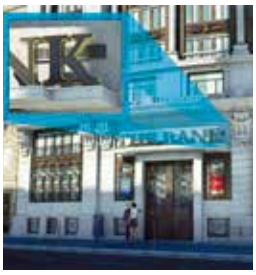
Keep looking you'll never find me

You can install highly efficient, reliable Daikin air conditioning systems in the most demanding locations while remaining invisible from street level.

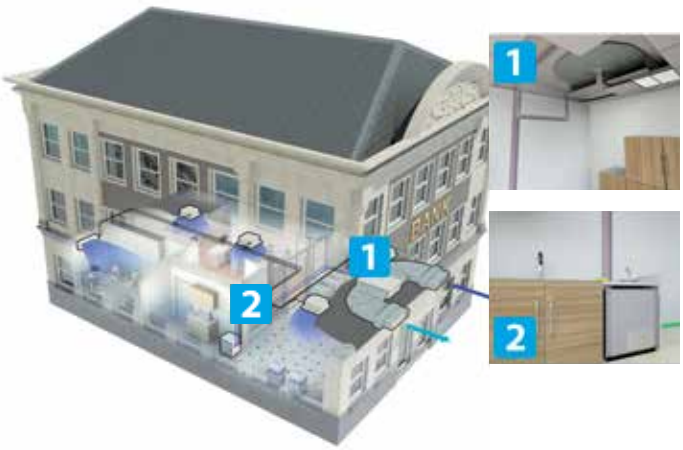
Unique concept with 5 patents

Variable Refrigerant Temperature

Invisible



Unique split outdoor unit



Invisible

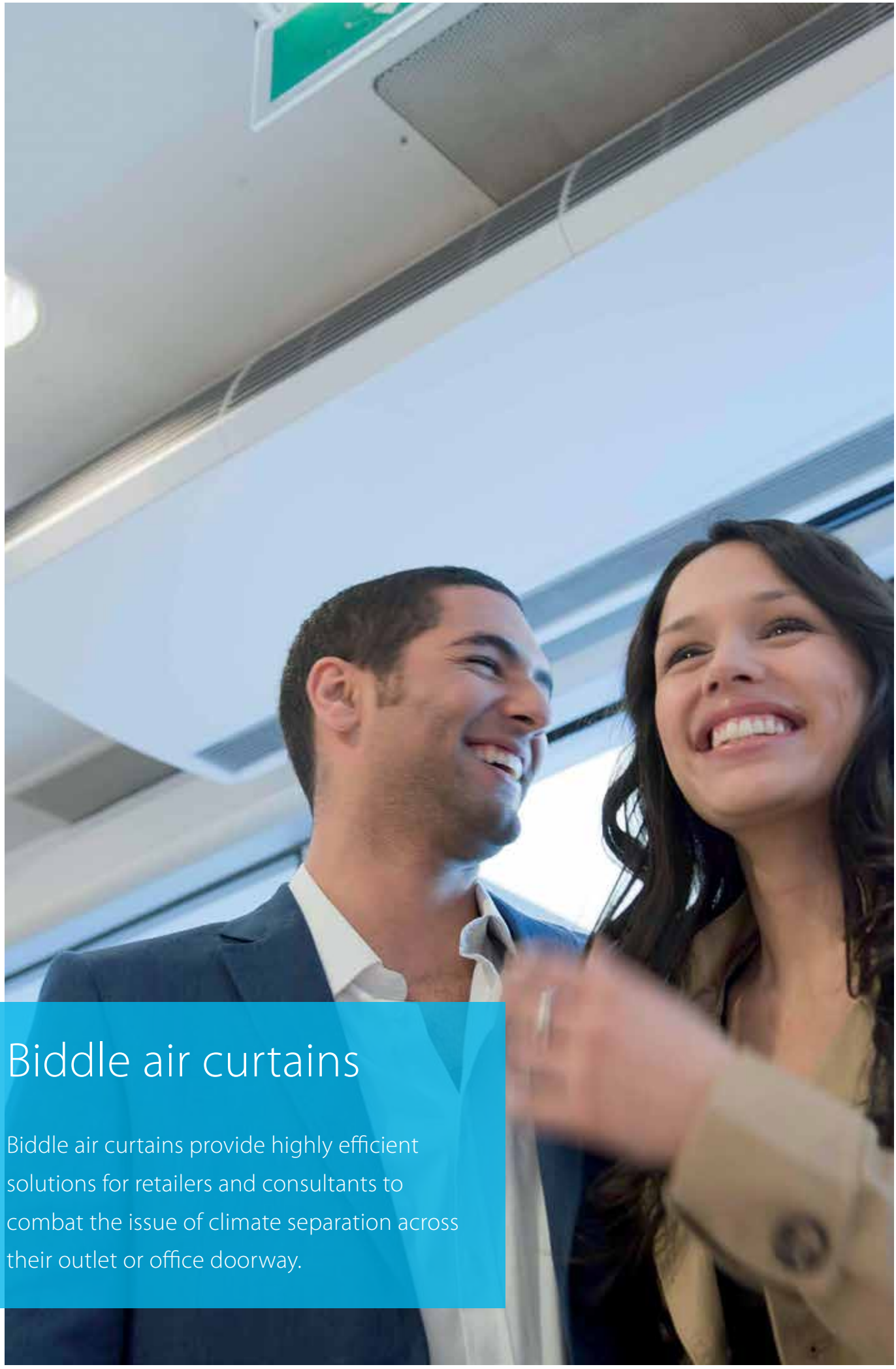
- Completely invisible only the grilles are visible
- Seamless integration into surrounding architecture
- Highly suited to densely populated areas thanks to the low operation sound

Intuitive

- Total flexibility as the outdoor unit is split up in 2 parts
- Easy and quick to transport and install by just 2 persons
- Easy servicability, all components can be easily reached

Intelligent

- Patented V-shape heat exchanger for the most compact unit (400 mm high) ever
- Connectable to all VRV indoor units
- Provides a total solution when combined with ventilation units, Biddle air curtains and controls



Biddle air curtains

Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

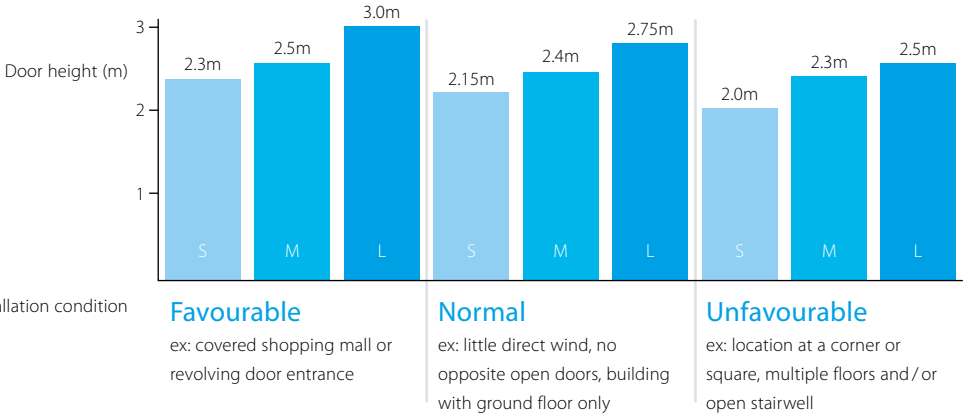
Biddle air curtains

Outdoor units portfolio for connection to Biddle air curtains

System	Type	Product name	Condensing units		71	100	125	140	200	250
Air cooled	Heat pump	ERQ-AV1 [1] Condensing Units	- High efficiency - High comfort levels - Easy design and installation - Maximize installation flexibility by offering 4 types of control systems			●	●	●		
		ERQ-AW1 [1] Condensing Units					●		●	●

1) Only use the condensing units in combinations with an air handling unit.

Biddle air curtain portfolio



Installation condition

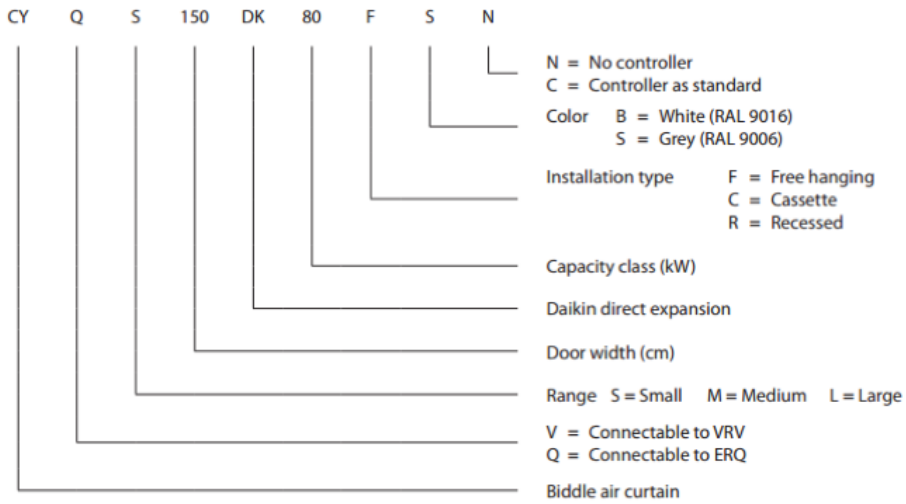
Favourable
ex: covered shopping mall or revolving door entrance

Normal
ex: little direct wind, no opposite open doors, building with ground floor only

Unfavourable
ex: location at a corner or square, multiple floors and / or open stairwell

Type	Product name	Features	
Biddle standard air curtain free hanging	CYQ S/M/L-DK-F	- CYQ - Biddle air curtain for connection to ERQ - Connectable to ERQ heat pump - Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible - Free-hanging model (F): easy wall mounted installation - Recessed model (R): neatly conceiled in the ceiling - A payback period of less than 1.5 years compared to installing an electric air curtain - Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required	
Biddle standard air curtain cassette	CYQ S/M/L-DK-C		
Biddle standard air curtain recessed	CYQ S/M/L-DK-R		

Biddle air curtain nomenclature



Biddle Air Curtain Range with heat pumps

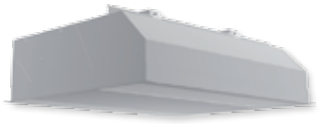
Free hanging

Designed to be fitted as close to the top of the door as practically possible for optimum performance.

› Easy to install either to façade or via drop rods to ceiling
› No maintenance issues due to easy access
› Range of brackets to suit application

Cassette

Designed for installation above false ceiling, contains inlet and discharge grills in one unit.



› Fitted in roof tiles as one complete unit
› When specifying take into account distance from discharge grill to floor
› Install can be challenging due to the need to cut and remove ceiling tiles
› Easy maintenance due to access from underneath

Recessed

Designed for integration into false ceiling or into a bulkhead, with the inlet opening possibly at some distance from the unit.

› Use of ductwork in standard bulkhead to deliver air to fans (contractor to provide)
› Most difficult to install due to work required for cutting and fixing in ceiling space
› Maintenance requires access panels the full width of unit

Benefits of Biddle air curtains

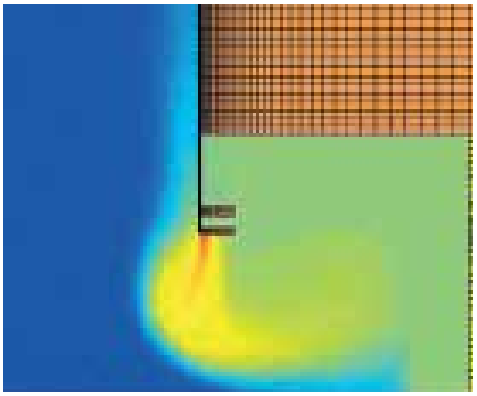
- ☑ Saves energy by preventing heat loss through an open door
- ☑ Provides climate separation(temperature, Humidity, fumes and dust)
- ☑ Improves comfort - heated airstream will condition any draughts entering through the protected doorway
- ☑ Studies have shown that an open door increases retail trade
- ☑ Quick payback of less than 2 years

Unique rectifier technology

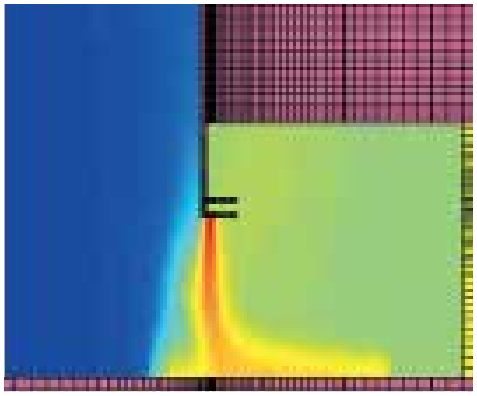
Rectifier technology

By reducing the air turbulence at the discharge of the Biddle air curtain, the induction of the surrounding air is also reduced, providing a deeply penetrating airstream. In addition the design of the rectifier provides a laminar air flow right down to floor level, reducing energy consumption and increasing comfort levels all year round.

Rectifier technology

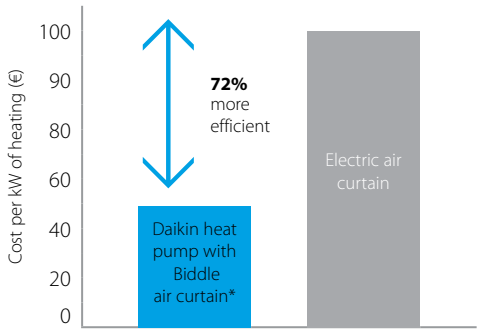


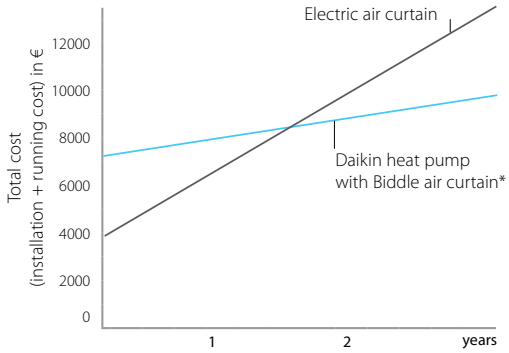
Air curtain, with turbulent air stream and loss of airflow – low separation efficiency



Biddle air curtain connected to Daikin heat pump with patented rectifier grille – separation efficiency up to 80-85%

Short pay back time





* Payback period and gains calculated based upon the following: Air curtain is 9hrs/day – 156 days/year (1,404 hrs/year) in use.
Annual energy consumption for an electric air curtain: 3,137EUR (COP = 0.95).
Typical installation cost: 1,000EUR; Typical equipment cost: 2,793EUR.
Annual energy consumption for CYQS200DK100FBN and ERQ100AV: 748EUR (COP 4.00). Typical installation cost: 2,000EUR; Typical equipment cost: 5,150EUR.
Calculation based upon electricity cost: 0,1705EUR /kWh.

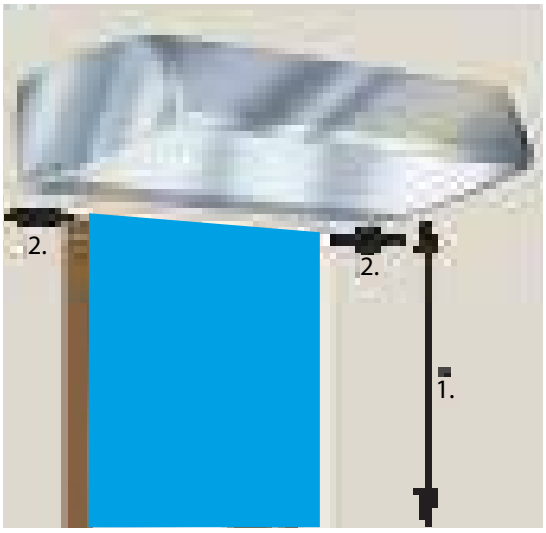
Selection of a Biddle air curtains

An air curtain is selected properly if it has sufficient capacity to heat up entering cold outside air to a comfortable temperature. Additionally, the unit must be able to properly screen off the entire width and height of the door opening. The air curtain type to be selected depands on:

1. The door height (=mounting height, measured from floor to bottom of unit)
2. The door width
3. The volume and temperature of the outside air entering through the open door

1. Door height and 2. door width

It is importantfor the distance between the air curtain and the door to be as short as possible. In addition, the air curtain must be at least as wide as the door opening, as too narrow an air curtain will lead to air leakages on the sides.



Correct door height and width installation
› To prevent air leakages on the sides, the air curtain must be at least as wide as the door opening.

3. Entering cold air through natural ventilation

In practice, the volume and temperature of entering outside air are difficult to determine, as conditions near a door vary continuously. Other aspects, such as floors with open connections, multiple open doors in a single room, or the orientation of the building, may also have a large influence on the capacity need. To make selection easy, the following guidelines may be used:

› Favorable conditions: covered shopping mall or revolving-door entrance.
› Normal conditions: little direct wint, no open doors, building with ground floor only
› Unfavorable conditions: location at a corner or square, multiple floors and/or open stairwell.

Biddle air curtain for ERQ

- Connectable to ERQ heat pump
- ERQ is among the first DX systems suitable for connection to air curtains
- Free-hanging model (F): easy wall mounted installation
- Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- Recessed model (R): neatly concealed in the ceiling
- A payback period of less then 1.5 years compared to installing an electric air curtain
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- Maximum energy efficiency stemming from almost zero down flow turbulence, optimised air flow and the application of advanced discharge rectifier technology
- Around 85% air separation efficiency, greatly reducing both heat loss and required indoor unit heating capacity

CYQM150DK80FSN

CYQM150DK80CSN

CYQM150DK80RSN

				Small			Medium			
				CYQS150DK80 *BN/*SN	CYQS200DK100 *BN/*SN	CYQS250DK140 *BN/*SN	CYQM100DK80 *BN/*SN	CYQM150DK80 *BN/*SN	CYQM200DK100 *BN/*SN	CYQM250DK140 *BN/*SN
Heating capacity	Speed 3		kW	9.0	11.6	16.2	9.2	11.0	13.4	19.9
Power input	Fan only	Nom.	kW	0.35	0.46	0.58	0.37	0.56	0.75	0.94
	Heating	Nom.	kW	0.35	0.46	0.58	0.37	0.56	0.75	0.94
Delta T	Speed 3		K	15		16	17	14	13	15
Casing	Colour			BN: RAL9010 / SN: RAL9006						
Dimensions	Unit	Height F/C/R	mm	270/270/270						
		Width F/C/R	mm	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	590/821/561						
Required ceiling void >			mm	420						
Door height	Max.		m	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)
Door width	Max.		m	1.5	2.0	2.5	1.0	1.5	2.0	2.5
Weight	Unit		kg	66	83	107	57	73	94	108
Fan-Air flow rate	Heating	Speed 3	m^3/h	1,746	2,328	2,910	1,605	2,408	3,210	4,013
Sound pressure level	Heating	Speed 3	dBA	49	50	51	50	51	53	54
Refrigerant	Type / GWP			R-410A / 2,087.5						
Piping connections	Liquid/OD/Gas/OD		mm	9.52/16.0		9.52/19.0	9.52/16.0			9.52/19.0
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1E52A/B or BRC1D52)						
Power supply	Voltage		V	230						

				Large			
				CYQL100DK125 *BN/*SN	CYQL150DK200 *BN/*SN	CYQL200DK250 *BN/*SN	CYQL250DK250 *BN/*SN
Heating capacity	Speed 3		kW	15.6	23.3	29.4	31.1
Power input	Fan only	Nom.	kW	0.75	1.13	1.50	1.88
	Heating	Nom.	kW	0.75	1.13	1.50	1.88
Delta T	Speed 3		K	15		14	12
Casing	Colour			BN: RAL9010 / SN: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	774/1,105/745			
Required ceiling void >			mm	520			
Door height	Max.		m	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5
Weight	Unit		kg	76	100	126	157
Fan-Air flow rate	Heating	Speed 3	m^3/h	3,100	4,650	6,200	7,750
Sound pressure level	Heating	Speed 3	dBA	53	54	56	57
Refrigerant	Type / GWP			R-410A / 2,087.5			
Piping connections	Liquid/OD/Gas/OD		mm	9.52/16.0	9.52/19.0	9.52/22.0	
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1E52A/B or BRC1D52)			
Power supply	Voltage		V	230			

(1) Favorable conditions: covered shopping mall or revolving door entrance (2) Normal conditions: little direct wind, no opposite open doors, building with ground floor only (3) Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway

Ventilation

VAM - HEAT RECLAIM VENTILATION

DAIKIN AIR HANDLING UNIT AND ERQ/VRV HEAT PUMP

Outdoor units portfolio for connection to air handling units

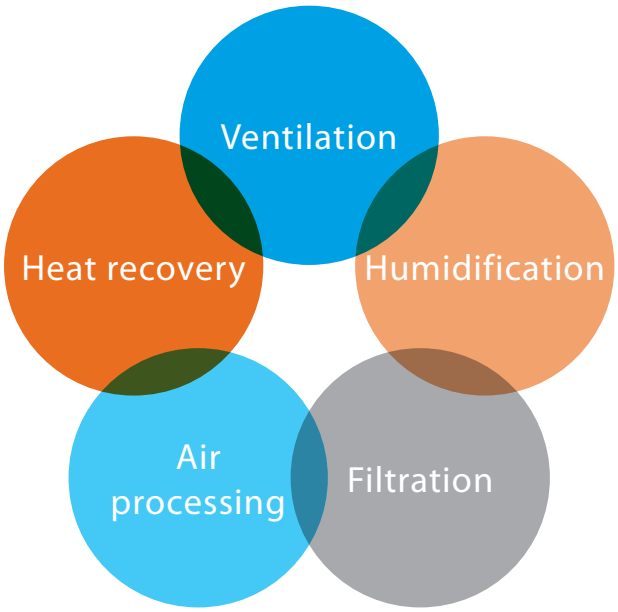
System	Type	Product name	Condensing units		71	100	125	140	200	250
Air cooled	Heat pump	ERQ-AV1 [1] Condensing Units	- High efficiency - High comfort levels - Easy design and installation - Maximize installation flexibility by offering 4 types of control systems			●	●	●		
		ERQ-AW1 [1] Condensing Units					●		●	●

1) Only use the condensing units in combinations with an air handling unit.

Ventilation portfolio

Five components of indoor air quality

- **Ventilation:** ensures the provision of fresh air
- **Heat recovery:** recovers heat and moisture from the outgoing air to maximise comfort and efficiency
- **Air processing:** heats or cools incoming fresh air maximising comfort and minimizing the load on the air conditioning installation
- **Humidification:** optimises the balance between indoor and outdoor humidity
- **Filtration:** removes dust, pollution and odours from the air

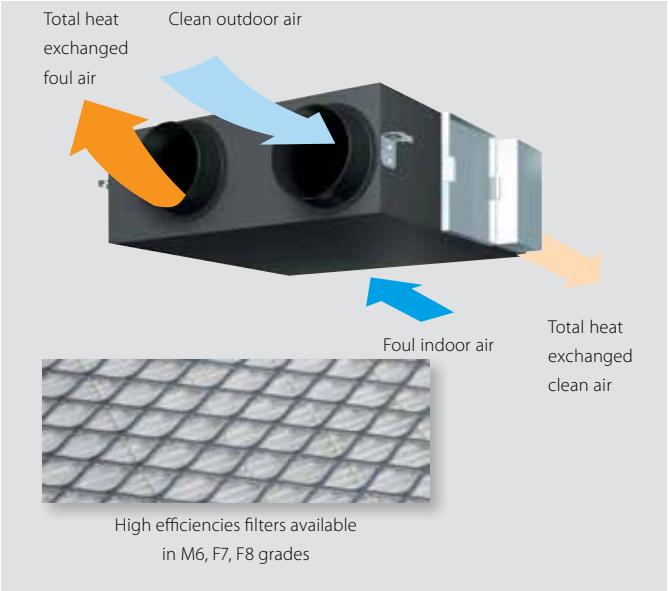


Air flow rate (m³/h)

Type	Product name	Model	0	200	400	600	800	1,000	2,000	4,000	10,000	25,000	140,000	Components of indoor air quality
Heat reclaim ventilation	VAM-FC 	Ventilation with heat recovery as standard › Energy saving ventilation › Maximise floor space for furniture, decoration and fittings › Free cooling › Reduced energy consumption thanks to DC inverter fan motor › Optional CO_2 sensor saves energy while improving indoor air quality												› Ventilation › Energy recovery 
Air Handling Unit (application)	DX total fresh air package 	Fully customised solution for ventilation and air handling › Inverter technology › Heat pump and heat recovery › Provides virtually free heating › Room temperature via Daikin control › Large range of expansion valve kits											(1)	› Ventilation › Energy recovery › Air processing › Humidification › Filtration 

[1] Daikin AHU connected to Daikin chiller solution

Heat reclaim ventilation



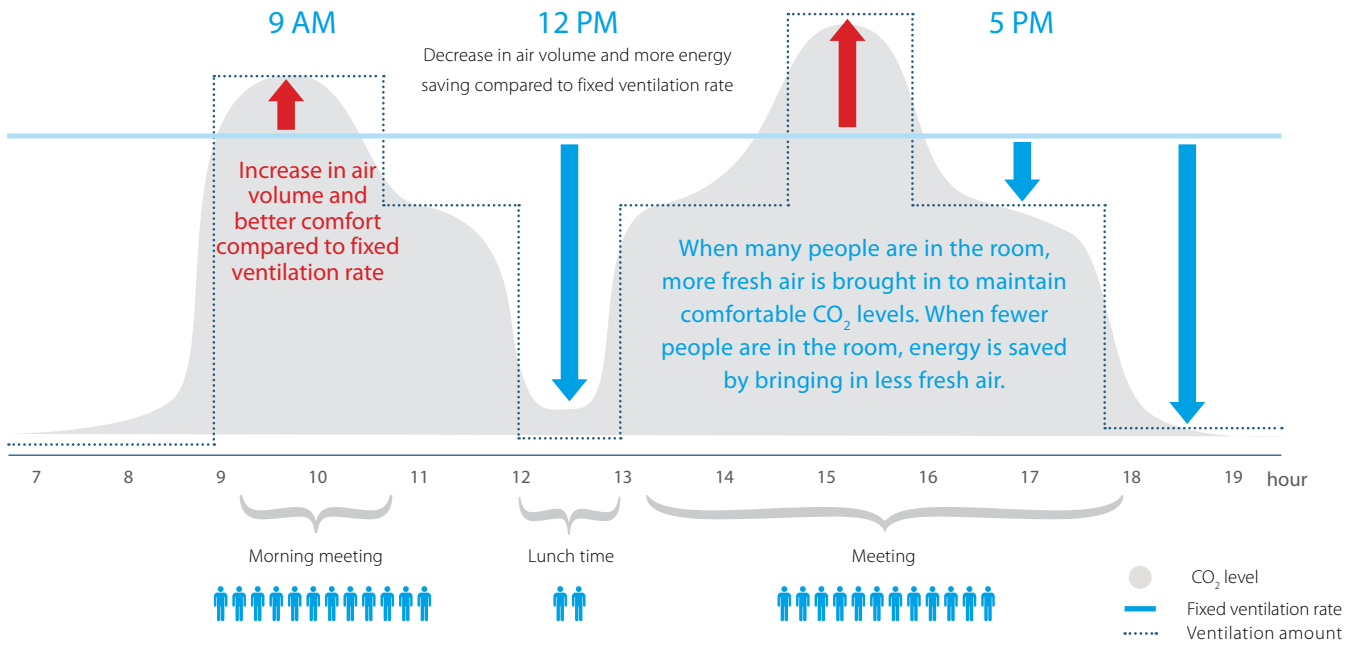
Ventilation with heat recovery as standard

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Reduced energy consumption thanks to specially developed DC fan motor
- Prevent energy losses from over-ventilation while maintaining indoor air quality with optional CO_2 sensor
- Can be used as stand alone unit or integrated in the VRV system
- Wide range of units: air flow rate from 150 up to 2,000 m^3/h
- High efficiency filters available in M6 ,F7, F8 grades
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation.
- Specially developed heat exchange element with High Efficiency Paper (HEP)
- No drain piping needed
- Can operate in over- and under pressure
- Total solution for fresh air with Daikin supply of both VAM and electrical heaters

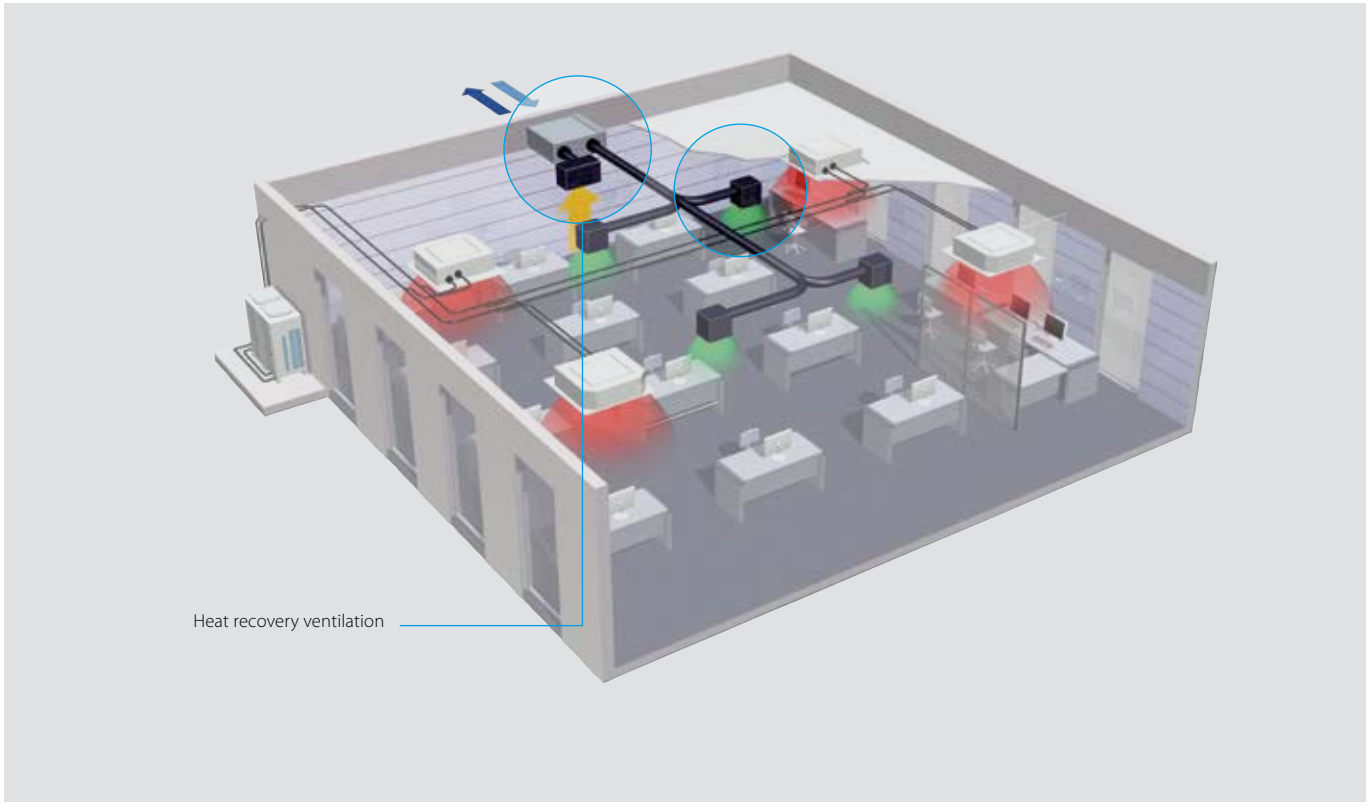
Prevent energy losses from over ventilation with CO_2 sensor

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO_2 sensor can be installed which throttles or even switches off the ventilation system when there is enough fresh air in the room, thus saving energy.

Example of CO_2 sensor operation in a meeting room:



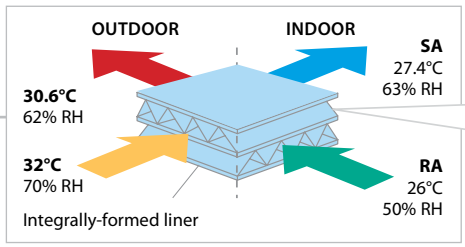
Using CO_2 sensors has the most energy-saving potential in buildings where occupancy fluctuates during a 24-hour period, is unpredictable and peaks at a high level. For example office buildings, government facilities, retail stores and shopping malls, movie theaters, auditoriums, schools, entertainment clubs and nightclubs. The ventilation unit's reaction to fluctuations in CO_2 can be easily adjusted through a field setting.

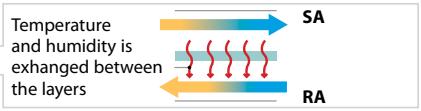


High Efficiency Paper

Operation of the high efficiency paper.

Cross flow of air to exchange heat and moisture.





RH: Relative Humidity SA: Supply Air (to room) RA: Return Air (from room)

Ventilation				VAM	150FC	250FC	350FC	500FC	650FC	800FC	1000FC	1500FC	2000FC
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high	kW	0.132	0.161	0.071 (1)	0.147 (1)	0.188 (1)	0.320 (1)	0.360 (1)	0.617 (1)	0.685 (1)
	Bypass mode	Nom.	Ultra high	kW	0.132	0.161	0.071 (1)	0.147 (1)	0.188 (1)	0.320 (1)	0.360 (1)	0.617 (1)	0.685 (1)
Temperature exchange efficiency - 50Hz	Ultra high			%	77.0 (2) / 72.0 (3)	74.9 (2) / 69.5 (3)	78.0 (2) / 71.6 (3)	77.0 (2) / 70.2 (3)	77.0 (2) / 69.8 (3)	77.0 (2) / 67.8 (3)	78.0 (2) / 70.2 (3)	78.0 (2) / 69.5 (3)	78.0 (2) / 70.2 (3)
	High				78.3 (2) / 72.3 (3)	76.0 (2) / 70.0 (3)	79.3 (2) / 71.9 (3)	78.8 (2) / 70.7 (3)	79.1 (2) / 71.2 (3)	78.2 (2) / 68.8 (3)	78.6 (2) / 71.1 (3)	79.6 (2) / 70.3 (3)	79.6 (2) / 71.3 (3)
	Low				82.8 (2) / 73.2 (3)	80.1 (2) / 72.0 (3)	84.1 (2) / 73.0 (3)	80.9 (2) / 71.3 (3)	81.1 (2) / 72.9 (3)	79.1 (2) / 69.6 (3)	80.2 (2) / 73.4 (3)	80.8 (2) / 71.0 (3)	80.6 (2) / 74.6 (3)
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high		%	60.3 (2)	60.3 (2)	63.4 (2)	60.3 (2)	60.3 (2)	62.4 (2)	63.4 (2)	63.4 (2)	63.4 (2)
		High			61.9 (2)	61.2 (2)	65.0 (2)	63.4 (2)	64.0 (2)	63.6 (2)	64.2 (2)	65.0 (2)	64.5 (2)
		Low			67.3 (2)	64.5 (2)	70.7 (2)	66.9 (2)	67.3 (2)	64.6 (2)	66.3 (2)	66.2 (2)	67.8 (2)
	Heating	Ultra high		%	66.6 (2)	66.6 (2)	67.6 (2)	64.5 (2)	65.5 (2)	67.6 (2)	68.6 (2)	68.6 (2)	68.6 (2)
		High			67.9 (2)	67.4 (2)	68.9 (2)	67.6 (2)	67.7 (2)	68.8 (2)	69.4 (2)	69.7 (2)	69.5 (2)
		Low			72.4 (2)	70.7 (2)	73.7 (2)	71.1 (2)	69.7 (2)	69.8 (2)	71.5 (2)	70.5 (2)	72.1 (2)
Operation mode					Heat exchange mode, bypass mode, fresh-up mode								
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange								
Heat exchange element					Specially processed non-flammable paper								
Dimensions	Unit	HeightxWidthxDepth		mm	285x776x525		301x828x816		364x1,000x868		364x1,000x1,160	726x1,510x868	726x1,510x1,160
Weight	Unit			kg	24.0		33.0		51.0	54.0	63.0	128	145
Casing	Material				Galvanised steel plate								
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high		m^3/h	150 (4)	250 (4)	350 (1)	500 (1)	650 (1)	800 (1)	1,000 (1)	1,500 (1)	2,000 (1)
	Bypass mode	Ultra high		m^3/h	150 (4)	250 (4)	350 (1)	500 (1)	650 (1)	800 (1)	1,000 (1)	1,500 (1)	2,000 (1)
Fan-External static pressure - 50Hz	Ultra high/High/Low			Pa	90 (4)/87 (4)	70 (4)/63 (4)	103 (1)/93 (1)	83 (1)/57 (1)	100 (1)/73 (1)	109 (1)/94 (1)	147 (1)/135 (1)	116 (1)/97 (1)	132 (1)/118 (1)
					40 (4)	25 (4)	51 (1)	35 (1)	49 (1)	78 (1)	100 (1)	80 (1)	77 (1)
Air filter	Type				Multidirectional fibrous fleeces								
Sound pressure level - 50Hz	Heat exchange mode	Ultra high		dBA	27.0	28.0	32.0	33.0	34.5	36.0	36.0	39.5	40.0
	Bypass mode	Ultra high		dBA	27.0	28.0	32.0	33.5	34.5	36.0	36.0	40.5	40.0
Operation range	Min./Max.			°CDB	-15/50								
	Relative humidity			%	80% or less								
Refrigerant	Type / GWP												
Connection duct diameter				mm	100	150		200		250		350	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220								
Current	Maximum fuse amps (MFA)			A	15		16						

(1) Measured on fan curve 15. Refer to fan curves. (2) Measured according to JIS B 8628 (3) Measured according to EN308 : 1997 (4) Clean the filter when this icon appears on the controller screen. Regular filter cleaning is important for delivered air quality and for the unit's energy efficiency. (5) In accordance with commission regulation (EU) No 1254/2014 (6) Products with an air flow rate ≤ 250m^3/h must comply to commission regulation (EU) No.1254/2014 for RVU's, products with an air flow rate > 250m^3/h must comply to commission regulation (EU) No.1253/2014 for NRVU's.

Preheater for VAM

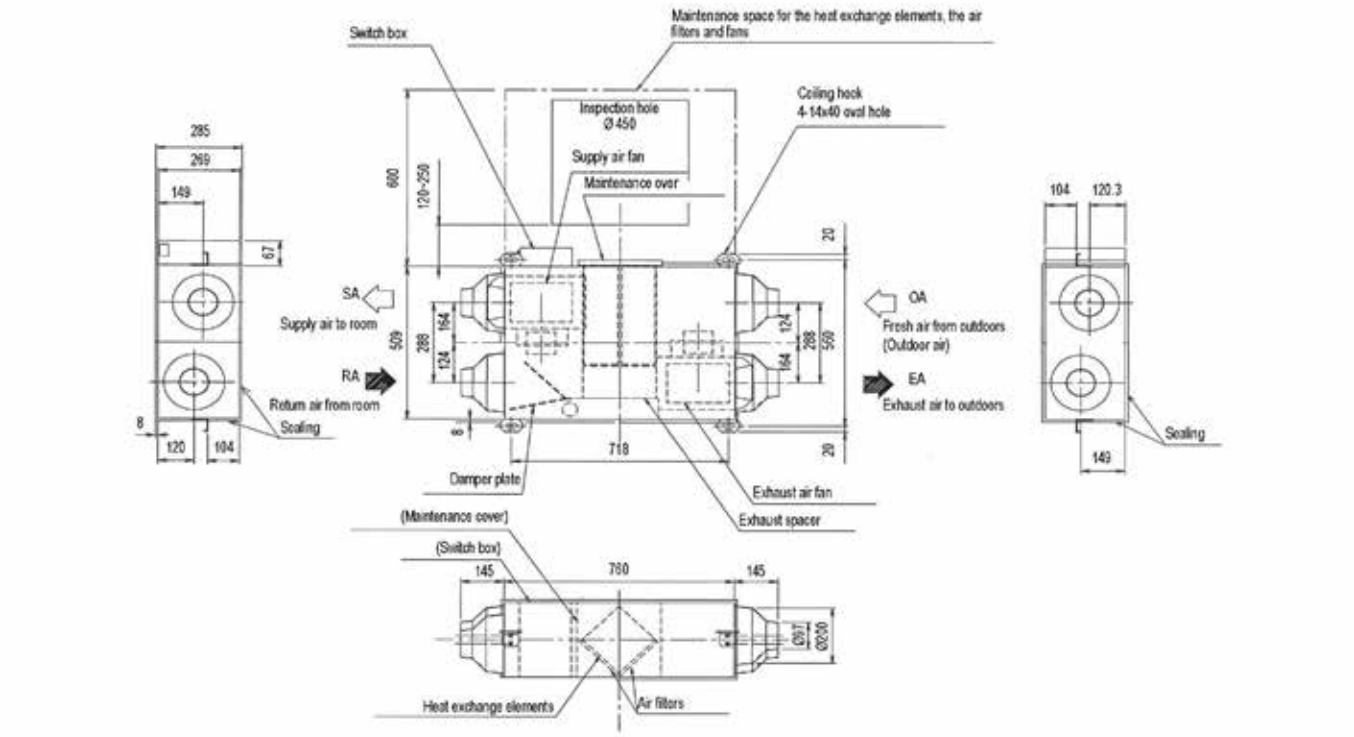
- Total solution for fresh air with Daikin supply of both VAM and preheaters
- Increased comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Flexible setting with adjustable setpoint
- Increased safety with 2 cut-outs: manual & automatic
- BMS integration thanks to:
  - Volt free relay for error indication
  - 0-10VDC input for setpoint control

PREHEATER FOR VAM	VH	(VH)
Supply voltage		220/250V ac 50/60 Hz. +/-10%
Output current (maximum)		19A at 40°C (ambient)
Temperature sensor		5k ohms at 25°C (table 502 1T)
Temperature control range		0 to 40°C / (0-10V 0-100%)
Control fuse		20 x 5mm 250mA
LED indicators		Power ON - Yellow Heater ON - Red (solid or flashing, indicating pulsed control) Airflow fault - Red
Mounting holes		98mm x 181mm centres 5 mm ø holes
Maximum ambient adjacent to terminal box		35°C (during operation)
Auto high temp. cutout		100°C Pre-set
Man. reset high temp. cutout		125°C Pre-set
Run relay		1A 120V AC or 1A 24V DC
BMS setpoint input		0-10VDC

	VH	1B	2B	3B	4B	4/AB	5B
Capacity	kW	1	1	1	1.5	2.5	2.5
Duct diameter	mm	100	150	200	250	250	300
Connectable VAM		VAM150FC	VAM250FC	VAM500FC	VAM800FC	VAM800FC	VAM1500FC
		-	VAM350FC	VAM650FC	VAM1000FC	VAM1000FC	VAM2000FC

For the selection of the appropriate capacity, please refer to the VAM selection software.

VAM150FC

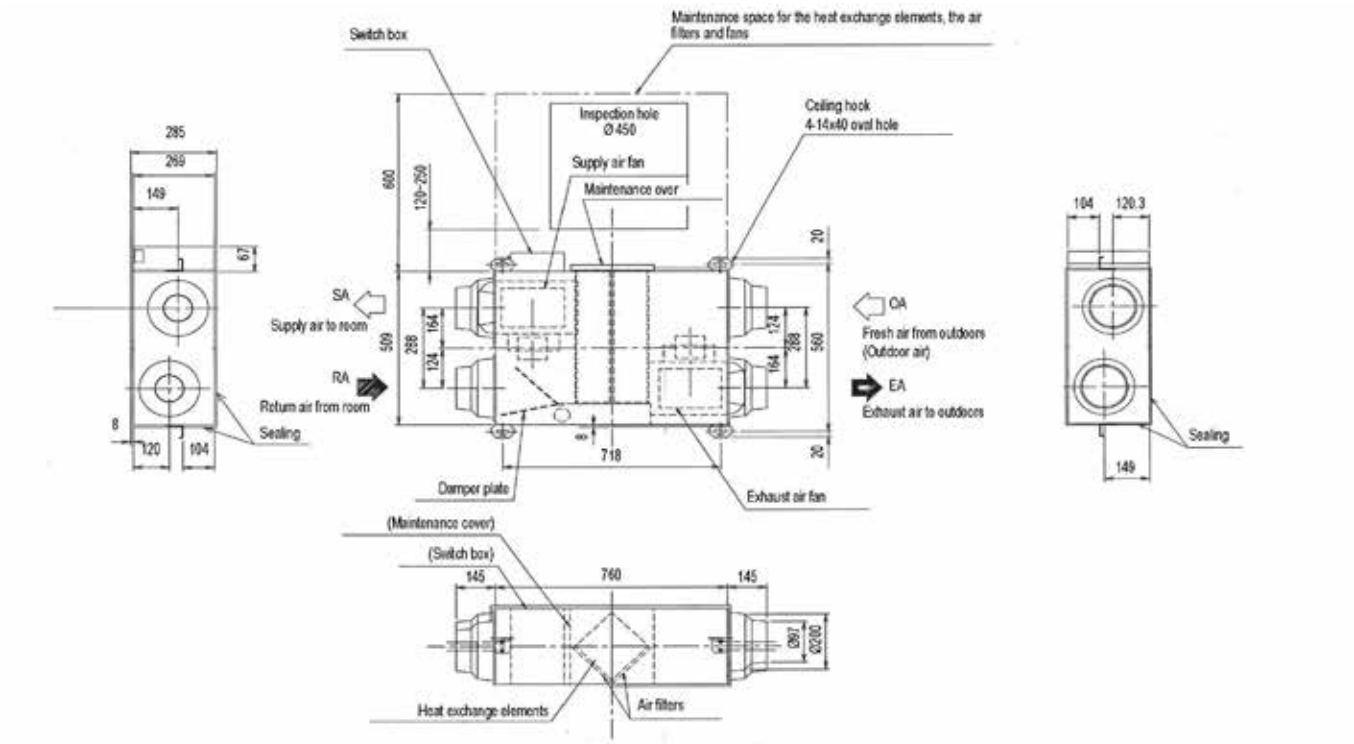


NOTE

1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27874-1

VAM250FC

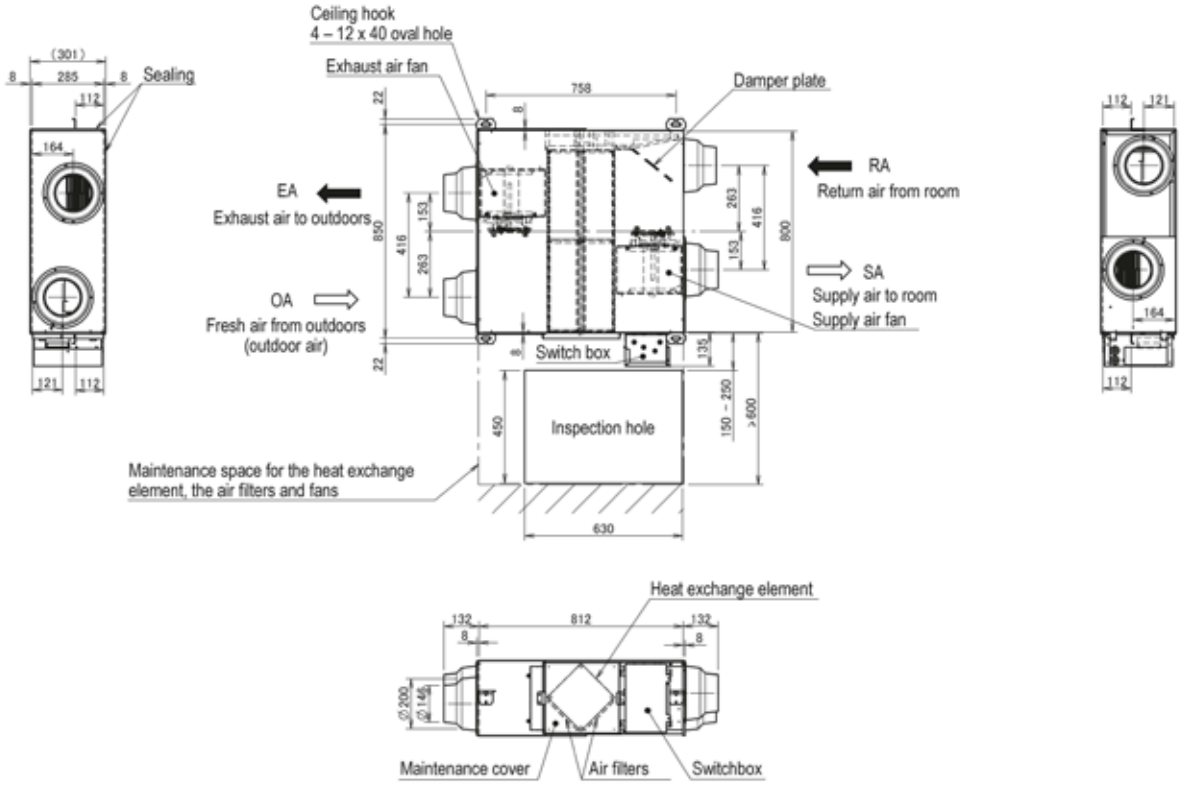


NOTE

1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27884-1

VAM350FC

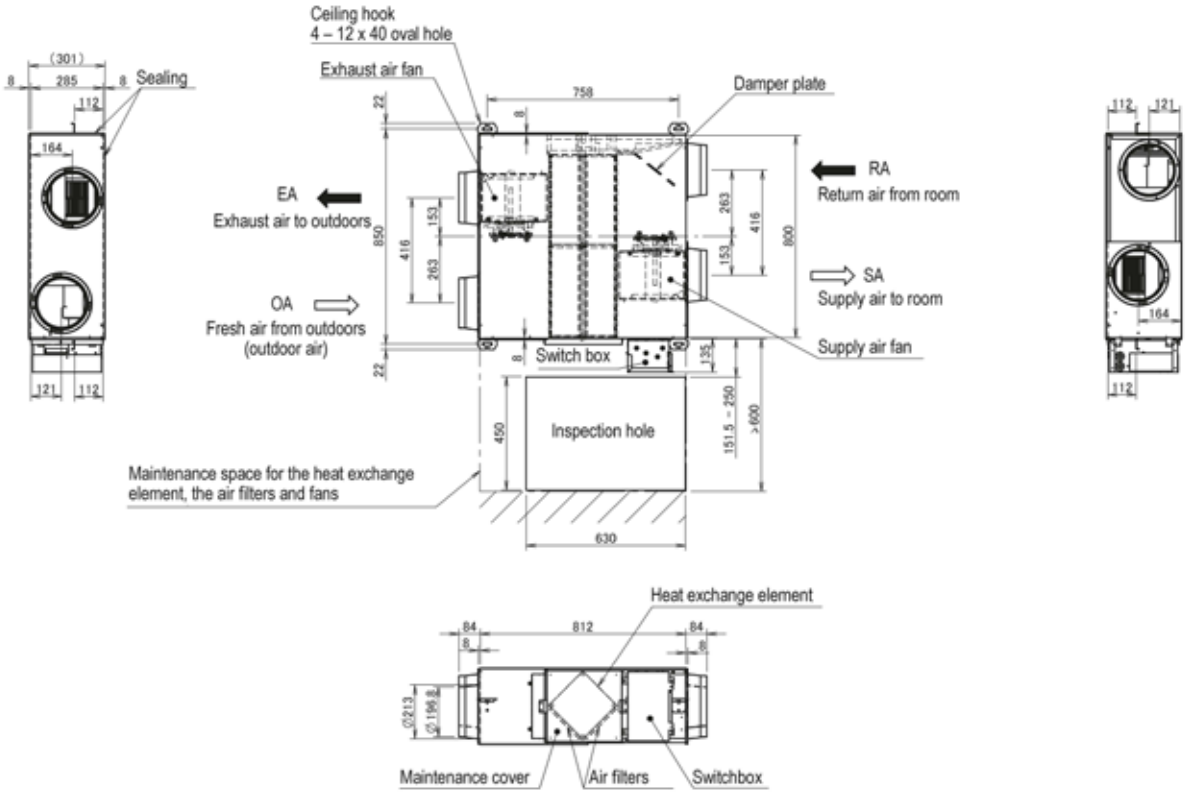


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081162

VAM500FC

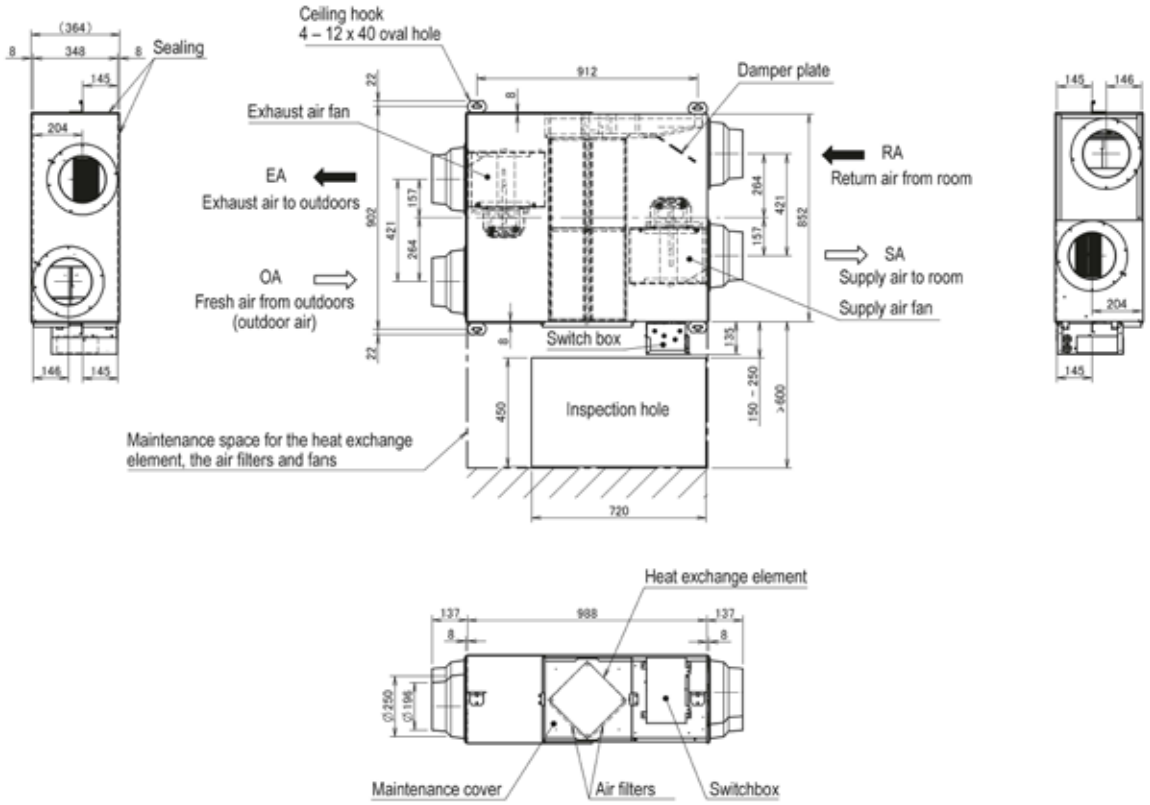


NOTES

1. Be sure to provide the inspection hole to inspectthe air filters, the exchange elements and fans.

3D081163

VAM650FC

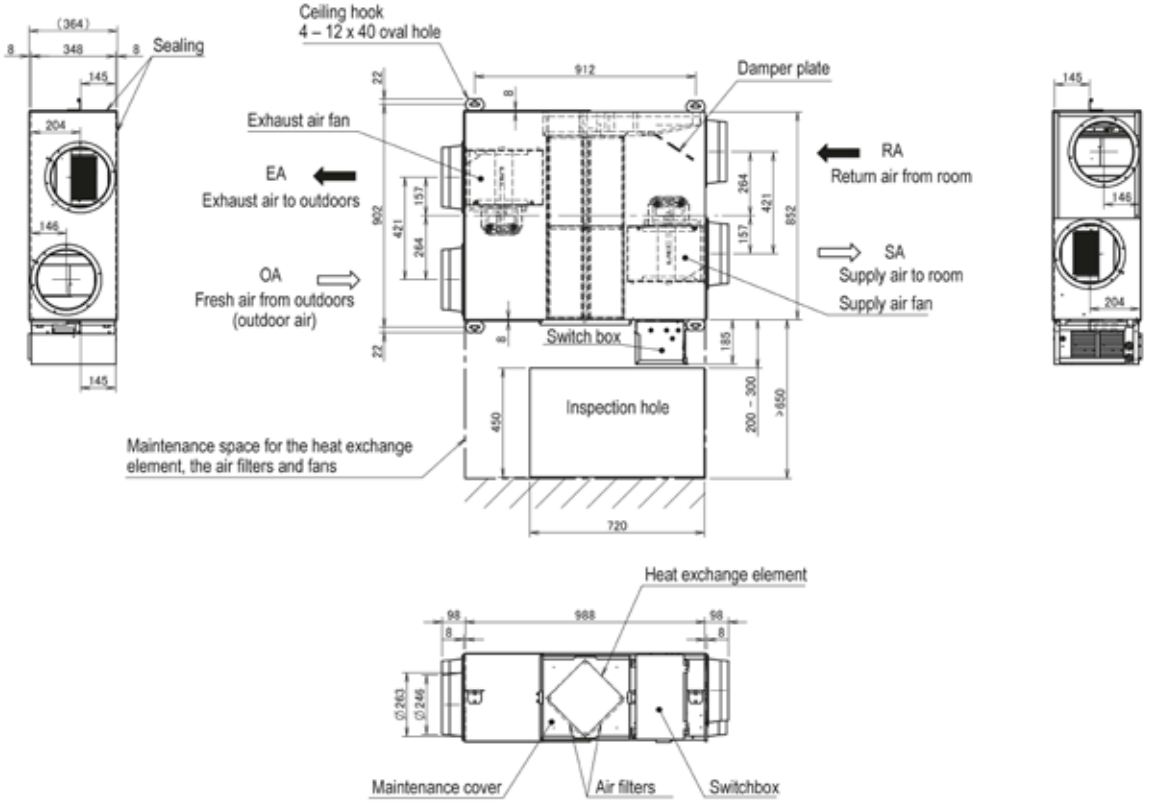


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081164

VAM800FC

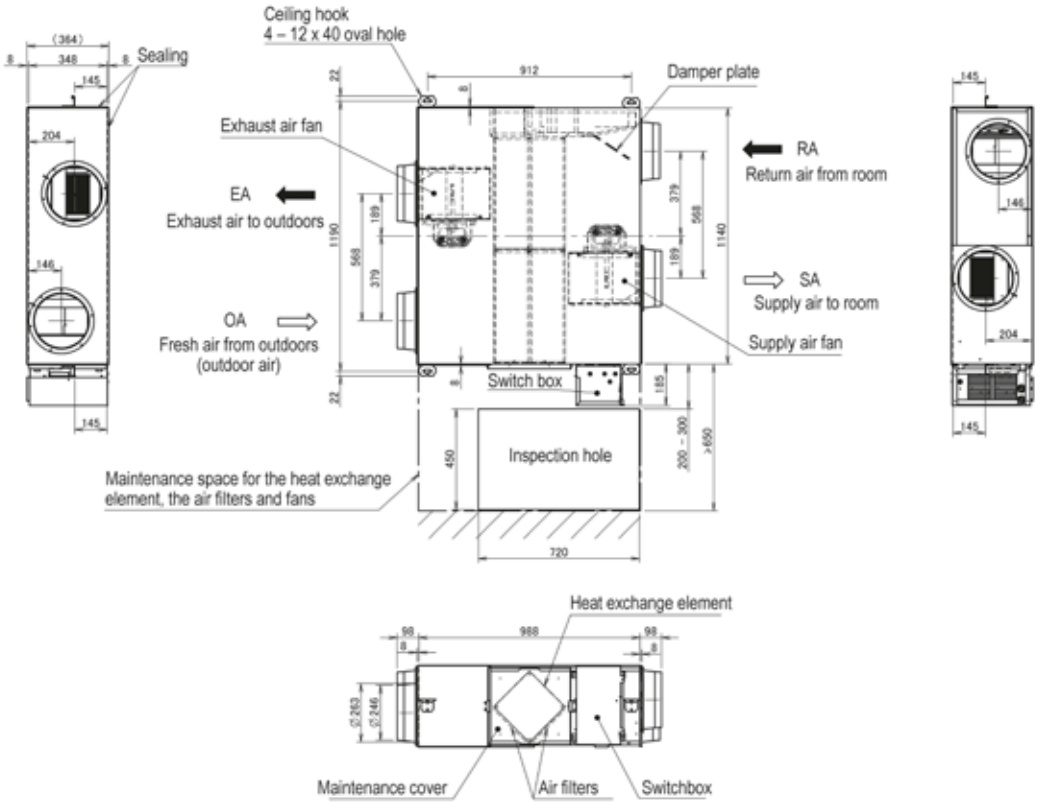


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081165

VAM1000FC

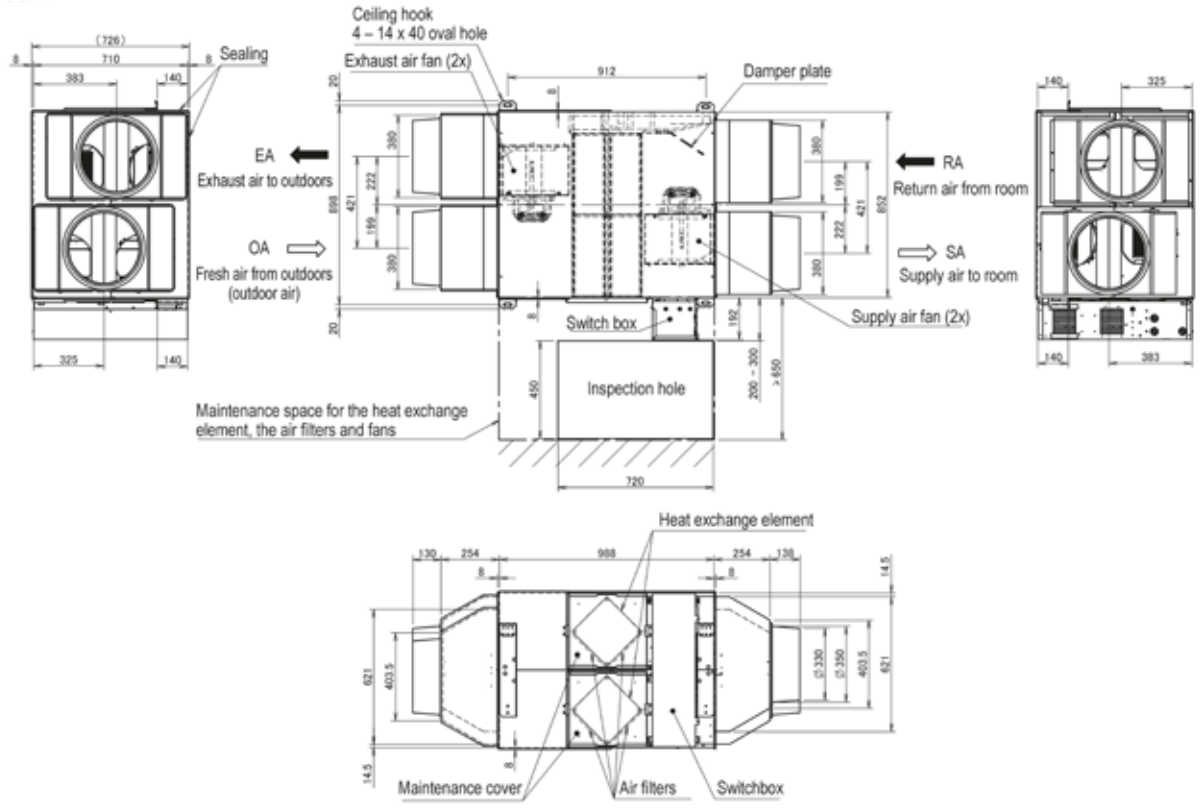


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081166

VAM1500FC

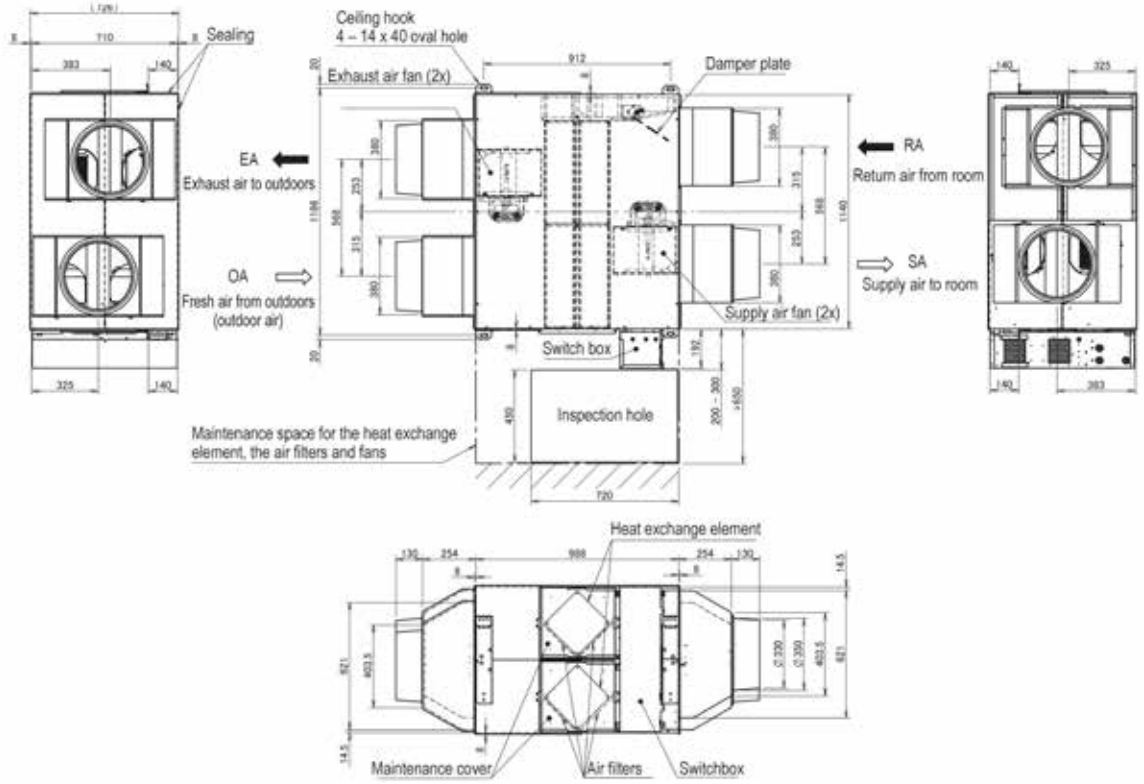


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081167

VAM2000FC

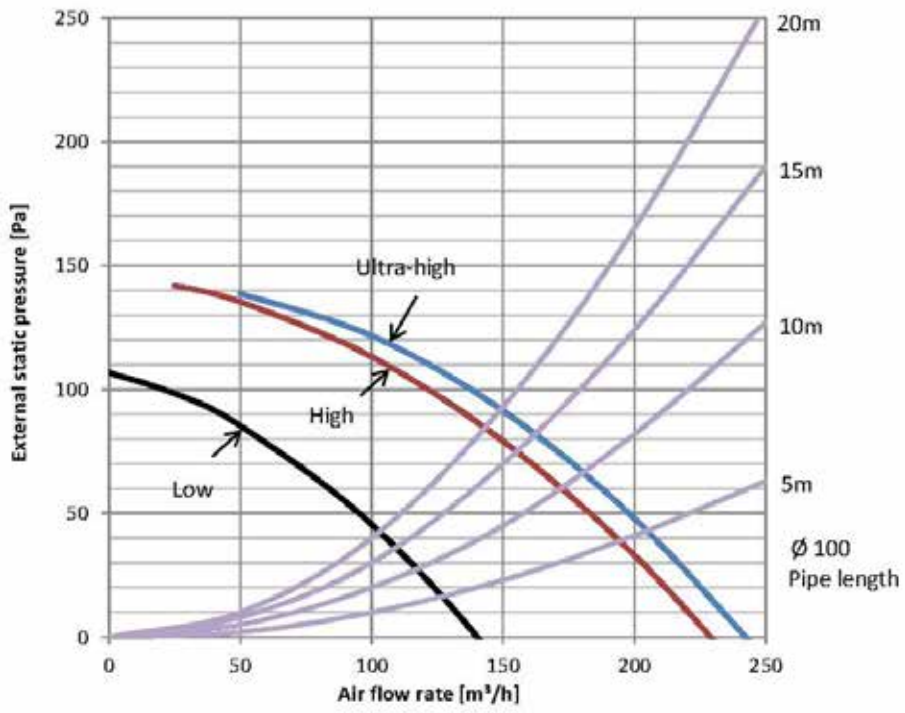


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081168

VAM150FC

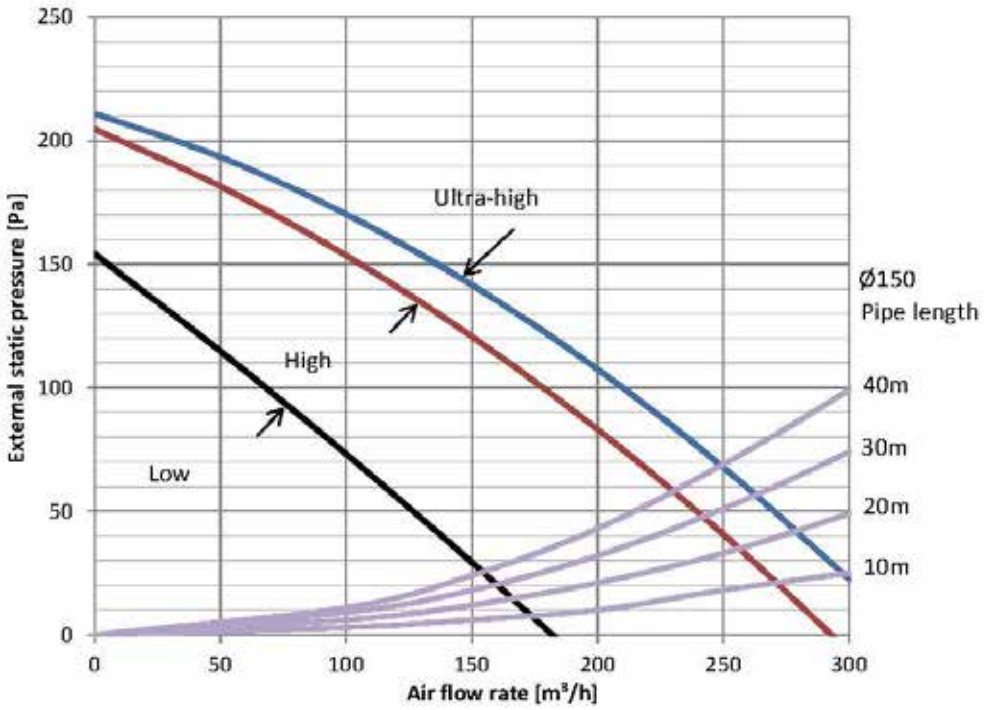


Notes

1. The fan speeds are valid for 230-V, 50-Hz power supply.

4D100379

VAM250FC

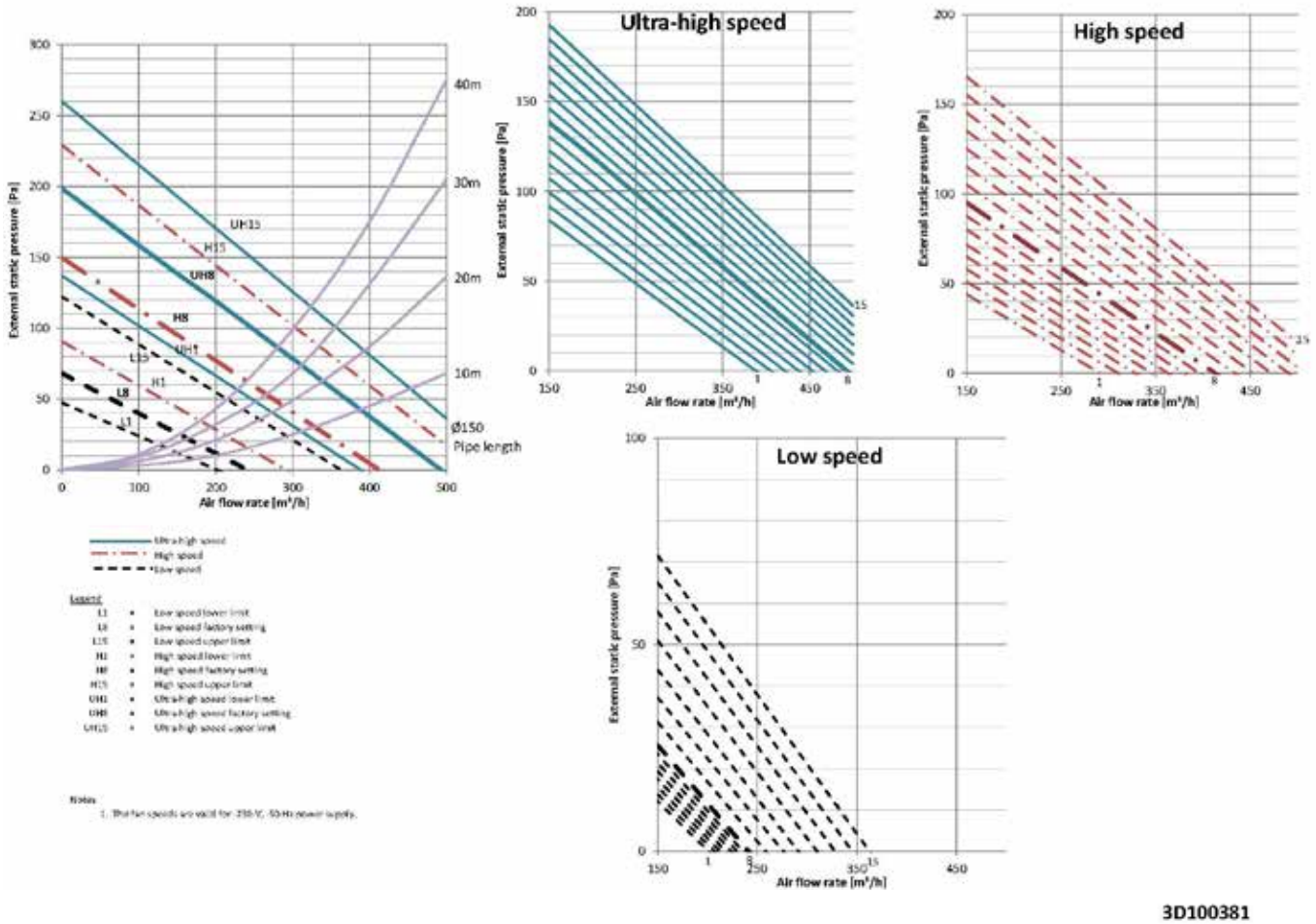


Notes

1. The fan speeds are valid for -230-V, -50-Hz power supply.

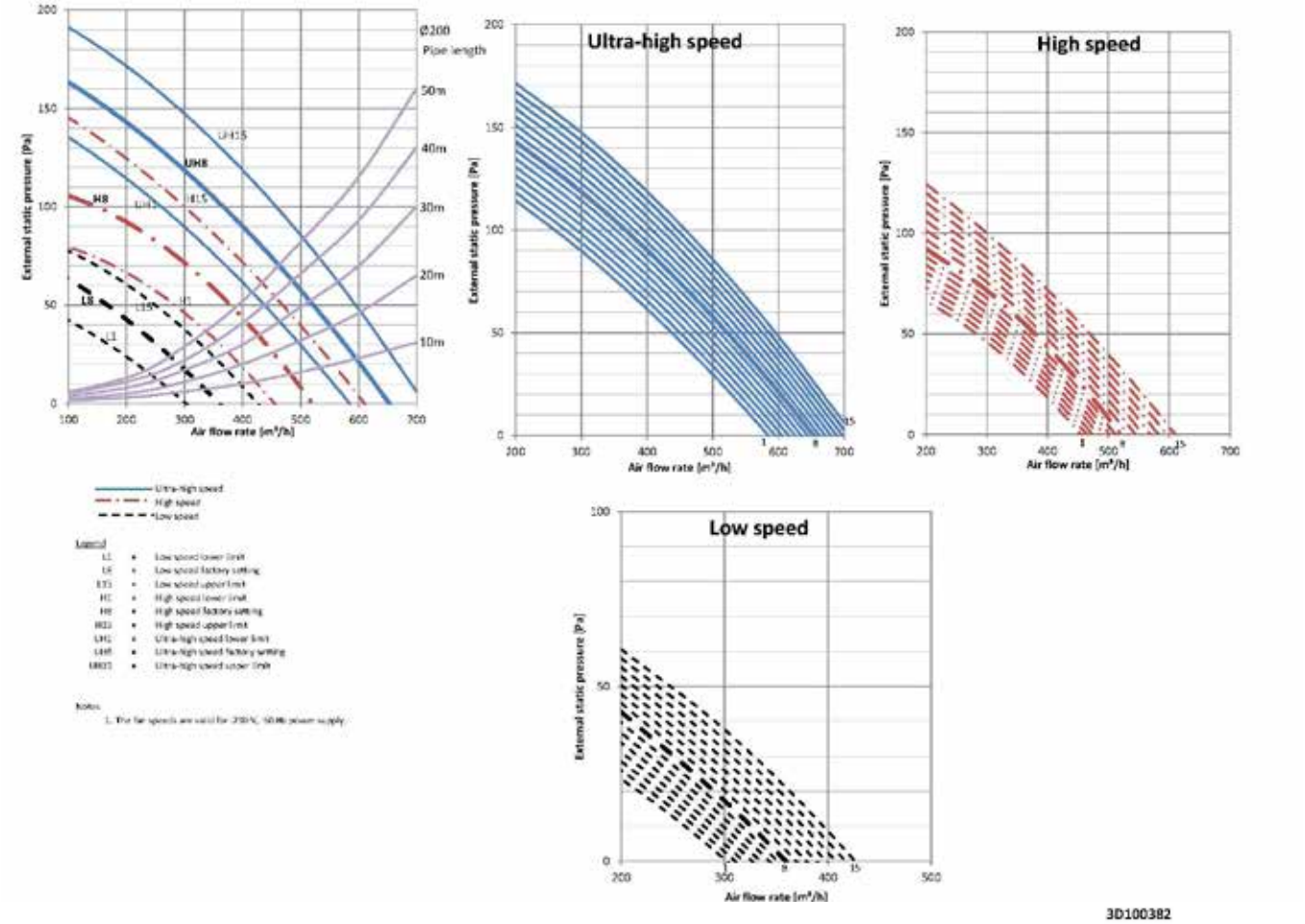
4D100380

VAM350FC

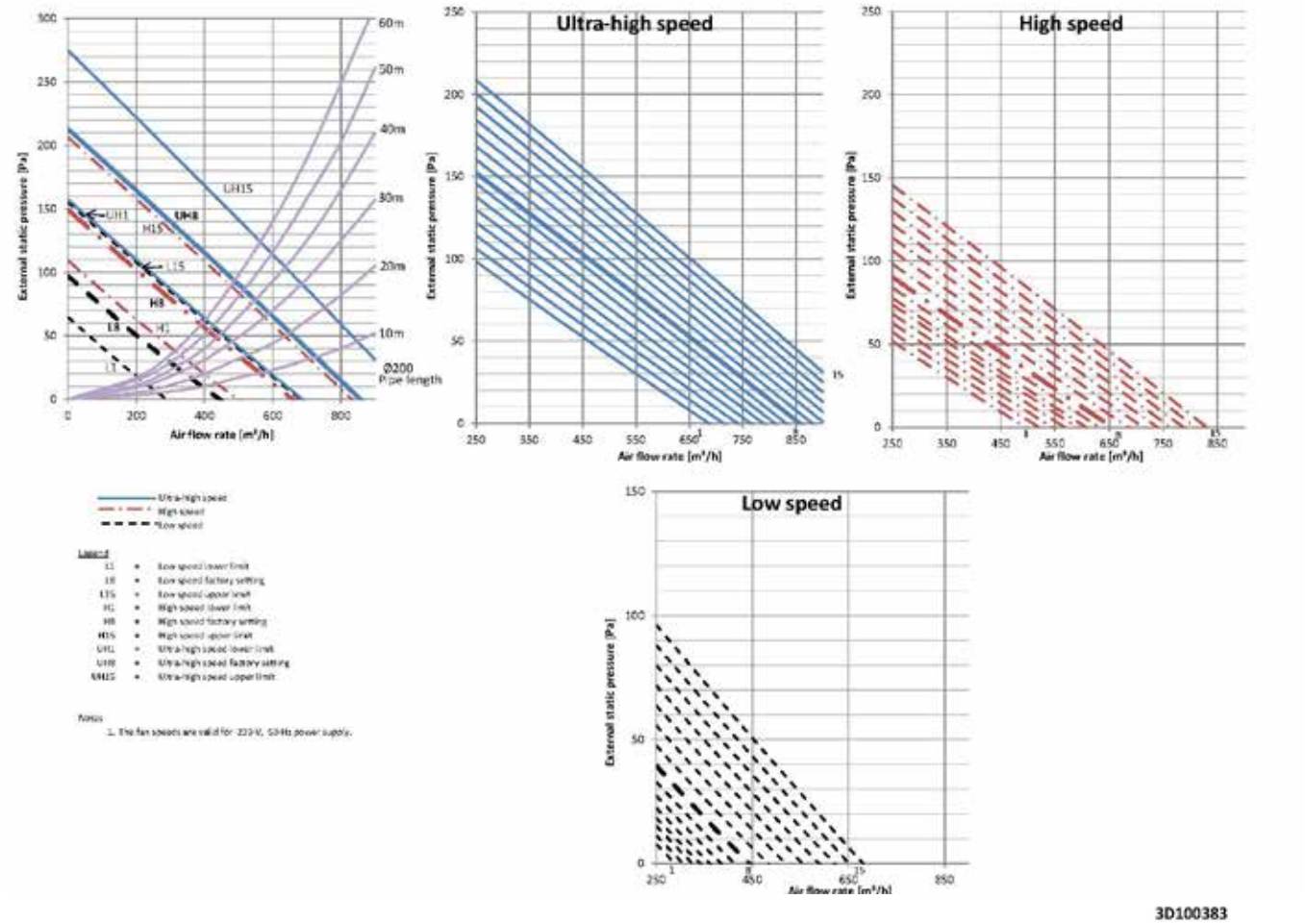


3D100381

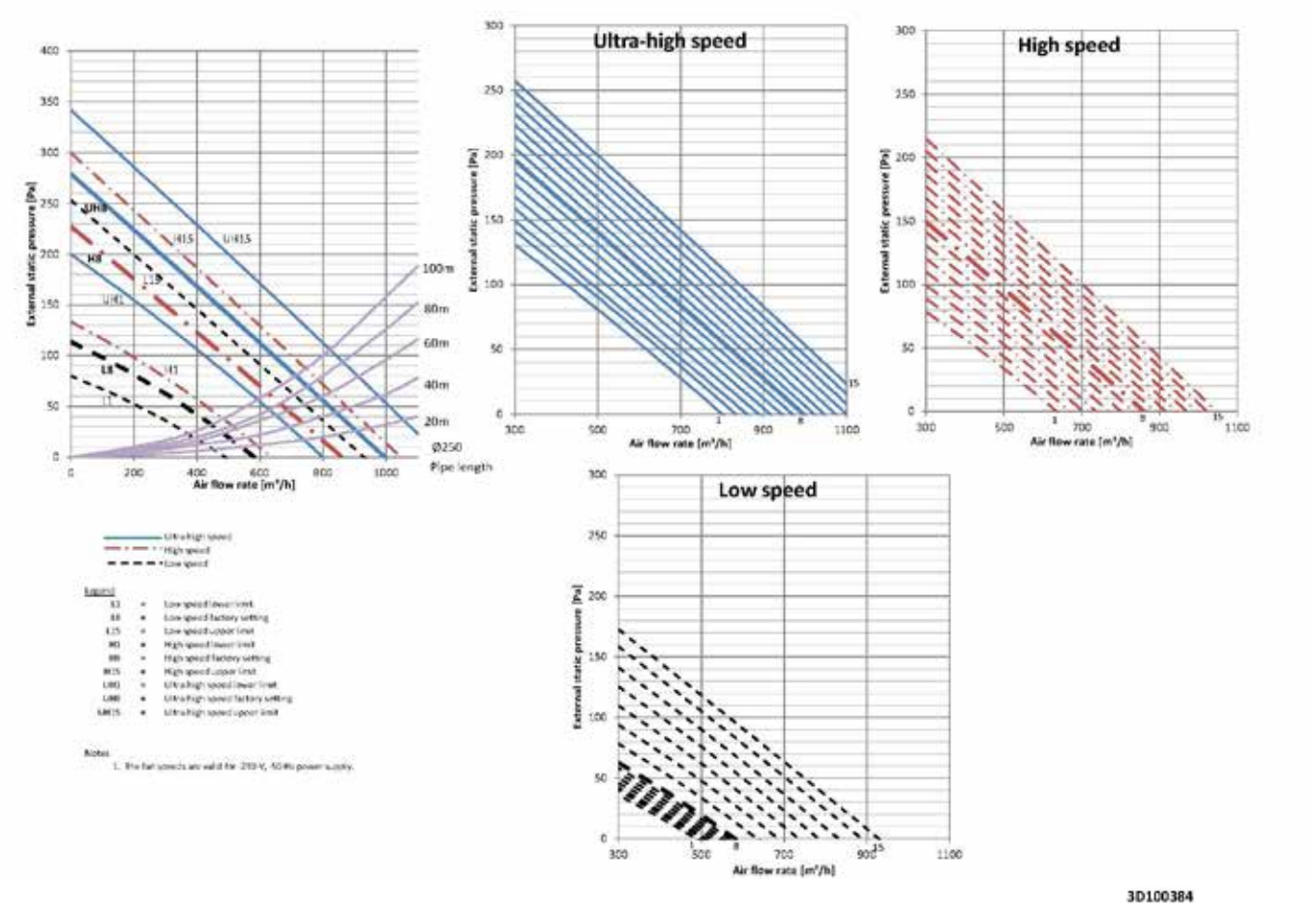
VAM500FC



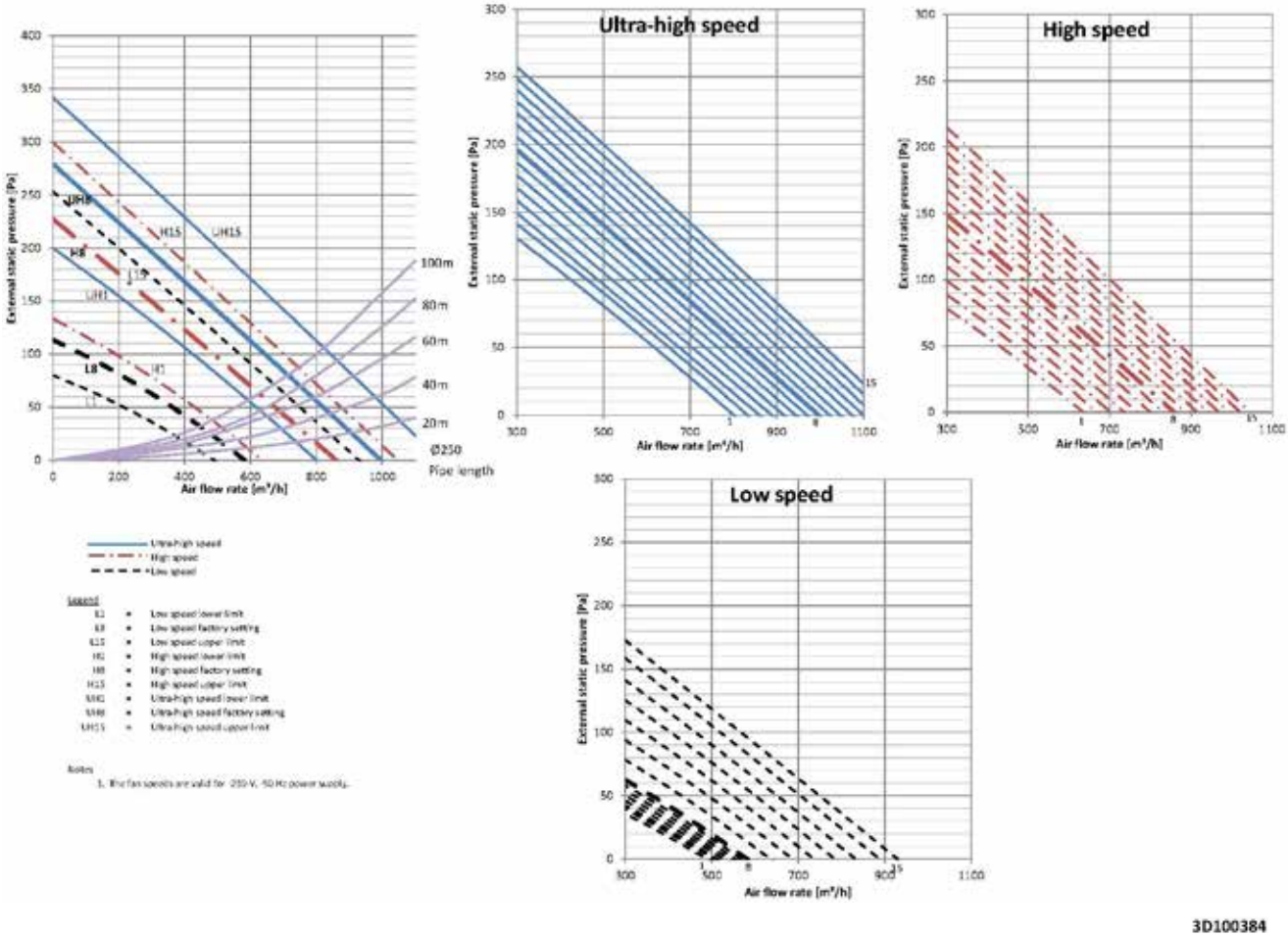
VAM650FC



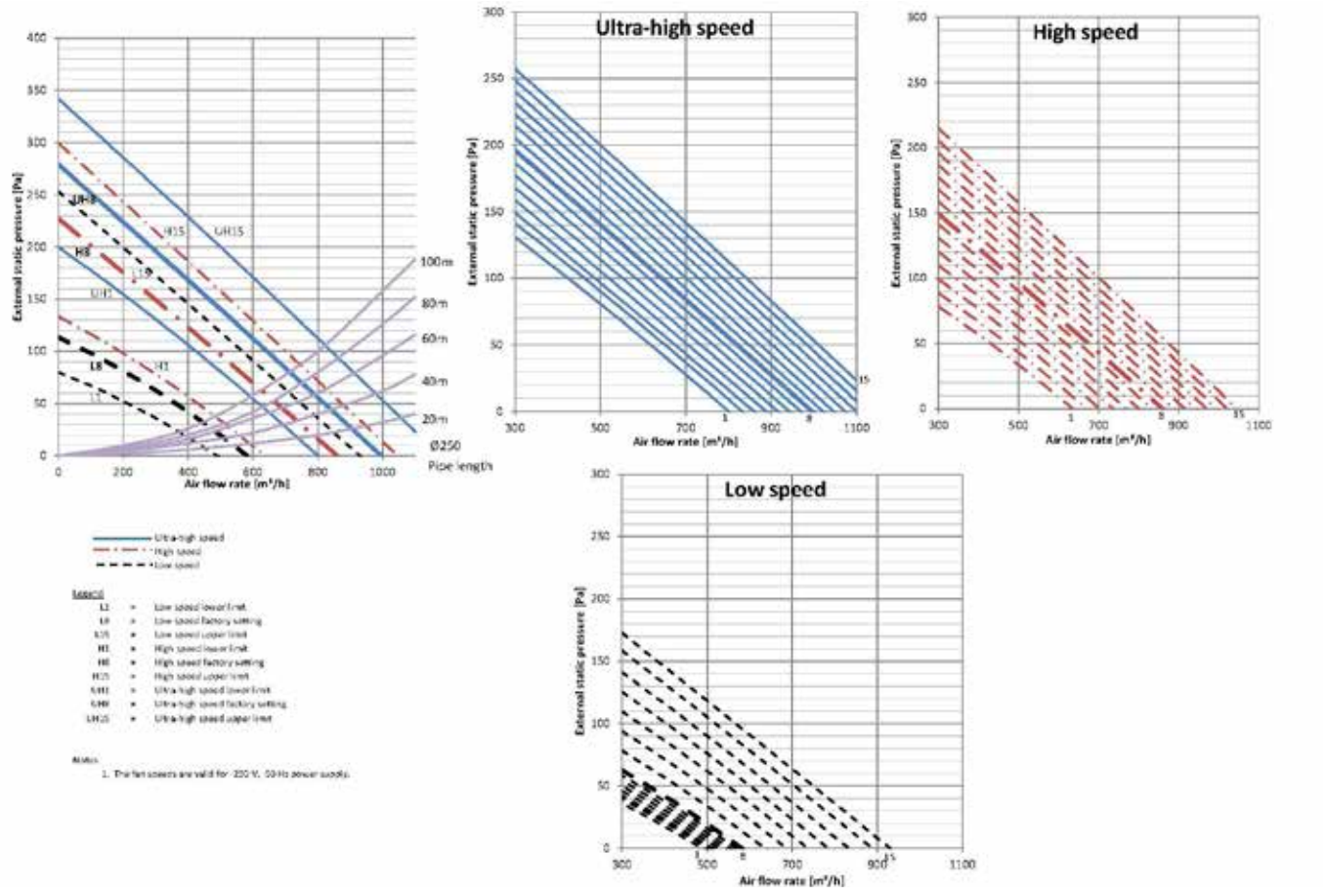
VAM800FC



VAM1000FC

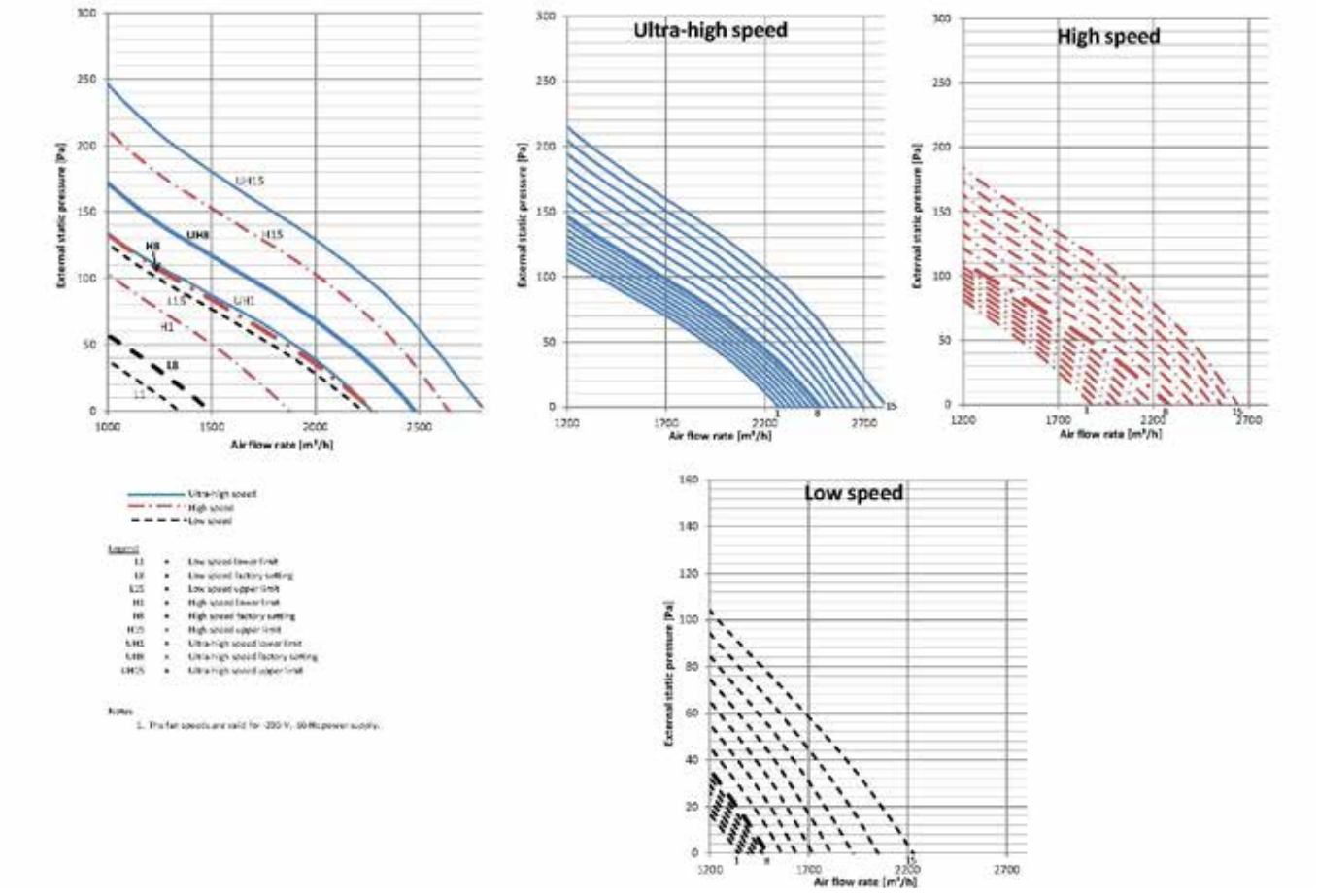


VAM1500FC



3D100384

VAM2000FC



3D100387

Air handling unit applications

Wide range of air flows

For applications that require big volumes of treated fresh air (large atriums, banquet halls, etc) air handling units represent the ideal solution. Daikin's wide range of air handling units treat air volumes from 500 m^3/h up to 144,000 m^3/h. The air handling unit can be designed to deliver whatever air flow you require, via the specific dimensions of flow section available at the installation.

Professional

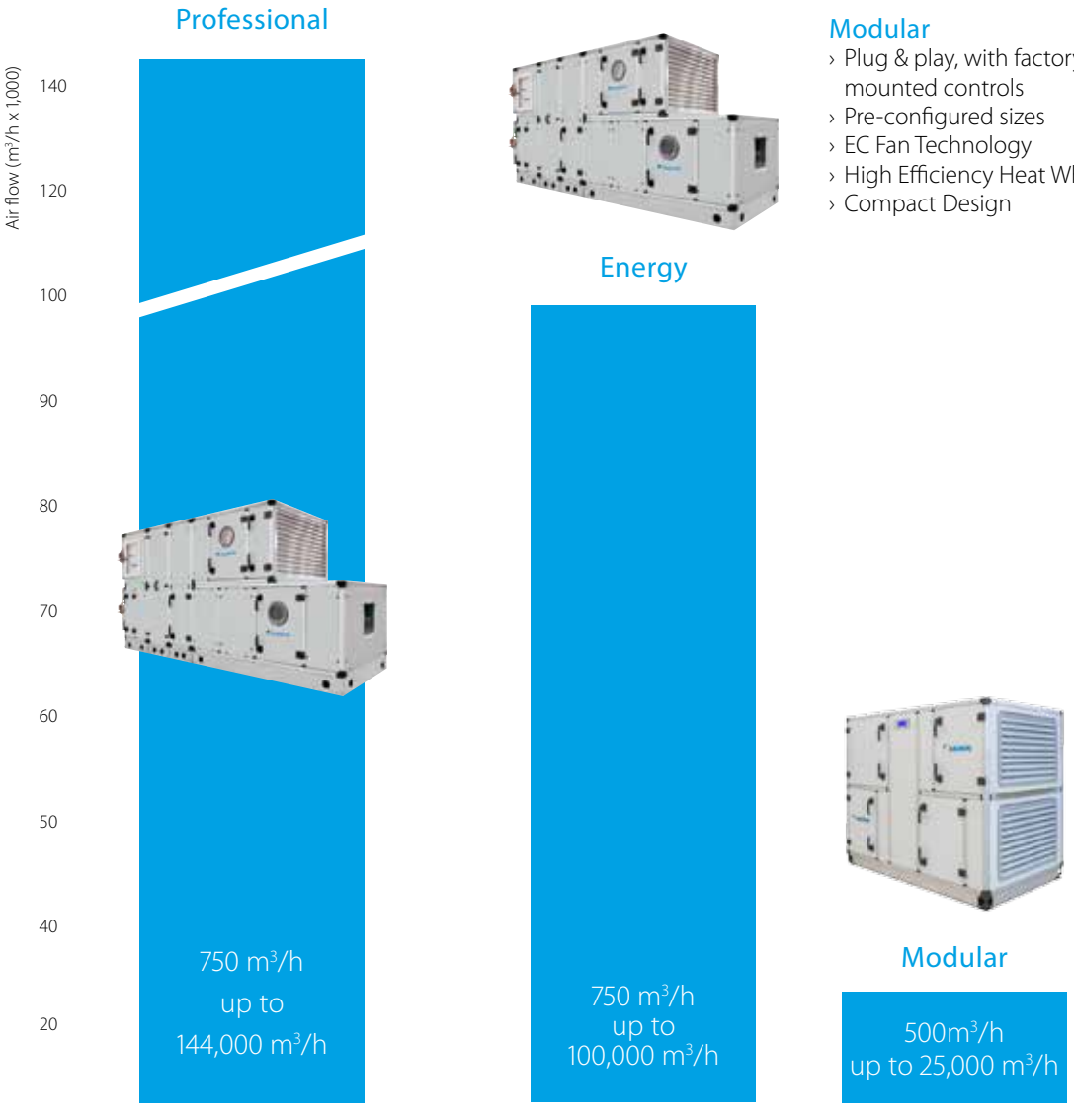
- Pre-configured sizes
- Tailored to the individual customer
- Modular construction

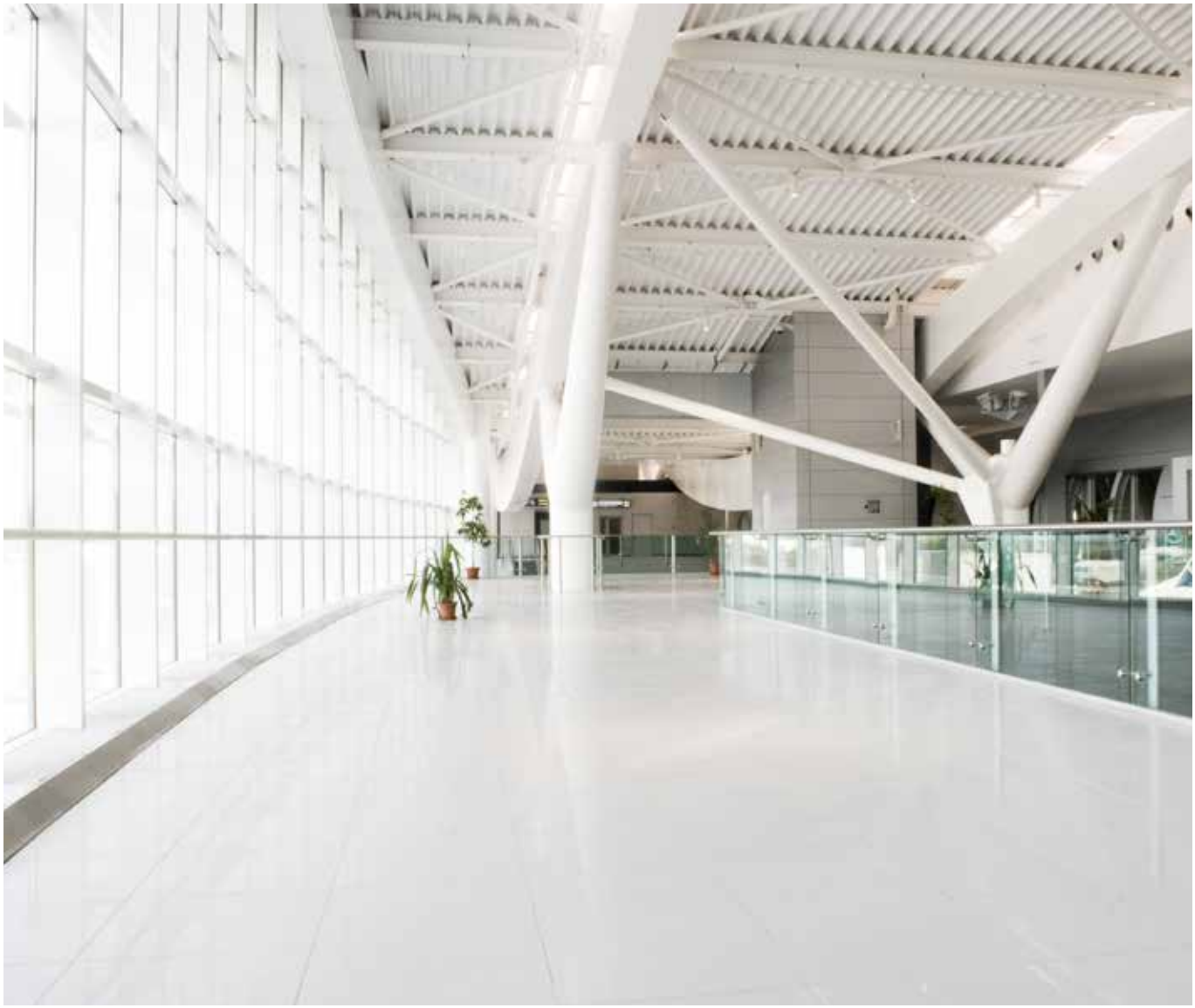
Energy

- High-end solution for optimised energy consumption
- High efficiency components
- Strong Return on Investment

Modular

- Plug & play, with factory mounted controls
- Pre-configured sizes
- EC Fan Technology
- High Efficiency Heat Wheel
- Compact Design





Dainkin fresh air package - plug & play

The D-AHU Modular series provide a complete solution including unit control (EKEXV, EKEQ, DDC controller) factory mounted and configured, plug & play with our VRV and ERQ condensing units. The easiest solution as you save time and only have one point of contact!

Return on investment

The air handling unit (AHU) is critical to an effective climate control system and the savings generated by our advanced designs and operating efficiencies guarantee a rapid return on the investment made. Our AHU Energy series has been designed to deliver exceptional performance thus driving down the energy consumed and so lowering energy bills. Taken over the expected 15-year life-span of the equipment, this will result in a substantial saving, especially in a time of ever increasing energy prices.

Pre-defined sizes

27 fixed sizes are available, optimised to reach the optimum combination between value for money and manufacturing standardisation. Daikin's section by section design means that units can be sized by 1cm increments and assembled on site, without welding, to suit the space constraints of the installation.

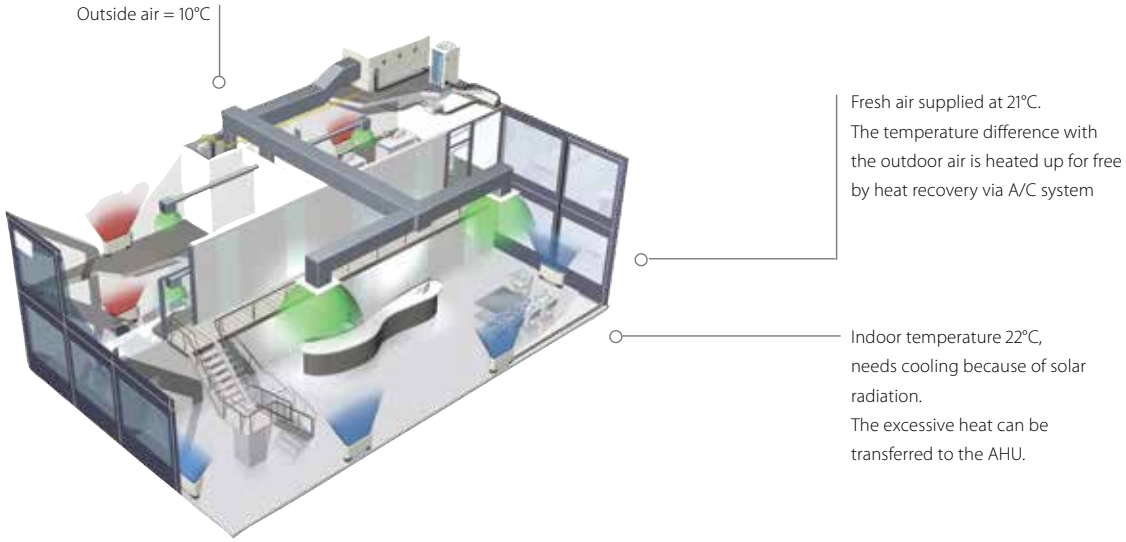
High efficiency components

All Daikin air handling units have been designed for optimum energy efficiency. Polyurethane or Mineral wool panels guarantee excellent thermal insulation performance. And the widest range of filters are provided to meet even the most strict demands.

Why use ERQ condensing units for connection to air handling units?

High Efficiency

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a heat recovery system is even more effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold incoming fresh air.



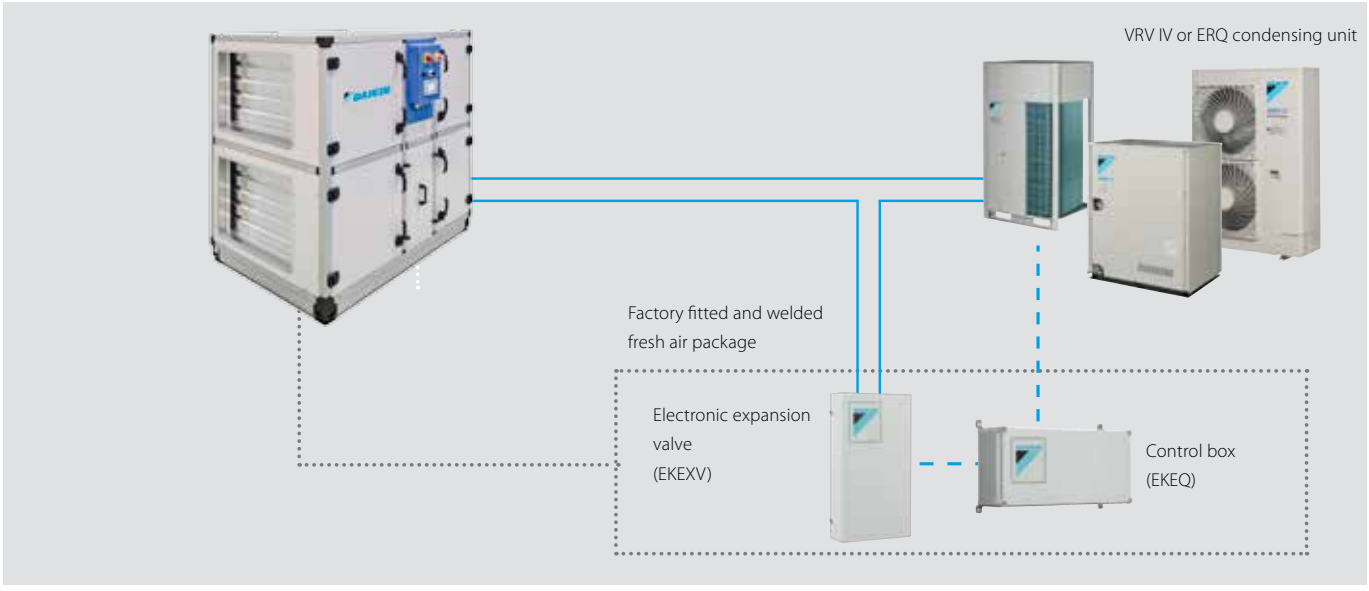
Fast response to changing loads resulting in high comfort levels

Daikin ERQ units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

Easy Design and Installation

The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc. are required. This also reduces both the total system investment and running cost.

Daikin Fresh air package



In order to maximise installation flexibility, 4 types of control systems are offered

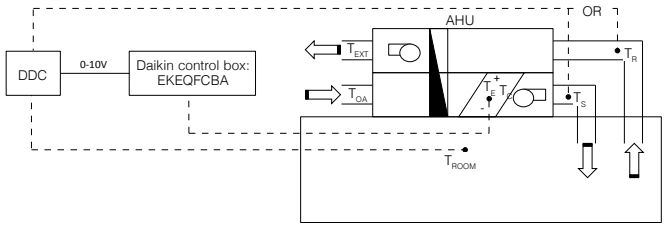
W control: Off the shelf control of air temperature (supply air temperature, return air temperature, room temperature) via any DDC controller, easy to setup
X control: Precise control of air temperature (supply air temperature, return air temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)

Z control: Control of air temperature (return air temperature, room temperature) via Daikin control (no DDC controller needed)
Y control: Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)

1. W control (T_S/T_R/T_{ROOM} control):

Air temperature control via DDC controller

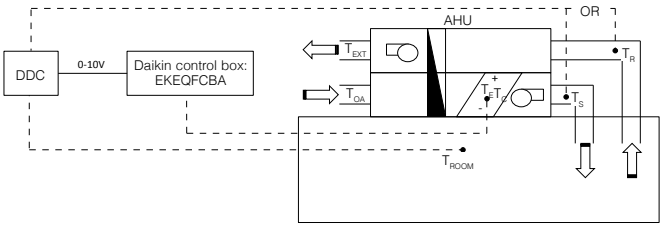
Room temperature is controlled as a function of the air handling unit return air or supply air (customer selection). The DDC controller is translating the temperature difference between set point and return air temperature (or supply air temperature or room temperature) into a proportional 0-10V signal which is transferred to the Daikin control box (EKEQFCBA). This voltage modulates the capacity requirements of the outdoor unit.



2. X control (T_S/T_R/T_{ROOM} control):

Precise air temperature control via DDC controller

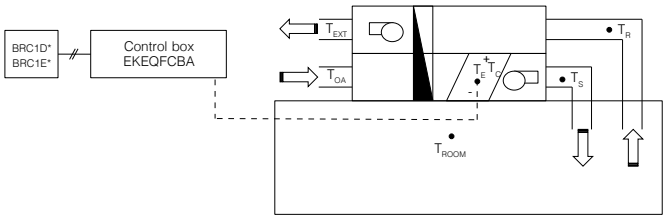
Room temperature is controlled as a function of the air handling unit return air or supply air (customer selection). The DDC controller is translating the temperature difference between set point and return air temperature (or supply air temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin control box (EKEQFCBA). This reference voltage will be used as the main input value for the compressor frequency control.



3. Y control (T_E/T_C control):

By fixed evaporating /condensing temperature

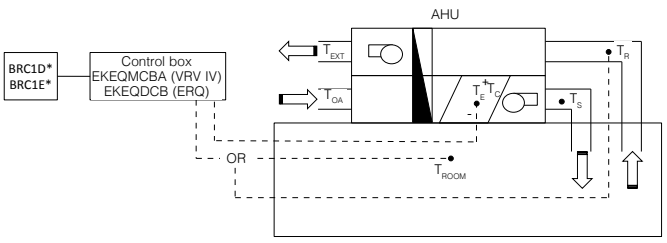
A fixed target evaporating or condensing temperature can be set by the customer. In this case, room temperature is only indirectly controlled. A Daikin wired remote control (BRC1D52 or BRC1E53A/B/C - optional) have to be connected for initial set-up but not required for operation.



4. Z control (T_R/T_{ROOM} control):

Control your AHU just like a VRV indoor unit with 100% fresh air

Allows the possibility to control the AHU just like a VRV indoor unit. Meaning temperature control will be focused on return air temperature from the room into the AHU. Requires BRC1D52 or BRC1E53A/B/C for operation. This the only control that allows the combination of other indoor units to the AHU at the same time.



T_S = Supply air temperature
T_R = Return air temperature
T_{OA} = Outdoor air temperature
T_{ROOM} = Room air temperature
T_{EXT} = Extraction air temperature
T_E = Evaporating temperature
T_C = Condensing temperature

	Option kit	Features
Possibility W	EKEQFCBA	Off-the-shelf DDC controller that requires no pre-configuration
Possibility X		Pre-configured DDC controller required
Possibility Y		Using fixed evaporating temperature, no set point can be set using remote control
Possibility Z	EKEQDCB EKFQMCBA*	Using Daikin infrared remote control BRC1D52 or BRC1E52A/B Temperature control using return air temperature or room temperature (via remote sensor)

* EKEQMCB (for 'multi' application)

ERQ - for smaller capacities (from 100 to 250 class)

ERQ-AW1

A basic fresh air solution for pair application

› Inverter controlled units
› Heat pump
› R-410A
› Wide range of expansion valve kits available
› Perfect for the Daikin Modular air handling unit

The "Daikin Fresh Air Package" provides a complete Plug & Play Solution including AHU, ERQ or VRV Condensing Unit and all unit control (EKEQ, EKEX, DDC controller) factory mounted and configured. The easiest solution with only one point of contact.

Ventilation			ERQ	100AV1	125AV1	140AV1
Capacity range			HP	4	5	6
Cooling capacity	Nom.		kW	11.2	14.0	15.5
Heating capacity	Nom.		kW	12.5	16.0	18.0
Power input	Cooling	Nom.	kW	2.81	3.51	4.53
	Heating	Nom.	kW	2.74	3.86	4.57
EER				3.99		3.42
COP				4.56	4.15	3.94
Dimensions	Unit		mm	1,345x900x320		
Weight	Unit		kg	120		
Fan-Air flow rate	Cooling	Nom.	m^3/min	106		
	Heating	Nom.	m^3/min	102	105	
Sound power level	Cooling	Nom.	dBA	66	67	69
Sound pressure level	Cooling	Nom.	dBA	50	51	53
	Heating	Nom.	dBA	52	53	55
Operation range	Cooling	Min./Max.	°CDB	-5/46		
	Heating	Min./Max.	°CWB	-20/15.5		
	On coil	Heating Min.	°CDB	10		
	temperature	Cooling Max.	°CDB	35		
Refrigerant	Type / GWP			R-410A / 2.087,5		
	Charge		kg/ TCO_2Eq	4.0/8.4		
Piping connections	Liquid	OD	mm	9.52		
	Gas	OD	mm	15.9		19.1
	Drain	OD	mm	26x3		
Power supply	Phase/Frequency/Voltage		Hz/V	1N~/50/220-240		
Current	Maximum fuse amps (MFA)		A	32.0		

Ventilation			ERQ	125AW1	200AW1	250AW1
Capacity range			HP	5	8	10
Cooling capacity	Nom.		kW	14.0	22.4	28.0
Heating capacity	Nom.		kW	16.0	25.0	31.5
Power input	Cooling	Nom.	kW	3.52	5.22	7.42
	Heating	Nom.	kW	4.00	5.56	7.70
EER				3.98	4.29	3.77
COP				4.00	4.50	4.09
Dimensions	Unit		mm	1,680x635x765	1,680x930x765	
Weight	Unit		kg	159	187	240
Fan-Air flow rate	Cooling	Nom.	m^3/min	95	171	185
	Heating	Nom.	m^3/min	95	171	185
Sound power level	Nom.		dBA	72	78	
Sound pressure level	Nom.		dBA	54	57	58
Operation range	Cooling	Min./Max.	°CDB	-5/43		
	Heating	Min./Max.	°CWB	-20/15		
	On coil	Heating Min.	°CDB	10		
	temperature	Cooling Max.	°CDB	35		
Refrigerant	Type / GWP			R-410A / 2.087,5		
	Charge		kg/ TCO_2Eq	6.2/12.9	7.7/16.1	8.4/17.5
Piping connections	Liquid	OD	mm	9.52		
	Gas	OD	mm	15.9	19.1	22.2
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/400		
Current	Maximum fuse amps (MFA)		A	16	25	

Integration of ERQ in third party air handling units

a wide range of expansion valve kits and control boxes

Combination table

		Control box			Expansion valve kit										Mixed connection with VRV indoor units
		EKEQDCB	EKEQFCBA	EKEQMCBA	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500	
		Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	
1-phase	ERQ100	P	P	-	-	P	P	P	P	-	-	-	-	-	Not possible
	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ140	P	P	-	-	-	P	P	P	P	-	-	-	-	
3-phase	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ200	P	P	-	-	-	-	P	P	P	P	P	-	-	
	ERQ250	P	P	-	-	-	-	-	P	P	P	P	-	-	
VRV III		-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory
VRV IV H/P / VRV IV W-series VRV IV S-series		-	P (1 -> 3)	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	Possible (not mandatory)
VRV IV H/R VRV IV i-series		-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory

- P (pair application): combination depends on the capacity of the air handling unit
- n1 (multi application) - Combination of AHUs and VRV DX indoors (mandatory). To determine the exact quantity please refer to the engineering data book.
- n2 (multi application) - Combination of AHUs and VRV DX indoors (not mandatory). To determine the exact quantity please refer to the engineering data book.data book
- Control box EKEQFA can be connected to some types of VRV IV outdoor units (with a maximum of 3 boxes per unit). Do not combine EKEQFA control boxes with VRV DX indoor units, RA indoor units or hydroboxes

Capacity table

Cooling

EKEXV Class	Allowed heat exchanger capacity (kW)		
	Minimum	Standard	Maximum
50	5.0	5.6	6.2
63	6.3	7.1	7.8
80	7.9	9.0	9.9
100	10.0	11.2	12.3
125	12.4	14.0	15.4
140	15.5	16.0	17.6
200	17.7	22.4	24.6
250	24.7	28.0	30.8
400	35.4	45.0	49.5
500	49.6	56.0	61.6

Saturated evaporating temperature: 6°C, SH: 5K
Air temperature: 27°C DB / 19°C WB

Heating

EKEXV Class	Allowed heat exchanger capacity (kW)		
	Minimum	Standard	Maximum
50	5.6	6.3	7.0
63	7.1	8.0	8.8
80	8.9	10.0	11.1
100	11.2	12.5	13.8
125	13.9	16.0	17.3
140	17.4	18.0	19.8
200	19.9	25.0	27.7
250	27.8	31.5	34.7
400	39.8	50.0	55.0
500	55.1	63.0	69.3

Saturated condensing temperature: 46°C, SC: 3K
Air temperature: 20°C DB

EKEXV - Expansion valve kit for air handling applications

Ventilation			EKEXV	50	63	80	100	125	140	200	250	400	500
Dimensions	Unit		mm	401x215x78									
Weight	Unit		kg	2.9									
Sound pressure level	Nom.		dBA	45									
Operation range	On coil temperature	Heating Min.	°CDB	10 (1)									
		Cooling Max.	°CDB	35 (2)									
Refrigerant	Type / GWP			R-410A / 2.087,5									
Piping connections	Liquid	OD	mm	6.35	9.52							12.7	15.9

(1) The temperature of the air entering the coil in heating mode can be reduced to -5°CDB. Contact your local dealer for more information. (2) 45% Relative humidity.

EKEQ - Control box for air handling applications

Ventilation		EKEQ	FCBA	DCB	MCBA
Application			See note	Pair	Multi
Outdoor unit			ERQ / VRV	ERQ	VRV
Dimensions	Unit	mm	132x400x200		
Weight	Unit	kg	3.9	3.6	
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230		

The combination of EKEQFCBA and ERQ is in pair application. The EKEQFCBA can be connected to some type of VRV IV outdoor units with a maximum of 3 control boxes. The combination with DX indoor units, hydroboxes, RA outdoor units, ... is not allowed. Refer to the combination table drawing of the outdoor unit for details.

Market leading

controls for 2016

- ☑ Intuitive & user-friendly interface
- ☑ Cross pillar integration
- ☑ Cloud control
- ☑ Smart energy management
- ☑ Integration of Daikin and third party products

touch Intelligent Manager

Mini BMS for medium to large commercial buildings

› Price competitive mini BMS
› Cross-pillar integation of Daikin products
› Integration of third party equipment via WAGO or BACnet/IP
› Connect up to 512 indoor units groups

→ more information on page 200

DCC601A51

Advanced centralised controller with Cloud connection

› Simply control your entire building centrally
› Total solution concept (integration of Split, Sky Air, VRV, ventilation, air curtains and hot water)
› Stylish optional screen fits any interior
› Cloud connection offers additional services such as online control, energy monitoring, comparison of energy consumption of multiple sites
› Connect up to 32 indoor units

→ more information on page „Advanced centralised controller with Cloud connection“ on page 198

Find out more on www.daikineurope.com

DAIKIN

Control Systems

Find out more about our control systems online:
www.daikineurope.com/commercial/needs/controls

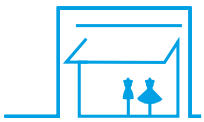
Requirement tables per application

Daikin offers various control solution adapted to the requirements of even the most demanding commercial application.

› Basic control solutions for those customers with few requirements and limited budget
› Integrating control solutions for those customers that would like to integrate Daikin units into their existing BMS system
› Advanced control solutions for those customers that expect Daikin to deliver a mini BMS solution, including advance energy management

NEW

Shop



	Unit control		Integrating control			Advanced control	
	BRC1E52A/B BRC1E53A/B/C	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●	●
Limited control possibilities for shop staff	●	●	●	●	●	●	●
Create zones within the shop		●				●	●
Interlock with eg. Alarm, PIR sensor		●				●	●
Integrate Daikin units into existing BMS via Modbus			●		●		
Integrate Daikin units into existing BMS via KNX				●			
Integrate Daikin units into existing BMS via HTTP						●	
Monitor energy consumption						● (2)	●
Advanced energy management						● (2)	●
Allows free cooling						●	●
Integrate Daikin products cross pillars into Daikin BMS							●
Integrate third party products into Daikin BMS						●	●
Online control						● (2)	●
Manage multiple sites						● (2)	

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via cloud control

Hotel

	Unit control	Integrating control		Advanced control	
	BRC2/3E52C	RTD-Net	KLIC-DI	DCS601C51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 iTC for 64 indoor unit(s) (groups)	1 iTM for 64 indoor unit(s) (groups) (1)
Hotel guest can control & monitor basic functionalities from his room	●	●	●	●	●
Limited control possibilities for hotel guests	●	●	●	●	●
Interlock with window contact	● (2)				●
Interlock with key-card	● (2)				●
Integrate Daikin units into existing BMS via Modbus		●			
Integrate Daikin units into existing BMS via KNX			●		
Integrate Daikin units into existing BMS via HTTP				●	
Monitor energy consumption					●
Advanced energy management					●
Integrate Daikin products cross pillars into Daikin BMS					●
Integrate third party products into Daikin BMS					●
Online control					●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via BRP7A51 adapter

Office

	Unit control	Integrating control			Advanced control		
	BRC1E52A/B **BRC1E53A/B/C**	EKMBDXA	DMS504B51	DMS502A51 / DAM412B51	DCS302C51 / DST301B51	DCS601C51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 outdoors (2)	1 R/C for max. 64 groups, 128 indoor units, 10 outdoors	1 iTC for 64 indoor unit(s) (groups)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	● (3)	●	●
Centralised control for management		●	●	●	●	●	●
Local control for office workers	●	●	●	●	●	●	●
Limited control possibilities for office workers	●					●	●
Integrate Daikin units into existing BMS via Modbus		●					
Integrate Daikin units into existing BMS via HTTP						●	
Integrate Daikin units into existing BMS via LonTalk			●				
Integrate Daikin units into existing BMS via BACnet				●			
Energy consumption read out	●						
Monitor energy consumption							●
Advanced energy management							●
Integrate Daikin products cross pillars into Daikin BMS							●
Integrate third party products into Daikin BMS							●
Online control							●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems)
(2) : extension needed to go to 256 indoor unit(s) (groups), 40 outdoors
(3) : ON/OFF only

Infrastructure cooling

NEW
launch Spring 2016

	Unit	Integrating	Advanced
	BRC1E53A/B/C	RTD-10	DCM601A51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●
Back-up operation	●	●	●
Duty rotation	●	●	●
Limited control possibilities in the infrastructure cooling room	●	●	●
If room temperature above max., then show alarm & start standby unit.	●	●	●
If an error occurs, an alarm will be shown.	●	●	●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Infrastructure cooling functions only compatible with indoor units connected to Seasonal Smart outdoor units.

ONLINE CONTROLLER

WIRED REMOTE CONTROL
BRC1E52A

INTELLIGENT TOUCH MANAGER
DCM601A51

INFRARED REMOTE CONTROLLER

BRC1E52A/B

User friendly remote control with contemporary design

Graphical display of indicative electricity consumption (Function available in combination with FBQ-D, FCQG and FCGHQ)

A series of energy saving functions that can be individually selected

› Temperature range limit
› Setback function
› Presence & floor sensor connection (available on round flow and fully flat cassette)
› kWh indication
› Set temperature auto reset
› Off timer

Temperature range limit avoids excessive heating or cooling

Save energy by constraining the lower temperature limit in cooling and upper temperature limit in heating mode.

note : Also available in auto cooling/heating change over mode.

kWh indication keeps track of your consumption

The kWh indication shows an indicative electricity consumption of the last day/month/year. [1]

1 for Sky Air FBQ-D, FCQG and FCQHG pair combinations only

Other functions

› Up to 3 independent schedules can be set, so the user can easily change the schedule himself throughout the year (e.g. Summer, winter, mid-season)
› Possibility to individually restrict menu functions Easy to use: all main functions directly accessible
› Easy setup: clear graphical user interface for advanced menu settings
› Real time clock with auto update to daylight saving time
› Permanent storage of settings and backup power for clock for at least 48 hours
› Supports multiple languages:
English, German, Dutch, Spanish, Italian, Portuguese, French, Greek, Russian, Turkish, Polish (BRC1E52A)
English, German, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian and Albanian (BRC1E52B)

BRC1E53A/B/C

User friendly remote control incl. infrastructure cooling functions

› Replaces BRC1E52A/B in Spring 2016 and includes following additional functionalities:
  • Duty rotation and back-up for infrastructure cooling
  • Remote control save mode : screen turns off when no person is changing mode or adjusting settings
  • Demand control: decreases the power consumption to 70 or 40 % when other large applicances need to be switched on
  • Selection of quiet mode function for the outdoor unit
› Choice between symbol or text display
› Supports multiple languages:
BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portugese
BRC1E53B: English, Czech, Croation, Hungarian, Romanian, Slovenian, Bulgarian
BRC1E53C: English, Greek, Russian, Turkish, Hungarian, Slovak, Albanian

BRC2E52A / BRC3E52A

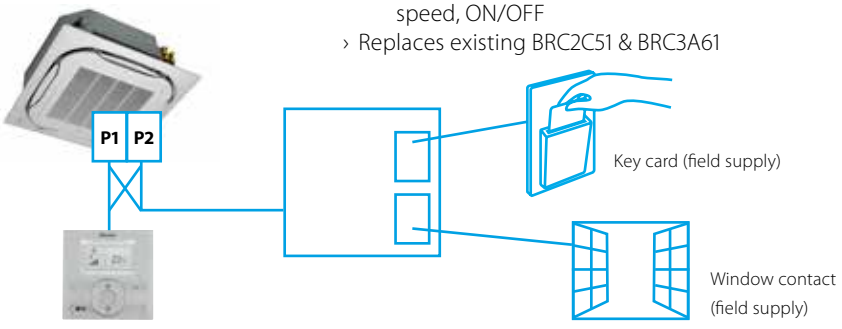
Simplified wired remote control developed for hotel applications

BRC2E52A
Heat recovery type

BRC3E52A
Heat pump type

› Symbol driven interface for intuitive control
› Functions restricted to basic customer needs
› Contemporary design
› Energy saving thanks key card, window contact integration and set point limitation (BRP7A51)
› Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort
› Flat backpanel for easy installation
› Easy commissioning: intuitive interface for advanced menu settings
› 2 versions available:
  • Heat pump type: temperature, fan speed, ON/OFF
  • Heat recovery type: temperature, mode, fan speed, ON/OFF
› Replaces existing BRC2C51 & BRC3A61

Key card and window contact integration



BRC1D52

Wired remote control

BRC1D52

› Schedule timer:
Five day actions can be set as follows:
- set point: unit is switched ON and normal operation is maintained
- OFF: unit is switched OFF1
- limits: unit is switched ON and min./max. control (cf. limit operation for more details)

› Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
› User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
› Immediate display of fault location and condition
› Reduction of maintenance time and costs

Display

› Operating mode
› Heat Recovery Ventilation (HRV) in operation
› Cool / heat changeover control
› Centralised control indication
› Group control indication
› Set temperature
› Air flow direction
› Programmed time
› Inspection test / operation
› Fan speed
› Clean air filter
› Defrost / hot start
› Malfunction

ARC4*/BRC4*/BRC7*

Infrared remote control

ARC466A1

BRC4*/BRC7*

Operation buttons: ON / OFF, timer mode start / stop, timer mode on / off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/ test indication (2)
Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection / test operation (2)

1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXS, FBQ
2. For FX** units only
3. For all features of the remote control, refer to the operation manual

ARCWLA / ARCWB

Siesta individual control systems

Overview controllers for Siesta Sky Air

Siesta Sky Air indoor units	Controllers
ACQ-D 4-way blow, ceiling mounted cassette	• Standard infrared remote control (ARCWLA) in box of decoration panel ADP125A • Wired remote control ARCWB • Optional group controller R04084124324
AHQ-C ceiling suspended	• Standard infrared remote control in box of indoor unit ARCWLA • Wired remote control ARCWB • Optional group controller R04084124324
ABQ-C concealed ceiling	• Standard wired remote control (ARCWB) in box of indoor unit • Optional group controller R04084124324

Overview of features

ARCWB

	Feature		ARCWB
			AHQ-C and ACQ-D / Standard for ABQ-C
1	ON/OFF switch		-
2	Temperature setting	Default range 16-30°C	-
		Optional range 20-30°C	•
		Switch between °C and °F	-
3	Room temperature sensor on remote control		-
4	Cool / Fan dry / Heat / Auto		-
5	Sleep mode		-
6	Fan Speed selection		-
7	Delay timer		••
8	7-days programmable timer		-
9	Real time clock display		-
10	Air swing selection	ON/OFF swing mode	-
		Change swing option (draft/soil prevention or standard)	-
11	LCD display without backlight		-
12	Key lock		-
13	Error code indication		-
14	IR receiver to enable compatibility with infrared remote control (disabled when lock function is activated)		-
15	Last state memory from indoor PCB		-
16	Silent mode		•
17	Turbo mode		•
18	Compressor test model (compressor force ON)		-
19	Daikin inverter error code		-
20	UART communication port (for Daikin protocol)		-
21	Backup battery		-

Specifications

› Dimensions (length x width x height) ARCWB: 0.15 m x 0.21 m x 0.04 m.

› ARCWB comes standard with a 10 metre cable, which can be extended to maximum cable length of 15 metres. ARCWB can only control one indoor unit at a time; group control is only possible when using option R04084124324.

- Standard
- • By dipswitch selection
- •• 1, 2 & 4 hours delay

Centralised control of the Sky Air and VRV system can be achieved via 3 user friendly compact remote controllers. These controls may be used independently or in combination with 1 group = several (up to 16) indoor units in combination and 1 zone = several groups in combination.
A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).
The schedule timer programmes the schedule and operation conditions for each tenant and the control can easily be reset according to varying requirements.

DCS302C51

Centralised remote control

Providing individual control of 64 groups (zones) of indoor units.

› a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
› a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
› zone control
› group control
› malfunction code display
› maximum wiring length of 1,000m (total: 2,000m)
› air flow direction and air flow rate of HRV can be controlled
› expanded timer function

DST301B51

Schedule timer

Enabling 64 groups to be programmed.

› a maximum of 128 indoor units can be controlled
› 8 types of weekly schedule
› a maximum of 48 hours back up power supply
› a maximum wiring length of 1,000m (total: 2,000m)

DCS301B51

Unified ON/OFF control

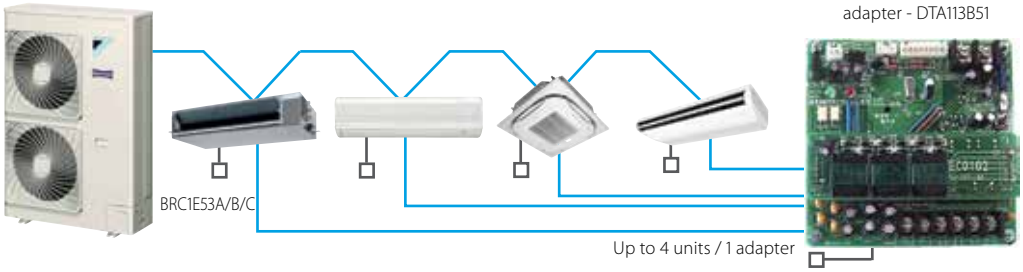
Providing simultaneous and individual control of 16 groups of indoor units.

› a maximum of 16 groups (128 indoor units) can be controlled
› 2 remote controls in separate locations can be used
› operating status indication (normal operation, alarm)
› centralised control indication
› maximum wiring length of 1,000m (total: 2,000m)

DTA113B51

Basic solution for control of Sky Air and VRV

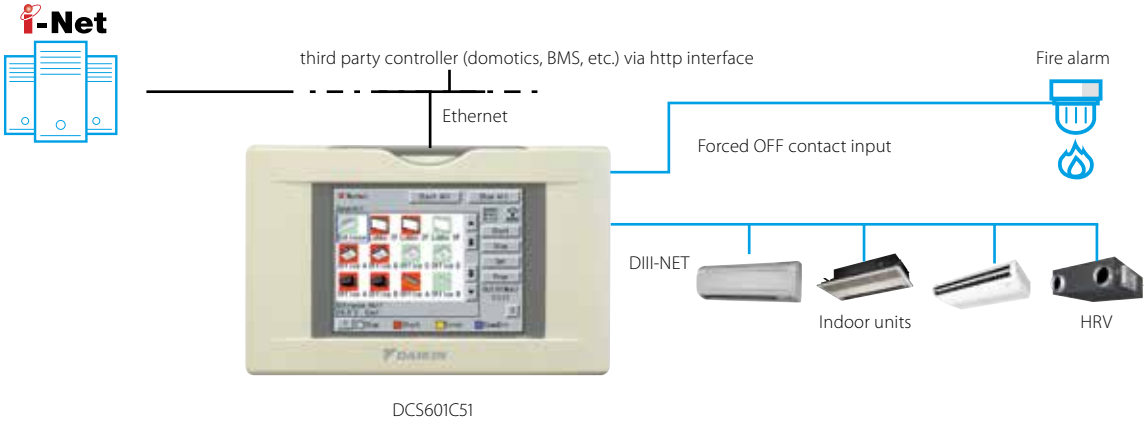
› Rotation function
› Backup operation function.



intelligent touch Controller

DCS601C51

Detailed & easy monitoring and operation of VRV systems (max. 64 indoor units groups).



Languages
› English
› French
› German
› Italian
› Spanish
› Dutch
› Portuguese

System layout
› Up to 64 indoor units can be controlled
› Touch panel (full colour LCD via icon display)

Control
› Individual control (set point, start/stop, fan speed) (max. 64 groups/indoor units)
› Set back shedule
› Enhanced scheduling function (8 schedules, 17 patterns)
› Flexible grouping in zones
› Yearly schedule
› Fire emergency stop control
› Interlocking control
› Increased HRV monitoring and control function
› Automatic cooling / heating change-over
› Heating optimization
› Temperature limit
› Password security: 3 levels (general, administration & service)
› Quick selection and full control
› Simple navigation

Monitoring
› Visualisation via Graphical User Interface (GUI)
› Icon colour display change function
› Indoor units operation mode
› Indication filter replacement
› Multi PC

Cost performance
› Free cooling function
› Labour saving
› Easy installation
› Compact design: limited installation space
› Overall energy saving

Open interface
› Communication to any third party controller (domotics, BMS, etc.) is possible via open interface (http option DCS007A51)

Connectable to
› VRV
› HRV
› Sky Air
› Split (via interface adapter)

intelligent Tablet Controller

DCC601A51

Advanced centralised controller with Cloud connection

- Intuitive and user-friendly interface
- Flexible concept for stand alone and multi site applications
- Total solution thanks to integration of 3rd party equipment
- Monitor & control your small commercial building, no matter where you are

2 solutions:

Local solution
› Offline centralised control via stylish optional screen
› Stylish interface fits any interior

Cloud solution
› Flexible online control from any device (Laptop, tablet...)
› Monitor & control one or multiple sites
› Benchmark the energy consumption of different installations
› Energy consumption follow-up to comply with local regulations

System layout

Local solution

Daikin supplied screen (optional) (for local control) Z380C-1A023A

Local network

Daikin supplied router (optional) 4G-N12

Alarm

Window contact

Pulse input or Digital input

intelligent Tablet Controller DCC601A51

WAGO power supply

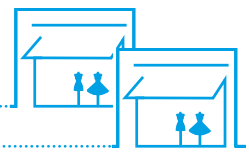
CPU module

I/O module

Split, Sky Air, VRV, VAM, ventilation, air curtains

Online control from any device

DAIKIN CLOUD SERVICE



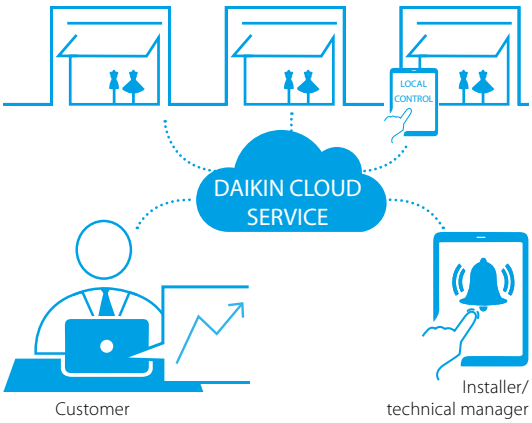
Total solution

› Total solution thanks to a large integration of Daikin products and 3rd party equipment
› Connect a wide range of Daikin units (Split, Sky Air, VRV, Ventilation, air curtains)
› Simply control your entire building centrally
› Increased customer shopping experience by better management of your shop comfort level

Daikin Cloud Services

› Control your building no matter where you are
› Monitor and control multiple sites
› Installer or technical manager can remotely login to the site in case of malfunctions for first troubleshooting
› Benchmark the energy consumption of different installations
› Manage & track your energy use
› Monitor the long time operating units to keep the consumption under control

From one to ∞ sites

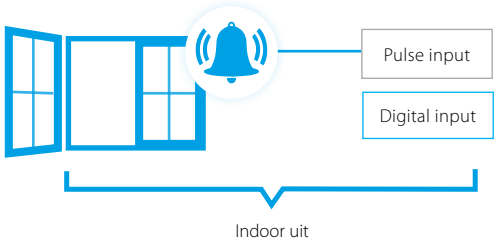


User friendly touch control

› Stylish Daikin supplied optional screen for local control fits any interior
› Intuitive and user-friendly interface
› Full solution with simple control
› Easy commissioning

Flexible

› Inputs via digital and pulse input for 3rd party equipment such as kWh meters, emergency input, window contact, …
› Modular concept allows your cloud to grow with your business
› Control up to 32 indoor unit groups , with a maximum of 32 indoor units



Functions overview

		Local solution	Cloud solution
Languages	EN, FR, DE, IT, ES, NL, PT	●	●
System layout	N° of connectable indoor units	32	32
	Multiple sites control		●
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature, …)	●	●
	Remote control prohibition	●	●
	All devices ON/OFF	●	●
	Group control	●	●
	Weekly schedule	●	●
	Interlock control	●	●
	Set point limitation	●	●
	Visualisation of energy use per operation mode		●
	Error e-mail		●
Connectable to	DX split, Sky Air, VRV	●	●
	VAM, VKM ventilation	●	●
	Air curtains	●	●

intelligent touch Manager

DCM601A51

Check on YouTube

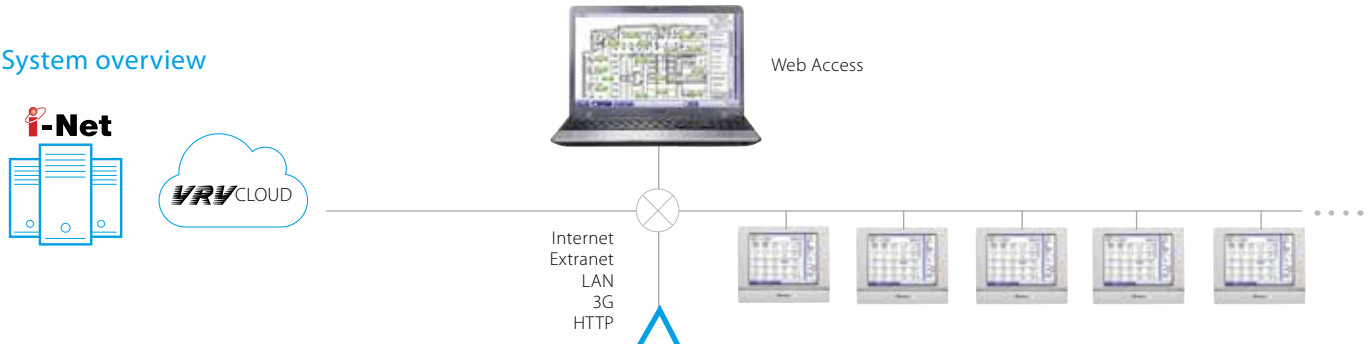
https://www.youtube.com/DaikinEurope

Mini BMS

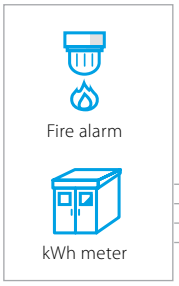
with full integration across all product pillars

- Price competitive mini BMS
- Cross-pillar integration of Daikin products
- Integration of third party equipment

System overview



Integration of third party equiqment



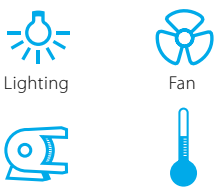
Di/Pi line
Max. 200m

intelligent touch Manager
DCM601A51

BACnet/IP protocol

WAGO interface

Analog/digital/pulse objects



I/O module
I/O module

Multi state objects

Full control of Daikin HVAC-R portfolio

ITM plus adaptor line

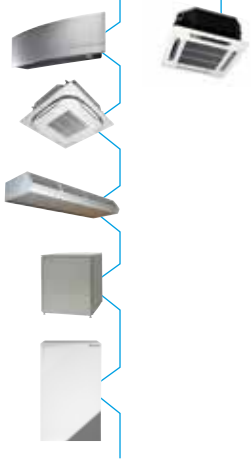
Max. 7 adapters

DCM601A52

Di/Pi port

Direct plug & play connection!

Split
Sky Air
VRV
indoor units,
air curtain,
hydrobox,
air handling units



Fan coil units

Chillers and AHU

Refrigeration

touch intelligent Manager

User friendliness

› Intuitive user interface
› Visual lay out view and direct access to indoor unit main funtions
› All functions direct accessible via touch screen or via web interface

Smart energy management

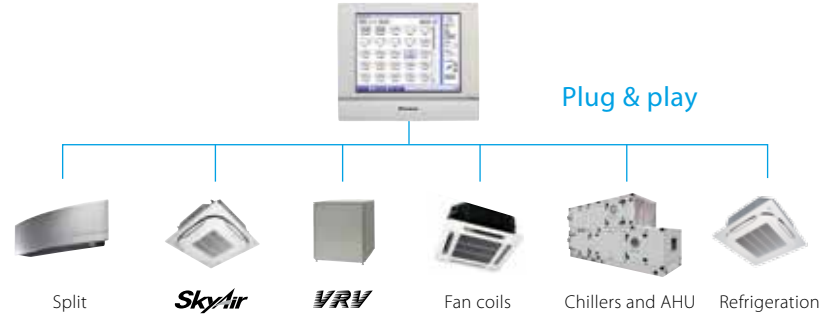
› Monitoring if energy use is according to plan
› Helps to detect origins of energy waste
› Powerful schedules guarantee correct operation throughout the year
› Save energy by interlocking A/C operation with other equipment such as heating

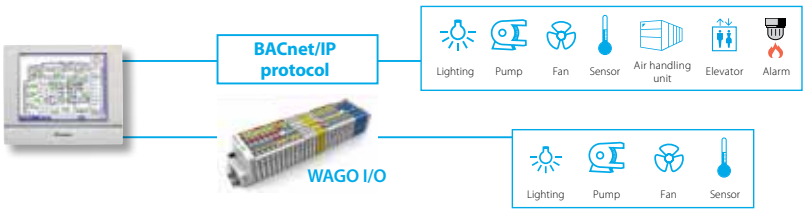
Flexibility

› Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
› BACnet protocol for 3rd party products integration
› I/O for integration of equipment such as lights, pumps… on WAGO modules
› Modular concept for small to large applications
› Control up to 512 indoor unit groups via one ITM and combine multiple ITM via web interface

Easy servicing and commissioning

› Remote refrigerant containment check reducing on site visit
› Simplified troubleshooting
› Save time on commissioning thanks to the pre-commissioning tool
› Auto registration of indoor units





Functions overview

Languages
› English
› French
› German
› Italian
› Spanish
› Dutch
› Portuguese

System layout
› Up to 512 unit groups can be controlled (ITM plus Integrator + 7 iTM Plus adapters)

Management
› Web access
› Power Proportional Distribution (option)
› Operational history (malfunctions, …)
› Smart energy management
- monitor if energy use is according to plan
- detect origins of energy waste
› Setback function
› Sliding temperature

Control
› Individual control (512 groups)
› Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
› Interlock control
› Setpoint limitation
› Temperature limit

WAGO Interface
› Modular integration of 3rd party equipment
- WAGO coupler (interface between WAGO and iTM)
- Di module
- Do module
- Ai module
- Ao module
- Thermistor module
- Pi module

Open interface
› Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

Connectable to
- DX Split, Sky Air, VRV
- Chillers (via POL638.70 controller)
- Daikin AHU
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol

Modbus Interface

RTD

RTD-NET
› Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM

RTD-10
› Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
- Modbus
- Voltage (0-10V)
- Resistance

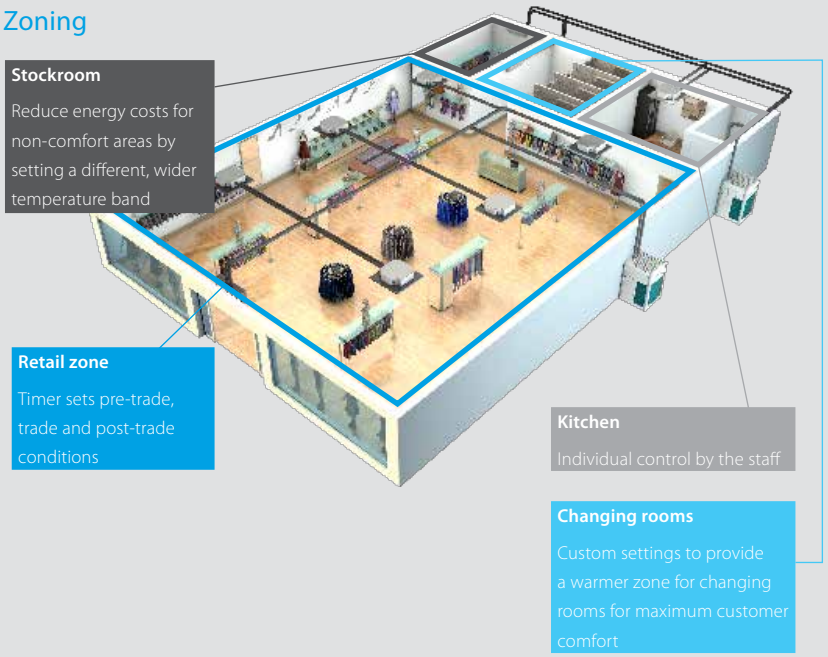
› Duty/standby function for server rooms

RTD-20
› Retail economisor
› Advanced control of Sky Air, VRV, VAM/VKM and air curtains
› Clone or independent zone control
› Increased comfort with integration of CO_2 sensor for fresh air volume control
› Save on running costs via
- pre/post and trade mode
- set point limitation
- overall shut down
- PIR sensor for adaptive deadband

RTD-HO
› Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
› Intelligent hotel room controller

RTD-20 retail economiser
Control zones in shop applications

Zoning



Control options benefits
Optimize the operation of the air conditioning without compromising occupant comfort

Without RTD-20
› Pre-trade:
- AC either on (timer) or off
- whole store heated or cooled

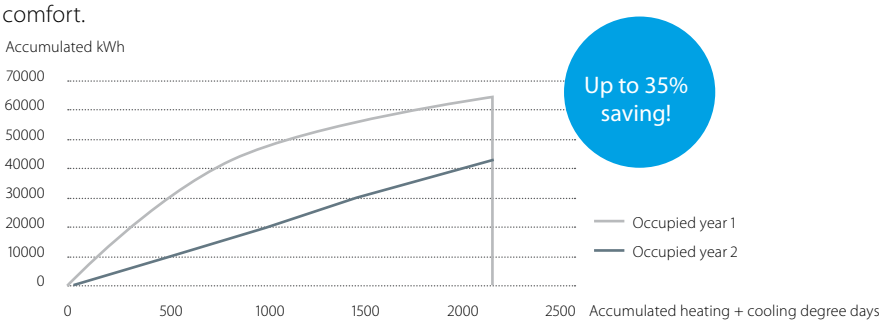
› Trading:
- achieving set-point
- staff could access controllers
- heat cool clash can occur
- door curtain not interlocked
- always trying to achieve set-point

› Post-Trade:
- either on or off

With RTD-20
› Pre-trade:
- De-stratification on start-up
- Heat/Cool protection enabled
- AC only comes on if internal temp above 26°C or below 19°C
- achieving midpoint of 19-23°C
- controllers locked
- heat cool clash prevented
- door curtain interlocked
- learns store patterns & heats/cools "enough" to reach set-point

› Post-Trade:
- Heat/cool protection enabled
- Trade extension function

Integrate all essential store operations in one control
Optimize the operation of the air conditioning without compromising occupant comfort.



Overview functions




Main functions	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions H x W x D mm	100 x100 x 22			
Key card + window contact				✓
Set back function				✓
Prohibit or restrict remote control functions (setpoint limitation, ...)	✓	✓	✓**	✓
Modbus (RS485)	✓	✓	✓	✓
Group control	✓	✓	✓	✓
0 - 10 V control		✓	✓	
Resistance control		✓	✓	
IT application		✓		
Heating interlock		✓	✓	
Output signal (on/defrost, error)		✓	✓****	✓
Retail application			✓	
Partitioned room control			✓	
Air curtain	✓***	✓***	✓	

(1): By combining RTD-RA devices

Control functions	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M,V,R	M	M*
Set point	M	M,V,R	M	M*
Mode	M	M,V,R	M	M*
fan	M	M,V,R	M	M*
Louver	M	M,V,R	M	M*
HRV Damper control	M	M,V,R	M	
Prohibit/Restrict functions	M	M,V,R	M	M*
Forced thermo off				

Monitoring functions	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M
Set point	M	M	M	M
Mode	M	M	M	M
fan	M	M	M	M
Louver	M	M	M	M
RC temperature	M	M	M	M
RC mode	M	M	M	M
nbr units	M	M	M	M
Fault	M	M	M	M
Fault code	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M
Filter alarm	M	M	M	M
Termo on	M	M	M	M
Defrost	M	M	M	M
Coil In/Out temperature	M	M	M	M

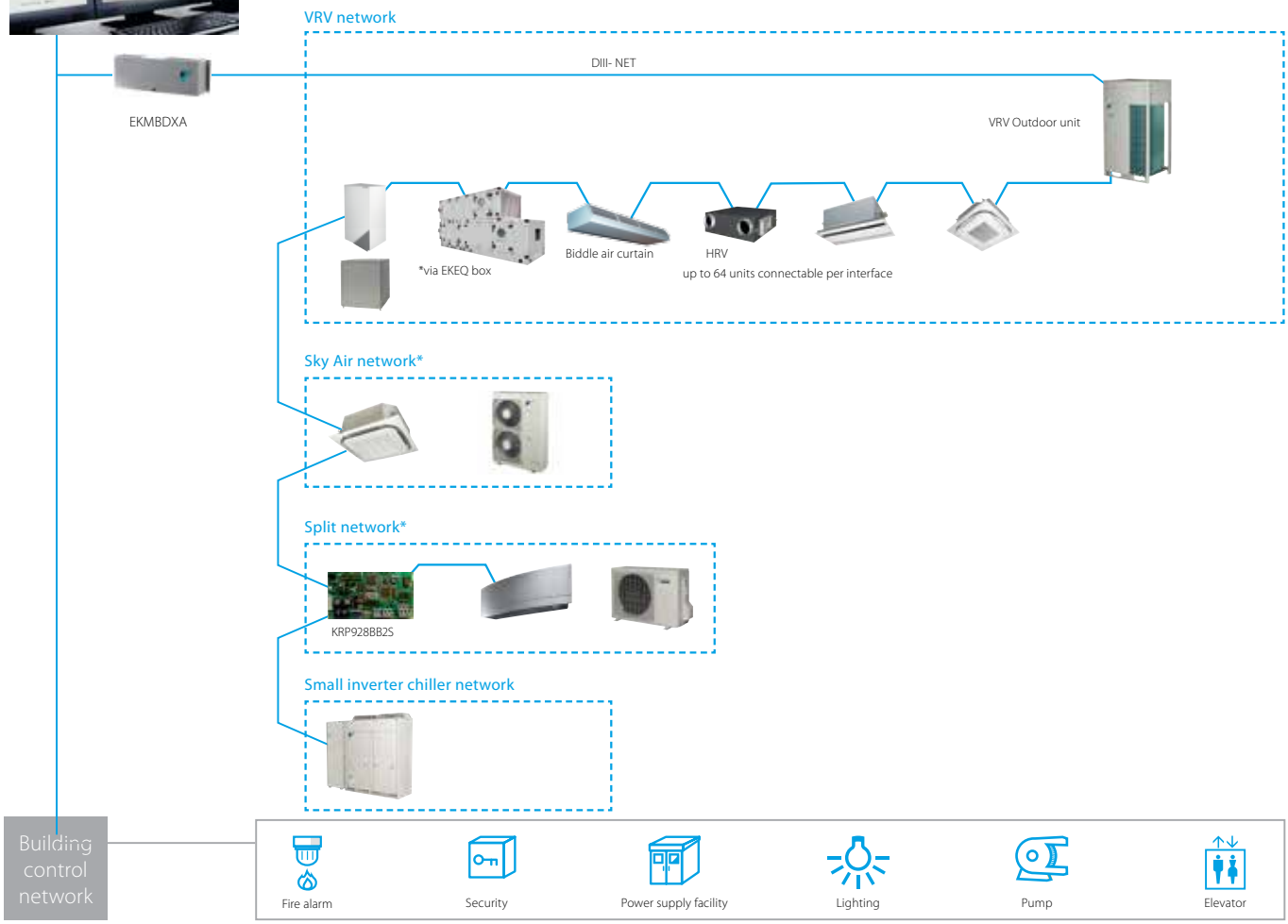
M : Modbus / R : Resistance / V : Voltage / C: control
* : only when room is occupied / ** : setpoint limitation / (*) if available
*** : no fan speed control on the CYV air curtain / **** : run & fault

DIII-net Modbus interface

EKMBDXA

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

› Communication via Modbus RS485 protocol
› Detailed monitoring and control of the VRV total solution
› Easy and fast installation via DIII-net protocol
› As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor unit systems).



* Additional centralized controller might be required. For more information contact your local dealer.

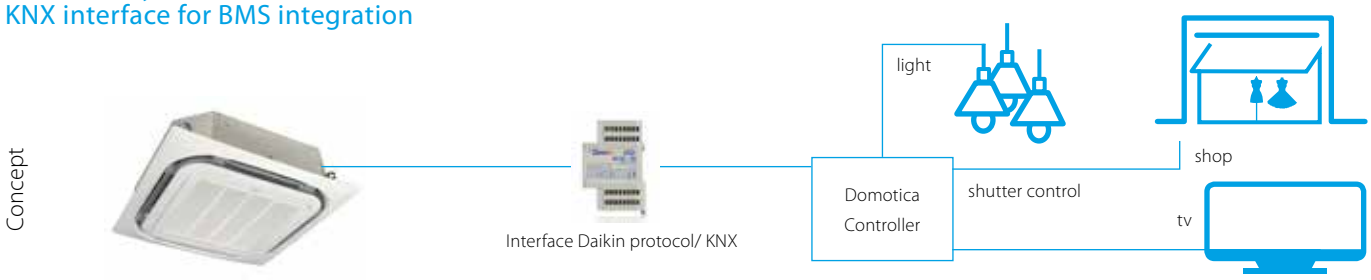
			EKMBDXA7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KNX interface

KLIC-DI

Integration of Sky Air and VRV in HA/BMS systems

Connect Sky Air / VRV indoor units to KNX interface for BMS integration



KNX interface line-up

The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scenario' - such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

KNX interface for

	KLIC-DI Size 90x60x35mm	
	Sky Air	**VRV**
Basic control		
On/Off	●	●
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	●	●
Fan speed levels	2 or 3	2 or 3
Swing	Stop or movement	Swing or fixed positions (5)
Advanced functionalities		
Error management	Communication errors, Daikin unit errors	
Scenes	●	●
Auto switch off	●	●
Temperature limitation	●	●
Initial configuration	●	●
Master and slave configuration	●	●

Wireless room temperature sensor

K.RSS

Flexible and easy installation

› Accurate temperature measurement thanks to flexible placement of the sensor
› No need for wiring
› No need to drill holes
› Ideal for refurbishment

Connection diagram Daikin indoor unit PCB (FXSQ example)

Specifications

			Wireless room temperature sensor kit (K.RSS)	
			Wireless room temperature receiver	Wireless room temperature sensor
Dimensions		mm	50 x 50	ø 75
Weight		g	40	60
Power supply			16VDC, max. 20 mA	N/A
Battery life			N/A	+/- 3 years
Battery type			N/A	3 Volt Lithium battery
Maximum range		m	10	
Operation range		°C	0~50	
Communication	Type		RF	
	Frequency	MHz	868.3	

› Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

Wired room temperature sensor

KRCS01-1B
KRCS01-4B

› Accurate temperature measurement, thanks to flexible placement of the sensor

Specifications

Dimensions (HxW)	mm	60 x 50
Weight	g	300
Length of branch wiring	m	12

Adapter PCBs

Simple solutions for unique requirements
Concept and benefits

› Low cost option to satisfy simple control requirements
› Deployed on single or multiple units

			Connectable to:		
			Split	Sky Air	VRV
	**(E)KRP1B*** adapter for wiring	• Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper • Powered by and installed at the indoor unit		●	●
	**KRP2A*/KRP4A*** Wiring adapter for electrical appendices	• Remotely start and stop up to 16 indoor units (1 group) (KRP2A* via P1 P2) • Remotely start and stop up to 128 indoor units (64 groups) (KRP4A* via F1 F2) • Alarm indication/ fire shut down • Remote temperature setpoint adjustment • Cannot be used in combination with a central controller		●	●
	**KRP58M3**	• Low noise and demand control option for RZQ200/250C		●	
	**SB.KRP58M51**	• Low noise and demand control option for RZQG and RZQSG single phase • Includes mounting plate EKMKSA1		●	
	**KRP58M51**	• Low noise and demand control option for RZQG1 and RZQSG 3 phase		●	

Some adapters require an installation box, refer to the option lists for more information

Accessories

EKRORO		• External ON/OFF or forced off • Example: door or window contact
EKRORO 3		• External ON/OFF or forced off • F1/F2 contact • Example: door or window contact
KRC19-26A		• Mechanical cool/heat selector • Allows switching over an entire system between cooling/heating/fan only • Connects to the A/B/C terminals of the unit
BRP2A81		• Cool/heat selector PCB • Required to connect KRC19-26A to a VRV IV outdoor unit

AUTO-CLEANING PANEL

FILTERS

INTELLIGENT SENSORS

Options & accessories

	INDOOR UNITS							
Description	**FCAHG-F**	**FCQHG-F**	**FCQG-F**	**FFQ-C**	**ACQ-D**	**FDXS-F9**	**FDBQ-B**	**FBQ-D**
DCC601A51 Centralised controller with cloud connection	✓	✓	✓	✓	-	✓	✓	✓
Wired remote control	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C		BRC1D52 BRC1E52A (3)(6) BRC1E52B (4)(6) BRC1E53A/B/C	BRC1D528 BRC1E52A (3)(6) BRC1E52B (4)(6) BRC1E53A/B/C	ARCWB	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C
BRC2E52C Simplified remote control (with operation mode selector button) (12)	✓	✓	✓	✓	-	✓	✓	✓
BRC3E52C Simplified remote control (without operation mode selector button) (12)	✓	✓	✓	✓	-	✓	✓	✓
DCM601A5A Intelligent touch manager	✓	✓	✓	✓	-	✓	✓	✓
Infrared remote control (heat pump)	BRC7FA532F (5)(10)		BRC7FA532F (5)(10)	BRC7EB530W (8) (9)(10) BRC7F530W (8) (9)(10) BRC7F530S (8) (9)(10)	-	BRC4C65	-	BRC4C65
DCS302C51 Centralised remote control (11)	✓	✓	✓	✓	-	-	-	✓
DCS301B51 Unified ON/OFF control (11)	✓	✓	✓	✓	-	-	-	✓
DST301B51 Schedule timer	✓	✓	✓	✓	-	-	-	✓
Adapter for wiring	-	-	-	-	-	-	-	-
Adapter for wiring (interlock for fresh air intake fan)	-	-	-	-	-	-	-	KRP1BA59
Adapter for external ON/OFF and monitoring/for electrical appendices (1)	KRP1B57 (5) KRP4A53 (5)		KRP1B57 KRP4A53 (5)	KRP1B57 KRP4A53 (5)	-	KRP4A54	-	KRP4A52 (14) KRP2A51 (14)
Adapter for wiring (hour meter) (1)(7)(14)	EKRP1C11 (5)		EKRP1C11 (5)	EKRP1B2 (13)	-	-	EKRP1B2 (13)	-
DTA112B51 Interface adapter for Sky Air	-	-	-	-	-	-	-	✓
Installation box for adapter PCB	KRP1H98 (5)(6)		KRP1H98 (5)(6)	KRP1B101 KRP1BA101	-	KRP1BA101	-	KRP1B101 KRP1BA101
NIM03 - R04084124324 Option PCB for group control	-	-	-	-	✓	-	-	-
Digital input adapter (1)(13)(14)	BRP7A53		BRP7A53	BRP7A53	-	-	BRP7A54	BRP7A51 (13)
EKRP1B2A Options PCB for external electrical heater, humidifier and/or hour meter (7)	-	-	-	-	-	-	-	✓
Mounting plate for adapter PCB	-	-	-	-	-	-	-	-
KRCS01-4 Remote sensor	✓	✓	✓	✓	-	✓	-	✓
Remote ON/OFF, forced OFF kit	-	-	-	-	-	-	-	-
KJB311A Electrical box with earth terminal (3 blocks)	✓	✓	✓	-	-	✓	-	-
KJB212A Electrical box with earth terminal (2 blocks)	✓	✓	✓	-	-	✓	-	-
KJB411A Electrical box with earth terminal	-	-	-	-	-	-	-	✓

Notes:
1) Installation box for adapter PCB is necessary;
2) Interface adapter for Sky Air series (DTA112B51) is necessary;
3) Including following languages: English, German, French, Italian, Spanish, Dutch, Greek, Russian, Turkish, Portuguese, Polish;
4) Including following languages: English, German, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian;
5) Option not available in combination with BYCQ140*G;
6) Independently controllable flaps function not available in combination with RR and RQ models.;
7) Electrical heater, humidifier and hour meter are field supply. These parts should not be installed inside the equipment;
8) Sensing function is not available;
9) Independently controllable flaps function is not available;
10) With the infrared remote control, the individual flap control and automatic air volume control cannot be controlled;
11) Including following languages: pack 1: English, German, French, Dutch, Spanish, Italian, Portuguese with PC cable EKPCCAB3 in combination with the Updater PC software, you can additionally change the language to : language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian. Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak and Turkish.;
12) Only possible in combination with simplified remote control BRC2/3E52C;
13) These options require mounting plate KRP4A96, maximally 2 optional PCBs can be mounted.
14) When installing electrical heaters, an optional PCB for external electric heaters EKRP1B2A is required for each indoor unit.
15) This option needs to be installed together with installation box KRP1B101/KRP1BA101.

INDOOR UNITS								
FDQ-C	**FDQ-B**	**ABQ-C**	**FAQ-C9**	**FHQ-CB**	**AHQ-C**	**FUQ-C**	**FNQ-A**	**FVQ-C**
✓	✓	-	✓	✓	-	✓	✓	✓
BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	-	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	ARCWB	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C
✓	✓	-	✓	✓	-	✓	✓	✓
✓	✓	-	✓	✓	-	✓	✓	✓
✓	✓	-	✓	✓	-	✓	✓	✓
BRC4C65	BRC4C65	-	BRC7EB518	BRC7G53	-	BRC7C58 (10)	BRC4C65	-
✓	✓	-	✓	✓	-	✓	✓	✓
✓	✓	-	✓	✓	-	✓	✓	✓
✓	✓	-	✓	✓	-	✓	✓	✓
-	-	-	-	-	-	-	KRP1B56	-
KRP1C64 (15)	KRP1B54	-	-	-	-	-	-	-
KRP4A51 (15)	KRP4A51 (15)	-	KRP4A51 (15)	KRP1B54 KRP4A52 (1)	-	KRP4A53	KRP4A54	KRP1B57 KRP4A52 (6)(14)
-	-	-	-	-	-	-	-	-
-	✓	-	-	-	-	-	-	-
-	-	-	KRP4A93 (6)	KRP1D93A	-	KRP1B97	KRP1BA101	KRP4AA95
-	-	✓	-	-	✓	-	-	-
BRP7A54	BRP7A54	-	BRP7A51 (12)	BRP7A52	-	BRP7A53	BRP7A51 (12)	BRP7A52
✓	✓	-	-	-	-	-	-	-
KRP4A96	KRP4A96	-	-	KKSAP50A56 (35-50)	-	-	-	-
✓	✓	-	✓	✓	-	✓	✓	-
EKRORO3	EKRORO	-	-	EKRORO4	-	EKRORO5	-	-
-	-	-	✓	✓	-	✓	✓	-
-	-	-	✓	✓	-	✓	✓	-
-	-	-	-	-	-	-	-	

	INDOOR UNITS						
Description	**FCQHG-F**	**FCQG-F**	**FFQ-C**	**ACQ-D**	**FDBQ-B**	**FBQ-D**	**FDQ-C**
Replacement long-life filter	KAFP551K160	KAFP551K160	KAFQ441BA60	-	-	-	-
Drain pump kit	Standard	Standard	Standard	Standard	-	Standard	Standard
L-type piping kit (upward direction)	-	-	-	-	-	-	-
Sealing member of air discharge outlet	KDBHQ55B140 (5)	KDBHQ55B140 (5)	BDBHQ44C60	-	-	-	-
Decoration panel for air discharge	-	-	-	-	-	-	-
Decoration panel	BYCQ140D BYCQ140DW BYCQ140DG BYCQ140DGF (3)	BYCQ140D BYCQ140DW BYCQ140DG BYCQ140DGF (3)	BYFQ60B3 BYFQ60C2W1W BYFQ60C2W1S	ADP125A (10)	-	-	-
Fresh air intake kit (direct installation type)	KDDQ55B140-1 (1)(2) + KDDQ55B140-2 (1)(2)	KDDQ55B140-1 (1)(2) + KDDQ55B140-2 (1)(2)	KDDQ44XA60	-	-	-	-
Air discharge adapter for round duct	-	-	-	-	-	KDAP25A56A (35-50 class) KDAP25A71A (60-71 class) KDAP25A140A (100-140 class)	KDAJ25K140A
Panel spacer	-	-	KDBQ44B60	-	-	-	-
Sensor kit (4)	BRYQ140A	BRYQ140A	BRYQ60A2W (3) BRYQ60A2S (3)	-	-	-	-
Noise filter	-	-	-	-	-	-	-

- The BYCQ140DW has white insulations. Be informed that dirt is more visible on white insulation and that it is consequently not advised to install the BYCQ140DW decoration panel in environments
- To be able to control BYCQ140D/W/DG(F), the controller BRC1E is needed and cannot be combined with mini-VRV, multi and split non-inverter outdoor units.

Notes:
1) Option not available in combination with BYCQ140D*G*;
2) Both parts of the fresh air intake are needed for each unit;
3) This option is intended exlusively for usage in fine dust environments (clothing shops). Do not use this option in high humidity and/or greasy environments.;
4) Sensor kit not available with RR & RQ units;
5) For directly mounting the decoration panel on the unit, decoration panel option EKBYBSD is required.

		OUTDOOR UNITS					
Description		**RZQG-L9V1**	**RZQG-L8Y1**	**RZQSG-L3/9V1**	**RZQSG-L(8)Y1**	**RZQ-C**	**AZQS-B8V1/BY1**
Central drain plug		-	-	-	-	KWC26B280	-
Refrigerant branch piping	For twin	KHRQ22M20TA (2)	KHRQ22M20TA (KHRQ58T) (2)	KHRQ22M20TA (2)	KHRQ22M20TA (KHRQ58T) (2)	KHRQ22M20TA	-
	For triple	KHRQ127H (2)	KHRQ127H (KHRQ58H) (2)	KHRQ127H(2)	KHRQ127H (KHRQ58H) (2)	KHRQ250H7	-
	For double twin	KHRQ22M20TA (3x) (2)	KHRQ22M20TA (3x) (KHRQ58T) (2)	KHRQ22M20TA (3x) (2)	KHRQ22M20TA (3x) (KHRQ58T) (2)	KHRQ22M20TA (x3)	-
Demand adapter kit		SB.KRP58M51	KRP58M51	KRP58M51 (71 class), SB.KRP58M51 (100-125-140)	SB.KRP58M51 (class 125-140)	KRP58M51	KRP58M51MK (V1)
Bottom plate heater (1)		EKBPH140L7	EKBPH140L7	-	-	-	-

Notes:
1) Bottom plate heater is only available for RZQG* models;
2) For combination of RZQ(S)G71-140 in combination with FCQG35-71F or FCQHG71F use the refrigerant branch piping mentioned between brackets

INDOOR UNITS							
FDQ-B	**ABQ-C**	**FAQ-C9**	**FHQ-CB**	**AHQ-C**	**FUQ-C**	**FNQ-A**	**FVQ-C**
-	-	-	KAFP501A56 (35-50 class) KAFP501A80 (60-71 class) KAFP501A160 (100-125 class)	-	KAFP551K160	-	KAFJ95L160
-	-	K-KDU572EVE	KDU50P60 (35-60 class) KDU50P140 (71-125 class)	-	-	-	-
-	-	-	KHFP5M35 (35 class) KHFP5N63 (50-60 class) KHFP5N160 (71-125 class)	-	-	-	-
-	-	-	-	-	KDBHP49B140	-	-
-	-	-	-	-	KDBTP49B140	-	-
-	-	-	-	-	-	-	-
-	-	-	KDDQ50A140	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	KEK26-1A	-	-	-	KEK26-1A	-

Ventilation

		VAM 150FC	VAM 250FC	VAM 350FC	VAM 500FC	VAM 650FC	VAM 800FC	VAM 1000FC	VAM 1500FC	VAM 2000FC
Dust filters	EN779 Medium M6	-	-	EKAFV50F6	EKAFV50F6	EKAFV80F6	EKAFV80F6	EKAFV100F6	EKAFV100F6 x2	EKAFV100F6 x2
	EN779 Fine F7	-	-	EKAFV50F7	EKAFV50F7	EKAFV80F7	EKAFV80F7	EKAFV100F7	EKAFV100F7 x2	EKAFV100F7 x2
	EN779 Fine F8	-	-	EKAFV50F8	EKAFV50F8	EKAFV80F8	EKAFV80F8	EKAFV100F8	EKAFV100F8 x2	EKAFV100F8 x2
Silencer	Model name	-	-	-	KDDM24B50	KDDM24B100	KDDM24B100	KDDM24B100	KDDM24B100 x2	KDDM24B100 x2
	Nominal pipe Diameter (mm)	-	-	-	200	200	250	250	250	250
CO_2 sensor		-	-	BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200
VH electrical heater for VAM		VH1B	VH2B	VH2B	VH3B	VH3B	VH4B / VH4/AB	VH4B / VH4/AB	VH5B	VH5B

Individual control systems	VAM-FC	EKEQFCBA [2]	EKEQDCB [2]	EKEQMCBA [2]
Wired remote control	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52 1	BRC1E52A/B / BRC1D52 1
VAM wired remote control	BRC301B61	-	-	-

Centralised control systems	VAM-FC	EKEQFCBA [2]	EKEQDCB [2]	EKEQMCBA [2]
Centralised remote control	DCS302C51	-	-	-
Unified ON/OFF control	DCS301B51	-	-	-
Schedule timer	DST301B51	-	-	-
DCC601A51	DCC601A51	-	-	-
Intelligent Touch Manager	DCM601A51	DCM601A51	DCM601A51	DCM601A51
Modbus DIII adapter	EKMBDXA7V1	EKMBDXA7V1	EKMBDXA7V1	EKMBDXA7V1
BACnet interface	DMS502A51	-	-	-
LonWorks interface	DMS504B51	-	-	-

Others	VAM150-250FC	VAM350-2000FC	EKEQFCBA [2]	EKEQDCB [2]	EKEQMCBA [2]
Wiring adapter for electrical appendices (note 7)	KRP2A51	KRP2A51 (note 3)	-	-	-
Adapter PCB for humidifier	KRP50-2	KRP1C4 (note 4/6)	-	-	-
Adapter PCB for 3rd party heater	BRP4A50	BRP4A50A (note 4/5)	-	-	-
Remote sensor	-	-	-	KRCS01-1	-

Notes
(1) Cool/heat selector required for operation
(2) Unless otherwise specified DIII-net devices cannot be connected to the system
(3) Installation box KRP1BA101 needed.
(4) Fixing plate EKMPVAM additionally needed for VAM1500-2000FB.
(5) 3rd party heater and 3rd party humidifier cannot be combined
(6) Installation box KRP50-2A90 needed.
(7) For external control and monitoring (ON/OFF control, operation signal, error indication)

	VH electrical heater for VAM
Supply voltage	220/250V ac 50/60 Hz. +/-10%
Output current (maximum)	19A at 40°C (ambient)
Temperature sensor	5k ohms at 25°C (table 502 1T)
Temperature control range	0 to 40°C / (0-10V 0-100%)
Run on timer	Adjustable from 1 to 2 minutes (factory set at 1.5 minutes)
Control fuse	20 X5 mm 250 m A
LED indicators	Power ON - Yellow Heater ON - Red (solid or flashing, indicating pulsed control) Airflow fault - Red
Mounting holes	98mm X 181mm centres 5 mm ø holes
Maximum ambient adjacent to terminal box	35°C (during operation)
Auto high temp. cutout	100°C Pre-set
Man. reset high temp. cutout	125°C Pre-set
Run relay	1A 120V AC or 1A 24V DC
BMS setpoint input	0-10VDC

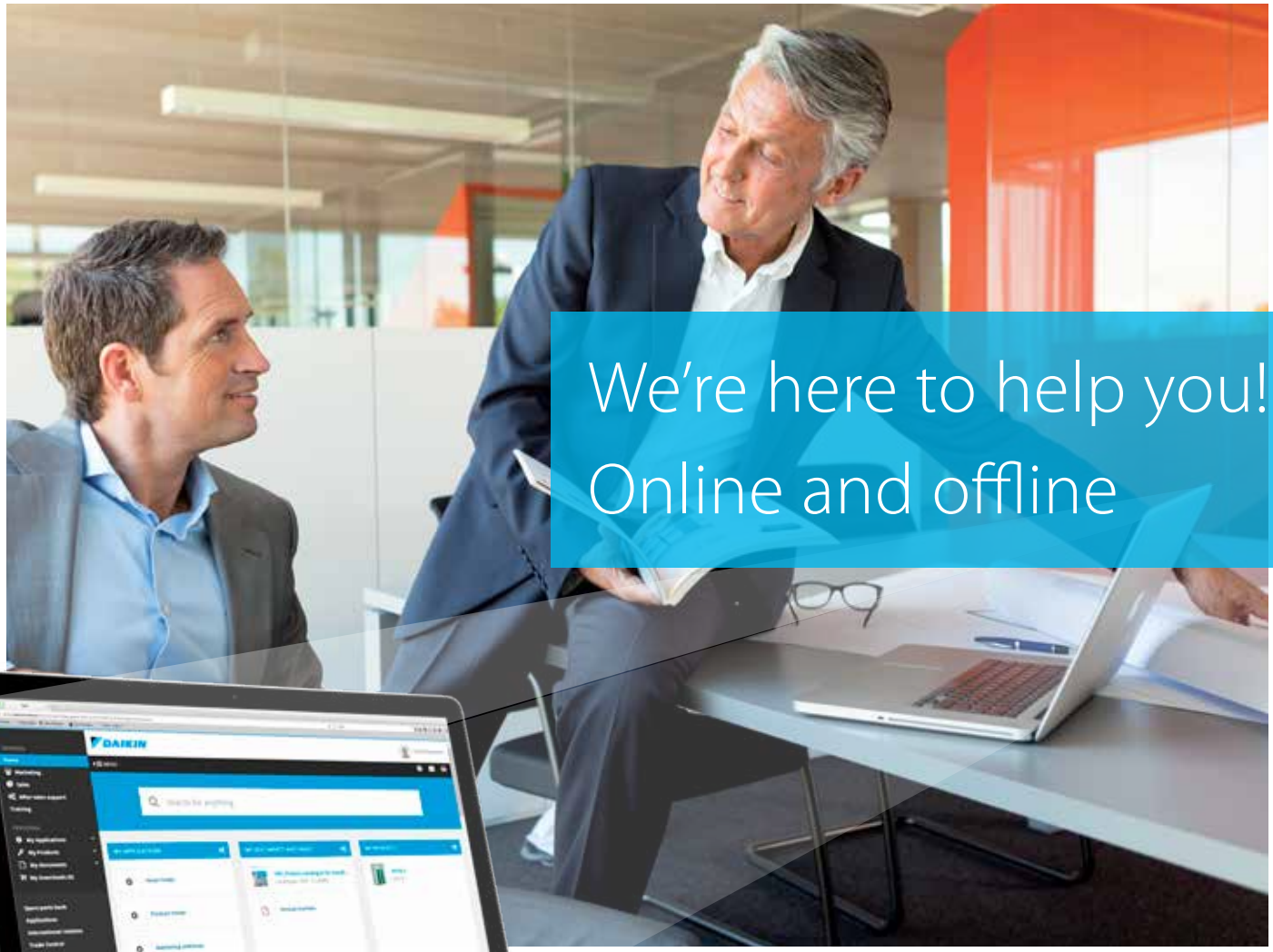
Vh electrical heater for vam		vH1B	VH2B	VH3B	VH4B	VH4/AB	VH5B
Capacity	kW	1	1	1	1.5	2.5	2.5
Duct diameter	mm	100	150	200	250	250	350
Connectable VAM		VAM150FC	VAM250FC	VAM500FC	VAM800FC	VAM800FC	VAM1500FC
		-	VAM350FC	VAM650FC	VAM1000FC	VAM1000FC	VAM2000FC

D-AHU Professional

Construction type		SP 65	SP 45	FP 50	FP 25
Profile	Aluminium	standard	standard	standard	standard
	Anodized aluminium	option	option	option	option
	Aluminium with thermal break	option	option	option	option
	Anodized aluminium with thermal break	option	option	option	option
Corner	Glass fibre reinforced nylon	standard	standard	standard	standard
Panel insulation	Polyurethane foam density 45 kg/m³ thermal conductivity 0.020 W/m*K fire reaction class 1	standard	standard	standard	standard
	Mineral wool density 90 kg/m³ thermal conductivity 0.037 W/m*K (referred to 20°C) fire reaction class 0	option	option	option	option
External sheet material	Grey Plastisol covered galvanized steel	standard	standard	standard	standard
	Pre-coated galvanized steel	option	option	option	option
	Galvanized steel	option	option	option	option
	Aluminium	option	option	option	option
	AISI 304 stainless steel	option	option	option	option
Internal sheet material	Galvanized steel	standard	standard	standard	standard
	Pre-coated galvanized steel	option	option	option	option
	Grey Plastisol covered galvanized steel	option	option	option	option
	Aluminium	option	option	option	option
	AISI 304 stainless steel	option	option	option	option
Base frame	Aluminium	standard (from size 1 to size 17)	standard (from size 1 to size 17)	standard (from size 1 to size 17)	standard (from size 1 to size 17)
	Galvanized steel	standard (from size 18 to size 27)	standard (from size 18 to size 27)	standard (from size 18 to size 27)	standard (from size 18 to size 27)
Handle	Glass fibre reinforced nylon	standard	standard	standard	standard
Type	Compression type	standard	standard	standard	standard
	Hinge function type (possibility to remove door)	option	option	option	option

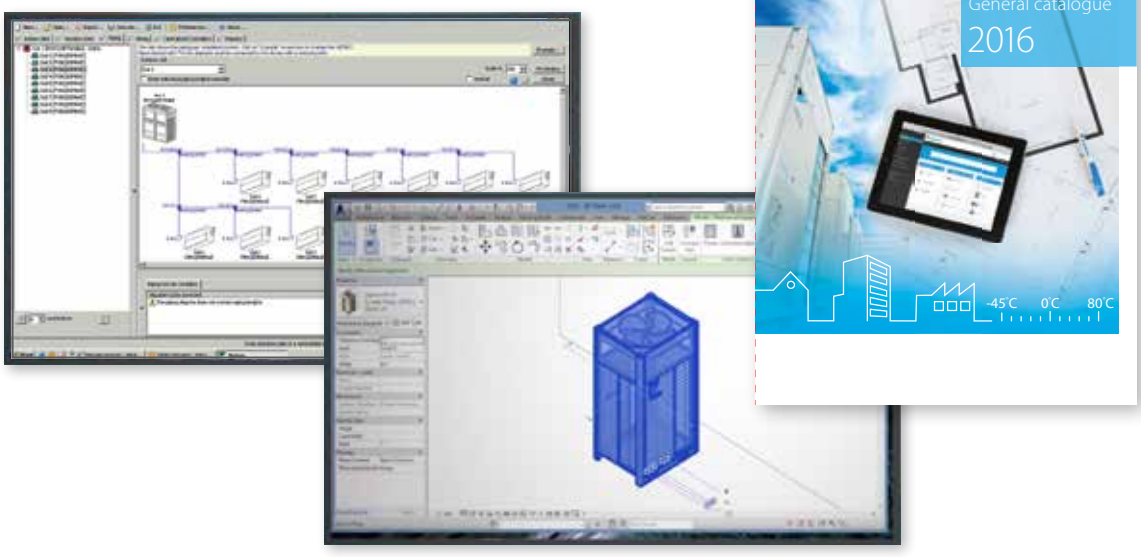
D-AHU Easy

Construction type		DS 50	DS 25
Profile	Aluminium	Standard	Standard
Corner	Glass fibre reinforced nylon	Standard	Standard
Panel insulation	Polyurethane foam thermal conductivity 0.024 W/m*K	Standard (density 45 kg/m³)	standard (density 47 kg/m³)
External sheet material	Pre-coated galvanized steel (RAL 9002)	Standard	Standard
Internal sheet material	Galvanized steel	Standard	Standard
Base frame	Aluminium	Standard	Standard
Handle	Glass fibre reinforced nylon	Standard	Standard
Type	Compression type	Standard	Standard



We're here to help you!
Online and offline

http://literature.daikinpromoshop.eu



Tools and platforms

Commercial market - literature overview

for professional network

Solution guides:

Reference books:

Product profiles:

VRV IV range
Detailed VRV IV standards and technologies benefits. Main features and specs of VRV IV product range

15-206

VRV IV i-series
Main benefits, application examples and specs of VRV IV i-series product range

16-207

VRV IV S-series
Main benefits, application examples and specs of VRV IV S-series product range

16-208

DAIKIN
Second half 2016

Water-to-air heat pump
Detailed info on VRV IV W-series, application examples, technical system design background

16-209

Focus topics:

Replacement Technology
Clear installer benefits of VRV replacement technology

15-214

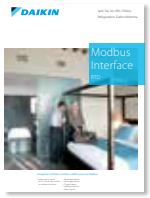
Infrastructure cooling
Clear installer benefits why to choose Daikin for infrastructure cooling

16-140

Product flyers:

Wired Remote Control
Detailed info on BRC1E52A/B remote control

15-306



RTD modbus interface
Detailed info on RTD controls and applications

15-308

Product catalogues:

Sky Air Catalogue
Detailed technical information & benefits on Sky Air/Ventilation/ Biddle Air Curtain/Control systems/AHU

16-100

VRV Catalogue
Detailed technical information & benefits of the VRV total solution

16-200

Ventilation Catalogue
Detailed info on Ventilation products

16-203

Product portfolios:

Sky Air product portfolio
Overview of Sky air product range

16-101

VRV product portfolio
Overview of VRV total solution product range

16-201

Controls systems portfolio
Overview of all Daikin control systems

15-301

for your customers

Commercial Solutions
Daikin offers solutions for commercial applications

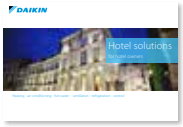
15-100

Reference catalogue
Daikin commercial and industrial references

14-213

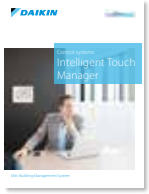
Green Buiding Solutions
Clear building owner/investor benefits why to choose Daikin for a green building, with emphasis on BREEAM

15-216



Hotel Solutions
Clear building owner/investor benefits why to choose Daikin for a hotel

15-218

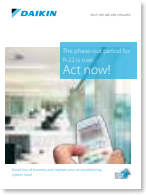


Intelligent Touch Manager
Detailed benefits of Intelligent Touch Manager

15-302

DCC601A51
Detailed benefits of DCC601A51 and Daikin Cloud Service

16-303



Replacement technology
Clear building owner/investor benefits of replacement technology

15-215

Sky Air product leaflets
Single page leaflet with the main benefits and technical specifications of each individual Sky Air unit. Ideal for quotations

VRV product leaflets
Single page leaflet with the main benefits and technical specifications of each individual VRV unit. Ideal for quotations

Cassette mini catalogue
Giving overview of our cassette unit product solutions
(incl. Round flow cassette FCQ(H)G-F/FXFQ-A, Fully flat cassette FFQ-C/FXZQ-A, FUQ-C/FXUQ-A, ACQ-C)

16-110

Concealed ceiling unit mini catalogue
Catalogue giving overview of our concealed ceiling unit product solutions
(incl. FDXS-F(9), FBQ-D, FDQ-C, FDQ-B, FXDQ-M9, FXDQ-A, FXSQ-A, FXMQ-P7, FXMQ-MA)

16-106

Ceiling suspended, wall mounted, floor standing units mini catalogue
Catalogue giving overview of our Ceiling suspended, wall mounted and floor standing product solutions.
(incl. FXHQ-A,FHQ-C, FXAQ-A, FAQ-C, FXNQ-A, FNQ-A, FXLQ-P, FVQ-C)

16-101

Technical documentation:

All latest Daikin catalogues are available in a convenient library on the internet:
www.daikineurope.com/support-and-manuals/catalogues

Supporting
tools, software and apps

www.daikineurope.com/support-and-manuals/software-downloads

Software

Solutions seasonal simulator, simulate & compare

With this software tool you can simulate and the seasonal efficiency, the annual power consumption and CO_2 emission for a given climate, load profile (cooling, heating, heat recovery, covalent, bivalent...) and combination of systems. With its intuitive and graphical appealing interface, a simulation, comparison and ROI calculation can be made in a matter of minutes.

Ventilation Xpress

Selection tool for ventilation devices (VAM, VKM). The selection is based on given supply/extract airflows (including fresh up), and given ESP of the supply/extract ducting:

- Determines size of electrical heaters
- Visualisation of psychrometric chart
- Visualisation of selected configuration
- Required field settings mentioned in the report

Supporting tools

Building Information Modelling (BIM) support

EXPECTED JUNE 2016 FOR SKY AIR

- BIM is improving efficiency in the design and built phase
- Daikin is among the first to supply a full library of BIM objects for its VRV products

http://bimobject.com/en/product/?freetext=daikin

Other interesting apps

There's an app for that

Some of our most used apps:

› **Error code app:** quickly know the meaning of fault codes for each product family
› **Load calculation tool:** helps you to calculate the heat and cool laod of your building
› **Astra:** AHU design software

Online support

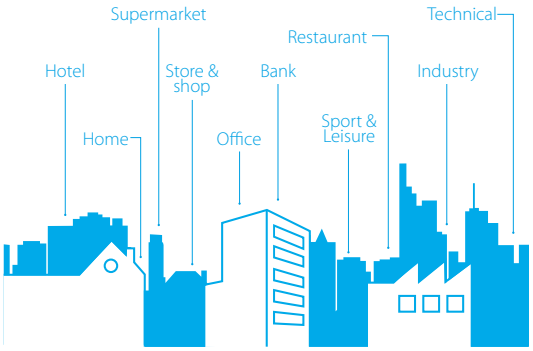
NEW Business portal

› Experience our new extranet that thinks with you at my.daikin.eu
› Find information in seconds via a powerful search
› Customise the options so you see only info relevant for you
› Access via mobile device or desktop

my.daikin.eu

Internet

Find our solution for different applications:



› Get more commercial details on our flagship products via our dedicated minisites

www.daikineurope.com/commercial/applications

www.daikineurope.com/industrial/applications

› See our references

www.daikineurope.com/references

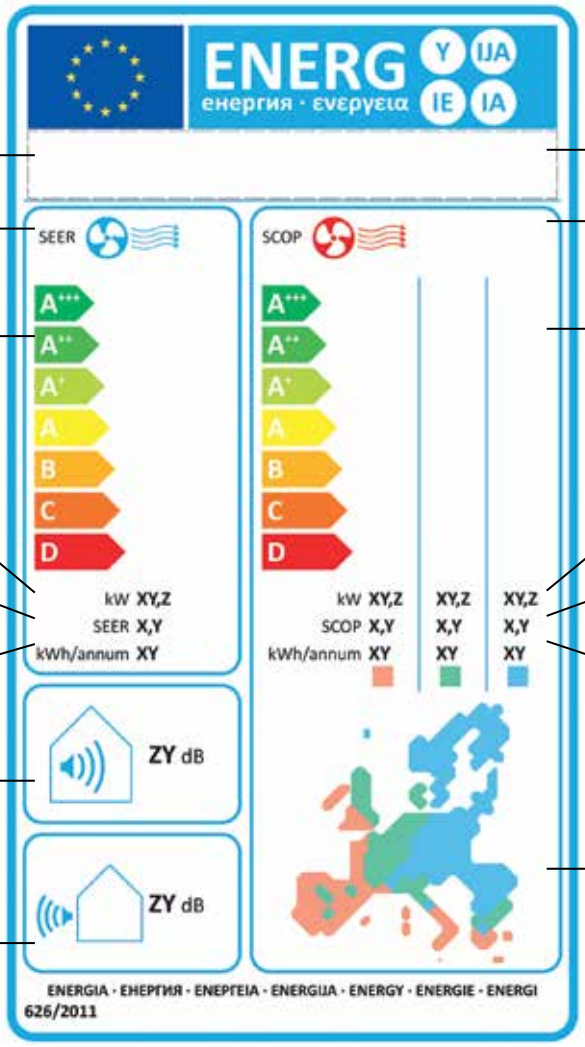
Europe's new energy label

Labelling to encourage intelligent choices

To enable consumers to compare and make purchasing decisions based on uniform labelling criteria, Europe has introduced energy labels. The previous European energy label for air conditioners, introduced in 1992, did its job for the time. In 2013, Europe introduced a seasonal energy label. This label allows end users to make even more informed choices, since seasonal efficiency reflects air conditioner efficiency over an entire season.

The energy label includes multiple classifications from A+++ to D, reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the label not only includes the seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and noise levels.

The label more in detail



Name of manufacturer and product

SEER: seasonal efficiency values for cooling

Classifications from A+++ (most energy efficient) to D (least energy efficient

Design load for cooling

Seasonal efficiency ratings for cooling (SEER)

Annual energy consumption during a cooling season, including auxiliary modes

Sound power value for indoor unit

Sound power value for outdoor unit

Combination of indoor and outdoor unit

SCOP: seasonal efficiency values for heating

Classifications from A+++ (most energy efficient) to D (least energy efficient)

Design load for heating

Seasonal efficiency ratings for heating (SCOP)

Annual energy consumption during a heating season, including auxiliary modes

To take the broad range of conditions into account, 3 climate zones are used: cold, average and warm

BLUE = COLDER CLIMATE (OPTIONAL)
GREEN = AVERAGE CLIMATE (COMPULSORY)
ORANGE = WARMER CLIMATE (OPTIONAL)

Power supply

T1 = 3~, 220V, 50Hz
V1 = 1~, 220-240V, 50Hz
VE = 1~, 220-240V/220V, 50Hz/60Hz*
V3 = 1~, 230V, 50Hz
VM = 1~, 220~240V/220~230V, 50Hz/60Hz
W1 = 3N~, 400V, 50Hz
Y1 = 3~, 400V, 50Hz

* For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.

Conversion table refrigerant piping

inch	mm
1/4″	6.4 mm
3/8″	9.5 mm
1/2″	12.7 mm
5/8″	15.9 mm
3/4″	19.1 mm
7/8″	22.2 mm
1 1/8″	28.5 mm
1 3/8″	34.9 mm
1 5/8″	41.3 mm
1 3/4″	44.5 mm
2″	50.8 mm
2 1/8″	54 mm
2 5/8″	66.7 mm

F-gas regulation

For fully/partially charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

For non pre-charged equipment (Chillers: split chiller (SEHVX/SERHQ), condensing units and condenserless chillers + refrigeration (LCBKQ-AV1, JEHCCU/JEHSCU and ICU): Its functioning relies on fluorinated greenhouse gases.

Measuring conditions

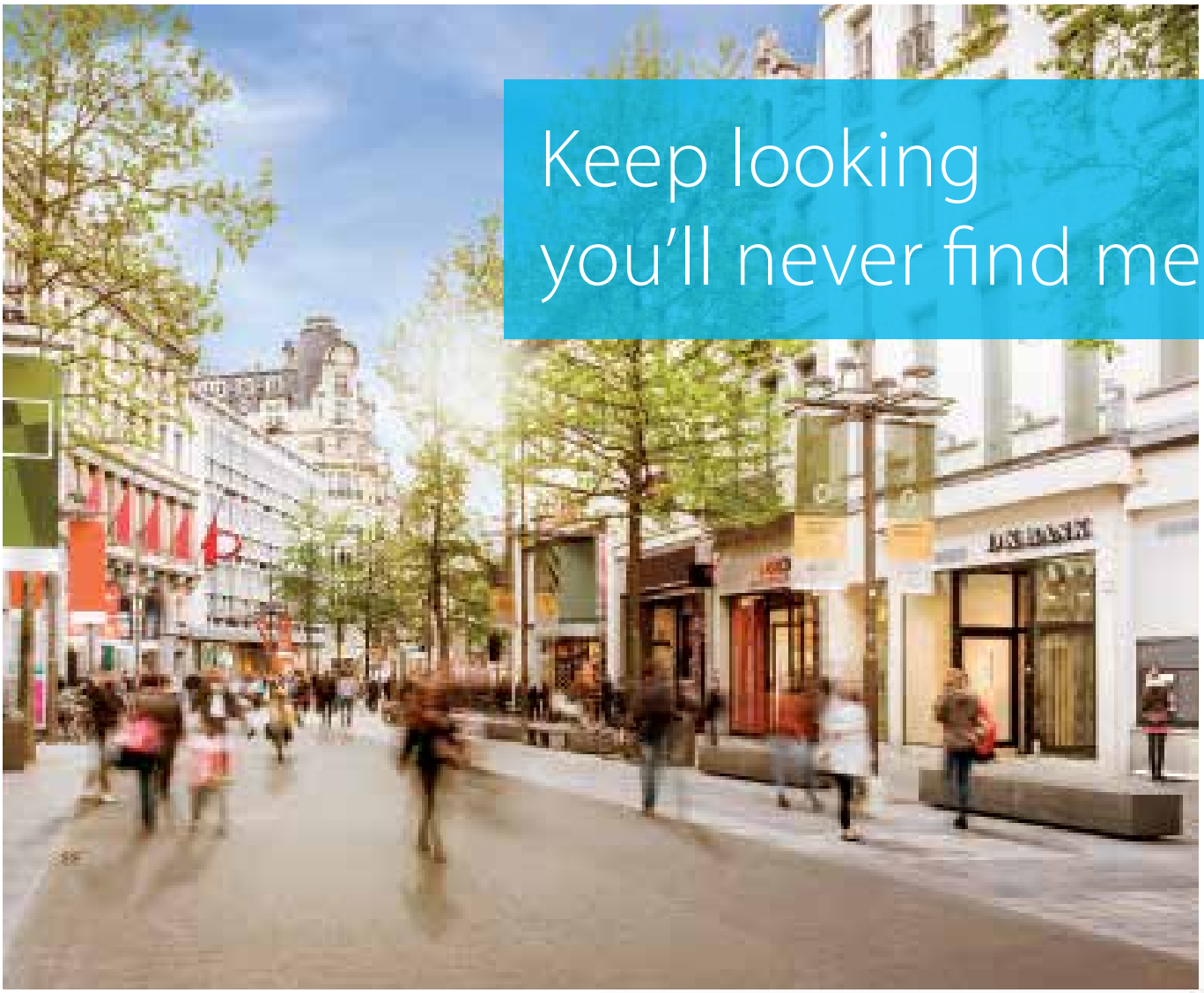
Air conditioning

1) Nominal cooling capacities are based on:	
Indoor temperature	27°CDB/19°CWB
Outdoor temperature	35°CDB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m
2) Nominal heating capacities are based on:	
Indoor temperature	20°CDB
Outdoor temperature	7°CDB/6°CWB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m

Applied systems

Air cooled	Cooling only	Evaporator: 12°C/7°C	Ambient: 35°CDB
	Heat pump	Evaporator: 12°C/7°C	Ambient: 35°C
		Condenser: 40°C/45°C	Ambient: 7°CDB/6°CWB
Water cooled	Cooling only	Evaporator: 12°C/7°C	
		Condenser: 30°C/35°C	
	Heating only	Evaporator: 12°C/7°C	
		Condenser: 40°C/45°C	
Condenserless chiller		Evaporator: 12°C/7°C	
		Condensing temperature: 45°C / liquid temperature: 40°C	
Fan coil units	Cooling	Room temperature: 27°CDB /19°CWB	
		Water inlet/outlet temperature: 7°C/12°C	
	Heating	Room temperature: 20°C 2 pipe: Water inlet temperature: 50°C (same water flow as in cooling mode) 4 pipe: Water inlet/outlet temperature: 70°C/60°C	

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks).
The sound power level is an absolute value indicating the "power" which a sound source generates.
For more detailed information please consult our technical databooks.



Keep looking you'll never find me

The city secret

Unseen in the best places

Our VRV IV i-series offers you a truly unique solution for installations where you need a totally invisible system. It is compact and easy to hide indoors, with only the grilles being visible outside. Split into two lightweight components, the compressor can be installed at floor level in a storage room or technical area, and the heat exchanger unit, which is only 400 mm high, can be installed in a standard false ceiling. The VRV IV i-series has a patented V-shaped heat exchanger which boosts efficiency. So your customer can now enjoy all the power of a fully invisible VRV system.

VRV IV i-series

Variable Refrigerant Temperature

Find out more at www.daikineurope.com/citysecret

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EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Daikin Europe N.V. participates in the Eurovent Certification programme for Liquid Chilling Packages (LCP), Air handling units (AHU) and Fan coil units (FCU). Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com. Infrastructure cooling is not in scope for Eurovent.

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