Air Conditioning Technical Data

RXA-B8



EEDEN24

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RXA-B8

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1 Features

1 - 1 RXA-B8

› Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
› Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
› Outdoor units for pair application



Outdoor unit silent operation

2 Specifications

2 - 1 Specifications

Technical Specifications					RXA42B8	RXA50B8
Casing	Colour				Ivory white	
Dimensions	Unit	Height		mm	734	
		Width		mm	954	
		Depth		mm	401	
	Packed unit	Height		mm	820	
		Width		mm	1,050	
		Depth		mm	480	
Weight	Unit			kg	49	
	Packed unit			kg	53	
Packing	Weight			kg	4	
Heat exchanger	Length			mm	920	
	Rows	Quantity			2	
	Fin pitch			mm	1.4	
	Stages	Quantity			32	
	Passes	Quantity			2.2	
	Tube type				ø7 Hi-XD	
	Fin	Type			Waffle fin (PE)	
Fan	Type				Propeller fan	
	Air flow rate	Cooling	Nom.	m^3/min	45.4	46.6
				cfm	1,602	1,645
		Heating	Nom.	m^3/min	44.1	
				cfm	1,557	
Fan motor	Model				DFC07A1VA	
	Output			W	55	
	Speed	Cooling	High	rpm	760	
			Nom.	rpm	740	760
			Low	rpm	740	
		Heating	High	rpm	720	
			Nom.	rpm	720	
			Low	rpm	660	
Compressor	Model				2Y147BKBX1P#D	
	Oil Amount			cm^3	650	
	Type				Hermetically sealed swing compressor	
	Output			W	1,300	
	Oil Type				FW68DA	
Operation range	Cooling	Ambient	Min.	°CDB	-10	
Operation range	Cooling	Ambient	Max.	°CDB	46	
	Heating	Ambient	Min.	°CWB	-15	
				°CDB	-15	
			Max.	°CWB	18	
				°CDB	24	
Sound power level	Cooling	Nom.		dBA	62	
	Heating	Nom.		dBA	62	
Sound pressure level	Cooling	Nom.		dBA	48	
	Heating	Nom.		dBA	48	
Refrigerant	Type				R-32	
	Charge			kg	1.1	
	Charge			tCO2Eq	0.75	
	GWP				675	
Piping connections	Liquid	OD		mm	6.4	
	Gas	OD		mm	9.5	12.7
	Drain	OD		mm	16	
	Piping length	OU - IU	Max.	m	30	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m	20	
	Heat insulation				Both liquid and gas pipes	
Capacity control	Method				Variable (inverter)	

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Refrigerant charge label;Quantity: 1;

Standard accessories: Multilingual fluorinated greenhouse gases labels;Quantity: 1;

Standard accessories: Drain cap (1);Quantity: 6;

Standard accessories: Drain cap (2);Quantity: 3;

Standard accessories: Drain plug;Quantity: 1;

2 Specifications

2 - 1 Specifications

Electrical Specifications			RXA42B8	RXA50B8
Power supply	Phase		1~	
	Hz		50	
	V		220-240	
Wiring connections	For power supply	Quantity	3	
		Remark	Earth wire included	
	For connection with indoor	Quantity	4	
		Remark	Earth wire included	
Current - 50Hz	Maximum fuse amps (MFA)	A	13	

See separate drawing for operation range |
See separate drawing for electrical data |
Contains fluorinated greenhouse gases

2 Specifications

2 - 1 Specifications

Technical specifications				FTXA42BB + RXA42B8	FTXA50BB + RXA50B8
Cooling capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	4.2	5
	Nom.		Btu/h	14,300	17,100
	Nom.		kcal/h	3,611	4,299
	Max.		kW	5	5.3
	Max.		Btu/h	17,100	18,100
	Max.		kcal/h	4,299	4,557
Heating capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	5.4	5.8
	Nom.		Btu/h	18,400	19,800
	Nom.		kcal/h	4,643	4,987
	Max.		kW	6	6.5
	Max.		Btu/h	20,500	22,200
	Max.		kcal/h	5,159	5,589
Power input	Cooling	Nom.	kW	1.05	1.36
	Heating	Nom.	kW	1.31	1.45
Nominal efficiency	EER			3.99	3.68
	COP			4.12	4
	Annual energy consumption		kWh	526	679
	Energy labeling Directive	Cooling		A	
		Heating		A	
Space cooling	Energy efficiency class			A++	
	Capacity	Pdesign	kW	4.2	5
	SEER			7.5	7.33
	Annual energy consumption		kWh/a	196	239
Space heating (Average climate)	Capacity	Pdesign	kW	3.8	4
	Energy efficiency class			A++	
	SCOP/A			4.6	
	SCOPnet/A			4.65	
	Pdh Heating capacity at -10°		kW	3.04	3.19
Space heating (Average climate)	Annual energy consumption		kWh/a	1,156	1,218
	Required back up heating cap at design conditions		kW	0.76	0.81
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.05	2.16
	Energy efficiency class			A+++	
	SCOP			5.87	5.86
	SCOPnet			5.99	5.97
	Annual energy consumption		kWh/a	489	516
	Required back up heating cap at design conditions		kW	0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	4.2	5
		EERd		3.99	3.68
		Power input	kW	1.05	1.36
	B Condition (30°C - 27/19)	Pdc	kW	3.1	3.69
		EERd		5.58	5.28
		Power input	kW	0.56	0.7
	C Condition (25°C - 27/19)	Pdc	kW	1.99	2.37
		EERd		9.35	9.24
		Power input	kW	0.21	0.26
	D Condition (20°C - 27/19)	Pdc	kW	1.86	1.87
		EERd		12.08	12.03
		Power input	kW	0.15	0.16
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10	
	TBivalent	Tbiv (bivalent temperature)	°C	-7	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.37	3.54
		COPd (declared COP)		3.16	
		Power input	kW	1.07	1.12
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.05	2.16
		COPd (declared COP)		4.47	4.46
		Power input	kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.65	1.71
		COPd (declared COP)		6.33	6.32
		Power input	kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.52	
		COPd (declared COP)		7.35	7.25
		Power input	kW	0.21	

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42BB + RXA42B8	FTXA50BB + RXA50B8
Space heating (Average climate)	E condition (-10°C)	Pdh (declared heating cap)		kW	3.04	3.19
		COPd (declared COP)			2.98	
		Power input		kW	1.02	1.07
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	2	
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	
			Heating	W	13	
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62	
	Sound power level indoor	Cooling	Nom.	dBA	60	
	Piping length	Cooling	Measuring condition	m	5	

Electrical specifications				FTXA42BB + RXA42B8	FTXA50BB + RXA50B8
Power factor	Nominal	Cooling	%	93.4	95.3
		Heating	%	95.5	96.5
Current - 50Hz	Maximum fuse amps (MFA)		A	13	
	Minimum circuit amps (MCA)		A	12.84	
Power supply	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Max.		%	10	
	Min.		%	-10	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range

Technical specifications			FTXA42BS + RXA42B8	FTXA50BS + RXA50B8
Cooling capacity	Min.	kW	1.7	
	Min.	Btu/h	5,800	
	Min.	kcal/h	1,462	
	Nom.	kW	4.2	5
	Nom.	Btu/h	14,300	17,100
	Nom.	kcal/h	3,611	4,299
	Max.	kW	5	5.3
	Max.	Btu/h	17,100	18,100
	Max.	kcal/h	4,299	4,557

2 Specifications

2 - 1 Specifications

Technical specifications				FTXA42BS + RXA42B8	FTXA50BS + RXA50B8
Heating capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	5.4	5.8
	Nom.		Btu/h	18,400	19,800
	Nom.		kcal/h	4,643	4,987
	Max.		kW	6	6.5
	Max.		Btu/h	20,500	22,200
	Max.		kcal/h	5,159	5,589
Power input	Cooling	Nom.	kW	1.05	1.36
	Heating	Nom.	kW	1.31	1.45
Nominal efficiency	EER			3.99	3.68
	COP			4.12	4
	Annual energy consumption		kWh	526	679
	Energy labeling Directive	Cooling		A	
		Heating		A	
Space cooling	Energy efficiency class			A++	
	Capacity	Pdesign	kW	4.2	5
	SEER			7.5	7.33
	Annual energy consumption		kWh/a	196	239
Space heating (Average climate)	Capacity	Pdesign	kW	3.8	4
	Energy efficiency class			A++	
	SCOP/A			4.6	
	SCOPnet/A			4.65	
	Pdh Heating capacity at -10°		kW	3.04	3.19
Space heating (Average climate)	Annual energy consumption		kWh/a	1,156	1,218
	Required back up heating cap at design conditions		kW	0.76	0.81
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.05	2.16
	Energy efficiency class			A+++	
	SCOP			5.87	5.86
	SCOPnet			5.99	5.97
	Annual energy consumption		kWh/a	489	516
	Required back up heating cap at design conditions		kW	0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	4.2	5
		EERd		3.99	3.68
		Power input	kW	1.05	1.36
	B Condition (30°C - 27/19)	Pdc	kW	3.1	3.69
		EERd		5.58	5.28
		Power input	kW	0.56	0.7
	C Condition (25°C - 27/19)	Pdc	kW	1.99	2.37
		EERd		9.35	9.24
		Power input	kW	0.21	0.26
	D Condition (20°C - 27/19)	Pdc	kW	1.86	1.87
		EERd		12.08	12.03
		Power input	kW	0.15	0.16
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10	
	TBivalent	Tbiv (bivalent temperature)	°C	-7	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.37	3.54
		COPd (declared COP)		3.16	
		Power input	kW	1.07	1.12
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.05	2.16
		COPd (declared COP)		4.47	4.46
		Power input	kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.65	1.71
		COPd (declared COP)		6.33	6.32
		Power input	kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.52	
		COPd (declared COP)		7.35	7.25
		Power input	kW	0.21	
Space heating (Average climate)	E condition (-10°C)	Pdh (declared heating cap)	kW	3.04	3.19
		COPd (declared COP)		2.98	
		Power input	kW	1.02	1.07

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42BS + RXA42B8	FTXA50BS + RXA50B8
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	2	
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	
			Heating	W	13	
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62	
	Sound power level indoor	Cooling	Nom.	dBA	60	
	Piping length	Cooling	Measuring condition	m	5	

Electrical specifications				FTXA42BS + RXA42B8	FTXA50BS + RXA50B8
Power factor	Nominal	Cooling	%	93.4	95.3
		Heating	%	95.5	96.5
Current - 50Hz	Maximum fuse amps (MFA)		A	13	
	Minimum circuit amps (MCA)		A	12.84	
Power supply	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Max.		%	10	
	Min.		%	-10	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range

Technical specifications				FTXA42BT + RXA42B8	FTXA50BT + RXA50B8
Cooling capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	4.2	5
	Nom.		Btu/h	14,300	17,100
	Nom.		kcal/h	3,611	4,299
	Max.		kW	5	5.3
	Max.		Btu/h	17,100	18,100
	Max.		kcal/h	4,299	4,557
Heating capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	5.4	5.8
	Nom.		Btu/h	18,400	19,800
	Nom.		kcal/h	4,643	4,987
	Max.		kW	6	6.5
	Max.		Btu/h	20,500	22,200
	Max.		kcal/h	5,159	5,589
Power input	Cooling	Nom.	kW	1.05	1.36
	Heating	Nom.	kW	1.31	1.45

2 Specifications

2 - 1 Specifications

Technical specifications				FTXA42BT + RXA42B8	FTXA50BT + RXA50B8
Nominal efficiency	EER			3.99	3.68
	COP			4.12	4
	Annual energy consumption		kWh	526	679
	Energy labeling Directive	Cooling		A	
		Heating		A	
Space cooling	Energy efficiency class			A++	
	Capacity	Pdesign	kW	4.2	5
	SEER			7.5	7.33
	Annual energy consumption		kWh/a	196	239
Space heating (Average climate)	Capacity	Pdesign	kW	3.8	4
	Energy efficiency class			A++	
	SCOP/A			4.6	
	SCOPnet/A			4.65	
	Pdh Heating capacity at -10°		kW	3.04	3.19
Space heating (Average climate)	Annual energy consumption		kWh/a	1,156	1,218
	Required back up heating cap at design conditions		kW	0.76	0.81
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.05	2.16
	Energy efficiency class			A+++	
	SCOP			5.87	5.86
	SCOPnet			5.99	5.97
	Annual energy consumption		kWh/a	489	516
	Required back up heating cap at design conditions		kW	0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	4.2	5
		EERd		3.99	3.68
		Power input	kW	1.05	1.36
	B Condition (30°C - 27/19)	Pdc	kW	3.1	3.69
		EERd		5.58	5.28
		Power input	kW	0.56	0.7
	C Condition (25°C - 27/19)	Pdc	kW	1.99	2.37
		EERd		9.35	9.24
		Power input	kW	0.21	0.26
	D Condition (20°C - 27/19)	Pdc	kW	1.86	1.87
		EERd		12.08	12.03
		Power input	kW	0.15	0.16
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10	
	TBivalent	Tbiv (bivalent temperature)	°C	-7	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.37	3.54
		COPd (declared COP)		3.16	
		Power input	kW	1.07	1.12
	B Condition (2°C)	Pdh (declared heating cap)	kW	3.37	3.54
		COPd (declared COP)		3.16	
		Power input	kW	1.07	1.12
	C Condition (7°C)	Pdh (declared heating cap)	kW	2.05	2.16
		COPd (declared COP)		4.47	4.46
		Power input	kW	0.46	0.48
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.65	1.71
		COPd (declared COP)		6.33	6.32
		Power input	kW	0.26	0.27
	E condition (-10°C)	Pdh (declared heating cap)	kW	1.52	
		COPd (declared COP)		7.35	7.25
		Power input	kW	0.21	
Space heating (Average climate)		Pdh (declared heating cap)	kW	3.04	3.19
		COPd (declared COP)		2.98	
		Power input	kW	1.02	1.07
Space heating (Warm climate)	TOL	Tol (temperature operating limit)	°C	2	
	TBivalent	Tbiv (bivalent temperature)	°C	2	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	2.05	2.16
		COPd (declared COP)		4.47	4.46
		Power input	kW	0.46	0.48
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.05	2.16
		COPd (declared COP)		4.47	4.46
		Power input	kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.65	1.71
		COPd (declared COP)		6.33	6.32
		Power input	kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.52	
		COPd (declared COP)		7.35	7.25
		Power input	kW	0.21	

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42BT + RXA42B8	FTXA50BT + RXA50B8
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	
			Heating	W	13	
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62	
	Sound power level indoor	Cooling	Nom.	dBA	60	
	Piping length	Cooling	Measuring condition	m	5	

Electrical specifications				FTXA42BT + RXA42B8	FTXA50BT + RXA50B8
Power factor	Nominal	Cooling	%	93.4	95.3
		Heating	%	95.5	96.5
Current - 50Hz	Maximum fuse amps (MFA)		A	13	
	Minimum circuit amps (MCA)		A	12.84	
Power supply	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Max.		%	10	
	Min.		%	-10	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range

Technical specifications				FTXA42AW + RXA42B8	FTXA50AW + RXA50B8
Cooling capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	4.2	5
	Nom.		Btu/h	14,300	17,100
	Nom.		kcal/h	3,611	4,299
	Max.		kW	5	5.3
	Max.		Btu/h	17,100	18,100
	Max.		kcal/h	4,299	4,557
Heating capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	5.4	5.8
	Nom.		Btu/h	18,400	19,800
	Nom.		kcal/h	4,643	4,987
	Max.		kW	6	6.5
	Max.		Btu/h	20,500	22,200
	Max.		kcal/h	5,159	5,589
Power input	Cooling	Nom.	kW	1.05	1.36
	Heating	Nom.	kW	1.31	1.45
Nominal efficiency	EER			3.99	3.68
	COP			4.12	4
	Annual energy consumption		kWh	526	679
	Energy labeling Directive	Cooling		A	
		Heating		A	
Space cooling	Energy efficiency class			A++	
	Capacity	Pdesign	kW	4.2	5
	SEER			7.5	7.33
	Annual energy consumption		kWh/a	196	239

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42AW + RXA42B8	FTXA50AW + RXA50B8
Space heating (Average climate)	Capacity	Pdesign		kW	3.8	4
	Energy efficiency class				A++	
	SCOP/A				4.6	
	SCOPnet/A				4.65	
	Pdh Heating capacity at -10°			kW	3.04	3.19
Space heating (Average climate)	Annual energy consumption			kWh/a	1,156	1,218
	Required back up heating cap at design conditions			kW	0.76	0.81
Space heating (Warm climate)	Capacity	Pdesignh		kW	2.05	2.16
	Energy efficiency class				A+++	
	SCOP				5.87	5.86
	SCOPnet				5.99	5.97
	Annual energy consumption			kWh/a	489	516
	Required back up heating cap at design conditions			kW	0	
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	4.2	5
		EERd			3.99	3.68
		Power input		kW	1.05	1.36
	B Condition (30°C - 27/19)	Pdc		kW	3.1	3.69
		EERd			5.58	5.28
		Power input		kW	0.56	0.7
	C Condition (25°C - 27/19)	Pdc		kW	1.99	2.37
		EERd			9.35	9.24
		Power input		kW	0.21	0.26
	D Condition (20°C - 27/19)	Pdc		kW	1.86	1.87
		EERd			12.08	12.03
		Power input		kW	0.15	0.16
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10	
	TBivalent	Tbiv (bivalent temperature)		°C	-7	
		Pdh (declared heating cap)		kW	3.37	3.54
		COPd (declared COP)			3.16	
		Power input		kW	1.07	1.12
	A Condition (-7°C)	Pdh (declared heating cap)		kW	3.37	3.54
		COPd (declared COP)			3.16	
		Power input		kW	1.07	1.12
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Space heating (Average climate)	E condition (-10°C)	Pdh (declared heating cap)		kW	3.04	3.19
		COPd (declared COP)			2.98	
		Power input		kW	1.02	1.07
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	2	
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	
			Heating	W	13	
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42AW + RXA42B8	FTXA50AW + RXA50B8
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62	
	Sound power level indoor	Cooling	Nom.	dBA	60	
	Piping length	Cooling	Measuring condition	m	5	

Electrical specifications				FTXA42AW + RXA42B8	FTXA50AW + RXA50B8
Power factor	Nominal	Cooling	%	93.4	95.3
		Heating	%	95.5	96.5
Current - 50Hz	Maximum fuse amps (MFA)		A	13	
	Minimum circuit amps (MCA)		A	12.84	
Power supply	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Max.		%	10	
	Min.		%	-10	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range

Technical specifications				FTXA42CB + RXA42B8	FTXA50CB + RXA50B8
Cooling capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	4.2	5
	Nom.		Btu/h	14,300	17,100
	Nom.		kcal/h	3,611	4,299
	Max.		kW	5	5.3
	Max.		Btu/h	17,100	18,100
	Max.		kcal/h	4,299	4,557
Heating capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	5.4	5.8
	Nom.		Btu/h	18,400	19,800
	Nom.		kcal/h	4,643	4,987
	Max.		kW	6	6.5
	Max.		Btu/h	20,500	22,200
	Max.		kcal/h	5,159	5,589
Power input	Cooling	Nom.	kW	1.05	1.36
	Heating	Nom.	kW	1.31	1.45
Nominal efficiency	EER			3.99	3.68
	COP			4.12	4
	Annual energy consumption		kWh	526	679
	Energy labeling Directive	Cooling		A	
		Heating		A	
Space cooling	Energy efficiency class			A++	
	Capacity	Pdesign	kW	4.2	5
	SEER			7.5	7.33
	Annual energy consumption		kWh/a	196	239
Space heating (Average climate)	Capacity	Pdesign	kW	3.8	4
	Energy efficiency class			A++	
	SCOP/A			4.6	
	SCOPnet/A			4.65	
	Pdh Heating capacity at -10°		kW	3.04	3.19
Space heating (Average climate)	Annual energy consumption		kWh/a	1,156	1,218
	Required back up heating cap at design conditions		kW	0.76	0.81
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.05	2.16
	Energy efficiency class			A+++	
	SCOP			5.87	5.86
	SCOPnet			5.99	5.97
	Annual energy consumption		kWh/a	489	516
	Required back up heating cap at design conditions		kW	0	

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42CB + RXA42B8	FTXA50CB + RXA50B8
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	4.2	5
		EERd			3.99	3.68
		Power input		kW	1.05	1.36
	B Condition (30°C - 27/19)	Pdc		kW	3.1	3.69
		EERd			5.58	5.28
		Power input		kW	0.56	0.7
	C Condition (25°C - 27/19)	Pdc		kW	1.99	2.37
		EERd			9.35	9.24
		Power input		kW	0.21	0.26
	D Condition (20°C - 27/19)	Pdc		kW	1.86	1.87
		EERd			12.08	12.03
		Power input		kW	0.15	0.16
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10	
	TBivalent	Tbiv (bivalent temperature)		°C	-7	
		Pdh (declared heating cap)		kW	3.37	3.54
		COPd (declared COP)			3.16	
		Power input		kW	1.07	1.12
	A Condition (-7°C)	Pdh (declared heating cap)		kW	3.37	3.54
		COPd (declared COP)			3.16	
		Power input		kW	1.07	1.12
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Space heating (Average climate)	E condition (-10°C)	Pdh (declared heating cap)		kW	3.04	3.19
		COPd (declared COP)			2.98	
		Power input		kW	1.02	1.07
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	2	
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	
			Heating	W	13	
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62	
	Sound power level indoor	Cooling	Nom.	dBA	60	
	Piping length	Cooling	Measuring condition	m	5	

2 Specifications

2 - 1 Specifications

Electrical specifications				FTXA42CB + RXA42B8	FTXA50CB + RXA50B8
Power factor	Nominal	Cooling	%	93.4	95.3
		Heating	%	95.5	96.5
Current - 50Hz	Maximum fuse amps (MFA)		A	13	
	Minimum circuit amps (MCA)		A	12.84	
Power supply	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Max.		%	10	
	Min.		%	-10	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range

Technical specifications				FTXA42CS + RXA42B8	FTXA50CS + RXA50B8
Cooling capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	4.2	5
	Nom.		Btu/h	14,300	17,100
	Nom.		kcal/h	3,611	4,299
	Max.		kW	5	5.3
	Max.		Btu/h	17,100	18,100
	Max.		kcal/h	4,299	4,557
Heating capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	5.4	5.8
	Nom.		Btu/h	18,400	19,800
	Nom.		kcal/h	4,643	4,987
	Max.		kW	6	6.5
	Max.		Btu/h	20,500	22,200
	Max.		kcal/h	5,159	5,589
Power input	Cooling	Nom.	kW	1.05	1.36
	Heating	Nom.	kW	1.31	1.45
Nominal efficiency	EER			3.99	3.68
	COP			4.12	4
	Annual energy consumption		kWh	526	679
	Energy labeling Directive	Cooling		A	
		Heating		A	
Space cooling	Energy efficiency class			A++	
	Capacity	Pdesign	kW	4.2	5
	SEER			7.5	7.33
	Annual energy consumption		kWh/a	196	239
Space heating (Average climate)	Capacity	Pdesign	kW	3.8	4
	Energy efficiency class			A++	
	SCOP/A			4.6	
	SCOPnet/A			4.65	
	Pdh Heating capacity at -10°		kW	3.04	3.19
Space heating (Average climate)	Annual energy consumption		kWh/a	1,156	1,218
	Required back up heating cap at design conditions		kW	0.76	0.81
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.05	2.16
	Energy efficiency class			A+++	
	SCOP			5.87	5.86
	SCOPnet			5.99	5.97
	Annual energy consumption		kWh/a	489	516
	Required back up heating cap at design conditions		kW	0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	4.2	5
		EERd		3.99	3.68
		Power input	kW	1.05	1.36
	B Condition (30°C - 27/19)	Pdc	kW	3.1	3.69
		EERd		5.58	5.28
		Power input	kW	0.56	0.7
	C Condition (25°C - 27/19)	Pdc	kW	1.99	2.37
		EERd		9.35	9.24
		Power input	kW	0.21	0.26
	D Condition (20°C - 27/19)	Pdc	kW	1.86	1.87
		EERd		12.08	12.03
		Power input	kW	0.15	0.16

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42CS + RXA42B8	FTXA50CS + RXA50B8
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10	
	TBivalent	Tbiv (bivalent temperature)		°C	-7	
		Pdh (declared heating cap)		kW	3.37	3.54
		COPd (declared COP)			3.16	
		Power input		kW	1.07	1.12
	A Condition (-7°C)	Pdh (declared heating cap)		kW	3.37	3.54
		COPd (declared COP)			3.16	
		Power input		kW	1.07	1.12
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Space heating (Average climate)	E condition (-10°C)	Pdh (declared heating cap)		kW	3.04	3.19
		COPd (declared COP)			2.98	
		Power input		kW	1.02	1.07
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	2	
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	
			Heating	W	13	
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62	
	Sound power level indoor	Cooling	Nom.	dBA	60	
	Piping length	Cooling	Measuring condition	m	5	

Electrical specifications				FTXA42CS + RXA42B8	FTXA50CS + RXA50B8
Power factor	Nominal	Cooling	%	93.4	95.3
		Heating	%	95.5	96.5
Current - 50Hz	Maximum fuse amps (MFA)		A	13	
	Minimum circuit amps (MCA)		A	12.84	
Power supply	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Max.		%	10	
	Min.		%	-10	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range

2 Specifications

2 - 1 Specifications

Technical specifications				FTXA42CW + RXA42B8	FTXA50CW + RXA50B8
Cooling capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	4.2	5
	Nom.		Btu/h	14,300	17,100
	Nom.		kcal/h	3,611	4,299
	Max.		kW	5	5.3
	Max.		Btu/h	17,100	18,100
	Max.		kcal/h	4,299	4,557
Heating capacity	Min.		kW	1.7	
	Min.		Btu/h	5,800	
	Min.		kcal/h	1,462	
	Nom.		kW	5.4	5.8
	Nom.		Btu/h	18,400	19,800
	Nom.		kcal/h	4,643	4,987
	Max.		kW	6	6.5
	Max.		Btu/h	20,500	22,200
	Max.		kcal/h	5,159	5,589
Power input	Cooling	Nom.	kW	1.05	1.36
	Heating	Nom.	kW	1.31	1.45
Nominal efficiency	EER			3.99	3.68
	COP			4.12	4
	Annual energy consumption		kWh	526	679
	Energy labeling Directive	Cooling		A	
		Heating		A	
Space cooling	Energy efficiency class			A++	
	Capacity	Pdesign	kW	4.2	5
	SEER			7.5	7.33
	Annual energy consumption		kWh/a	196	239
Space heating (Average climate)	Capacity	Pdesign	kW	3.8	4
	Energy efficiency class			A++	
	SCOP/A			4.6	
	SCOPnet/A			4.65	
	Pdh Heating capacity at -10°		kW	3.04	3.19
Space heating (Average climate)	Annual energy consumption		kWh/a	1,156	1,218
	Required back up heating cap at design conditions		kW	0.76	0.81
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.05	2.16
	Energy efficiency class			A+++	
	SCOP			5.87	5.86
	SCOPnet			5.99	5.97
	Annual energy consumption		kWh/a	489	516
	Required back up heating cap at design conditions		kW	0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	4.2	5
		EERd		3.99	3.68
		Power input	kW	1.05	1.36
	B Condition (30°C - 27/19)	Pdc	kW	3.1	3.69
		EERd		5.58	5.28
		Power input	kW	0.56	0.7
	C Condition (25°C - 27/19)	Pdc	kW	1.99	2.37
		EERd		9.35	9.24
		Power input	kW	0.21	0.26
	D Condition (20°C - 27/19)	Pdc	kW	1.86	1.87
		EERd		12.08	12.03
		Power input	kW	0.15	0.16
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10	
	TBivalent	Tbiv (bivalent temperature)	°C	-7	
		Pdh (declared heating cap)	kW	3.37	3.54
		COPd (declared COP)		3.16	
		Power input	kW	1.07	1.12
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.37	3.54
		COPd (declared COP)		3.16	
		Power input	kW	1.07	1.12
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.05	2.16
		COPd (declared COP)		4.47	4.46
		Power input	kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.65	1.71
		COPd (declared COP)		6.33	6.32
		Power input	kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.52	
		COPd (declared COP)		7.35	7.25
		Power input	kW	0.21	

2 Specifications

2 - 1 Specifications

Technical specifications					FTXA42CW + RXA42B8	FTXA50CW + RXA50B8
Space heating (Average climate)	E condition (-10°C)	Pdh (declared heating cap)		kW	3.04	3.19
		COPd (declared COP)			2.98	
		Power input		kW	1.02	1.07
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	2	
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.05	2.16
		COPd (declared COP)			4.47	4.46
		Power input		kW	0.46	0.48
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.65	1.71
		COPd (declared COP)			6.33	6.32
		Power input		kW	0.26	0.27
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.52	
		COPd (declared COP)			7.35	7.25
		Power input		kW	0.21	
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	
			Heating	W	13	
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62	
	Sound power level indoor	Cooling	Nom.	dBA	60	
	Piping length	Cooling	Measuring condition	m	5	

Electrical specifications				FTXA42CW + RXA42B8	FTXA50CW + RXA50B8
Power factor	Nominal	Cooling	%	93.4	95.3
		Heating	%	95.5	96.5
Current - 50Hz	Maximum fuse amps (MFA)		A	13	
	Minimum circuit amps (MCA)		A	12.84	
Power supply	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Max.		%	10	
	Min.		%	-10	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range

3 Electrical data

3 - 1 Electrical Data

RXA42-50B8

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Outdoor unit	Indoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
RXA42B5V1B8	FTXA42A2V1BW	50	220	Max. 50Hz 264V Min. 50Hz 198V	12.46	13	45	4.1	0.066	0.83	0.052	0.50
		50	230					3.9				
		50	240					3.6				
RXA42B5V1B8	FTXA42B2V1BS/B/T	50	220	Max. 50Hz 264V Min. 50Hz 198V	12.46	13	45	4.1	0.066	0.83	0.052	0.50
		50	230					3.9				
		50	240					3.6				
RXA42B5V1B8	FTXA42C2V1BW/S/B	50	220	Max. 50Hz 264V Min. 50Hz 198V	12.46	13	45	4.1	0.066	0.83	0.052	0.50
		50	230					3.9				
		50	240					3.6				
RXA50B5V1B8	FTXA50A2V1BW	50	220	Max. 50Hz 264V Min. 50Hz 198V	12.46	13	59	5.4	0.066	0.83	0.056	0.50
		50	230					5.2				
		50	240					5.1				
RXA50B5V1B8	FTXA50B2V1BS/B/T	50	220	Max. 50Hz 264V Min. 50Hz 198V	12.46	13	59	5.4	0.066	0.83	0.056	0.50
		50	230					5.2				
		50	240					5.1				
RXA50B5V1B8	FTXA50C2V1BW/S/B	50	220	Max. 50Hz 264V Min. 50Hz 198V	12.46	13	59	5.4	0.066	0.83	0.056	0.50
		50	230					5.2				
		50	240					5.1				

SYMBOLS

MCA:	Minimum Circuit Amperes	[A]
MFA:	Maximum Fuse Amperes	[A]
COMP:	Compressor	
RHz:	Rated operating frequency	[Hz]
RLA:	Rated Load Amperes	[A]
OFM:	Outdoor fan motor	
IFM:	Indoor fan motor	
kW:	Fan motor rated output	[kW]
FLA:	Full Load Amperes	[A]
Max.:	Maximum	
Min.:	Minimum	

NOTES

1. The RLA is based on the following conditions.
   - Outdoor temperature ·35·°C DB
   - Indoor temperature ·27·°C DB / ·19·°C WB
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.

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXA42A2V1BW + RXA42B2V1B / FTXA42A2V1BW + RXA42B5V1B8
FTXA42B2V1B(S/B/T) + RXA42B2V1B / FTXA42B2V1B(S/B/T) + RXA42B5V1B8
FTXA42C2V1B(W/S/B) + RXA42B5V1B9 / FTXA42C2V1B(W/S/B) + RXA42B5V1B8
FTXA42A2V1BW + RXA42B5V1B9 / FTXA42B2V1B(S/B/T) + RXA42B5V1B9

Cooling: 50Hz 220 - 240V

AFR	13.1
BF	0.225

Indoor air temperature		Outdoor Temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.17	3.25	0.79	4.11	3.23	0.88	3.91	3.18	0.96	3.83	3.17	0.99	3.72	3.15	1.04	3.52	3.14	1.12
16	22	4.50	3.13	0.81	4.30	3.06	0.89	4.11	3.01	0.97	4.03	2.99	1.00	3.91	2.96	1.05	3.71	2.93	1.12
18	25	4.69	3.30	0.82	4.49	3.26	0.89	4.30	3.23	0.97	4.22	3.22	1.00	4.10	3.21	1.05	3.91	3.21	1.13
19	27	4.79	3.59	0.82	4.59	3.58	0.90	4.40	3.59	0.97	4.32	3.60	1.01	4.20	3.62	1.05	4.00	3.69	1.13
22	30	5.08	3.24	0.83	4.88	3.21	0.90	4.69	3.19	0.98	4.61	3.18	1.01	4.49	3.18	1.06	4.29	3.20	1.14
24	32	5.27	3.02	0.83	5.07	2.99	0.91	4.88	2.96	0.99	4.80	2.95	1.02	4.68	2.94	1.06	4.49	2.93	1.14

Heating: 50Hz 220 - 240V

AFR	14.6

Indoor air temperature	Outdoor temperature [°C WB]											
EDB	-15		-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	2.57	0.84	3.09	0.97	3.61	0.97	4.13	1.22	5.59	1.28	6.07	1.32
20	2.41	0.87	2.93	1.00	3.45	1.00	3.97	1.25	5.40	1.31	5.89	1.35
22	2.35	0.88	2.87	1.01	3.39	1.01	3.90	1.26	5.33	1.32	5.81	1.37
24	2.29	0.89	2.80	1.02	3.32	1.02	3.84	1.27	5.25	1.33	5.74	1.38
25	2.25	0.89	2.77	1.02	3.29	1.02	3.81	1.28	5.21	1.34	5.70	1.38
27	2.19	0.90	2.71	1.03	3.23	1.03	3.75	1.29	5.14	1.35	5.63	1.40

Heating capacity at nominal operating frequency, measured according to ·EN 14511·.

Indoor air temperature	Outdoor Temperature [°C WB]											
EDB	-15		-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
20	3.47	1.20	4.07	1.27	3.88	1.34	4.37	1.41	6.00	1.49	6.48	1.55

Heating capacity at maximum operating frequency, measured according to EN 14511

SYMBOLS

AFR	: Air flow rate	[m^3/min]
BF	: Bypass factor	
EWB	: Entering wet-bulb temperature	[°C WB]
EDB	: Entering dry-bulb temperature	[°C DB]
TC	: Total capacity	[kW]
SHC	: Sensible heat capacity	[kW]
PI	: Power input	[kW]

NOTES

1. The bold cells indicate the standard conditions.
2. The capacities are based on the following conditions:
   - Corresponding refrigerant piping length: ·5· m
   - Level difference: ·0·m
3. The air flow rate and bypass factor are mentioned in the table.
4. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
5. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).

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FTXA50A2V1BW + RXA50B2V1B / FTXA50A2V1BW + RXA50B5V1B8
FTXA50B2V1B(S/B/T) + RXA50B2V1B / FTXA50B2V1B(S/B/T) + RXA50B5V1B8
FTXA50C2V1B(W/S/B) + RXA50B5V1B / FTXA50C2V1B(W/S/B) + RXA50B5V1B8
FTXA50A2V1BW + RXA50B5V1B / FTXA50B2V1B(S/B/T) + RXA50B5V1B

Cooling: 50Hz 220 - 240V

AFR	13.5
BF	0.170

Indoor air temperature		Outdoor Temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.60	3.75	0.97	4.60	3.75	1.10	4.60	3.75	1.23	4.56	3.74	1.28	4.42	3.72	1.34	4.19	3.70	1.44
16	22	5.35	3.71	1.05	5.12	3.63	1.15	4.89	3.56	1.25	4.79	3.53	1.29	4.65	3.50	1.35	4.42	3.46	1.45
18	25	5.58	3.90	1.05	5.35	3.85	1.15	5.12	3.81	1.26	5.02	3.80	1.30	4.88	3.78	1.36	4.65	3.78	1.46
19	27	5.70	4.24	1.06	5.47	4.22	1.16	5.23	4.22	1.26	5.14	4.23	1.30	5.00	4.25	1.36	4.77	4.32	1.46
22	30	6.04	3.83	1.07	5.81	3.79	1.17	5.58	3.76	1.27	5.49	3.75	1.31	5.35	3.75	1.37	5.11	3.76	1.47
24	32	6.27	3.58	1.07	6.04	3.53	1.17	5.81	3.49	1.27	5.72	3.48	1.31	5.58	3.47	1.37	5.34	3.46	1.47

Heating: 50Hz 220 - 240V

AFR	15.1

Indoor air temperature	Outdoor Temperature [°C WB]											
EDB	-15		-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	2.76	0.93	3.32	1.08	3.88	1.08	4.43	1.35	6.00	1.42	6.52	1.47
20	2.59	0.96	3.15	1.10	3.71	1.10	4.26	1.38	5.80	1.45	6.32	1.50
22	2.52	0.97	3.08	1.11	3.64	1.11	4.19	1.39	5.72	1.46	6.24	1.51
24	2.46	0.98	3.01	1.12	3.57	1.12	4.13	1.40	5.64	1.48	6.16	1.52
25	2.42	0.99	2.98	1.13	3.54	1.13	4.09	1.41	5.60	1.48	6.12	1.53
27	2.35	1.00	2.91	1.14	3.47	1.14	4.02	1.42	5.52	1.50	6.04	1.54

Heating capacity at nominal operating frequency, measured according to ·EN 14511·.

SYMBOLS

AFR	: Air flow rate	(m^3/min)
BF	: Bypass factor	
EWB	: Entering wet-bulb temperature	(°C WB)
EDB	: Entering dry-bulb temperature	(°C DB)
TC	: Total capacity	(kW)
SHC	: Sensible heat capacity	(kW)
PI	: Power input	(kW)

NOTES

1. The bold cells indicate the standard conditions.
2. The capacities are based on the following conditions:
   - Corresponding refrigerant piping length: ·5· m
   - Level difference: ·0·m
3. The air flow rate and bypass factor are mentioned in the table.
4. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
5. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).

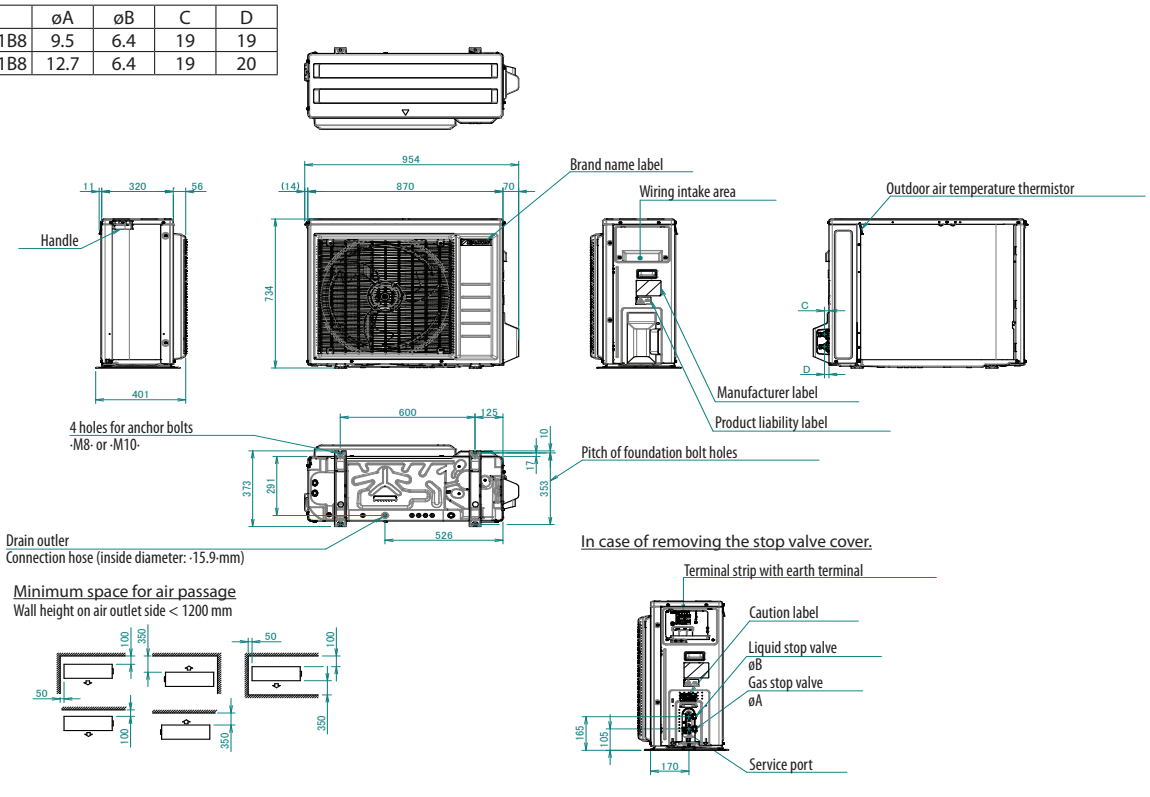
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5 Dimensional drawings

5 - 1 Dimensional Drawings

RXA42-50B8

Model	øA	øB	C	D
RXA42B5V1B8	9.5	6.4	19	19
RXA50B5V1B8	12.7	6.4	19	20

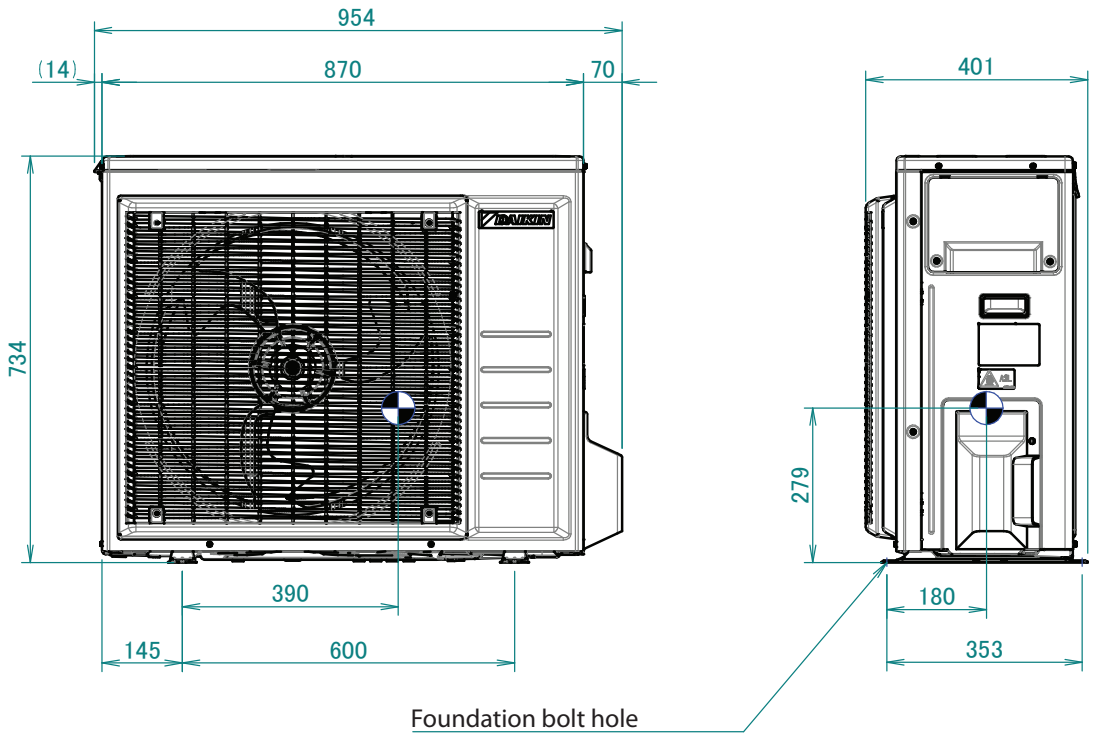


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6 Centre of gravity

6 - 1 Centre of Gravity

RXA42-50B8

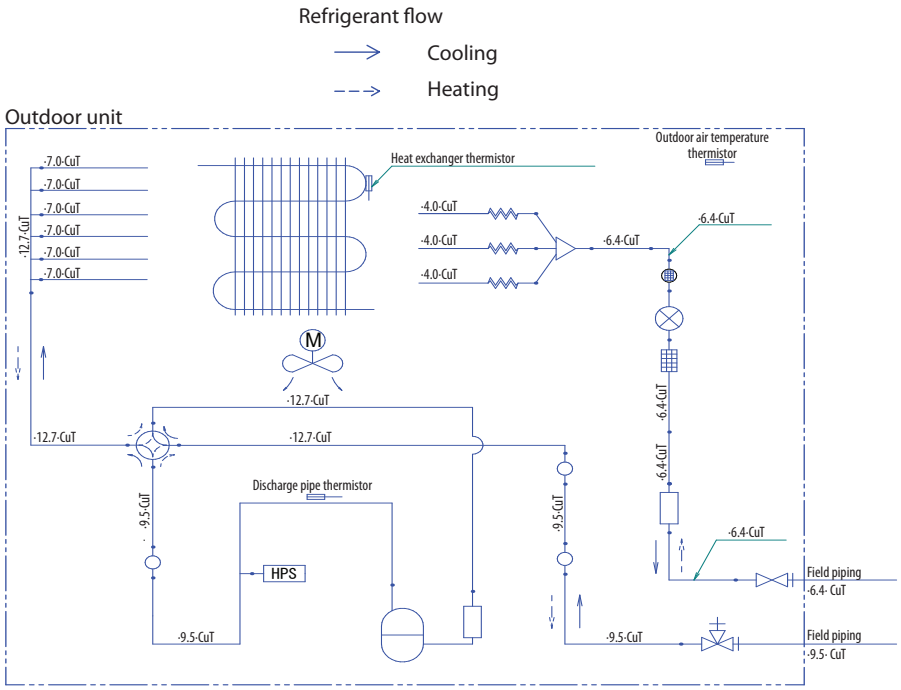


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7 Piping diagrams

7 - 1 Piping Diagrams

RXA42B8

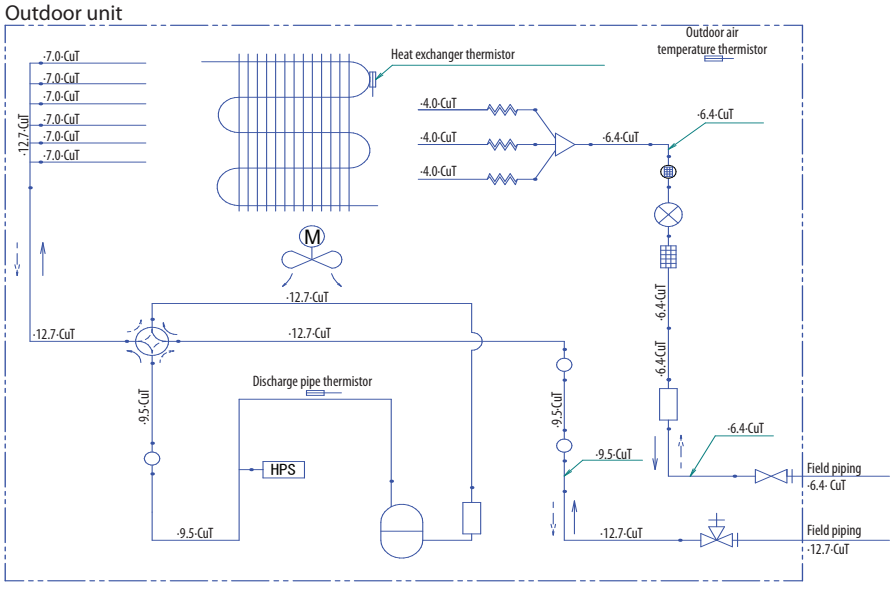


Legend

- Liquid stop valve
- Gas stop valve
- Muffler
- Muffler with filter
- Electronic expansion valve
- Filter
- Propeller fan
- High pressure switch Automatic reset
- Thermistor
- Capillary tube
- 4-way valve ON: heating
- Accumulator
- Compressor
- Heat exchanger
- Distributor

3D151308

RXA50B8



Legend

- Liquid stop valve
- Gas stop valve
- Muffler
- Muffler with filter
- Electronic expansion valve
- Filter
- Propeller fan
- High pressure switch Automatic reset
- Thermistor
- Capillary tube
- 4-way valve ON: heating
- Accumulator
- Compressor
- Heat exchanger
- Distributor

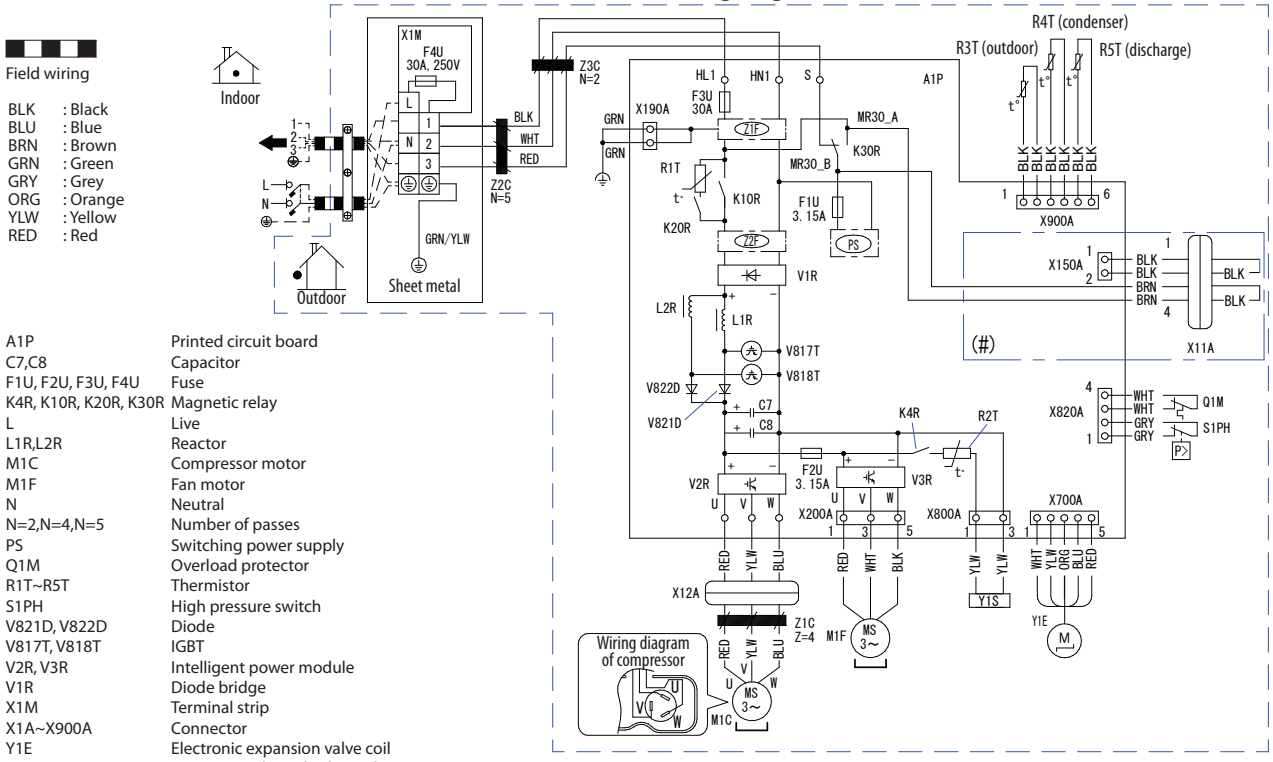
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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

RXA42-50B8

Wiring diagram



A1P	Printed circuit board
C7,C8	Capacitor
F1U, F2U, F3U, F4U	Fuse
K4R, K10R, K20R, K30R	Magnetic relay
L	Live
L1R,L2R	Reactor
M1C	Compressor motor
M1F	Fan motor
N	Neutral
N=2,N=4,N=5	Number of passes
PS	Switching power supply
Q1M	Overload protector
R1T~R5T	Thermistor
S1PH	High pressure switch
V821D, V822D	Diode
V817T, V818T	IGBT
V2R, V3R	Intelligent power module
V1R	Diode bridge
X1M	Terminal strip
X1A~X900A	Connector
Y1E	Electronic expansion valve coil
Y1S	Reversing solenoid valve coil
Z1C, Z2C, Z3C	Ferrite core
Z1F, Z2F	Noise filter
⏚	Protective earth
⏚	Noiseless earth

NOTES

1. Refer to the nameplate for the power requirements.
2. Do not remove or replace fuse when the units are energized.
3. (#) Only for the units with the suspend connector specified in the installation manual.

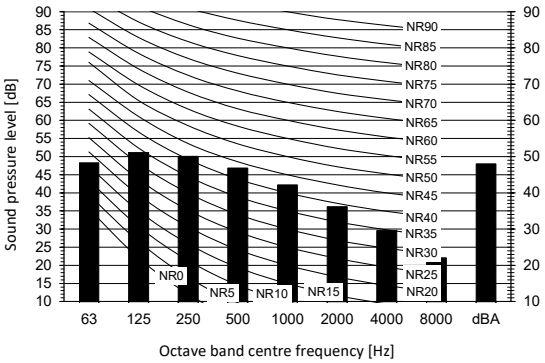
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9 Sound data

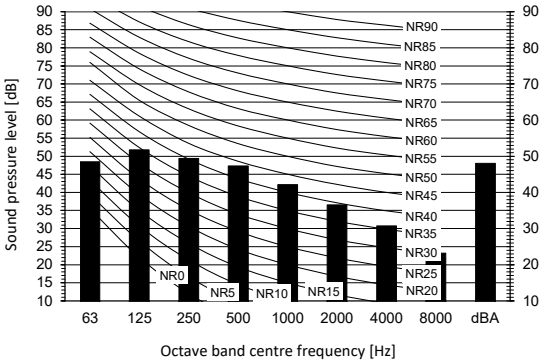
9 - 1 Sound Pressure Spectrum

RXA42B8

Cooling mode



Heating mode



Cooling
Total dB

A	B
dBA	48

Heating
Total dB

A	B
dBA	48

Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

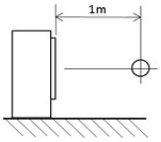
A Scale

B Fan speed: High

Notes

1. Operating conditions: power source ·220-240·V ·50·Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

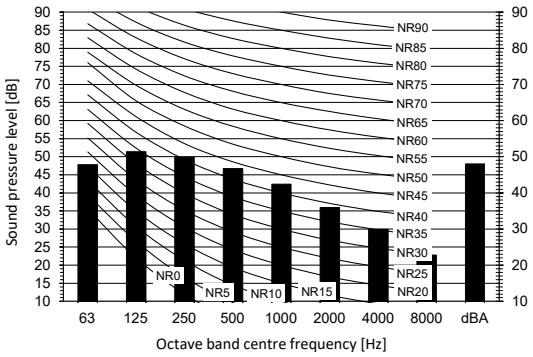
Location of microphone



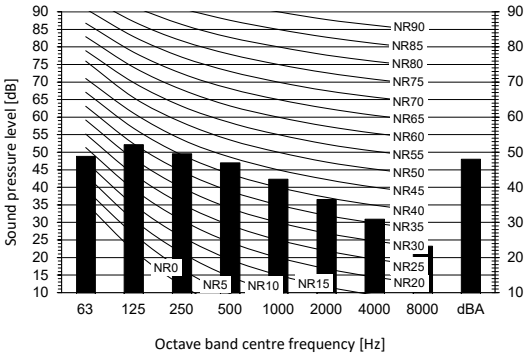
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RXA50B8

Cooling mode



Heating mode



Cooling
Total dB

A	B
dBA	48

Heating
Total dB

A	B
dBA	48

Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

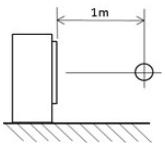
A Scale

B Fan speed: High

Notes

1. Operating conditions: power source ·220-240·V ·50·Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

Location of microphone



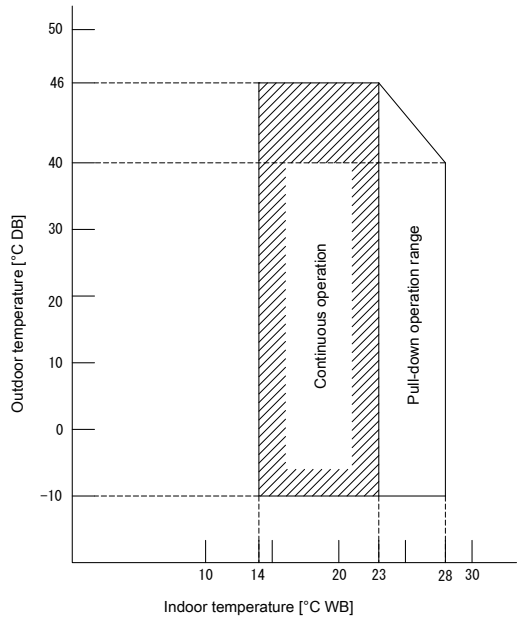
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10 Operation range

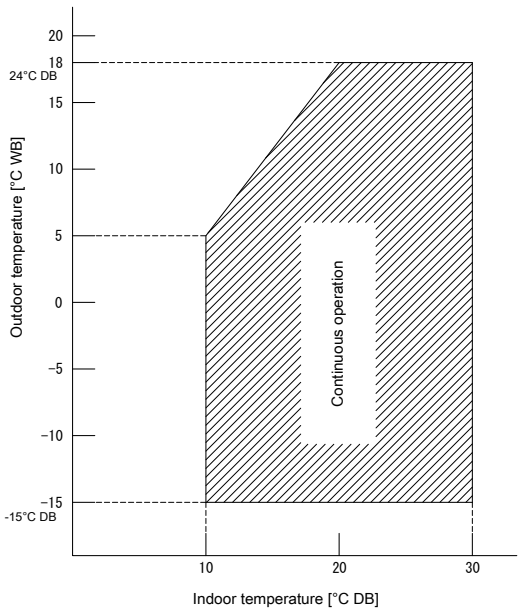
10 - 1 Operation Range

RXA42-50B8

Cooling



Heating



Notes

1. The graphs is based on the following conditions.
   Corresponding refrigerant piping length: 5 m
   Level difference: 0m
   Air flow rate High

3D100846E

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EEDEN24 10/2024

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