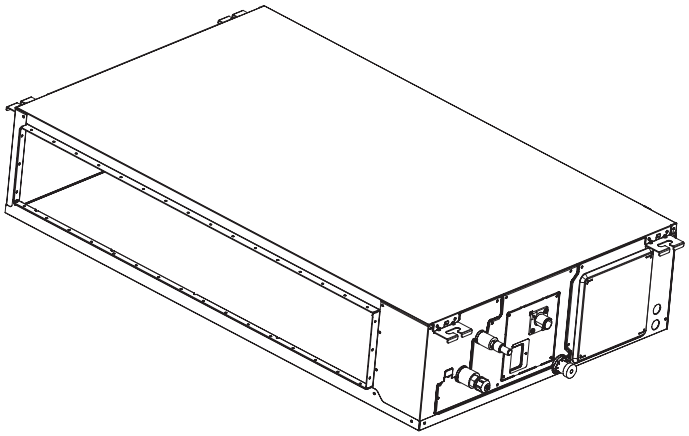
# TECHNICAL MANUAL

## DUCT R32 3D INVERTER CONTROL



INDOOR UNIT

**MTJ-09HWFNX-QRD1W(GA)**
**MTJ-12HWFNX-QRD1W(GA)**
**MTJ-18HWFNX-QRD1W(GA)**
**MTJ-24HWFNX-QRD1W(GA)**
**MTJ-30HWFNX-QRD1W(GA)**
**MTJ-36HWFNX-QRD0W(GA)**
**MTJ-42HWFNX-QRD0W(GA)**
**MTJ-48HWFNX-QRD0W(GA)**
**MTJ-55HWFNX-QRD0W(GA)**

OUTDOOR UNIT

**MOX230-09HFN8-QRD1W(GA)**
**MOX230-12HFN8-QRD0W(GA)**
**MOX330U-18HFN8-QRD0W(GA)**
**MOX430U-24HFN8-QRD1W(GA)**
**MOD30U-30HFN8-QRD1W(GA)**
**MOD30U-36HFN8-QRD0W(GA)**
**MOD30U-36HFN8-RRD0W(GA)**
**MOD30U-42HFN8-QRD0W(GA)**
**MOX630U-48HFN8-QRD0W(GA)**
**MOX630U-48HFN8-RRD0W(GA)**
**MOX630U-55HFN8-RRD0W(GA)**

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# 1. Specifications

## 1.1 Technical Specifications

| Indoor model | | | MTJ-09HWFNX-QRD1W(GA) | MTJ-12HWFNX-QRD1W(GA) |
|---|---|---|---|---|
| Outdoor model | | | MOX230-09HFN8-QRD1W(GA) | MOX230-12HFN8-QRD0W(GA) |
| Power supply (Indoor ) | | V- Ph-Hz | 220~240-1-50 | 220~240-1-50 |
| Power Supply (Outdoor) | | V-Ph-Hz | 220~240-1-50 | 220~240-1-50 |
| Rated Power Input | | W | 1820 | 1850 |
| Rated Current | | A | 8.5 | 9 |
| Indoor fan motor | Model | | ZKFN-81-8-1 | ZKFN-81-8-1 |
| | Qty | | 1 | 1 |
| | Insulation class | | B | B |
| | IP rating | | IP20 | IP20 |
| | Output | W | 81 | 81 |
| | Capacitor | uF | / | / |
| | Speed(Hi/Mi/Lo) | r/min | 1130/1047/965 | 1140/1052/965 |
| Indoor coil | Number of rows | | 3 | 3 |
| | Tube pitch(a)x row pitch(b) | mm | 21x13.37 | 19.5*11.6 |
| | Fin spacing | mm | 1.4 | 1.3 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ7,Inner groove tube | Φ5,Inner groove tube |
| | Coil length x height x width | mm | 525x210x40.11 | 525*23.2*214.5 |
| | Number of circuits | | 3 | 5 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 620/540/450 | 660/570/470 |
| ESP | Rated | Pa | 25 | 25 |
| | Range | Pa | 0-100 | 0-100 |
| Indoor sound pressure level Hi/Mi/Lo) | | dB(A) | 35/33/31/27 | 35/33/31/26 |
| Indoor sound power level | | dB(A) | 52 | 52 |
| Indoor unit | Dimension(W*D*H) | mm | 700x506x200 | 700x506x200 |
| | Packing (W*D*H) | mm | 860x540x285 | 860x540x285 |
| | Net/Gross weight | kg | 16.6/19.8 | 16.6/19.8 |
| Drainage water pipe diameter | | mm | ODΦ25mm | ODΦ25mm |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ6.35/Φ9.52(1/4"/3/8") | Φ6.35/Φ9.52(1/4"/3/8") |
| Controller | | | Wired control | Wired control |
| Operation temperature | | °C | 16-30 | 16-30 |
| Room temperature | Cooling | °C | 16~32 | 16~32 |
| | Heating | °C | 0~30 | 0~30 |
| Qty'per 20' /40' /40'HQ | | Indoor unit | 214/461/519 | 214/461/519 |
| Compressor | Model | | KSK103D33UEZ3 | KSN98D64UFZ3 |
| | Type | | ROTARY | ROTARY |
| | Brand | | GMCC | GMCC |
| | Capacity | W | 2035/3255 | 1930/3100 ±3% |
| | Input | W | 325/826 | 292/765 ±3% |
| | Rated current(RLA) | A | 2.40/5.65 | 2.15/4.65 ±3% |
| | Refrigerant oil/oil charge | ml | ESTER OIL VG74 310 | ESTER OIL VG74 300±10 |
| Outdoor fan motor | Model | | ZKFN-34-10-1L | ZKFN-34-10-1-3 |
| | Qty | | 1 | 1 |
| | Insulation class | | B | B |
| | IP rating | | IP24 | IP24 |
| | Output | W | 34 | 34 |
| | Capacitor | uF | / | / |
| | Speed | r/min | 780/600 | 780/600 |

| | | | | |
|---|---|---|---|---|
| Outdoor coil | Number of rows | | 1 | 1 |
| | Tube pitch(a)x row pitch(b) | mm | 21x22 | 21x22 |
| | Fin spacing | mm | 1.3 | 1.3 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ7,Inner groove tube | Φ7,Inner groove tube |
| | Coil length x height x width | mm | 745*504*22 | 745*504*22 |
| | Number of circuits | | 2 | 2 |
| Outdoor air flow | | m3/h | 2200 | 2200 |
| Outdoor sound pressure level | | dB(A) | 53 | 55.5 |
| Outdoor sound power level | | dB(A) | 62 | 62 |
| Throttle type | | | EXV | EXV |
| Outdoor unit | Dimension(W*D*H) | mm | 765x303x555 | 765x303x555 |
| | Packing (W*D*H) | mm | 887x337x610 | 887x337x610 |
| | Net/Gross weight | kg | 24.6/27 | 26.6/29 |
| Refrigerant type | Type | - | R32 | R32 |
| | GWP | - | 675 | 675 |
| | Charged quantity | kg | 0.65 | 0.71 |
| Design pressure | | MPa | 4.3/1.7 | 4.3/1.7 |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ6.35/Φ9.52(1/4"/3/8") | Φ6.35/Φ9.52(1/4"/3/8") |
| | Max. refrigerant pipe length | m | 25 | 25 |
| | Max. difference in level | m | 10 | 10 |
| Ambient temperature | Cooling | °C | -15~50 | -15~50 |
| | Heating | °C | -20~24 | -20~24 |
| Qty'per 20' /40' /40'HQ | | Outdoor unit | 132/264/352 | 132/264/352 |

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB
-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB
-Interconnecting Piping Length 5m
- Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB
-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB
- Interconnecting Piping Length 5 m
- Level Difference of Zero.

2) Capacities are Net Capacities.

3) Due to our policy of innovation some specifications may be changed without notification.

4) TDB Summer Outdoor: 35°C; TWB Summer Outdoor: 21,4°C; TDB Winter Outdoor: -0.8°C; RH Winter Outdoor: 90%.

| Indoor model | | | MTJ-18HWFNX-QRD1W(GA) | MTJ-24HWFNX-QRD1W(GA) |
|---|---|---|---|---|
| Outdoor model | | | MOX330U-18HFN8-QRD0W(GA) | MOX430U-24HFN8-QRD1W(GA) |
| Power supply (Indoor ) | | V- Ph-Hz | 220~240-1-50 | 220~240-1-50 |
| Power Supply (Outdoor) | | V-Ph-Hz | 220~240-1-50 | 220~240-1-50 |
| Rated Power Input | | W | 2950 | 3700 |
| Rated Current | | A | 13.5 | 19 |
| Indoor fan motor | Model | | ZKFN-81-8-1 | ZKFN-165-10-1L |
| | Qty | | 1 | 1 |
| | Insulation class | | B | B |
| | IP rating | | IP20 | IP20 |
| | Output | W | 81 | 165 |
| | Capacitor | uF | / | / |
| | Speed(Hi/Mi/Lo) | r/min | 1000/900/800 | 950/850/750 |
| Indoor coil | Number of rows | | 3 | 3 |
| | Tube pitch(a)x row pitch(b) | mm | 19.5*11.6 | 19.5*11.6 |
| | Fin spacing | mm | 1.2 | 1.2 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ5,Inner groove tube | Φ5,Inner groove tube |
| | Coil length x height x width | mm | 525*351*34.8 | 825*351*34.8 |
| | Number of circuits | | 6 | 9 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 900/780/650 | 1200/1000/700 |
| ESP | Rated | Pa | 25 | 25 |
| | Range | Pa | 0-160 | 0-160 |
| Indoor sound pressure level Hi/Mi/Lo) | | dB(A) | 36.5/34/31 | 33.5/32.5/31 |
| Indoor sound power level | | dB(A) | 53 | 56 |
| Indoor unit | Dimension(W*D*H) | mm | 700x750x245 | 1000x750x245 |
| | Packing (W*D*H) | mm | 925x850x298 | 1225x860x304 |
| | Net/Gross weight | kg | 24.4/29 | 31.8/37.2 |
| Drainage water pipe diameter | | mm | ODΦ25mm | ODΦ25mm |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ6.35/Φ12.7(1/4"/1/2") | Φ9.52/Φ15.9(3/8"/5/8") |
| Controller | | | Wired control | Wired control |
| Operation temperature | | °C | 16-30 | 16-30 |
| Room temperature | Cooling | °C | 16~32 | 16~32 |
| | Heating | °C | 0~30 | 0~30 |
| Qty'per 20' /40' /40'HQ | | Indoor unit | 96/224/252 | 70/154/176 |
| Compressor | Model | | KSN140D21UFZ | KTM240D46UKT2 |
| | Type | | ROTARY | ROTARY |
| | Brand | | GMCC | GMCC |
| | Capacity | W | 4385 | 4780/7600 |
| | Input | W | 1140 | 805/2045 |
| | Rated current(RLA) | A | 7.50 | 4.15/9.30 |
| | Refrigerant oil/oil charge | ml | VG74 440 | VG74 620 |
| Outdoor fan motor | Model | | ZKFN-34-10-1-3 | ZKFN-80-8-3 |
| | Qty | | 1 | 1 |
| | Insulation class | | B | E |
| | IP rating | | IP24 | IPX4 |
| | Output | W | 34 | 80 |
| | Capacitor | uF | / | / |
| | Speed | r/min | 760/650 | 830/550 |

| | | | | |
|---|---|---|---|---|
| Outdoor coil | Number of rows | | 2 | 1.6 |
| | Tube pitch(a)x row pitch(b) | mm | 21x22 | 21x22 |
| | Fin spacing | mm | 1.3 | 1.3 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ7,Inner groove tube | Φ7,Inner groove tube |
| | Coil length x height x width | mm | 860*504*44 | 900*609*22+540*609*22 |
| | Number of circuits | | 4 | 5 |
| Outdoor air flow | | m3/h | 2100 | 3500 |
| Outdoor sound pressure level | | dB(A) | 59 | 60 |
| Outdoor sound power level | | dB(A) | 62 | 69 |
| Throttle type | | | EXV | EXV+Throttle valve |
| Outdoor unit | Dimension(W*D*H) | mm | 805x330x554 | 890x342x673 |
| | Packing (W*D*H) | mm | 915x370x615 | 995x398x740 |
| | Net/Gross weight | kg | 32.5/35.2 | 41.9/45.2 |
| Refrigerant type | Type | - | R32 | R32 |
| | GWP | - | 675 | 675 |
| | Charged quantity | kg | 1.15 | 1.4 |
| Design pressure | | MPa | 4.3/1.7 | 4.3/1.7 |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ6.35/Φ12.7(1/4"/1/2") | Φ9.52/Φ15.9(3/8"/5/8") |
| | Max. refrigerant pipe length | m | 30 | 50 |
| | Max. difference in level | m | 20 | 25 |
| Ambient temperature | Cooling | °C | -15~50 | -15~50 |
| | Heating | °C | -20~24 | -20~24 |
| Qty'per 20' /40' /40'HQ | | Outdoor unit | 114/234/312 | 99/198/198 |

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB
-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB
-Interconnecting Piping Length 5m
- Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB
-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB
- Interconnecting Piping Length 5 m
- Level Difference of Zero.

2) Capacities are Net Capacities.

3) Due to our policy of innovation some specifications may be changed without notification.

4) TDB Summer Outdoor: 35°C; TWB Summer Outdoor: 21,4°C; TDB Winter Outdoor: -0.8°C; RH Winter Outdoor: 90%.

| Indoor model | | | MTJ-30HWFNX-QRD1W(GA) | MTJ-36HWFNX-QRD0W(GA) | MTJ-36HWFNX-QRD0W(GA) |
|---|---|---|---|---|---|
| Outdoor model | | | MOD30U-30HFN8-QRD1W(GA) | MOD30U-36HFN8-QRD0W(GA) | MOD30U-36HFN8-RRD0W(GA) |
| Power supply (Indoor ) | | V- Ph-Hz | 220~240-1-50 | 220~240-1-50 | 220~240-1-50 |
| Power Supply (Outdoor) | | V-Ph-Hz | 220~240-1-50 | 220~240-1-50 | 380~415-3-50 |
| Rated Power Input | | W | 4500 | 5000 | 5000 |
| Rated Current | | A | 20 | 22.5 | 10.0 |
| Indoor fan motor | Model | | ZKFN-165-10-1L | ZKFN-400-8-1 | ZKFN-400-8-1 |
| | Qty | | 1 | 1 | 1 |
| | Insulation class | | B | B | B |
| | IP rating | | IP20 | IP20 | IP20 |
| | Output | W | 165 | 400 | 400 |
| | Capacitor | uF | / | / | / |
| | Speed(Hi/Mi/Lo) | r/min | 1180/1040/910 | 1120/1000/880 | 1120/1000/880 |
| Indoor coil | Number of rows | | 4 | 3 | 3 |
| | Tube pitch(a)x row pitch(b) | mm | 19.5*11.6 | 21x13.37 | 21x13.37 |
| | Fin spacing | mm | 1.2 | 1.3 | 1.3 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ5,Inner groove tube | Φ7,Inner groove tube | Φ7,Inner groove tube |
| | Coil length x height x width | mm | 825*351*46.4 | 1025*378*40.11 | 1025*378*40.11 |
| | Number of circuits | | 9 | 9 | 9 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 1500/1200/900 | 1700/1400/1100 | 1700/1400/1100 |
| ESP | Rated | Pa | 37 | 37 | 37 |
| | Range | Pa | 0-160 | 0-160 | 0-160 |
| Indoor sound pressure level Hi/Mi/Lo) | | dB(A) | 39/37/35 | 38/36/33 | 39/37/34 |
| Indoor sound power level | | dB(A) | 60 | 62 | 62 |
| Indoor unit | Dimension(W*D*H) | mm | 1000x750x245 | 1200x750x245 | 1200x750x245 |
| | Packing (W*D*H) | mm | 1225x860x304 | 1425x860x304 | 1425x860x304 |
| | Net/Gross weight | kg | 32.7/38.3 | 38.4/44.4 | 38.4/44.4 |
| Drainage water pipe diameter | | mm | ODΦ25mm | ODΦ25mm | ODΦ25mm |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") |
| Controller | | | Wired control | Wired control | Wired control |
| Operation temperature | | °C | 16-30 | 16-30 | 16-30 |
| Room temperature | Cooling | °C | 16~32 | 16~32 | 16~32 |
| | Heating | °C | 0~30 | 0~30 | 0~30 |
| Qty'per 20' /40' /40'HQ | | Indoor unit | 70/154/176 | 70/147/168 | 70/147/168 |
| Compressor | Model | | KTM240D46UKT2 | KTF310D43UMT | KTF310D43UMT |
| | Type | | ROTARY | ROTARY | ROTARY |
| | Brand | | GMCC | GMCC | GMCC |
| | Capacity | W | 4780/7600 | 10010 | 10010 |
| | Input | W | 805/2045 | 2765 | 2765 |
| | Rated current(RLA) | A | 4.15/9.30 | 5.38 | 5.38 |
| | Thermal protector | | / | INT01L-4639 | INT01L-4639 |
| | Thermal protector position | | NA | EXTERNAL | EXTERNAL |
| | Refrigerant oil/oil charge | ml | VG74/620 | VG74/1000 | VG74/1000 |

| | | | | | |
|---|---|---|---|---|---|
| Outdoor fan motor | Model | | ZKFN-120-8-2 | ZKFN-120-8-2 | ZKFN-120-8-2 |
| | Qty | | 1 | 1 | 1 |
| | Insulation class | | E | E | E |
| | IP rating | | IPX4 | IPX4 | IPX4 |
| | Output | W | 120 | 120 | 120 |
| | Capacitor | uF | / | / | / |
| | Speed | r/min | 900/750/550 | 950/850/700 | 950/850/700 |
| Outdoor coil | Number of rows | | 1.6 | 2 | 2 |
| | Tube pitch(a)x row pitch(b) | mm | 25.4x22 | 25.4x22 | 25.4x22 |
| | Fin spacing | mm | 1.3 | 1.3 | 1.3 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ7Inner groove tube | Φ9.52,Inner groove tube | Φ9.52,Inner groove tube |
| | Coil length x height x width | mm | 995x762x44 | 995x762x44 | 995x762x44 |
| | Number of circuits | | 6 | 4 | 4 |
| Outdoor air flow | | m3/h | 3800 | 4000 | 4000 |
| Outdoor sound pressure level | | dB(A) | 60 | 65 | 65 |
| Outdoor sound power level | | dB(A) | 70 | 70 | 70 |
| Throttle type | | | EXV+Throttle valve | EXV+Throttle valve | EXV+Throttle valve |
| Outdoor unit | Dimension(W*D*H) | mm | 946x410x810 | 946x410x810 | 946x410x810 |
| | Packing (W*D*H) | mm | 1090x500x885 | 1090x500x885 | 1090x500x885 |
| | Net/Gross weight | kg | 51/55.7 | 66.9/71.5 | 75.5/80 |
| Refrigerant type | Type | - | R32 | R32 | R32 |
| | GWP | - | 675 | 675 | 675 |
| | Charged quantity | kg | 1.8 | 2.4 | 2.4 |
| Design pressure | | MPa | 4.3/1.7 | 4.3/1.7 | 4.3/1.7 |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") |
| | Max. refrigerant pipe length | m | 50 | 75 | 75 |
| | Max. difference in level | m | 25 | 30 | 30 |
| Ambient temperature | Cooling | °C | -15~50 | -15~50 | -15~50 |
| | Heating | °C | -20~24 | -20~24 | -20~24 |
| Qty'per 20' /40' /40'HQ | | Outdoor unit | 44/96/138 | 44/96/138 | 44/96/138 |

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB
-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB
-Interconnecting Piping Length 5m
- Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB
-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB
- Interconnecting Piping Length 5 m
- Level Difference of Zero.

2) Capacities are Net Capacities.

3) Due to our policy of innovation some specifications may be changed without notification.

4) TDB Summer Outdoor: 35°C; TWB Summer Outdoor: 21,4°C; TDB Winter Outdoor: -0.8°C; RH Winter Outdoor: 90%.

| Indoor model | | | MTJ-42HWFNX-QRD0W(GA) | MTJ-48HWFNX-QRD0W(GA) |
|---|---|---|---|---|
| Outdoor model | | | MOD30U-42HFN8-QRD0W(GA) | MOX630U-48HFN8-QRD0W(GA) |
| Power supply (Indoor ) | | V- Ph-Hz | 220~240-1-50 | 220~240-1-50 |
| Power Supply (Outdoor) | | V-Ph-Hz | 220~240-1-50 | 220~240-1-50 |
| Rated Power Input | | W | 5000 | 7300 |
| Rated Current | | A | 22.5 | 32 |
| Indoor fan motor | Model | | ZKFN-400-8-1 | ZKFN-400-8-1 |
| | Qty | | 1 | 1 |
| | Insulation class | | B | B |
| | IP rating | | IP20 | IP20 |
| | Output | W | 400 | 400 |
| | Capacitor | uF | / | / |
| | Speed(Hi/Mi/Lo) | r/min | 1350/1230/1110 | 1350/1230/1110 |
| Indoor coil | Number of rows | | 4 | 4 |
| | Tube pitch(a)x row pitch(b) | mm | 21x13.37 | 21x13.37 |
| | Fin spacing | mm | 1.4 | 1.4 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ7,Inner groove tube | Φ7,Inner groove tube |
| | Coil length x height x width | mm | 1025*378*53.48 | 1025*378*53.48 |
| | Number of circuits | | 9 | 9 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 2000/1700/1300 | 2000/1700/1300 |
| ESP | Rated | Pa | 50 | 50 |
| | Range | Pa | 0-160 | 0-160 |
| Indoor sound pressure level Hi/Mi/Lo) | | dB(A) | 39/37/35.5 | 46/44/42 |
| Indoor sound power level | | dB(A) | 62 | 64 |
| Indoor unit | Dimension(W*D*H) | mm | 1200x750x245 | 1200x750x245 |
| | Packing (W*D*H) | mm | 1425x860x304 | 1425x860x304 |
| | Net/Gross weight | kg | 40.6/46.1 | 40.4/46.8 |
| Drainage water pipe diameter | | mm | ODΦ25mm | ODΦ25mm |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") |
| Controller | | | Wired control | Wired control |
| Operation temperature | | °C | 16-30 | 16-30 |
| Room temperature | Cooling | °C | 16~32 | 16~32 |
| | Heating | °C | 0~30 | 0~30 |
| Qty'per 20' /40' /40'HQ | | Indoor unit | 70/147/168 | 70/147/168 |
| Compressor | Model | | KTF310D43UMT | KTQ420D1UMU |
| | Type | | ROTARY | ROTARY |
| | Brand | | GMCC | GMCC |
| | Capacity | W | 10010 | 13700 |
| | Input | W | 2765 | 3700 |
| | Rated current(RLA) | A | 5.38 | 7.02 |
| | Thermal protector | | INT01L-4639 | INT01L-4639 |
| | Thermal protector position | | EXTERNAL | EXTERNAL |
| | Refrigerant oil/oil charge | ml | VG74/1000 | VG74/1400 |
| Outdoor fan motor | Model | | ZKFN-120-8-2 | ZKFN-250-10-1 |
| | Qty | | 1 | 2 |
| | Insulation class | | E | B |
| | IP rating | | IPX4 | IP44 |
| | Output | W | 120 | 250 |
| | Capacitor | uF | / | / |
| | Speed | r/min | 950/750 | 850/400 |

| | | | | |
|---|---|---|---|---|
| Outdoor coil | Number of rows | | 2.6 | 2.6 |
| | Tube pitch(a)x row pitch(b) | mm | 25.4x22 | 21x22 |
| | Fin spacing | mm | 1.5 | 1.3 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ9.52,Inner groove tube | Φ7,Inner groove tube |
| | Coil length x height x width | mm | 995x762x22+960x762x22+580x762x22 | 990*924*66 |
| | Number of circuits | | 6 | 14 |
| Outdoor air flow | | m3/h | 4000 | 5600 |
| Outdoor sound pressure level | | dB(A) | 63.5 | 64.5 |
| Outdoor sound power level | | dB(A) | 72 | 74 |
| Throttle type | | | EXV+Throttle valve | EXV+Throttle valve |
| Outdoor unit | Dimension(W*D*H) | mm | 946x410x810 | 980x375x975 |
| | Packing (W*D*H) | mm | 1090x500x885 | 1145x500x1080 |
| | Net/Gross weight | kg | 71.0/75.0 | 82.5/97 |
| Refrigerant type | Type | - | R32 | R32 |
| | GWP | - | 675 | 675 |
| | Charged quantity | kg | 2.8 | 2.9 |
| Design pressure | | MPa | 4.3/1.7 | 4.3/1.7 |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") |
| | Max. refrigerant pipe length | m | 75 | 75 |
| | Max. difference in level | m | 30 | 30 |
| Ambient temperature | Cooling | °C | -15~50 | -15~50 |
| | Heating | °C | -20~24 | -20~24 |
| Qty'per 20' /40' /40'HQ | | Outdoor unit | 44/96/138 | 44/96/96 |

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB
-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB
-Interconnecting Piping Length 5m
- Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB
-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB
- Interconnecting Piping Length 5 m
- Level Difference of Zero.

2) Capacities are Net Capacities.

3) Due to our policy of innovation some specifications may be changed without notification.

4) TDB Summer Outdoor: 35°C; TWB Summer Outdoor: 21,4°C; TDB Winter Outdoor: -0.8°C; RH Winter Outdoor: 90%.

| Indoor model | | | MTJ-48HWFNX-QRD0W(GA) | MTJ-55HWFNX-QRD0W(GA) |
|---|---|---|---|---|
| Outdoor model | | | MOX630U-48HFN8-RRD0W(GA) | MOX630U-55HFN8-RRD0W(GA) |
| Power supply (Indoor ) | | V- Ph-Hz | 220~240-1-50 | 220~240-1-50 |
| Power Supply (Outdoor) | | V-Ph-Hz | 380~415-3-50 | 380~415-3-50 |
| Rated Power Input | | W | 7300 | 7500 |
| Rated Current | | A | 14 | 14 |
| Indoor fan motor | Model | | ZKFN-400-8-1 | ZKFN-400-8-1 |
| | Qty | | 1 | 1 |
| | Insulation class | | B | B |
| | IP rating | | IP20 | IP20 |
| | Output | W | 400 | 400 |
| | Capacitor | uF | / | / |
| | Speed(Hi/Mi/Lo) | r/min | 1350/1230/1110 | 910/855/690 |
| Indoor coil | Number of rows | | 4 | 4 |
| | Tube pitch(a)x row pitch(b) | mm | 21x13.37 | 21x13.37 |
| | Fin spacing | mm | 1.4 | 1.4 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ7,Inner groove tube | Φ7,Inner groove tube |
| | Coil length x height x width | mm | 1025*378*53.48 | 1025*378*53.48 |
| | Number of circuits | | 9 | 9 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 2000/1700/1300 | 2200/1900/1500 |
| ESP | Rated | Pa | 50 | 50 |
| | Range | Pa | 0-160 | 0-160 |
| Indoor sound pressure level Hi/Mi/Lo) | | dB(A) | 43.5/41.5/39.5 | 44.5/43/41.5 |
| Indoor sound power level | | dB(A) | 65 | 66 |
| Indoor unit | Dimension(W*D*H) | mm | 1200x750x245 | 1200x750x300 |
| | Packing (W*D*H) | mm | 1425x860x304 | 1425x860x359 |
| | Net/Gross weight | kg | 40.4/46.8 | 42.9/49.1 |
| Drainage water pipe diameter | | mm | ODΦ25mm | ODΦ25mm |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") |
| Controller | | | Wired control | Wired control |
| Operation temperature | | °C | 16-30 | 16-30 |
| Room temperature | Cooling | °C | 16~32 | 16~32 |
| | Heating | °C | 0~30 | 0~30 |
| Qty'per 20' /40' /40'HQ | | Indoor unit | 70/147/168 | 60/126/147 |
| Compressor | Model | | KTQ420D1UMU | KTQ420D1UMU |
| | Type | | ROTARY | ROTARY |
| | Brand | | GMCC | GMCC |
| | Capacity | W | 13700 | 13700 |
| | Input | W | 3700 | 3700 |
| | Rated current(RLA) | A | 7.02 | 7.02 |
| | Thermal protector | | INT01L-4639 | INT01L-4639 |
| | Thermal protector position | | EXTERNAL | EXTERNAL |
| | Refrigerant oil/oil charge | ml | VG74/1400 | VG74/1400 |
| Outdoor fan motor | Model | | ZKFN-250-10-1 | ZKFN-250-10-1 |
| | Qty | | 2 | 2 |
| | Insulation class | | B | B |
| | IP rating | | IP44 | IP44 |
| | Output | W | 250 | 250 |
| | Capacitor | uF | / | / |
| | Speed | r/min | 850/400 | 850/400 |

| | | | | |
|---|---|---|---|---|
| Outdoor coil | Number of rows | | 2.6 | 3 |
| | Tube pitch(a)x row pitch(b) | mm | 21x22 | 21x22 |
| | Fin spacing | mm | 1.3 | 1.3 |
| | Fin type (code) | | Hydrophilic aluminum | Hydrophilic aluminum |
| | Tube outside dia.and type | mm | Φ7,Inner groove tube | Φ7,Inner groove tube |
| | Coil length x height x width | mm | 757*303*924 | 990*924*66 |
| | Number of circuits | | 14 | 14 |
| Outdoor air flow | | m3/h | 5600 | 5600 |
| Outdoor sound pressure level | | dB(A) | 64.5 | 64 |
| Outdoor sound power level | | dB(A) | 73 | 74 |
| Throttle type | | | EXV+Throttle valve | EXV+Throttle valve |
| Outdoor unit | Dimension(W*D*H) | mm | 980x375x975 | 980x375x975 |
| | Packing (W*D*H) | mm | 1145x500x1080 | 1145x500x1080 |
| | Net/Gross weight | kg | 90/105 | 92/107 |
| Refrigerant type | Type | - | R32 | R32 |
| | GWP | - | 675 | 675 |
| | Charged quantity | kg | 2.9 | 3.2 |
| Design pressure | | MPa | 4.3/1.7 | 4.3/1.7 |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") |
| | Max. refrigerant pipe length | m | 75 | 75 |
| | Max. difference in level | m | 30 | 30 |
| Ambient temperature | Cooling | °C | -15~50 | -15~50 |
| | Heating | °C | -20~24 | -20~24 |
| Qty'per 20' /40' /40'HQ | | Outdoor unit | 44/96/96 | 44/96/96 |

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB
-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB
-Interconnecting Piping Length 5m
- Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB
-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB
- Interconnecting Piping Length 5 m
- Level Difference of Zero.

2) Capacities are Net Capacities.

3) Due to our policy of innovation some specifications may be changed without notification.

4) TDB Summer Outdoor: 35°C; TWB Summer Outdoor: 21,4°C; TDB Winter Outdoor: -0.8°C; RH Winter Outdoor: 90%.

## 1.2 Electrical Characteristics

| Capacity (Btu/h) | | 9k~18k | 24k | 30k | 36k |
|---|---|---|---|---|---|
| Outdoor Unit Power | Phase | 1-phase | 1-phase | 1-phase | 1-phase |
| | Frequency and Voltage | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz |
| | Power Wiring ($mm^2$) | 3×1.5 | 3×2.5 | 3×2.5 | 3×4.0 |
| | Circuit Breaker/ Fuse (A) | 25/20 | 25/20 | 40/30 | 40/30 |
| Indoor/Outdoor Connecting Wiring | Weak Electric Signal)($mm^2$) | | | | |
| | Strong Electric Signal($mm^2$) | 4×1.0 | 4×1.0 | 4×1.0 | 4×1.0 |

| Capacity (Btu/h) | | 36k | 42k | 48k | 48k-55k |
|---|---|---|---|---|---|
| Outdoor Unit Power | Phase | 3-phase | 1-phase | 1-phase | 3-phase |
| | Frequency and Voltage | 380-415V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 380-415V, 50Hz |
| | Power Wiring ($mm^2$) | 5×2.5 | 3×4.0 | 3×6.0 | 5×2.5 |
| | Circuit Breaker/ Fuse (A) | 25/20 | 50/40 | 50/40 | 32/25 |
| Indoor/Outdoor Connecting Wiring | Weak Electric Signal)($mm^2$) | | | | |
| | Strong Electric Signal($mm^2$) | 4×1.0 | 4×1.0 | 4×1.0 | 4×1.0 |

NOTE: Electric auxiliary heating type circuit breaker/fuse need to add more than 10 A.

# 2. Capacity Tables

## 2.1 Cooling

| 9k | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed:620 | -15 | TC | 2.89 | 2.92 | 2.95 | 2.98 | 3.01 | 3.01 | 3.04 | 3.07 | 3.09 | 3.09 | 3.09 | 3.12 | 3.29 | 3.29 | 3.29 | 3.29 |
| | | S/T | 0.85 | 0.97 | 1.00 | 1.00 | 0.64 | 0.78 | 0.92 | 0.98 | 0.54 | 0.68 | 0.81 | 0.94 | 0.32 | 0.43 | 0.56 | 0.69 |
| | | PI | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.49 | 0.49 | 0.49 | 0.49 |
| | -10 | TC | 2.87 | 2.90 | 2.93 | 2.96 | 2.99 | 2.99 | 3.02 | 3.05 | 3.07 | 3.07 | 3.07 | 3.10 | 3.28 | 3.28 | 3.28 | 3.28 |
| | | S/T | 0.85 | 0.97 | 1.00 | 1.00 | 0.64 | 0.79 | 0.92 | 0.98 | 0.54 | 0.68 | 0.82 | 0.94 | 0.32 | 0.44 | 0.56 | 0.69 |
| | | PI | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.49 | 0.49 | 0.49 | 0.49 |
| | -5 | TC | 2.85 | 2.88 | 2.91 | 2.94 | 2.98 | 2.98 | 3.01 | 3.04 | 3.06 | 3.06 | 3.06 | 3.09 | 3.27 | 3.27 | 3.27 | 3.27 |
| | | S/T | 0.86 | 0.98 | 1.00 | 1.00 | 0.64 | 0.79 | 0.93 | 0.99 | 0.55 | 0.68 | 0.82 | 0.95 | 0.32 | 0.44 | 0.57 | 0.69 |
| | | PI | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.49 | 0.49 | 0.49 | 0.49 |
| | 0 | TC | 2.84 | 2.87 | 2.90 | 2.93 | 2.97 | 2.97 | 3.00 | 3.03 | 3.05 | 3.05 | 3.05 | 3.08 | 3.26 | 3.26 | 3.26 | 3.26 |
| | | S/T | 0.86 | 0.98 | 1.00 | 1.00 | 0.65 | 0.79 | 0.93 | 0.99 | 0.55 | 0.69 | 0.82 | 0.95 | 0.32 | 0.44 | 0.57 | 0.70 |
| | | PI | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| | 5 | TC | 2.82 | 2.85 | 2.88 | 2.91 | 2.96 | 2.96 | 2.99 | 3.02 | 3.04 | 3.04 | 3.04 | 3.07 | 3.26 | 3.26 | 3.26 | 3.26 |
| | | S/T | 0.87 | 0.99 | 1.00 | 1.00 | 0.65 | 0.80 | 0.94 | 1.00 | 0.55 | 0.69 | 0.83 | 0.96 | 0.33 | 0.44 | 0.57 | 0.70 |
| | | PI | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.51 | 0.51 | 0.51 | 0.51 | 0.50 | 0.50 | 0.50 | 0.50 |
| | 10 | TC | 2.81 | 2.84 | 2.87 | 2.89 | 2.95 | 2.95 | 2.98 | 3.00 | 3.03 | 3.03 | 3.03 | 3.06 | 3.25 | 3.25 | 3.25 | 3.25 |
| | | S/T | 0.87 | 0.99 | 1.00 | 1.00 | 0.65 | 0.80 | 0.94 | 1.00 | 0.55 | 0.69 | 0.83 | 0.96 | 0.33 | 0.45 | 0.57 | 0.70 |
| | | PI | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| | 15 | TC | 2.78 | 2.81 | 2.84 | 2.87 | 2.93 | 2.93 | 2.96 | 2.98 | 3.01 | 3.01 | 3.01 | 3.04 | 3.24 | 3.24 | 3.24 | 3.24 |
| | | S/T | 0.88 | 1.00 | 1.00 | 1.00 | 0.66 | 0.81 | 0.95 | 1.00 | 0.56 | 0.70 | 0.84 | 0.97 | 0.33 | 0.45 | 0.58 | 0.71 |
| | | PI | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.53 | 0.53 | 0.53 | 0.53 | 0.52 | 0.52 | 0.52 | 0.52 |
| | 20 | TC | 2.75 | 2.78 | 2.81 | 2.84 | 2.90 | 2.90 | 2.92 | 2.95 | 2.98 | 2.98 | 2.98 | 3.01 | 3.21 | 3.21 | 3.21 | 3.21 |
| | | S/T | 0.88 | 1.00 | 1.00 | 1.00 | 0.66 | 0.81 | 0.95 | 1.00 | 0.56 | 0.70 | 0.84 | 0.97 | 0.33 | 0.45 | 0.58 | 0.71 |
| | | PI | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.53 | 0.53 | 0.53 | 0.53 |
| | 25 | TC | 2.61 | 2.64 | 2.67 | 2.70 | 2.78 | 2.78 | 2.81 | 2.84 | 2.87 | 2.87 | 2.87 | 2.90 | 3.07 | 3.07 | 3.07 | 3.07 |
| | | S/T | 0.90 | 1.00 | 1.00 | 1.00 | 0.67 | 0.82 | 0.97 | 1.00 | 0.57 | 0.71 | 0.86 | 1.00 | 0.32 | 0.46 | 0.59 | 0.73 |
| | | PI | 0.60 | 0.60 | 0.60 | 0.60 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.60 |
| | 30 | TC | 2.49 | 2.52 | 2.55 | 2.58 | 2.64 | 2.64 | 2.67 | 2.70 | 2.72 | 2.72 | 2.72 | 2.75 | 2.95 | 2.95 | 2.95 | 2.95 |
| | | S/T | 0.92 | 1.00 | 1.00 | 1.00 | 0.69 | 0.84 | 0.99 | 1.00 | 0.57 | 0.73 | 0.88 | 1.00 | 0.32 | 0.46 | 0.60 | 0.74 |
| | | PI | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 |
| | 35 | TC | 2.38 | 2.41 | 2.44 | 2.47 | 2.52 | 2.52 | 2.55 | 2.58 | 2.61 | 2.61 | **2.64** | 2.67 | 2.81 | 2.81 | 2.81 | 2.81 |
| | | S/T | 0.95 | 1.00 | 1.00 | 1.00 | 0.70 | 0.86 | 1.00 | 1.00 | 0.58 | 0.74 | **0.89** | 1.00 | 0.32 | 0.47 | 0.61 | 0.76 |
| | | PI | 0.71 | 0.71 | 0.71 | 0.71 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | **0.72** | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 |
| | 40 | TC | 2.26 | 2.29 | 2.32 | 2.34 | 2.40 | 2.42 | 2.44 | 2.47 | 2.48 | 2.48 | 2.51 | 2.53 | 2.68 | 2.68 | 2.68 | 2.68 |
| | | S/T | 1.00 | 1.00 | 1.00 | 1.00 | 0.72 | 0.90 | 1.00 | 1.00 | 0.60 | 0.77 | 0.94 | 1.00 | 0.31 | 0.47 | 0.64 | 0.90 |
| | | PI | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 |
| | 46 | TC | 2.08 | 2.11 | 2.14 | 2.17 | 2.23 | 2.26 | 2.29 | 2.32 | 2.29 | 2.29 | 2.32 | 2.34 | 2.49 | 2.49 | 2.49 | 2.49 |
| | | S/T | 1.00 | 1.00 | 1.00 | 1.00 | 0.74 | 0.92 | 1.00 | 1.00 | 0.61 | 0.79 | 0.97 | 1.00 | 0.31 | 0.48 | 0.65 | 0.92 |
| | | PI | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| | 50 | TC | 1.97 | 2.00 | 2.03 | 2.06 | 2.08 | 2.11 | 2.14 | 2.17 | 2.17 | 2.17 | 2.20 | 2.23 | 2.34 | 2.34 | 2.34 | 2.34 |
| | | S/T | 1.00 | 1.00 | 1.00 | 1.00 | 0.76 | 0.95 | 1.00 | 1.00 | 0.62 | 0.81 | 1.00 | 1.00 | 0.31 | 0.48 | 0.66 | 0.97 |
| | | PI | 0.94 | 0.94 | 0.94 | 0.94 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.96 | 0.96 | 0.96 | 0.96 |

TC:Total Cooling Capacity (kW)
S/T:Sensible Cooling Capacity Ratio
PI:Power Input(kW)
**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 12k | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 660 | -15 | TC | 3.84 | 3.87 | 3.90 | 3.93 | 4.02 | 4.02 | 4.02 | 4.05 | 4.12 | 4.12 | 4.12 | 4.12 | 4.40 | 4.40 | 4.40 | 4.40 |
| | | S/T | 0.77 | 0.89 | 1.00 | 1.00 | 0.60 | 0.71 | 0.82 | 0.98 | 0.52 | 0.63 | 0.73 | 0.84 | 0.33 | 0.42 | 0.53 | 0.63 |
| | | PI | 0.81 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 |
| | -10 | TC | 3.82 | 3.85 | 3.88 | 3.91 | 3.99 | 3.99 | 3.99 | 4.02 | 4.10 | 4.10 | 4.10 | 4.10 | 4.38 | 4.38 | 4.38 | 4.38 |
| | | S/T | 0.78 | 0.89 | 1.00 | 1.00 | 0.60 | 0.72 | 0.82 | 0.98 | 0.52 | 0.63 | 0.74 | 0.84 | 0.33 | 0.43 | 0.53 | 0.63 |
| | | PI | 0.81 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 |
| | -5 | TC | 3.79 | 3.82 | 3.85 | 3.88 | 3.98 | 3.98 | 3.98 | 4.01 | 4.08 | 4.08 | 4.08 | 4.08 | 4.37 | 4.37 | 4.37 | 4.37 |
| | | S/T | 0.78 | 0.90 | 1.00 | 1.00 | 0.60 | 0.72 | 0.83 | 0.99 | 0.53 | 0.63 | 0.74 | 0.85 | 0.33 | 0.43 | 0.54 | 0.63 |
| | | PI | 0.81 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 |
| | 0 | TC | 3.77 | 3.80 | 3.83 | 3.86 | 3.96 | 3.96 | 3.96 | 3.99 | 4.07 | 4.07 | 4.07 | 4.07 | 4.37 | 4.37 | 4.37 | 4.37 |
| | | S/T | 0.78 | 0.90 | 1.00 | 1.00 | 0.61 | 0.73 | 0.83 | 0.99 | 0.53 | 0.64 | 0.74 | 0.85 | 0.33 | 0.43 | 0.54 | 0.64 |
| | | PI | 0.81 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 |
| | 5 | TC | 3.76 | 3.79 | 3.82 | 3.84 | 3.95 | 3.95 | 3.95 | 3.98 | 4.06 | 4.06 | 4.06 | 4.06 | 4.36 | 4.36 | 4.36 | 4.36 |
| | | S/T | 0.79 | 0.91 | 1.00 | 1.00 | 0.61 | 0.73 | 0.84 | 1.00 | 0.53 | 0.64 | 0.75 | 0.86 | 0.33 | 0.43 | 0.54 | 0.64 |
| | | PI | 0.82 | 0.82 | 0.82 | 0.82 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 | 0.82 |
| | 10 | TC | 3.73 | 3.76 | 3.79 | 3.82 | 3.93 | 3.93 | 3.93 | 3.96 | 4.04 | 4.04 | 4.04 | 4.04 | 4.35 | 4.35 | 4.35 | 4.35 |
| | | S/T | 0.79 | 0.91 | 1.00 | 1.00 | 0.61 | 0.73 | 0.84 | 1.00 | 0.53 | 0.64 | 0.75 | 0.86 | 0.34 | 0.44 | 0.54 | 0.64 |
| | | PI | 0.83 | 0.83 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.83 | 0.83 | 0.83 | 0.83 |
| | 15 | TC | 3.70 | 3.73 | 3.76 | 3.79 | 3.90 | 3.90 | 3.90 | 3.93 | 4.02 | 4.02 | 4.02 | 4.02 | 4.33 | 4.33 | 4.33 | 4.33 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.74 | 0.85 | 0.96 | 0.54 | 0.65 | 0.76 | 0.87 | 0.34 | 0.44 | 0.55 | 0.65 |
| | | PI | 0.85 | 0.85 | 0.85 | 0.85 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 |
| | 20 | TC | 3.66 | 3.69 | 3.72 | 3.75 | 3.86 | 3.86 | 3.86 | 3.89 | 3.98 | 3.98 | 3.98 | 3.98 | 4.30 | 4.30 | 4.30 | 4.30 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.74 | 0.85 | 0.96 | 0.54 | 0.65 | 0.76 | 0.87 | 0.34 | 0.44 | 0.55 | 0.65 |
| | | PI | 0.88 | 0.88 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| | 25 | TC | 3.49 | 3.52 | 3.55 | 3.57 | 3.69 | 3.69 | 3.69 | 3.72 | 3.81 | 3.81 | 3.81 | 3.83 | 4.09 | 4.09 | 4.09 | 4.09 |
| | | S/T | 0.82 | 0.94 | 1.00 | 1.00 | 0.63 | 0.75 | 0.87 | 0.99 | 0.54 | 0.66 | 0.77 | 0.89 | 0.34 | 0.44 | 0.55 | 0.66 |
| | | PI | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| | 30 | TC | 3.32 | 3.34 | 3.37 | 3.40 | 3.55 | 3.55 | 3.57 | 3.60 | 3.63 | 3.63 | 3.63 | 3.66 | 3.92 | 3.92 | 3.92 | 3.92 |
| | | S/T | 0.84 | 0.97 | 1.00 | 1.00 | 0.64 | 0.76 | 0.88 | 1.00 | 0.54 | 0.67 | 0.79 | 0.91 | 0.33 | 0.45 | 0.56 | 0.67 |
| | | PI | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.07 | 1.07 | 1.07 | 1.07 |
| | 35 | TC | 3.14 | 3.17 | 3.20 | 3.23 | 3.37 | 3.37 | 3.40 | 3.43 | 3.46 | 3.46 | **3.52** | 3.55 | 3.75 | 3.75 | 3.75 | 3.75 |
| | | S/T | 0.86 | 0.99 | 1.00 | 1.00 | 0.65 | 0.78 | 0.90 | 1.00 | 0.55 | 0.68 | **0.80** | 0.92 | 0.33 | 0.45 | 0.57 | 0.69 |
| | | PI | 1.15 | 1.15 | 1.15 | 1.15 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | **1.16** | 1.16 | 1.17 | 1.17 | 1.17 | 1.17 |
| | 40 | TC | 2.95 | 2.98 | 3.01 | 3.04 | 3.17 | 3.17 | 3.20 | 3.23 | 3.25 | 3.25 | 3.29 | 3.31 | 3.53 | 3.53 | 3.53 | 3.53 |
| | | S/T | 0.89 | 1.00 | 1.00 | 1.00 | 0.67 | 0.81 | 0.95 | 1.00 | 0.56 | 0.70 | 0.84 | 0.98 | 0.33 | 0.46 | 0.59 | 0.90 |
| | | PI | 1.28 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.30 | 1.30 | 1.30 | 1.30 |
| | 46 | TC | 2.73 | 2.76 | 2.79 | 2.82 | 2.93 | 2.93 | 2.96 | 2.99 | 3.02 | 3.02 | 3.02 | 3.05 | 3.28 | 3.28 | 3.28 | 3.28 |
| | | S/T | 0.91 | 1.00 | 1.00 | 1.00 | 0.68 | 0.83 | 0.97 | 1.00 | 0.57 | 0.71 | 0.86 | 1.00 | 0.32 | 0.46 | 0.59 | 0.92 |
| | | PI | 1.42 | 1.42 | 1.42 | 1.42 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.44 | 1.44 | 1.44 | 1.44 |
| | 50 | TC | 2.59 | 2.62 | 2.65 | 2.67 | 2.76 | 2.76 | 2.79 | 2.82 | 2.85 | 2.85 | 2.88 | 2.90 | 3.08 | 3.08 | 3.08 | 3.08 |
| | | S/T | 0.94 | 1.00 | 1.00 | 1.00 | 0.69 | 0.85 | 1.00 | 1.00 | 0.58 | 0.73 | 0.88 | 1.00 | 0.32 | 0.46 | 0.61 | 0.97 |
| | | PI | 1.54 | 1.54 | 1.54 | 1.54 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.56 | 1.56 | 1.56 | 1.56 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 18k | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 900 | -15 | TC | 5.74 | 5.74 | 5.80 | 5.86 | 6.05 | 6.05 | 6.05 | 6.11 | 6.20 | 6.20 | 6.20 | 6.20 | 6.57 | 6.57 | 6.57 | 6.57 |
| | | S/T | 0.74 | 0.85 | 1.00 | 1.00 | 0.58 | 0.69 | 0.78 | 0.98 | 0.51 | 0.61 | 0.70 | 0.80 | 0.34 | 0.42 | 0.51 | 0.61 |
| | | PI | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| | -10 | TC | 5.71 | 5.71 | 5.77 | 5.83 | 6.02 | 6.02 | 6.02 | 6.08 | 6.17 | 6.17 | 6.17 | 6.17 | 6.55 | 6.55 | 6.55 | 6.55 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.58 | 0.69 | 0.79 | 0.98 | 0.51 | 0.61 | 0.71 | 0.81 | 0.34 | 0.43 | 0.51 | 0.61 |
| | | PI | 1.10 | 1.10 | 1.10 | 1.10 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.10 | 1.10 | 1.10 | 1.10 |
| | -5 | TC | 5.67 | 5.67 | 5.73 | 5.79 | 6.00 | 6.00 | 6.00 | 6.06 | 6.15 | 6.15 | 6.15 | 6.15 | 6.53 | 6.53 | 6.53 | 6.53 |
| | | S/T | 0.75 | 0.86 | 1.00 | 1.00 | 0.59 | 0.69 | 0.79 | 0.99 | 0.52 | 0.61 | 0.71 | 0.81 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 1.10 | 1.10 | 1.10 | 1.10 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.10 | 1.10 | 1.10 | 1.10 |
| | 0 | TC | 5.65 | 5.65 | 5.71 | 5.76 | 5.97 | 5.97 | 5.97 | 6.03 | 6.13 | 6.13 | 6.13 | 6.13 | 6.53 | 6.53 | 6.53 | 6.53 |
| | | S/T | 0.75 | 0.86 | 1.00 | 1.00 | 0.59 | 0.70 | 0.79 | 0.99 | 0.52 | 0.62 | 0.72 | 0.81 | 0.34 | 0.43 | 0.52 | 0.62 |
| | | PI | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.11 | 1.11 | 1.11 | 1.11 |
| | 5 | TC | 5.62 | 5.62 | 5.68 | 5.74 | 5.95 | 5.95 | 5.95 | 6.01 | 6.11 | 6.11 | 6.11 | 6.11 | 6.52 | 6.52 | 6.52 | 6.52 |
| | | S/T | 0.76 | 0.87 | 1.00 | 1.00 | 0.59 | 0.70 | 0.80 | 1.00 | 0.52 | 0.62 | 0.72 | 0.82 | 0.34 | 0.43 | 0.52 | 0.62 |
| | | PI | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 |
| | 10 | TC | 5.58 | 5.58 | 5.64 | 5.70 | 5.92 | 5.92 | 5.92 | 5.98 | 6.09 | 6.09 | 6.09 | 6.09 | 6.51 | 6.51 | 6.51 | 6.51 |
| | | S/T | 0.76 | 0.87 | 1.00 | 1.00 | 0.59 | 0.70 | 0.80 | 1.00 | 0.52 | 0.62 | 0.72 | 0.82 | 0.35 | 0.44 | 0.52 | 0.62 |
| | | PI | 1.13 | 1.13 | 1.13 | 1.13 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.13 | 1.13 | 1.13 | 1.13 |
| | 15 | TC | 5.54 | 5.54 | 5.60 | 5.65 | 5.88 | 5.88 | 5.88 | 5.94 | 6.05 | 6.05 | 6.05 | 6.05 | 6.48 | 6.48 | 6.48 | 6.48 |
| | | S/T | 0.77 | 0.88 | 0.99 | 1.00 | 0.60 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.63 |
| | | PI | 1.16 | 1.16 | 1.16 | 1.16 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | 20 | TC | 5.48 | 5.48 | 5.53 | 5.59 | 5.82 | 5.82 | 5.82 | 5.88 | 5.99 | 5.99 | 5.99 | 5.99 | 6.42 | 6.42 | 6.42 | 6.42 |
| | | S/T | 0.77 | 0.88 | 0.99 | 1.00 | 0.60 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.63 |
| | | PI | 1.20 | 1.20 | 1.20 | 1.20 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 |
| | 25 | TC | 5.22 | 5.28 | 5.33 | 5.39 | 5.56 | 5.56 | 5.56 | 5.62 | 5.73 | 5.73 | 5.73 | 5.73 | 6.16 | 6.16 | 6.16 | 6.16 |
| | | S/T | 0.79 | 0.90 | 1.00 | 1.00 | 0.61 | 0.72 | 0.83 | 0.93 | 0.53 | 0.63 | 0.74 | 0.85 | 0.34 | 0.44 | 0.54 | 0.64 |
| | | PI | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 |
| | 30 | TC | 4.99 | 5.05 | 5.10 | 5.16 | 5.30 | 5.30 | 5.30 | 5.36 | 5.45 | 5.45 | 5.45 | 5.45 | 5.88 | 5.88 | 5.88 | 5.88 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.73 | 0.85 | 0.95 | 0.53 | 0.64 | 0.76 | 0.87 | 0.34 | 0.44 | 0.54 | 0.65 |
| | | PI | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 |
| | 35 | TC | 4.73 | 4.79 | 4.85 | 4.90 | 5.05 | 5.05 | 5.05 | 5.10 | 5.19 | 5.19 | **5.28** | 5.33 | 5.59 | 5.59 | 5.59 | 5.59 |
| | | S/T | 0.82 | 0.94 | 1.00 | 1.00 | 0.63 | 0.75 | 0.87 | 0.98 | 0.54 | 0.65 | **0.77** | 0.88 | 0.34 | 0.44 | 0.55 | 0.66 |
| | | PI | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.59 | 1.59 | **1.59** | 1.59 | 1.60 | 1.60 | 1.60 | 1.60 |
| | 40 | TC | 4.44 | 4.49 | 4.53 | 4.58 | 4.74 | 4.74 | 4.77 | 4.83 | 4.89 | 4.89 | 4.93 | 4.99 | 5.27 | 5.27 | 5.27 | 5.27 |
| | | S/T | 0.85 | 0.99 | 1.00 | 1.00 | 0.64 | 0.78 | 0.90 | 1.00 | 0.55 | 0.68 | 0.80 | 0.93 | 0.33 | 0.45 | 0.57 | 0.90 |
| | | PI | 1.74 | 1.74 | 1.74 | 1.74 | 1.74 | 1.74 | 1.74 | 1.74 | 1.75 | 1.75 | 1.75 | 1.75 | 1.76 | 1.76 | 1.76 | 1.76 |
| | 46 | TC | 4.12 | 4.14 | 4.17 | 4.20 | 4.40 | 4.40 | 4.46 | 4.52 | 4.54 | 4.54 | 4.54 | 4.60 | 4.92 | 4.92 | 4.92 | 4.92 |
| | | S/T | 0.87 | 1.00 | 1.00 | 1.00 | 0.65 | 0.79 | 0.92 | 1.00 | 0.55 | 0.69 | 0.82 | 0.94 | 0.33 | 0.45 | 0.57 | 0.92 |
| | | PI | 1.93 | 1.93 | 1.93 | 1.93 | 1.94 | 1.94 | 1.94 | 1.94 | 1.95 | 1.95 | 1.95 | 1.95 | 1.96 | 1.96 | 1.96 | 1.96 |
| | 50 | TC | 3.86 | 3.89 | 3.92 | 3.94 | 4.12 | 4.12 | 4.14 | 4.17 | 4.26 | 4.26 | 4.26 | 4.29 | 4.63 | 4.63 | 4.63 | 4.63 |
| | | S/T | 0.89 | 1.00 | 1.00 | 1.00 | 0.67 | 0.81 | 0.96 | 1.00 | 0.56 | 0.70 | 0.84 | 0.98 | 0.33 | 0.46 | 0.58 | 0.97 |
| | | PI | 2.10 | 2.10 | 2.10 | 2.10 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.13 | 2.13 | 2.13 | 2.13 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 24k | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 1200 | -15 | TC | 7.68 | 7.68 | 7.77 | 7.86 | 8.06 | 8.06 | 8.06 | 8.15 | 8.26 | 8.26 | 8.26 | 8.26 | 8.79 | 8.79 | 8.79 | 8.79 |
| | | S/T | 0.74 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.78 | 0.98 | 0.51 | 0.61 | 0.70 | 0.80 | 0.34 | 0.42 | 0.51 | 0.61 |
| | | PI | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 |
| | -10 | TC | 7.63 | 7.63 | 7.72 | 7.81 | 8.02 | 8.02 | 8.02 | 8.10 | 8.22 | 8.22 | 8.22 | 8.22 | 8.76 | 8.76 | 8.76 | 8.76 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.79 | 0.98 | 0.51 | 0.61 | 0.71 | 0.81 | 0.34 | 0.43 | 0.51 | 0.61 |
| | | PI | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 |
| | -5 | TC | 7.59 | 7.59 | 7.68 | 7.77 | 7.99 | 7.99 | 7.99 | 8.07 | 8.19 | 8.19 | 8.19 | 8.19 | 8.73 | 8.73 | 8.73 | 8.73 |
| | | S/T | 0.75 | 0.86 | 1.00 | 1.00 | 0.59 | 0.69 | 0.79 | 0.99 | 0.52 | 0.61 | 0.71 | 0.81 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 |
| | 0 | TC | 7.55 | 7.55 | 7.64 | 7.73 | 7.96 | 7.96 | 7.96 | 8.04 | 8.17 | 8.17 | 8.17 | 8.17 | 8.73 | 8.73 | 8.73 | 8.73 |
| | | S/T | 0.75 | 0.86 | 1.00 | 1.00 | 0.60 | 0.70 | 0.79 | 0.99 | 0.52 | 0.62 | 0.72 | 0.81 | 0.34 | 0.43 | 0.52 | 0.62 |
| | | PI | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.59 | 1.59 | 1.59 | 1.59 |
| | 5 | TC | 7.51 | 7.51 | 7.60 | 7.69 | 7.93 | 7.93 | 7.93 | 8.01 | 8.14 | 8.14 | 8.14 | 8.14 | 8.72 | 8.72 | 8.72 | 8.72 |
| | | S/T | 0.76 | 0.87 | 1.00 | 1.00 | 0.60 | 0.70 | 0.80 | 1.00 | 0.52 | 0.62 | 0.72 | 0.82 | 0.34 | 0.43 | 0.52 | 0.62 |
| | | PI | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.60 | 1.60 | 1.60 | 1.60 |
| | 10 | TC | 7.47 | 7.47 | 7.55 | 7.64 | 7.89 | 7.89 | 7.89 | 7.98 | 8.11 | 8.11 | 8.11 | 8.11 | 8.70 | 8.70 | 8.70 | 8.70 |
| | | S/T | 0.76 | 0.87 | 1.00 | 1.00 | 0.60 | 0.70 | 0.80 | 1.00 | 0.52 | 0.62 | 0.72 | 0.82 | 0.35 | 0.44 | 0.52 | 0.62 |
| | | PI | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.61 | 1.61 | 1.61 | 1.61 | 1.62 | 1.62 | 1.62 | 1.62 |
| | 15 | TC | 7.40 | 7.40 | 7.49 | 7.58 | 7.83 | 7.83 | 7.83 | 7.92 | 8.06 | 8.06 | 8.06 | 8.06 | 8.66 | 8.66 | 8.66 | 8.66 |
| | | S/T | 0.77 | 0.88 | 0.99 | 1.00 | 0.61 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.63 |
| | | PI | 1.65 | 1.65 | 1.65 | 1.65 | 1.66 | 1.66 | 1.66 | 1.66 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 |
| | 20 | TC | 7.32 | 7.32 | 7.41 | 7.49 | 7.75 | 7.75 | 7.75 | 7.84 | 7.98 | 7.98 | 7.98 | 7.98 | 8.58 | 8.58 | 8.58 | 8.58 |
| | | S/T | 0.77 | 0.88 | 0.99 | 1.00 | 0.61 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.63 |
| | | PI | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 |
| | 25 | TC | 6.98 | 7.03 | 7.09 | 7.15 | 7.41 | 7.41 | 7.41 | 7.49 | 7.64 | 7.64 | 7.64 | 7.64 | 8.21 | 8.21 | 8.21 | 8.21 |
| | | S/T | 0.79 | 0.90 | 1.00 | 1.00 | 0.61 | 0.72 | 0.83 | 0.93 | 0.53 | 0.64 | 0.74 | 0.85 | 0.34 | 0.44 | 0.54 | 0.64 |
| | | PI | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 |
| | 30 | TC | 6.63 | 6.69 | 6.75 | 6.80 | 7.06 | 7.06 | 7.06 | 7.12 | 7.29 | 7.29 | 7.29 | 7.29 | 7.84 | 7.84 | 7.84 | 7.84 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.73 | 0.85 | 0.96 | 0.53 | 0.64 | 0.75 | 0.87 | 0.34 | 0.44 | 0.54 | 0.65 |
| | | PI | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.08 | 2.08 | 2.08 | 2.08 |
| | 35 | TC | 6.32 | 6.37 | 6.43 | 6.49 | 6.72 | 6.72 | 6.72 | 6.78 | 6.92 | 6.92 | **7.03** | 7.09 | 7.46 | 7.46 | 7.46 | 7.46 |
| | | S/T | 0.82 | 0.94 | 1.00 | 1.00 | 0.63 | 0.75 | 0.87 | 0.98 | 0.54 | 0.66 | **0.77** | 0.88 | 0.34 | 0.44 | 0.55 | 0.66 |
| | | PI | 2.26 | 2.26 | 2.26 | 2.26 | 2.27 | 2.27 | 2.27 | 2.27 | 2.28 | 2.28 | **2.28** | 2.28 | 2.29 | 2.29 | 2.29 | 2.29 |
| | 40 | TC | 5.90 | 5.96 | 6.02 | 6.07 | 6.29 | 6.29 | 6.32 | 6.37 | 6.48 | 6.48 | 6.54 | 6.60 | 7.00 | 7.00 | 7.00 | 7.00 |
| | | S/T | 0.85 | 0.99 | 1.00 | 1.00 | 0.64 | 0.78 | 0.90 | 1.00 | 0.55 | 0.68 | 0.80 | 0.93 | 0.33 | 0.45 | 0.57 | 0.90 |
| | | PI | 2.50 | 2.50 | 2.50 | 2.50 | 2.51 | 2.51 | 2.51 | 2.51 | 2.52 | 2.52 | 2.52 | 2.52 | 2.53 | 2.53 | 2.53 | 2.53 |
| | 46 | TC | 5.47 | 5.53 | 5.58 | 5.64 | 5.84 | 5.84 | 5.90 | 5.95 | 6.01 | 6.01 | 6.01 | 6.07 | 6.52 | 6.52 | 6.52 | 6.52 |
| | | S/T | 0.87 | 1.00 | 1.00 | 1.00 | 0.65 | 0.79 | 0.92 | 1.00 | 0.55 | 0.69 | 0.82 | 0.95 | 0.33 | 0.45 | 0.57 | 0.92 |
| | | PI | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.82 | 2.82 | 2.82 | 2.82 |
| | 50 | TC | 5.13 | 5.18 | 5.24 | 5.30 | 5.47 | 5.47 | 5.53 | 5.58 | 5.67 | 5.67 | 5.67 | 5.73 | 6.12 | 6.12 | 6.12 | 6.12 |
| | | S/T | 0.89 | 1.00 | 1.00 | 1.00 | 0.67 | 0.81 | 0.95 | 1.00 | 0.56 | 0.70 | 0.84 | 0.98 | 0.33 | 0.46 | 0.59 | 0.97 |
| | | PI | 3.02 | 3.02 | 3.02 | 3.02 | 3.03 | 3.03 | 3.03 | 3.03 | 3.03 | 3.03 | 3.03 | 3.03 | 3.05 | 3.05 | 3.05 | 3.05 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 30k | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 1500 | -15 | TC | 9.58 | 9.58 | 9.67 | 9.76 | 10.07 | 10.07 | 10.07 | 10.16 | 10.32 | 10.32 | 10.32 | 10.32 | 10.97 | 10.97 | 10.97 | 10.97 |
| | | S/T | 0.74 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.78 | 0.98 | 0.51 | 0.61 | 0.70 | 0.80 | 0.34 | 0.42 | 0.51 | 0.61 |
| | | PI | 1.94 | 1.94 | 1.94 | 1.94 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 |
| | -10 | TC | 9.53 | 9.53 | 9.62 | 9.71 | 10.01 | 10.01 | 10.01 | 10.10 | 10.27 | 10.27 | 10.27 | 10.27 | 10.93 | 10.93 | 10.93 | 10.93 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.79 | 0.98 | 0.51 | 0.61 | 0.71 | 0.81 | 0.34 | 0.43 | 0.51 | 0.61 |
| | | PI | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 |
| | -5 | TC | 9.47 | 9.47 | 9.56 | 9.65 | 9.98 | 9.98 | 9.98 | 10.06 | 10.23 | 10.23 | 10.23 | 10.23 | 10.90 | 10.90 | 10.90 | 10.90 |
| | | S/T | 0.75 | 0.86 | 1.00 | 1.00 | 0.59 | 0.69 | 0.79 | 0.99 | 0.52 | 0.61 | 0.71 | 0.81 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.94 | 1.94 | 1.94 | 1.94 |
| | 0 | TC | 9.42 | 9.42 | 9.51 | 9.60 | 9.94 | 9.94 | 9.94 | 10.03 | 10.21 | 10.21 | 10.21 | 10.21 | 10.89 | 10.89 | 10.89 | 10.89 |
| | | S/T | 0.75 | 0.86 | 1.00 | 1.00 | 0.60 | 0.70 | 0.79 | 0.99 | 0.52 | 0.62 | 0.72 | 0.81 | 0.34 | 0.43 | 0.52 | 0.62 |
| | | PI | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.94 | 1.94 | 1.94 | 1.94 | 1.94 | 1.94 | 1.94 | 1.94 |
| | 5 | TC | 9.37 | 9.37 | 9.46 | 9.55 | 9.90 | 9.90 | 9.90 | 9.99 | 10.17 | 10.17 | 10.17 | 10.17 | 10.88 | 10.88 | 10.88 | 10.88 |
| | | S/T | 0.76 | 0.87 | 1.00 | 1.00 | 0.60 | 0.70 | 0.80 | 1.00 | 0.52 | 0.62 | 0.72 | 0.82 | 0.34 | 0.43 | 0.52 | 0.62 |
| | | PI | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.96 | 1.96 | 1.96 | 1.96 |
| | 10 | TC | 9.32 | 9.32 | 9.41 | 9.49 | 9.85 | 9.85 | 9.85 | 9.94 | 10.13 | 10.13 | 10.13 | 10.13 | 10.86 | 10.86 | 10.86 | 10.86 |
| | | S/T | 0.76 | 0.87 | 1.00 | 1.00 | 0.60 | 0.70 | 0.80 | 1.00 | 0.52 | 0.62 | 0.72 | 0.82 | 0.35 | 0.44 | 0.52 | 0.62 |
| | | PI | 1.99 | 1.99 | 1.99 | 1.99 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| | 15 | TC | 9.24 | 9.24 | 9.33 | 9.42 | 9.79 | 9.79 | 9.79 | 9.87 | 10.07 | 10.07 | 10.07 | 10.07 | 10.81 | 10.81 | 10.81 | 10.81 |
| | | S/T | 0.77 | 0.88 | 0.99 | 1.00 | 0.61 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.63 |
| | | PI | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.02 | 2.02 | 2.02 | 2.02 |
| | 20 | TC | 9.14 | 9.14 | 9.22 | 9.31 | 9.68 | 9.68 | 9.68 | 9.77 | 9.97 | 9.97 | 9.97 | 9.97 | 10.72 | 10.72 | 10.72 | 10.72 |
| | | S/T | 0.77 | 0.88 | 0.99 | 1.00 | 0.61 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.63 |
| | | PI | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.09 | 2.09 | 2.09 | 2.09 |
| | 25 | TC | 8.71 | 8.79 | 8.88 | 8.96 | 9.25 | 9.25 | 9.25 | 9.34 | 9.54 | 9.54 | 9.54 | 9.54 | 10.26 | 10.26 | 10.26 | 10.26 |
| | | S/T | 0.79 | 0.90 | 1.00 | 1.00 | 0.61 | 0.72 | 0.83 | 0.93 | 0.53 | 0.64 | 0.74 | 0.85 | 0.34 | 0.44 | 0.54 | 0.64 |
| | | PI | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 |
| | 30 | TC | 8.30 | 8.39 | 8.48 | 8.56 | 8.82 | 8.82 | 8.82 | 8.91 | 9.11 | 9.11 | 9.11 | 9.11 | 9.80 | 9.80 | 9.80 | 9.80 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.73 | 0.85 | 0.96 | 0.53 | 0.64 | 0.76 | 0.87 | 0.34 | 0.44 | 0.54 | 0.65 |
| | | PI | 2.55 | 2.55 | 2.55 | 2.55 | 2.55 | 2.55 | 2.55 | 2.55 | 2.56 | 2.56 | 2.56 | 2.56 | 2.57 | 2.57 | 2.57 | 2.57 |
| | 35 | TC | 7.90 | 7.99 | 8.07 | 8.16 | 8.39 | 8.39 | 8.39 | 8.48 | 8.65 | 8.65 | **8.79** | 8.88 | 9.34 | 9.34 | 9.34 | 9.34 |
| | | S/T | 0.82 | 0.94 | 1.00 | 1.00 | 0.63 | 0.75 | 0.87 | 0.98 | 0.54 | 0.66 | **0.77** | 0.88 | 0.34 | 0.44 | 0.55 | 0.66 |
| | | PI | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | **2.80** | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 |
| | 40 | TC | 7.35 | 7.43 | 7.50 | 7.57 | 7.84 | 7.84 | 7.88 | 7.96 | 8.08 | 8.08 | 8.16 | 8.24 | 8.74 | 8.74 | 8.74 | 8.74 |
| | | S/T | 0.85 | 0.99 | 1.00 | 1.00 | 0.65 | 0.78 | 0.90 | 1.00 | 0.55 | 0.68 | 0.80 | 0.93 | 0.33 | 0.45 | 0.57 | 0.90 |
| | | PI | 3.07 | 3.07 | 3.07 | 3.07 | 3.08 | 3.08 | 3.08 | 3.08 | 3.09 | 3.09 | 3.09 | 3.09 | 3.11 | 3.11 | 3.11 | 3.11 |
| | 46 | TC | 6.79 | 6.85 | 6.91 | 6.97 | 7.28 | 7.28 | 7.36 | 7.45 | 7.51 | 7.51 | 7.51 | 7.59 | 8.13 | 8.13 | 8.13 | 8.13 |
| | | S/T | 0.87 | 1.00 | 1.00 | 1.00 | 0.65 | 0.79 | 0.92 | 1.00 | 0.55 | 0.69 | 0.82 | 0.95 | 0.33 | 0.45 | 0.57 | 0.92 |
| | | PI | 3.42 | 3.42 | 3.42 | 3.42 | 3.43 | 3.43 | 3.43 | 3.43 | 3.44 | 3.44 | 3.44 | 3.44 | 3.47 | 3.47 | 3.47 | 3.47 |
| | 50 | TC | 6.40 | 6.45 | 6.51 | 6.57 | 6.82 | 6.82 | 6.88 | 6.94 | 7.05 | 7.05 | 7.05 | 7.11 | 7.65 | 7.65 | 7.65 | 7.65 |
| | | S/T | 0.89 | 1.00 | 1.00 | 1.00 | 0.67 | 0.81 | 0.96 | 1.00 | 0.56 | 0.70 | 0.85 | 0.98 | 0.33 | 0.46 | 0.59 | 0.97 |
| | | PI | 3.69 | 3.69 | 3.69 | 3.69 | 3.71 | 3.71 | 3.71 | 3.71 | 3.72 | 3.72 | 3.72 | 3.72 | 3.75 | 3.75 | 3.75 | 3.75 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 36k+MOD30U-36HFN8-QRD0W(GA) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 1700 | -15 | TC | 11.49 | 11.49 | 11.61 | 11.73 | 12.08 | 12.08 | 12.08 | 12.20 | 12.38 | 12.38 | 12.38 | 12.38 | 13.15 | 13.15 | 13.15 | 13.15 |
| | | S/T | 0.73 | 0.83 | 1.00 | 1.00 | 0.58 | 0.68 | 0.76 | 0.98 | 0.50 | 0.60 | 0.69 | 0.78 | 0.34 | 0.42 | 0.51 | 0.60 |
| | | PI | 2.74 | 2.74 | 2.74 | 2.74 | 2.73 | 2.73 | 2.73 | 2.73 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 |
| | -10 | TC | 11.42 | 11.42 | 11.54 | 11.66 | 12.01 | 12.01 | 12.01 | 12.13 | 12.32 | 12.32 | 12.32 | 12.32 | 13.11 | 13.11 | 13.11 | 13.11 |
| | | S/T | 0.74 | 0.83 | 1.00 | 1.00 | 0.58 | 0.68 | 0.77 | 0.98 | 0.50 | 0.60 | 0.69 | 0.79 | 0.34 | 0.43 | 0.51 | 0.60 |
| | | PI | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.73 | 2.73 | 2.73 |
| | -5 | TC | 11.35 | 11.35 | 11.47 | 11.59 | 11.97 | 11.97 | 11.97 | 12.08 | 12.28 | 12.28 | 12.28 | 12.28 | 13.07 | 13.07 | 13.07 | 13.07 |
| | | S/T | 0.74 | 0.84 | 1.00 | 1.00 | 0.59 | 0.68 | 0.77 | 0.99 | 0.51 | 0.60 | 0.69 | 0.79 | 0.34 | 0.43 | 0.52 | 0.60 |
| | | PI | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.73 | 2.73 | 2.73 |
| | 0 | TC | 11.29 | 11.29 | 11.41 | 11.53 | 11.92 | 11.92 | 11.92 | 12.04 | 12.24 | 12.24 | 12.24 | 12.24 | 13.06 | 13.06 | 13.06 | 13.06 |
| | | S/T | 0.74 | 0.84 | 1.00 | 1.00 | 0.59 | 0.69 | 0.77 | 0.99 | 0.51 | 0.61 | 0.70 | 0.79 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.74 | 2.74 | 2.74 | 2.74 |
| | 5 | TC | 11.24 | 11.24 | 11.36 | 11.47 | 11.87 | 11.87 | 11.87 | 11.99 | 12.20 | 12.20 | 12.20 | 12.20 | 13.05 | 13.05 | 13.05 | 13.05 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.78 | 1.00 | 0.51 | 0.61 | 0.70 | 0.80 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 |
| | 10 | TC | 11.17 | 11.17 | 11.29 | 11.40 | 11.82 | 11.82 | 11.82 | 11.94 | 12.15 | 12.15 | 12.15 | 12.15 | 13.02 | 13.02 | 13.02 | 13.02 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.78 | 1.00 | 0.51 | 0.61 | 0.70 | 0.80 | 0.35 | 0.44 | 0.52 | 0.61 |
| | | PI | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 |
| | 15 | TC | 11.08 | 11.08 | 11.19 | 11.31 | 11.74 | 11.74 | 11.74 | 11.86 | 12.08 | 12.08 | 12.08 | 12.08 | 12.96 | 12.96 | 12.96 | 12.96 |
| | | S/T | 0.76 | 0.86 | 0.96 | 1.00 | 0.60 | 0.70 | 0.79 | 0.89 | 0.52 | 0.62 | 0.71 | 0.81 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 2.87 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 | 2.85 | 2.85 | 2.85 |
| | 20 | TC | 10.95 | 10.95 | 11.07 | 11.18 | 11.61 | 11.61 | 11.61 | 11.73 | 11.96 | 11.96 | 11.96 | 11.96 | 12.85 | 12.85 | 12.85 | 12.85 |
| | | S/T | 0.76 | 0.86 | 0.96 | 1.00 | 0.60 | 0.70 | 0.79 | 0.89 | 0.52 | 0.62 | 0.71 | 0.81 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 2.97 | 2.97 | 2.97 | 2.97 | 2.96 | 2.96 | 2.96 | 2.96 | 2.95 | 2.95 | 2.95 | 2.95 | 2.94 | 2.94 | 2.94 | 2.94 |
| | 25 | TC | 10.46 | 10.46 | 10.58 | 10.69 | 11.10 | 11.10 | 11.10 | 11.21 | 11.44 | 11.44 | 11.44 | 11.44 | 12.30 | 12.30 | 12.30 | 12.30 |
| | | S/T | 0.77 | 0.88 | 0.98 | 1.00 | 0.60 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 | 3.27 |
| | 30 | TC | 9.98 | 10.06 | 10.18 | 10.29 | 10.61 | 10.61 | 10.61 | 10.72 | 10.92 | 10.92 | 10.92 | 10.92 | 11.76 | 11.76 | 11.76 | 11.76 |
| | | S/T | 0.79 | 0.90 | 1.00 | 1.00 | 0.61 | 0.72 | 0.83 | 0.93 | 0.53 | 0.63 | 0.74 | 0.84 | 0.34 | 0.44 | 0.54 | 0.63 |
| | | PI | 3.59 | 3.59 | 3.59 | 3.59 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.62 | 3.62 | 3.62 | 3.62 |
| | 35 | TC | 9.46 | 9.54 | 9.63 | 9.72 | 10.06 | 10.06 | 10.06 | 10.18 | 10.38 | 10.38 | **10.55** | 10.38 | 11.21 | 11.21 | 11.21 | 11.21 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.73 | 0.85 | 0.95 | 0.53 | 0.64 | **0.75** | 0.86 | 0.34 | 0.44 | 0.54 | 0.65 |
| | | PI | 3.92 | 3.92 | 3.92 | 3.92 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | **3.95** | 3.94 | 3.97 | 3.97 | 3.97 | 3.97 |
| | 40 | TC | 8.83 | 8.91 | 9.00 | 9.08 | 9.40 | 9.40 | 9.44 | 9.54 | 9.70 | 9.70 | 9.79 | 9.74 | 10.50 | 10.50 | 10.50 | 10.50 |
| | | S/T | 0.83 | 0.96 | 1.00 | 1.00 | 0.63 | 0.76 | 0.88 | 1.00 | 0.54 | 0.66 | 0.78 | 0.90 | 0.33 | 0.45 | 0.56 | 0.90 |
| | | PI | 4.32 | 4.32 | 4.32 | 4.32 | 4.34 | 4.34 | 4.34 | 4.34 | 4.35 | 4.35 | 4.36 | 4.35 | 4.39 | 4.39 | 4.39 | 4.39 |
| | 46 | TC | 8.17 | 8.26 | 8.35 | 8.43 | 8.72 | 8.72 | 8.80 | 8.89 | 9.00 | 9.00 | 9.00 | 9.09 | 9.77 | 9.77 | 9.77 | 9.77 |
| | | S/T | 0.85 | 0.98 | 1.00 | 1.00 | 0.64 | 0.77 | 0.90 | 1.00 | 0.55 | 0.67 | 0.80 | 0.92 | 0.33 | 0.45 | 0.56 | 0.92 |
| | | PI | 4.81 | 4.81 | 4.81 | 4.81 | 4.83 | 4.83 | 4.83 | 4.83 | 4.85 | 4.85 | 4.85 | 4.85 | 4.89 | 4.89 | 4.89 | 4.89 |
| | 50 | TC | 7.66 | 7.75 | 7.83 | 7.92 | 8.20 | 8.20 | 8.29 | 8.37 | 8.49 | 8.49 | 8.49 | 8.57 | 9.20 | 9.20 | 9.20 | 9.20 |
| | | S/T | 0.87 | 1.00 | 1.00 | 1.00 | 0.65 | 0.79 | 0.93 | 1.00 | 0.55 | 0.69 | 0.82 | 0.95 | 0.33 | 0.45 | 0.57 | 0.97 |
| | | PI | 5.21 | 5.21 | 5.21 | 5.21 | 5.23 | 5.23 | 5.23 | 5.23 | 5.25 | 5.25 | 5.25 | 5.25 | 5.29 | 5.29 | 5.29 | 5.29 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 36k+MOD30U-36HFN8-RRD0W(GA) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 1700 | -15 | TC | 11.49 | 11.49 | 11.61 | 11.73 | 12.08 | 12.08 | 12.08 | 12.20 | 12.38 | 12.38 | 12.38 | 12.38 | 13.15 | 13.15 | 13.15 | 13.15 |
| | | S/T | 0.73 | 0.83 | 1.00 | 1.00 | 0.58 | 0.68 | 0.76 | 0.98 | 0.50 | 0.60 | 0.69 | 0.78 | 0.34 | 0.42 | 0.51 | 0.60 |
| | | PI | 2.71 | 2.71 | 2.71 | 2.71 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.70 | 2.70 | 2.70 | 2.69 | 2.69 | 2.69 | 2.69 |
| | -10 | TC | 11.42 | 11.42 | 11.54 | 11.66 | 12.01 | 12.01 | 12.01 | 12.13 | 12.32 | 12.32 | 12.32 | 12.32 | 13.11 | 13.11 | 13.11 | 13.11 |
| | | S/T | 0.74 | 0.83 | 1.00 | 1.00 | 0.58 | 0.68 | 0.77 | 0.98 | 0.50 | 0.60 | 0.69 | 0.79 | 0.34 | 0.43 | 0.51 | 0.60 |
| | | PI | 2.70 | 2.70 | 2.70 | 2.70 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 |
| | -5 | TC | 11.35 | 11.35 | 11.47 | 11.59 | 11.97 | 11.97 | 11.97 | 12.08 | 12.28 | 12.28 | 12.28 | 12.28 | 13.07 | 13.07 | 13.07 | 13.07 |
| | | S/T | 0.74 | 0.84 | 1.00 | 1.00 | 0.59 | 0.68 | 0.77 | 0.99 | 0.51 | 0.60 | 0.69 | 0.79 | 0.34 | 0.43 | 0.52 | 0.60 |
| | | PI | 2.69 | 2.69 | 2.69 | 2.69 | 2.68 | 2.68 | 2.68 | 2.68 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 |
| | 0 | TC | 11.29 | 11.29 | 11.41 | 11.53 | 11.92 | 11.92 | 11.92 | 12.04 | 12.24 | 12.24 | 12.24 | 12.24 | 13.06 | 13.06 | 13.06 | 13.06 |
| | | S/T | 0.74 | 0.84 | 1.00 | 1.00 | 0.59 | 0.69 | 0.77 | 0.99 | 0.51 | 0.61 | 0.70 | 0.79 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 2.70 | 2.70 | 2.70 | 2.70 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 |
| | 5 | TC | 11.24 | 11.24 | 11.36 | 11.47 | 11.87 | 11.87 | 11.87 | 11.99 | 12.20 | 12.20 | 12.20 | 12.20 | 13.05 | 13.05 | 13.05 | 13.05 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.78 | 1.00 | 0.51 | 0.61 | 0.70 | 0.80 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 2.73 | 2.73 | 2.73 | 2.73 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 | 2.72 |
| | 10 | TC | 11.17 | 11.17 | 11.29 | 11.40 | 11.82 | 11.82 | 11.82 | 11.94 | 12.15 | 12.15 | 12.15 | 12.15 | 13.02 | 13.02 | 13.02 | 13.02 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.78 | 1.00 | 0.51 | 0.61 | 0.70 | 0.80 | 0.35 | 0.44 | 0.52 | 0.61 |
| | | PI | 2.77 | 2.77 | 2.77 | 2.77 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| | 15 | TC | 11.08 | 11.08 | 11.19 | 11.31 | 11.74 | 11.74 | 11.74 | 11.86 | 12.08 | 12.08 | 12.08 | 12.08 | 12.96 | 12.96 | 12.96 | 12.96 |
| | | S/T | 0.76 | 0.86 | 0.96 | 1.00 | 0.60 | 0.70 | 0.79 | 0.89 | 0.52 | 0.62 | 0.71 | 0.81 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 2.84 | 2.84 | 2.84 | 2.84 | 2.82 | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 |
| | 20 | TC | 10.95 | 10.95 | 11.07 | 11.18 | 11.61 | 11.61 | 11.61 | 11.73 | 11.96 | 11.96 | 11.96 | 11.96 | 12.85 | 12.85 | 12.85 | 12.85 |
| | | S/T | 0.76 | 0.86 | 0.96 | 1.00 | 0.60 | 0.70 | 0.79 | 0.89 | 0.52 | 0.62 | 0.71 | 0.81 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 2.94 | 2.94 | 2.94 | 2.94 | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 | 2.90 | 2.90 | 2.90 | 2.90 |
| | 25 | TC | 10.46 | 10.46 | 10.58 | 10.69 | 11.10 | 11.10 | 11.10 | 11.21 | 11.44 | 11.44 | 11.44 | 11.44 | 12.30 | 12.30 | 12.30 | 12.30 |
| | | S/T | 0.77 | 0.88 | 0.98 | 1.00 | 0.60 | 0.71 | 0.81 | 0.91 | 0.53 | 0.63 | 0.73 | 0.83 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 | 3.23 |
| | 30 | TC | 9.98 | 10.06 | 10.18 | 10.29 | 10.61 | 10.61 | 10.61 | 10.72 | 10.92 | 10.92 | 10.92 | 10.92 | 11.76 | 11.76 | 11.76 | 11.76 |
| | | S/T | 0.79 | 0.90 | 1.00 | 1.00 | 0.61 | 0.72 | 0.83 | 0.93 | 0.53 | 0.63 | 0.74 | 0.84 | 0.34 | 0.44 | 0.54 | 0.63 |
| | | PI | 3.54 | 3.54 | 3.54 | 3.54 | 3.55 | 3.55 | 3.55 | 3.55 | 3.56 | 3.56 | 3.56 | 3.56 | 3.57 | 3.57 | 3.57 | 3.57 |
| | 35 | TC | 9.46 | 9.54 | 9.63 | 9.72 | 10.06 | 10.06 | 10.06 | 10.18 | 10.38 | 10.38 | **10.55** | 10.38 | 11.21 | 11.21 | 11.21 | 11.21 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.73 | 0.85 | 0.95 | 0.53 | 0.64 | **0.75** | 0.86 | 0.34 | 0.44 | 0.54 | 0.65 |
| | | PI | 3.87 | 3.87 | 3.87 | 3.87 | 3.89 | 3.89 | 3.89 | 3.89 | 3.89 | 3.89 | **3.90** | 3.89 | 3.92 | 3.92 | 3.92 | 3.92 |
| | 40 | TC | 8.83 | 8.91 | 9.00 | 9.08 | 9.40 | 9.40 | 9.44 | 9.54 | 9.70 | 9.70 | 9.79 | 9.74 | 10.50 | 10.50 | 10.50 | 10.50 |
| | | S/T | 0.83 | 0.96 | 1.00 | 1.00 | 0.63 | 0.76 | 0.88 | 1.00 | 0.54 | 0.66 | 0.78 | 0.90 | 0.33 | 0.45 | 0.56 | 0.90 |
| | | PI | 4.27 | 4.27 | 4.27 | 4.27 | 4.29 | 4.29 | 4.29 | 4.29 | 4.30 | 4.30 | 4.30 | 4.30 | 4.33 | 4.33 | 4.33 | 4.33 |
| | 46 | TC | 8.17 | 8.26 | 8.35 | 8.43 | 8.72 | 8.72 | 8.80 | 8.89 | 9.00 | 9.00 | 9.00 | 9.09 | 9.77 | 9.77 | 9.77 | 9.77 |
| | | S/T | 0.85 | 0.98 | 1.00 | 1.00 | 0.64 | 0.77 | 0.90 | 1.00 | 0.55 | 0.67 | 0.80 | 0.92 | 0.33 | 0.45 | 0.56 | 0.92 |
| | | PI | 4.75 | 4.75 | 4.75 | 4.75 | 4.77 | 4.77 | 4.77 | 4.77 | 4.79 | 4.79 | 4.79 | 4.79 | 4.83 | 4.83 | 4.83 | 4.83 |
| | 50 | TC | 7.66 | 7.75 | 7.83 | 7.92 | 8.20 | 8.20 | 8.29 | 8.37 | 8.49 | 8.49 | 8.49 | 8.57 | 9.20 | 9.20 | 9.20 | 9.20 |
| | | S/T | 0.87 | 1.00 | 1.00 | 1.00 | 0.65 | 0.79 | 0.93 | 1.00 | 0.55 | 0.69 | 0.82 | 0.95 | 0.33 | 0.45 | 0.57 | 0.97 |
| | | PI | 5.14 | 5.14 | 5.14 | 5.14 | 5.17 | 5.17 | 5.17 | 5.17 | 5.18 | 5.18 | 5.18 | 5.18 | 5.22 | 5.22 | 5.22 | 5.22 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 42k | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 2000 | -15 | TC | 13.18 | 13.18 | 13.30 | 13.42 | 13.87 | 13.87 | 13.87 | 14.02 | 14.23 | 14.23 | 14.23 | 14.23 | 15.09 | 15.09 | 15.09 | 15.09 |
| | | S/T | 0.74 | 0.84 | 1.00 | 1.00 | 0.58 | 0.68 | 0.77 | 0.98 | 0.50 | 0.60 | 0.70 | 0.79 | 0.34 | 0.42 | 0.51 | 0.60 |
| | | PI | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| | -10 | TC | 13.10 | 13.10 | 13.22 | 13.34 | 13.80 | 13.80 | 13.80 | 13.94 | 14.16 | 14.16 | 14.16 | 14.16 | 15.04 | 15.04 | 15.04 | 15.04 |
| | | S/T | 0.75 | 0.84 | 1.00 | 1.00 | 0.58 | 0.68 | 0.78 | 0.98 | 0.50 | 0.60 | 0.70 | 0.80 | 0.34 | 0.43 | 0.51 | 0.60 |
| | | PI | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| | -5 | TC | 13.02 | 13.02 | 13.14 | 13.26 | 13.74 | 13.74 | 13.74 | 13.89 | 14.11 | 14.11 | 14.11 | 14.11 | 15.00 | 15.00 | 15.00 | 15.00 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.68 | 0.78 | 0.99 | 0.51 | 0.60 | 0.70 | 0.80 | 0.34 | 0.43 | 0.52 | 0.60 |
| | | PI | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 |
| | 0 | TC | 12.95 | 12.95 | 13.07 | 13.19 | 13.69 | 13.69 | 13.69 | 13.84 | 14.07 | 14.07 | 14.07 | 14.07 | 14.99 | 14.99 | 14.99 | 14.99 |
| | | S/T | 0.75 | 0.85 | 1.00 | 1.00 | 0.59 | 0.69 | 0.78 | 0.99 | 0.51 | 0.61 | 0.71 | 0.80 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 |
| | 5 | TC | 12.89 | 12.89 | 13.01 | 13.13 | 13.64 | 13.64 | 13.64 | 13.79 | 14.02 | 14.02 | 14.02 | 14.02 | 14.98 | 14.98 | 14.98 | 14.98 |
| | | S/T | 0.76 | 0.86 | 1.00 | 1.00 | 0.59 | 0.69 | 0.79 | 1.00 | 0.51 | 0.61 | 0.71 | 0.81 | 0.34 | 0.43 | 0.52 | 0.61 |
| | | PI | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 |
| | 10 | TC | 12.81 | 12.81 | 12.93 | 13.05 | 13.57 | 13.57 | 13.57 | 13.72 | 13.96 | 13.96 | 13.96 | 13.96 | 14.94 | 14.94 | 14.94 | 14.94 |
| | | S/T | 0.76 | 0.86 | 1.00 | 1.00 | 0.59 | 0.69 | 0.79 | 1.00 | 0.51 | 0.61 | 0.71 | 0.81 | 0.35 | 0.44 | 0.52 | 0.61 |
| | | PI | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| | 15 | TC | 12.71 | 12.71 | 12.82 | 12.94 | 13.48 | 13.48 | 13.48 | 13.63 | 13.88 | 13.88 | 13.88 | 13.88 | 14.88 | 14.88 | 14.88 | 14.88 |
| | | S/T | 0.77 | 0.87 | 0.98 | 1.00 | 0.60 | 0.70 | 0.80 | 0.90 | 0.52 | 0.62 | 0.72 | 0.82 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 2.91 | 2.91 | 2.91 | 2.91 | 2.90 | 2.90 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 |
| | 20 | TC | 12.56 | 12.56 | 12.68 | 12.79 | 13.34 | 13.34 | 13.34 | 13.48 | 13.74 | 13.74 | 13.74 | 13.74 | 14.75 | 14.75 | 14.75 | 14.75 |
| | | S/T | 0.77 | 0.87 | 0.98 | 1.00 | 0.60 | 0.70 | 0.80 | 0.90 | 0.52 | 0.62 | 0.72 | 0.82 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 3.01 | 3.01 | 3.01 | 3.01 | 3.00 | 3.00 | 3.00 | 3.00 | 2.99 | 2.99 | 2.99 | 2.99 | 2.98 | 2.98 | 2.98 | 2.98 |
| | 25 | TC | 11.99 | 12.10 | 12.22 | 12.33 | 12.74 | 12.74 | 12.74 | 12.85 | 13.11 | 13.11 | 13.11 | 13.11 | 14.12 | 14.12 | 14.12 | 14.12 |
| | | S/T | 0.78 | 0.89 | 0.99 | 1.00 | 0.61 | 0.71 | 0.82 | 0.92 | 0.53 | 0.63 | 0.73 | 0.84 | 0.34 | 0.44 | 0.53 | 0.63 |
| | | PI | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 |
| | 30 | TC | 11.44 | 11.56 | 11.67 | 11.79 | 12.16 | 12.16 | 12.16 | 12.28 | 12.54 | 12.54 | 12.54 | 12.54 | 13.48 | 13.48 | 13.48 | 13.48 |
| | | S/T | 0.79 | 0.91 | 1.00 | 1.00 | 0.61 | 0.72 | 0.84 | 0.94 | 0.53 | 0.64 | 0.75 | 0.85 | 0.34 | 0.44 | 0.54 | 0.64 |
| | | PI | 3.63 | 3.63 | 3.63 | 3.63 | 3.64 | 3.64 | 3.64 | 3.64 | 3.65 | 3.65 | 3.65 | 3.65 | 3.66 | 3.66 | 3.66 | 3.66 |
| | 35 | TC | 10.87 | 10.98 | 11.10 | 11.21 | 11.56 | 11.56 | 11.56 | 11.67 | 11.93 | 11.93 | **12.10** | 11.93 | 12.85 | 12.85 | 12.85 | 12.85 |
| | | S/T | 0.81 | 0.93 | 1.00 | 1.00 | 0.62 | 0.74 | 0.85 | 0.97 | 0.54 | 0.65 | **0.76** | 0.87 | 0.34 | 0.44 | 0.55 | 0.65 |
| | | PI | 3.97 | 3.97 | 3.97 | 3.97 | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | **4.00** | 3.99 | 4.02 | 4.02 | 4.02 | 4.02 |
| | 40 | TC | 10.11 | 10.21 | 10.31 | 10.42 | 10.78 | 10.78 | 10.83 | 10.95 | 11.13 | 11.13 | 11.22 | 11.18 | 12.01 | 12.01 | 12.01 | 12.01 |
| | | S/T | 0.84 | 0.97 | 1.00 | 1.00 | 0.64 | 0.77 | 0.89 | 1.00 | 0.55 | 0.67 | 0.79 | 0.91 | 0.33 | 0.45 | 0.56 | 0.90 |
| | | PI | 4.38 | 4.38 | 4.38 | 4.38 | 4.40 | 4.40 | 4.40 | 4.40 | 4.41 | 4.41 | 4.41 | 4.41 | 4.44 | 4.44 | 4.44 | 4.44 |
| | 46 | TC | 9.35 | 9.44 | 9.52 | 9.61 | 10.01 | 10.01 | 10.12 | 10.23 | 10.32 | 10.32 | 10.32 | 10.43 | 11.17 | 11.17 | 11.17 | 11.17 |
| | | S/T | 0.86 | 0.99 | 1.00 | 1.00 | 0.65 | 0.78 | 0.91 | 1.00 | 0.55 | 0.68 | 0.81 | 0.93 | 0.33 | 0.45 | 0.57 | 0.92 |
| | | PI | 4.87 | 4.87 | 4.87 | 4.87 | 4.89 | 4.89 | 4.89 | 4.89 | 4.91 | 4.91 | 4.91 | 4.91 | 4.95 | 4.95 | 4.95 | 4.95 |
| | 50 | TC | 8.78 | 8.87 | 8.96 | 9.04 | 9.38 | 9.38 | 9.47 | 9.55 | 9.69 | 9.69 | 9.69 | 9.78 | 10.52 | 10.52 | 10.52 | 10.52 |
| | | S/T | 0.88 | 1.00 | 1.00 | 1.00 | 0.66 | 0.80 | 0.94 | 1.00 | 0.56 | 0.70 | 0.83 | 0.97 | 0.33 | 0.45 | 0.58 | 0.97 |
| | | PI | 5.27 | 5.27 | 5.27 | 5.27 | 5.30 | 5.30 | 5.30 | 5.30 | 5.31 | 5.31 | 5.31 | 5.31 | 5.35 | 5.35 | 5.35 | 5.35 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 48k(match with MOX630U-48HFN8-QRD0W(GA)) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 2000 | -15 | TC | 15.33 | 15.33 | 15.48 | 15.63 | 16.12 | 16.12 | 16.12 | 16.12 | 16.53 | 16.53 | 16.53 | 16.53 | 17.54 | 17.54 | 17.54 | 17.54 |
| | | S/T | 0.70 | 0.79 | 1.00 | 1.00 | 0.56 | 0.65 | 0.73 | 0.98 | 0.50 | 0.58 | 0.66 | 0.74 | 0.35 | 0.42 | 0.49 | 0.57 |
| | | PI | 3.26 | 3.26 | 3.26 | 3.26 | 3.25 | 3.25 | 3.25 | 3.25 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 |
| | -10 | TC | 15.23 | 15.23 | 15.38 | 15.53 | 16.03 | 16.03 | 16.03 | 16.03 | 16.45 | 16.45 | 16.45 | 16.45 | 17.48 | 17.48 | 17.48 | 17.48 |
| | | S/T | 0.71 | 0.80 | 1.00 | 1.00 | 0.56 | 0.65 | 0.74 | 0.98 | 0.50 | 0.58 | 0.66 | 0.75 | 0.35 | 0.43 | 0.49 | 0.57 |
| | | PI | 3.25 | 3.25 | 3.25 | 3.25 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.25 | 3.25 | 3.25 | 3.25 |
| | -5 | TC | 15.14 | 15.14 | 15.29 | 15.44 | 15.97 | 15.97 | 15.97 | 15.97 | 16.38 | 16.38 | 16.38 | 16.38 | 17.44 | 17.44 | 17.44 | 17.44 |
| | | S/T | 0.71 | 0.80 | 1.00 | 1.00 | 0.57 | 0.65 | 0.74 | 0.99 | 0.51 | 0.59 | 0.66 | 0.75 | 0.35 | 0.43 | 0.50 | 0.58 |
| | | PI | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.24 | 3.25 | 3.25 | 3.25 | 3.25 |
| | 0 | TC | 15.07 | 15.07 | 15.22 | 15.36 | 15.91 | 15.91 | 15.91 | 15.91 | 16.34 | 16.34 | 16.34 | 16.34 | 17.42 | 17.42 | 17.42 | 17.42 |
| | | S/T | 0.72 | 0.80 | 1.00 | 1.00 | 0.57 | 0.66 | 0.74 | 0.99 | 0.51 | 0.59 | 0.67 | 0.75 | 0.35 | 0.43 | 0.50 | 0.58 |
| | | PI | 3.26 | 3.26 | 3.26 | 3.26 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.26 | 3.26 | 3.26 | 3.26 |
| | 5 | TC | 14.99 | 14.99 | 15.14 | 15.29 | 15.85 | 15.85 | 15.85 | 15.85 | 16.29 | 16.29 | 16.29 | 16.29 | 17.41 | 17.41 | 17.41 | 17.41 |
| | | S/T | 0.72 | 0.81 | 1.00 | 1.00 | 0.57 | 0.66 | 0.75 | 1.00 | 0.51 | 0.59 | 0.67 | 0.76 | 0.35 | 0.43 | 0.50 | 0.58 |
| | | PI | 3.29 | 3.29 | 3.29 | 3.29 | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.29 | 3.29 | 3.29 | 3.29 |
| | 10 | TC | 14.90 | 14.90 | 15.05 | 15.19 | 15.78 | 15.78 | 15.78 | 15.78 | 16.22 | 16.22 | 16.22 | 16.22 | 17.36 | 17.36 | 17.36 | 17.36 |
| | | S/T | 0.72 | 0.81 | 1.00 | 1.00 | 0.57 | 0.66 | 0.75 | 1.00 | 0.51 | 0.59 | 0.67 | 0.76 | 0.36 | 0.44 | 0.50 | 0.58 |
| | | PI | 3.34 | 3.34 | 3.34 | 3.34 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 |
| | 15 | TC | 14.78 | 14.78 | 14.93 | 15.07 | 15.67 | 15.67 | 15.67 | 15.67 | 16.12 | 16.12 | 16.12 | 16.12 | 17.29 | 17.29 | 17.29 | 17.29 |
| | | S/T | 0.73 | 0.82 | 0.91 | 1.00 | 0.58 | 0.67 | 0.76 | 0.84 | 0.52 | 0.60 | 0.68 | 0.77 | 0.36 | 0.44 | 0.51 | 0.59 |
| | | PI | 3.42 | 3.42 | 3.42 | 3.42 | 3.41 | 3.41 | 3.41 | 3.41 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 |
| | 20 | TC | 14.61 | 14.61 | 14.76 | 14.90 | 15.50 | 15.50 | 15.50 | 15.50 | 15.96 | 15.96 | 15.96 | 15.96 | 17.14 | 17.14 | 17.14 | 17.14 |
| | | S/T | 0.73 | 0.82 | 0.91 | 1.00 | 0.58 | 0.67 | 0.76 | 0.84 | 0.52 | 0.60 | 0.68 | 0.77 | 0.36 | 0.44 | 0.51 | 0.59 |
| | | PI | 3.54 | 3.54 | 3.54 | 3.54 | 3.52 | 3.52 | 3.52 | 3.52 | 3.51 | 3.51 | 3.51 | 3.51 | 3.50 | 3.50 | 3.50 | 3.50 |
| | 25 | TC | 13.95 | 13.95 | 14.10 | 14.24 | 14.81 | 14.81 | 14.81 | 14.81 | 15.25 | 15.25 | 15.25 | 15.25 | 16.42 | 16.42 | 16.42 | 16.42 |
| | | S/T | 0.74 | 0.84 | 0.93 | 1.00 | 0.59 | 0.68 | 0.77 | 0.86 | 0.52 | 0.61 | 0.69 | 0.78 | 0.36 | 0.44 | 0.52 | 0.60 |
| | | PI | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 | 3.90 |
| | 30 | TC | 13.29 | 13.29 | 13.44 | 13.58 | 14.13 | 14.13 | 14.13 | 14.13 | 14.56 | 14.56 | 14.56 | 14.56 | 15.68 | 15.68 | 15.68 | 15.68 |
| | | S/T | 0.75 | 0.85 | 0.95 | 1.00 | 0.59 | 0.69 | 0.78 | 0.88 | 0.52 | 0.61 | 0.70 | 0.80 | 0.35 | 0.44 | 0.52 | 0.61 |
| | | PI | 4.27 | 4.27 | 4.27 | 4.27 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.30 | 4.30 | 4.30 | 4.30 |
| | 35 | TC | 12.63 | 12.63 | 12.75 | 12.86 | 13.44 | 13.44 | 13.44 | 13.58 | 13.87 | 13.87 | **14.07** | 13.87 | 14.96 | 14.96 | 14.96 | 14.96 |
| | | S/T | 0.76 | 0.87 | 0.97 | 1.00 | 0.60 | 0.70 | 0.80 | 0.90 | 0.52 | 0.62 | **0.71** | 0.81 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 4.67 | 4.67 | 4.67 | 4.67 | 4.68 | 4.68 | 4.68 | 4.68 | 4.69 | 4.69 | **4.70** | 4.69 | 4.72 | 4.72 | 4.72 | 4.72 |
| | 40 | TC | 11.91 | 11.96 | 12.07 | 12.19 | 12.69 | 12.69 | 12.69 | 12.82 | 13.09 | 13.09 | 13.20 | 13.09 | 14.14 | 14.14 | 14.14 | 14.14 |
| | | S/T | 0.79 | 0.90 | 1.00 | 1.00 | 0.61 | 0.72 | 0.83 | 0.94 | 0.53 | 0.64 | 0.74 | 0.85 | 0.34 | 0.44 | 0.54 | 0.90 |
| | | PI | 5.15 | 5.15 | 5.15 | 5.15 | 5.17 | 5.17 | 5.17 | 5.17 | 5.18 | 5.18 | 5.19 | 5.18 | 5.22 | 5.22 | 5.22 | 5.22 |
| | 46 | TC | 11.01 | 11.13 | 11.24 | 11.36 | 11.76 | 11.76 | 11.76 | 11.87 | 12.13 | 12.13 | 12.13 | 12.13 | 13.14 | 13.14 | 13.14 | 13.14 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.73 | 0.85 | 0.96 | 0.53 | 0.64 | 0.76 | 0.87 | 0.34 | 0.44 | 0.54 | 0.92 |
| | | PI | 5.73 | 5.73 | 5.73 | 5.73 | 5.75 | 5.75 | 5.75 | 5.75 | 5.77 | 5.77 | 5.77 | 5.77 | 5.82 | 5.82 | 5.82 | 5.82 |
| | 50 | TC | 10.35 | 10.47 | 10.58 | 10.70 | 11.07 | 11.07 | 11.07 | 11.18 | 11.41 | 11.41 | 11.41 | 11.53 | 12.39 | 12.39 | 12.39 | 12.39 |
| | | S/T | 0.82 | 0.95 | 1.00 | 1.00 | 0.63 | 0.75 | 0.87 | 0.99 | 0.54 | 0.66 | 0.78 | 0.89 | 0.34 | 0.44 | 0.55 | 0.97 |
| | | PI | 6.20 | 6.20 | 6.20 | 6.20 | 6.23 | 6.23 | 6.23 | 6.23 | 6.25 | 6.25 | 6.25 | 6.25 | 6.30 | 6.30 | 6.30 | 6.30 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 48k(match with MOX630U-48HFN8-RRD0W(GA)) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 2000 | -15 | TC | 15.33 | 15.33 | 15.48 | 15.63 | 16.12 | 16.12 | 16.12 | 16.12 | 16.53 | 16.53 | 16.53 | 16.53 | 17.54 | 17.54 | 17.54 | 17.54 |
| | | S/T | 0.70 | 0.79 | 1.00 | 1.00 | 0.56 | 0.65 | 0.73 | 0.98 | 0.50 | 0.58 | 0.66 | 0.74 | 0.35 | 0.42 | 0.49 | 0.57 |
| | | PI | 3.12 | 3.12 | 3.12 | 3.12 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.10 | 3.10 | 3.10 | 3.10 |
| | -10 | TC | 15.23 | 15.23 | 15.38 | 15.53 | 16.03 | 16.03 | 16.03 | 16.03 | 16.45 | 16.45 | 16.45 | 16.45 | 17.48 | 17.48 | 17.48 | 17.48 |
| | | S/T | 0.71 | 0.80 | 1.00 | 1.00 | 0.56 | 0.65 | 0.74 | 0.98 | 0.50 | 0.58 | 0.66 | 0.75 | 0.35 | 0.43 | 0.49 | 0.57 |
| | | PI | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.11 | 3.11 | 3.11 | 3.11 |
| | -5 | TC | 15.14 | 15.14 | 15.29 | 15.44 | 15.97 | 15.97 | 15.97 | 15.97 | 16.38 | 16.38 | 16.38 | 16.38 | 17.44 | 17.44 | 17.44 | 17.44 |
| | | S/T | 0.71 | 0.80 | 1.00 | 1.00 | 0.57 | 0.65 | 0.74 | 0.99 | 0.51 | 0.59 | 0.66 | 0.75 | 0.35 | 0.43 | 0.50 | 0.58 |
| | | PI | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.11 | 3.11 | 3.11 | 3.11 |
| | 0 | TC | 15.07 | 15.07 | 15.22 | 15.36 | 15.91 | 15.91 | 15.91 | 15.91 | 16.34 | 16.34 | 16.34 | 16.34 | 17.42 | 17.42 | 17.42 | 17.42 |
| | | S/T | 0.72 | 0.80 | 1.00 | 1.00 | 0.57 | 0.66 | 0.74 | 0.99 | 0.51 | 0.59 | 0.67 | 0.75 | 0.35 | 0.43 | 0.50 | 0.58 |
| | | PI | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.12 | 3.12 | 3.12 | 3.12 |
| | 5 | TC | 14.99 | 14.99 | 15.14 | 15.29 | 15.85 | 15.85 | 15.85 | 15.85 | 16.29 | 16.29 | 16.29 | 16.29 | 17.41 | 17.41 | 17.41 | 17.41 |
| | | S/T | 0.72 | 0.81 | 1.00 | 1.00 | 0.57 | 0.66 | 0.75 | 1.00 | 0.51 | 0.59 | 0.67 | 0.76 | 0.35 | 0.43 | 0.50 | 0.58 |
| | | PI | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | 3.15 | 3.15 | 3.15 | 3.15 |
| | 10 | TC | 14.90 | 14.90 | 15.05 | 15.19 | 15.78 | 15.78 | 15.78 | 15.78 | 16.22 | 16.22 | 16.22 | 16.22 | 17.36 | 17.36 | 17.36 | 17.36 |
| | | S/T | 0.72 | 0.81 | 1.00 | 1.00 | 0.57 | 0.66 | 0.75 | 1.00 | 0.51 | 0.59 | 0.67 | 0.76 | 0.36 | 0.44 | 0.50 | 0.58 |
| | | PI | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.18 | 3.18 | 3.18 | 3.18 | 3.19 | 3.19 | 3.19 | 3.19 |
| | 15 | TC | 14.78 | 14.78 | 14.93 | 15.07 | 15.67 | 15.67 | 15.67 | 15.67 | 16.12 | 16.12 | 16.12 | 16.12 | 17.29 | 17.29 | 17.29 | 17.29 |
| | | S/T | 0.73 | 0.82 | 0.91 | 1.00 | 0.58 | 0.67 | 0.76 | 0.84 | 0.52 | 0.60 | 0.68 | 0.77 | 0.36 | 0.44 | 0.51 | 0.59 |
| | | PI | 3.27 | 3.27 | 3.27 | 3.27 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 |
| | 20 | TC | 14.61 | 14.61 | 14.76 | 14.90 | 15.50 | 15.50 | 15.50 | 15.50 | 15.96 | 15.96 | 15.96 | 15.96 | 17.14 | 17.14 | 17.14 | 17.14 |
| | | S/T | 0.73 | 0.82 | 0.91 | 1.00 | 0.58 | 0.67 | 0.76 | 0.84 | 0.52 | 0.60 | 0.68 | 0.77 | 0.36 | 0.44 | 0.51 | 0.59 |
| | | PI | 3.38 | 3.38 | 3.38 | 3.38 | 3.37 | 3.37 | 3.37 | 3.37 | 3.36 | 3.36 | 3.36 | 3.36 | 3.35 | 3.35 | 3.35 | 3.35 |
| | 25 | TC | 13.95 | 13.95 | 14.10 | 14.24 | 14.81 | 14.81 | 14.81 | 14.81 | 15.25 | 15.25 | 15.25 | 15.25 | 16.42 | 16.42 | 16.42 | 16.42 |
| | | S/T | 0.74 | 0.84 | 0.93 | 1.00 | 0.59 | 0.68 | 0.77 | 0.86 | 0.52 | 0.61 | 0.69 | 0.78 | 0.36 | 0.44 | 0.52 | 0.60 |
| | | PI | 3.74 | 3.74 | 3.74 | 3.74 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.74 | 3.74 | 3.74 | 3.74 |
| | 30 | TC | 13.29 | 13.29 | 13.44 | 13.58 | 14.13 | 14.13 | 14.13 | 14.13 | 14.56 | 14.56 | 14.56 | 14.56 | 15.68 | 15.68 | 15.68 | 15.68 |
| | | S/T | 0.75 | 0.85 | 0.95 | 1.00 | 0.59 | 0.69 | 0.78 | 0.88 | 0.52 | 0.61 | 0.70 | 0.80 | 0.35 | 0.44 | 0.52 | 0.61 |
| | | PI | 4.09 | 4.09 | 4.09 | 4.09 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.12 | 4.12 | 4.12 | 4.12 |
| | 35 | TC | 12.63 | 12.63 | 12.75 | 12.86 | 13.44 | 13.44 | 13.44 | 13.58 | 13.87 | 13.87 | **14.07** | 13.87 | 14.96 | 14.96 | 14.96 | 14.96 |
| | | S/T | 0.76 | 0.87 | 0.97 | 1.00 | 0.60 | 0.70 | 0.80 | 0.90 | 0.52 | 0.62 | **0.71** | 0.81 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 4.47 | 4.47 | 4.47 | 4.47 | 4.48 | 4.48 | 4.48 | 4.48 | 4.49 | 4.49 | **4.50** | 4.49 | 4.52 | 4.52 | 4.52 | 4.52 |
| | 40 | TC | 11.91 | 11.96 | 12.07 | 12.19 | 12.69 | 12.69 | 12.69 | 12.82 | 13.09 | 13.09 | 13.20 | 13.09 | 14.14 | 14.14 | 14.14 | 14.14 |
| | | S/T | 0.79 | 0.90 | 1.00 | 1.00 | 0.61 | 0.72 | 0.83 | 0.94 | 0.53 | 0.64 | 0.74 | 0.85 | 0.34 | 0.44 | 0.54 | 0.90 |
| | | PI | 4.93 | 4.93 | 4.93 | 4.93 | 4.95 | 4.95 | 4.95 | 4.95 | 4.96 | 4.96 | 4.96 | 4.96 | 5.00 | 5.00 | 5.00 | 5.00 |
| | 46 | TC | 11.01 | 11.13 | 11.24 | 11.36 | 11.76 | 11.76 | 11.76 | 11.87 | 12.13 | 12.13 | 12.13 | 12.13 | 13.14 | 13.14 | 13.14 | 13.14 |
| | | S/T | 0.80 | 0.92 | 1.00 | 1.00 | 0.62 | 0.73 | 0.85 | 0.96 | 0.53 | 0.64 | 0.76 | 0.87 | 0.34 | 0.44 | 0.54 | 0.92 |
| | | PI | 5.48 | 5.48 | 5.48 | 5.48 | 5.51 | 5.51 | 5.51 | 5.51 | 5.52 | 5.52 | 5.52 | 5.52 | 5.57 | 5.57 | 5.57 | 5.57 |
| | 50 | TC | 10.35 | 10.47 | 10.58 | 10.70 | 11.07 | 11.07 | 11.07 | 11.18 | 11.41 | 11.41 | 11.41 | 11.53 | 12.39 | 12.39 | 12.39 | 12.39 |
| | | S/T | 0.82 | 0.95 | 1.00 | 1.00 | 0.63 | 0.75 | 0.87 | 0.99 | 0.54 | 0.66 | 0.78 | 0.89 | 0.34 | 0.44 | 0.55 | 0.97 |
| | | PI | 5.94 | 5.94 | 5.94 | 5.94 | 5.96 | 5.96 | 5.96 | 5.96 | 5.98 | 5.98 | 5.98 | 5.98 | 6.03 | 6.03 | 6.03 | 6.03 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 55k | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | OUTDOOR DB(℃) | ID WB (℃) | 16.0 | | | | 18.0 | | | | 19.0 | | | | 22.0 | | | |
| | | ID DB (℃) | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 | 23.0 | 25.0 | 27.0 | 29.0 |
| High speed: 2200 | -15 | TC | 16.62 | 16.62 | 16.80 | 16.98 | 17.46 | 17.46 | 17.46 | 17.46 | 17.89 | 17.89 | 17.89 | 17.89 | 19.01 | 19.01 | 19.01 | 19.01 |
| | | S/T | 0.70 | 0.80 | 1.00 | 1.00 | 0.57 | 0.65 | 0.73 | 0.98 | 0.50 | 0.58 | 0.67 | 0.74 | 0.35 | 0.42 | 0.50 | 0.58 |
| | | PI | 3.64 | 3.64 | 3.64 | 3.64 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.62 | 3.62 | 3.62 | 3.62 |
| | -10 | TC | 16.52 | 16.52 | 16.70 | 16.88 | 17.37 | 17.37 | 17.37 | 17.37 | 17.80 | 17.80 | 17.80 | 17.80 | 18.95 | 18.95 | 18.95 | 18.95 |
| | | S/T | 0.71 | 0.81 | 1.00 | 1.00 | 0.57 | 0.65 | 0.74 | 0.98 | 0.50 | 0.58 | 0.67 | 0.75 | 0.35 | 0.43 | 0.50 | 0.58 |
| | | PI | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 |
| | -5 | TC | 16.42 | 16.42 | 16.60 | 16.78 | 17.30 | 17.30 | 17.30 | 17.30 | 17.74 | 17.74 | 17.74 | 17.74 | 18.90 | 18.90 | 18.90 | 18.90 |
| | | S/T | 0.71 | 0.81 | 1.00 | 1.00 | 0.58 | 0.65 | 0.74 | 0.99 | 0.51 | 0.59 | 0.67 | 0.75 | 0.35 | 0.43 | 0.51 | 0.59 |
| | | PI | 3.61 | 3.61 | 3.61 | 3.61 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.63 | 3.63 | 3.63 | 3.63 |
| | 0 | TC | 16.34 | 16.34 | 16.51 | 16.69 | 17.23 | 17.23 | 17.23 | 17.23 | 17.69 | 17.69 | 17.69 | 17.69 | 18.88 | 18.88 | 18.88 | 18.88 |
| | | S/T | 0.72 | 0.81 | 1.00 | 1.00 | 0.58 | 0.66 | 0.74 | 0.99 | 0.51 | 0.59 | 0.68 | 0.75 | 0.35 | 0.43 | 0.51 | 0.59 |
| | | PI | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.63 | 3.64 | 3.64 | 3.64 | 3.64 |
| | 5 | TC | 16.25 | 16.25 | 16.43 | 16.61 | 17.17 | 17.17 | 17.17 | 17.17 | 17.63 | 17.63 | 17.63 | 17.63 | 18.87 | 18.87 | 18.87 | 18.87 |
| | | S/T | 0.72 | 0.82 | 1.00 | 1.00 | 0.58 | 0.66 | 0.75 | 1.00 | 0.51 | 0.59 | 0.68 | 0.76 | 0.35 | 0.43 | 0.51 | 0.59 |
| | | PI | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.67 | 3.67 | 3.67 | 3.67 |
| | 10 | TC | 16.16 | 16.16 | 16.33 | 16.51 | 17.09 | 17.09 | 17.09 | 17.09 | 17.56 | 17.56 | 17.56 | 17.56 | 18.82 | 18.82 | 18.82 | 18.82 |
| | | S/T | 0.72 | 0.82 | 1.00 | 1.00 | 0.58 | 0.66 | 0.75 | 1.00 | 0.51 | 0.59 | 0.68 | 0.76 | 0.36 | 0.44 | 0.51 | 0.59 |
| | | PI | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 |
| | 15 | TC | 16.02 | 16.02 | 16.20 | 16.37 | 16.97 | 16.97 | 16.97 | 16.97 | 17.45 | 17.45 | 17.45 | 17.45 | 18.74 | 18.74 | 18.74 | 18.74 |
| | | S/T | 0.73 | 0.83 | 0.92 | 1.00 | 0.59 | 0.67 | 0.76 | 0.85 | 0.52 | 0.60 | 0.69 | 0.77 | 0.36 | 0.44 | 0.52 | 0.60 |
| | | PI | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 | 3.80 | 3.80 | 3.80 | 3.80 | 3.79 | 3.79 | 3.79 | 3.79 |
| | 20 | TC | 15.84 | 15.84 | 16.02 | 16.19 | 16.79 | 16.79 | 16.79 | 16.79 | 17.28 | 17.28 | 17.28 | 17.28 | 18.58 | 18.58 | 18.58 | 18.58 |
| | | S/T | 0.73 | 0.83 | 0.92 | 1.00 | 0.59 | 0.67 | 0.76 | 0.85 | 0.52 | 0.60 | 0.69 | 0.77 | 0.36 | 0.44 | 0.52 | 0.60 |
| | | PI | 3.95 | 3.95 | 3.95 | 3.95 | 3.94 | 3.94 | 3.94 | 3.94 | 3.93 | 3.93 | 3.93 | 3.93 | 3.91 | 3.91 | 3.91 | 3.91 |
| | 25 | TC | 15.10 | 15.10 | 15.24 | 15.38 | 16.05 | 16.05 | 16.05 | 16.05 | 16.53 | 16.53 | 16.53 | 16.53 | 17.77 | 17.77 | 17.77 | 17.77 |
| | | S/T | 0.75 | 0.84 | 0.94 | 1.00 | 0.59 | 0.68 | 0.77 | 0.87 | 0.52 | 0.61 | 0.70 | 0.79 | 0.35 | 0.44 | 0.52 | 0.60 |
| | | PI | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 |
| | 30 | TC | 14.41 | 14.41 | 14.55 | 14.69 | 15.30 | 15.30 | 15.30 | 15.44 | 15.79 | 15.79 | 15.79 | 15.79 | 16.99 | 16.99 | 16.99 | 16.99 |
| | | S/T | 0.76 | 0.86 | 0.96 | 1.00 | 0.60 | 0.69 | 0.79 | 0.88 | 0.52 | 0.61 | 0.71 | 0.80 | 0.35 | 0.44 | 0.52 | 0.61 |
| | | PI | 4.77 | 4.77 | 4.77 | 4.77 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.80 | 4.80 | 4.80 | 4.80 |
| | 35 | TC | 13.66 | 13.66 | 13.80 | 13.95 | 14.55 | 14.55 | 14.55 | 14.69 | 15.01 | 15.01 | **15.24** | 15.01 | 16.19 | 16.19 | 16.19 | 16.19 |
| | | S/T | 0.77 | 0.88 | 0.98 | 1.00 | 0.60 | 0.70 | 0.81 | 0.90 | 0.52 | 0.62 | **0.72** | 0.82 | 0.35 | 0.44 | 0.53 | 0.62 |
| | | PI | 5.21 | 5.21 | 5.21 | 5.21 | 5.23 | 5.23 | 5.23 | 5.23 | 5.24 | 5.24 | **5.25** | 5.24 | 5.28 | 5.28 | 5.28 | 5.28 |
| | 40 | TC | 12.86 | 12.92 | 13.05 | 13.18 | 13.72 | 13.72 | 13.72 | 13.85 | 14.15 | 14.15 | 14.27 | 14.15 | 15.29 | 15.29 | 15.29 | 15.29 |
| | | S/T | 0.80 | 0.91 | 1.00 | 1.00 | 0.62 | 0.73 | 0.84 | 0.94 | 0.53 | 0.64 | 0.75 | 0.86 | 0.34 | 0.44 | 0.54 | 0.90 |
| | | PI | 5.75 | 5.75 | 5.75 | 5.75 | 5.77 | 5.77 | 5.77 | 5.77 | 5.78 | 5.78 | 5.79 | 5.78 | 5.83 | 5.83 | 5.83 | 5.83 |
| | 46 | TC | 11.92 | 12.04 | 12.15 | 12.27 | 12.73 | 12.73 | 12.73 | 12.84 | 13.13 | 13.13 | 13.13 | 13.13 | 14.22 | 14.22 | 14.22 | 14.22 |
| | | S/T | 0.81 | 0.93 | 1.00 | 1.00 | 0.62 | 0.74 | 0.85 | 0.97 | 0.54 | 0.65 | 0.76 | 0.87 | 0.34 | 0.44 | 0.55 | 0.92 |
| | | PI | 6.39 | 6.39 | 6.39 | 6.39 | 6.42 | 6.42 | 6.42 | 6.42 | 6.44 | 6.44 | 6.44 | 6.44 | 6.49 | 6.49 | 6.49 | 6.49 |
| | 50 | TC | 11.18 | 11.29 | 11.41 | 11.52 | 11.95 | 11.95 | 11.95 | 12.07 | 12.35 | 12.35 | 12.35 | 12.47 | 13.39 | 13.39 | 13.39 | 13.39 |
| | | S/T | 0.83 | 0.96 | 1.00 | 1.00 | 0.63 | 0.76 | 0.88 | 1.00 | 0.54 | 0.66 | 0.78 | 0.90 | 0.34 | 0.45 | 0.56 | 0.97 |
| | | PI | 6.92 | 6.92 | 6.92 | 6.92 | 6.95 | 6.95 | 6.95 | 6.95 | 6.97 | 6.97 | 6.97 | 6.97 | 7.03 | 7.03 | 7.03 | 7.03 |

TC:Total Cooling Capacity (kW)

S/T:Sensible Cooling Capacity Ratio

PI:Power Input(kW)

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

## 2.2 Heating

| 9k | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed: 620 | -20.0 | 2.16 | 2.14 | 2.14 | 2.12 | 0.84 | 0.87 | 0.86 | 0.87 |
| | -15.0 | 2.34 | 2.32 | 2.32 | 2.29 | 0.92 | 0.96 | 0.94 | 0.95 |
| | -10.0 | 2.50 | 2.47 | 2.47 | 2.44 | 0.98 | 1.02 | 1.00 | 1.01 |
| | -7.0 | 2.62 | 2.59 | 2.59 | 2.56 | 1.04 | 1.08 | 1.06 | 1.07 |
| | -5.6 | 2.62 | 2.59 | 2.59 | 2.56 | 1.02 | 1.03 | 1.04 | 1.05 |
| | -2.8 | 2.62 | 2.59 | 2.59 | 2.56 | 0.98 | 0.99 | 1.00 | 1.00 |
| | 0.0 | 2.59 | 2.56 | 2.56 | 2.53 | 0.94 | 0.95 | 0.95 | 0.96 |
| | 2.8 | 2.65 | 2.62 | 2.62 | 2.59 | 0.91 | 0.92 | 0.92 | 0.92 |
| | 5.6 | 2.82 | 2.76 | 2.76 | 2.74 | 0.89 | 0.89 | 0.90 | 0.90 |
| | 7.0 | 2.99 | 2.93 | 2.90 | 2.87 | 0.86 | 0.85 | 0.87 | 0.87 |
| | 11.1 | 3.05 | 2.99 | 2.99 | 2.96 | 0.81 | 0.81 | 0.81 | 0.81 |
| | 13.9 | 3.10 | 3.05 | 3.05 | 3.02 | 0.77 | 0.77 | 0.77 | 0.77 |
| | 16.7 | 3.16 | 3.10 | 3.10 | 3.08 | 0.74 | 0.74 | 0.73 | 0.73 |
| | 18.0 | 3.19 | 3.13 | 3.13 | 3.10 | 0.72 | 0.72 | 0.72 | 0.72 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 12k | | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed: 660 | -20.0 | 2.44 | 2.42 | 2.40 | 2.40 | 1.08 | 1.11 | 1.11 | 1.12 |
| | -15.0 | 2.64 | 2.62 | 2.59 | 2.59 | 1.18 | 1.21 | 1.21 | 1.22 |
| | -10.0 | 2.82 | 2.80 | 2.77 | 2.77 | 1.26 | 1.30 | 1.30 | 1.30 |
| | -7.0 | 2.96 | 2.93 | 2.90 | 2.90 | 1.34 | 1.38 | 1.38 | 1.39 |
| | -5.6 | 3.05 | 3.02 | 2.99 | 2.99 | 1.32 | 1.35 | 1.36 | 1.38 |
| | -2.8 | 3.10 | 3.07 | 3.05 | 3.05 | 1.30 | 1.33 | 1.34 | 1.36 |
| | 0.0 | 3.16 | 3.10 | 3.10 | 3.07 | 1.28 | 1.31 | 1.32 | 1.33 |
| | 2.8 | 3.31 | 3.25 | 3.22 | 3.22 | 1.27 | 1.30 | 1.31 | 1.33 |
| | 5.6 | 3.57 | 3.51 | 3.48 | 3.48 | 1.27 | 1.29 | 1.30 | 1.32 |
| | 7.0 | 3.87 | 3.81 | 3.72 | 3.69 | 1.27 | 1.29 | 1.29 | 1.31 |
| | 11.1 | 4.01 | 3.98 | 3.96 | 3.93 | 1.24 | 1.27 | 1.28 | 1.29 |
| | 13.9 | 4.19 | 4.13 | 4.10 | 4.07 | 1.23 | 1.25 | 1.27 | 1.28 |
| | 16.7 | 4.33 | 4.28 | 4.25 | 4.19 | 1.22 | 1.24 | 1.25 | 1.26 |
| | 18.0 | 4.39 | 4.33 | 4.30 | 4.28 | 1.21 | 1.23 | 1.24 | 1.25 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 18k | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed: 900 | -20.0 | 4.06 | 4.02 | 3.99 | 3.97 | 1.47 | 1.52 | 1.51 | 1.52 |
| | -15.0 | 4.40 | 4.35 | 4.32 | 4.30 | 1.61 | 1.66 | 1.65 | 1.66 |
| | -10.0 | 4.70 | 4.64 | 4.62 | 4.59 | 1.72 | 1.77 | 1.76 | 1.77 |
| | -7.0 | 4.92 | 4.86 | 4.84 | 4.81 | 1.82 | 1.88 | 1.87 | 1.88 |
| | -5.6 | 5.01 | 4.95 | 4.92 | 4.89 | 1.79 | 1.82 | 1.83 | 1.85 |
| | -2.8 | 5.07 | 5.01 | 4.98 | 4.95 | 1.74 | 1.77 | 1.78 | 1.79 |
| | 0.0 | 5.10 | 5.04 | 5.01 | 4.95 | 1.69 | 1.71 | 1.73 | 1.74 |
| | 2.8 | 5.30 | 5.21 | 5.18 | 5.15 | 1.65 | 1.68 | 1.69 | 1.70 |
| | 5.6 | 5.65 | 5.59 | 5.56 | 5.50 | 1.62 | 1.64 | 1.65 | 1.66 |
| | 7.0 | 6.07 | 6.01 | 5.89 | 5.86 | 1.61 | 1.62 | 1.64 | 1.65 |
| | 11.1 | 6.30 | 6.21 | 6.18 | 6.12 | 1.55 | 1.57 | 1.58 | 1.59 |
| | 13.9 | 6.50 | 6.41 | 6.36 | 6.33 | 1.51 | 1.53 | 1.53 | 1.54 |
| | 16.7 | 6.70 | 6.59 | 6.56 | 6.50 | 1.47 | 1.48 | 1.49 | 1.50 |
| | 18.0 | 6.79 | 6.70 | 6.65 | 6.59 | 1.45 | 1.46 | 1.47 | 1.47 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 24k | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed: 1200 | -20.0 | 6.09 | 6.02 | 6.00 | 5.97 | 2.35 | 2.44 | 2.38 | 2.39 |
| | -15.0 | 6.59 | 6.51 | 6.49 | 6.46 | 2.58 | 2.67 | 2.60 | 2.61 |
| | -10.0 | 7.04 | 6.96 | 6.93 | 6.90 | 2.75 | 2.85 | 2.78 | 2.78 |
| | -7.0 | 7.37 | 7.29 | 7.26 | 7.23 | 2.92 | 3.03 | 2.95 | 2.96 |
| | -5.6 | 7.35 | 7.26 | 7.23 | 7.20 | 2.83 | 2.84 | 2.85 | 2.86 |
| | -2.8 | 7.29 | 7.23 | 7.17 | 7.14 | 2.65 | 2.66 | 2.66 | 2.67 |
| | 0.0 | 7.17 | 7.11 | 7.05 | 7.03 | 2.48 | 2.48 | 2.48 | 2.48 |
| | 2.8 | 7.32 | 7.23 | 7.17 | 7.11 | 2.34 | 2.33 | 2.32 | 2.32 |
| | 5.6 | 7.66 | 7.58 | 7.52 | 7.49 | 2.18 | 2.17 | 2.16 | 2.15 |
| | 7.0 | 8.06 | 7.97 | 7.88 | 7.86 | 2.11 | 2.00 | 2.08 | 2.07 |
| | 11.1 | 8.23 | 8.12 | 8.06 | 8.00 | 1.87 | 1.84 | 1.82 | 1.80 |
| | 13.9 | 8.35 | 8.23 | 8.17 | 8.12 | 1.70 | 1.66 | 1.64 | 1.63 |
| | 16.7 | 8.49 | 8.35 | 8.29 | 8.23 | 1.54 | 1.50 | 1.48 | 1.46 |
| | 18.0 | 8.55 | 8.41 | 8.35 | 8.29 | 1.47 | 1.42 | 1.40 | 1.37 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 30k | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed:1500 | -20.0 | 6.31 | 6.27 | 6.22 | 6.20 | 2.31 | 2.39 | 2.36 | 2.38 |
| | -15.0 | 6.83 | 6.78 | 6.73 | 6.70 | 2.53 | 2.62 | 2.58 | 2.60 |
| | -10.0 | 7.29 | 7.24 | 7.19 | 7.16 | 2.70 | 2.79 | 2.75 | 2.77 |
| | -7.0 | 7.64 | 7.59 | 7.53 | 7.50 | 2.87 | 2.97 | 2.93 | 2.95 |
| | -5.6 | 7.79 | 7.73 | 7.67 | 7.64 | 2.81 | 2.85 | 2.87 | 2.89 |
| | -2.8 | 7.93 | 7.85 | 7.79 | 7.76 | 2.71 | 2.74 | 2.76 | 2.78 |
| | 0.0 | 7.96 | 7.85 | 7.82 | 7.76 | 2.60 | 2.64 | 2.65 | 2.67 |
| | 2.8 | 8.25 | 8.17 | 8.11 | 8.05 | 2.53 | 2.55 | 2.56 | 2.58 |
| | 5.6 | 8.86 | 8.75 | 8.69 | 8.63 | 2.45 | 2.47 | 2.48 | 2.49 |
| | 7.0 | 9.50 | 9.38 | 9.20 | 9.15 | 2.42 | 2.40 | 2.45 | 2.46 |
| | 11.1 | 9.84 | 9.73 | 9.64 | 9.58 | 2.29 | 2.30 | 2.31 | 2.31 |
| | 13.9 | 10.16 | 10.02 | 9.96 | 9.87 | 2.20 | 2.20 | 2.21 | 2.21 |
| | 16.7 | 10.48 | 10.31 | 10.25 | 10.16 | 2.10 | 2.11 | 2.11 | 2.11 |
| | 18.0 | 10.63 | 10.45 | 10.39 | 10.31 | 2.06 | 2.06 | 2.06 | 2.07 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 36k+MOD30U-36HFN8-QRD0W(GA) | | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed:1700 | -20.0 | 7.61 | 7.54 | 7.49 | 7.45 | 3.15 | 3.25 | 3.21 | 3.24 |
| | -15.0 | 8.24 | 8.16 | 8.11 | 8.06 | 3.44 | 3.56 | 3.51 | 3.54 |
| | -10.0 | 8.79 | 8.71 | 8.66 | 8.61 | 3.67 | 3.79 | 3.75 | 3.78 |
| | -7.0 | 9.21 | 9.13 | 9.07 | 9.02 | 3.90 | 4.03 | 3.98 | 4.01 |
| | -5.6 | 9.45 | 9.36 | 9.30 | 9.24 | 3.81 | 3.87 | 3.89 | 3.92 |
| | -2.8 | 9.65 | 9.56 | 9.51 | 9.45 | 3.68 | 3.72 | 3.74 | 3.77 |
| | 0.0 | 9.77 | 9.62 | 9.56 | 9.51 | 3.54 | 3.58 | 3.60 | 3.63 |
| | 2.8 | 10.20 | 10.06 | 10.00 | 9.94 | 3.44 | 3.47 | 3.49 | 3.51 |
| | 5.6 | 10.98 | 10.84 | 10.78 | 10.69 | 3.33 | 3.36 | 3.37 | 3.39 |
| | 7.0 | 11.88 | 11.72 | 11.49 | 11.40 | 3.28 | 3.25 | 3.32 | 3.33 |
| | 11.1 | 12.36 | 12.19 | 12.13 | 12.04 | 3.10 | 3.11 | 3.12 | 3.13 |
| | 13.9 | 12.80 | 12.62 | 12.54 | 12.45 | 2.97 | 2.98 | 2.99 | 3.00 |
| | 16.7 | 13.26 | 13.06 | 12.97 | 12.88 | 2.85 | 2.85 | 2.86 | 2.86 |
| | 18.0 | 13.46 | 13.26 | 13.17 | 13.09 | 2.79 | 2.79 | 2.79 | 2.79 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 36k+MOD30U-36HFN8-RRD0W(GA) | | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed:1700 | -20.0 | 7.32 | 7.25 | 7.20 | 7.15 | 3.13 | 3.24 | 3.20 | 3.22 |
| | -15.0 | 7.92 | 7.84 | 7.79 | 7.74 | 3.43 | 3.54 | 3.51 | 3.52 |
| | -10.0 | 8.46 | 8.38 | 8.32 | 8.27 | 3.65 | 3.78 | 3.74 | 3.76 |
| | -7.0 | 8.86 | 8.77 | 8.72 | 8.66 | 3.88 | 4.01 | 3.97 | 3.99 |
| | -5.6 | 9.15 | 9.06 | 9.01 | 8.95 | 3.80 | 3.86 | 3.89 | 3.91 |
| | -2.8 | 9.44 | 9.33 | 9.27 | 9.21 | 3.68 | 3.72 | 3.75 | 3.77 |
| | 0.0 | 9.59 | 9.47 | 9.41 | 9.36 | 3.55 | 3.60 | 3.62 | 3.64 |
| | 2.8 | 10.11 | 9.97 | 9.91 | 9.82 | 3.46 | 3.50 | 3.52 | 3.54 |
| | 5.6 | 10.95 | 10.81 | 10.75 | 10.66 | 3.36 | 3.39 | 3.41 | 3.43 |
| | 7.0 | 11.88 | 11.72 | 11.46 | 11.38 | 3.32 | 3.30 | 3.36 | 3.38 |
| | 11.1 | 12.42 | 12.27 | 12.19 | 12.10 | 3.15 | 3.17 | 3.19 | 3.20 |
| | 13.9 | 12.94 | 12.77 | 12.68 | 12.59 | 3.04 | 3.05 | 3.06 | 3.07 |
| | 16.7 | 13.44 | 13.26 | 13.17 | 13.06 | 2.92 | 2.94 | 2.94 | 2.95 |
| | 18.0 | 13.70 | 13.49 | 13.41 | 13.29 | 2.87 | 2.88 | 2.88 | 2.89 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 42k | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed:2000 | -20.0 | 8.29 | 8.17 | 8.13 | 8.08 | 3.31 | 3.42 | 3.39 | 3.41 |
| | -15.0 | 8.97 | 8.84 | 8.79 | 8.74 | 3.62 | 3.74 | 3.71 | 3.73 |
| | -10.0 | 9.58 | 9.44 | 9.39 | 9.34 | 3.86 | 3.99 | 3.95 | 3.98 |
| | -7.0 | 10.03 | 9.89 | 9.84 | 9.78 | 4.10 | 4.24 | 4.20 | 4.23 |
| | -5.6 | 10.39 | 10.24 | 10.18 | 10.13 | 4.03 | 4.09 | 4.12 | 4.15 |
| | -2.8 | 10.71 | 10.59 | 10.53 | 10.47 | 3.90 | 3.96 | 3.99 | 4.02 |
| | 0.0 | 10.94 | 10.79 | 10.71 | 10.65 | 3.77 | 3.83 | 3.85 | 3.88 |
| | 2.8 | 11.55 | 11.40 | 11.31 | 11.23 | 3.69 | 3.73 | 3.75 | 3.78 |
| | 5.6 | 12.56 | 12.39 | 12.30 | 12.24 | 3.60 | 3.65 | 3.67 | 3.69 |
| | 7.0 | 13.67 | 13.48 | 13.16 | 13.08 | 3.55 | 3.55 | 3.61 | 3.63 |
| | 11.1 | 14.32 | 14.12 | 14.03 | 13.95 | 3.39 | 3.43 | 3.44 | 3.46 |
| | 13.9 | 14.93 | 14.73 | 14.64 | 14.53 | 3.28 | 3.31 | 3.33 | 3.34 |
| | 16.7 | 15.57 | 15.34 | 15.22 | 15.13 | 3.18 | 3.20 | 3.21 | 3.22 |
| | 18.0 | 15.86 | 15.63 | 15.51 | 15.40 | 3.12 | 3.14 | 3.15 | 3.16 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 48k(match with MOX630U-48HFN8-QRD0W(GA)) | | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed:2000 | -20.0 | 11.77 | 11.65 | 11.58 | 11.53 | 4.72 | 4.88 | 4.80 | 4.83 |
| | -15.0 | 12.74 | 12.61 | 12.53 | 12.48 | 5.17 | 5.34 | 5.25 | 5.28 |
| | -10.0 | 13.60 | 13.47 | 13.38 | 13.33 | 5.51 | 5.70 | 5.60 | 5.63 |
| | -7.0 | 14.25 | 14.11 | 14.02 | 13.96 | 5.85 | 6.05 | 5.95 | 5.98 |
| | -5.6 | 14.31 | 14.17 | 14.08 | 14.02 | 5.71 | 5.78 | 5.81 | 5.84 |
| | -2.8 | 14.34 | 14.19 | 14.11 | 14.02 | 5.46 | 5.51 | 5.54 | 5.56 |
| | 0.0 | 14.22 | 14.05 | 13.96 | 13.87 | 5.21 | 5.25 | 5.27 | 5.29 |
| | 2.8 | 14.57 | 14.40 | 14.28 | 14.19 | 5.00 | 5.03 | 5.05 | 5.06 |
| | 5.6 | 15.41 | 15.21 | 15.12 | 15.01 | 4.79 | 4.81 | 4.82 | 4.84 |
| | 7.0 | 16.33 | 16.12 | 15.92 | 15.80 | 4.70 | 4.60 | 4.72 | 4.73 |
| | 11.1 | 16.76 | 16.53 | 16.41 | 16.29 | 4.36 | 4.36 | 4.36 | 4.36 |
| | 13.9 | 17.11 | 16.87 | 16.73 | 16.61 | 4.14 | 4.13 | 4.12 | 4.12 |
| | 16.7 | 17.45 | 17.19 | 17.08 | 16.96 | 3.91 | 3.89 | 3.88 | 3.86 |
| | 18.0 | 17.63 | 17.37 | 17.25 | 17.11 | 3.80 | 3.77 | 3.76 | 3.74 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 48k(match with MOX630U-48HFN8-RRD0W(GA)) | | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed:2000 | -20.0 | 11.13 | 11.01 | 10.97 | 10.92 | 4.64 | 4.80 | 4.73 | 4.75 |
| | -15.0 | 12.05 | 11.92 | 11.87 | 11.82 | 5.07 | 5.25 | 5.17 | 5.19 |
| | -10.0 | 12.86 | 12.73 | 12.67 | 12.62 | 5.41 | 5.60 | 5.51 | 5.54 |
| | -7.0 | 13.48 | 13.33 | 13.28 | 13.22 | 5.75 | 5.95 | 5.86 | 5.89 |
| | -5.6 | 13.65 | 13.51 | 13.45 | 13.39 | 5.61 | 5.68 | 5.71 | 5.75 |
| | -2.8 | 13.83 | 13.68 | 13.59 | 13.51 | 5.38 | 5.43 | 5.46 | 5.49 |
| | 0.0 | 13.83 | 13.65 | 13.57 | 13.48 | 5.15 | 5.19 | 5.21 | 5.23 |
| | 2.8 | 14.32 | 14.15 | 14.03 | 13.94 | 4.96 | 5.00 | 5.02 | 5.03 |
| | 5.6 | 15.28 | 15.08 | 14.99 | 14.90 | 4.77 | 4.80 | 4.81 | 4.82 |
| | 7.0 | 16.34 | 16.12 | 15.86 | 15.74 | 4.68 | 4.60 | 4.71 | 4.72 |
| | 11.1 | 16.87 | 16.64 | 16.53 | 16.41 | 4.36 | 4.37 | 4.37 | 4.38 |
| | 13.9 | 17.37 | 17.13 | 16.99 | 16.87 | 4.15 | 4.15 | 4.15 | 4.14 |
| | 16.7 | 17.86 | 17.60 | 17.48 | 17.34 | 3.95 | 3.93 | 3.93 | 3.92 |
| | 18.0 | 18.09 | 17.83 | 17.69 | 17.57 | 3.84 | 3.83 | 3.82 | 3.81 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

| 55k | | | | | | | | [SI_Unit] |
|---|---|---|---|---|---|---|---|---|
| INDOOR AIRFLOW (CMH) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | |
| | OUTDOOR DB(°C) | TC:TOTAL CAPACITY IN KILOWATTS (KW) | | | | PI:TOTAL POWER IN KILOWATTS (KW) | | | |
| | | Indoor Conditions (DB °C ) | | | | Indoor Conditions (DB °C ) | | | |
| | | 16.0 | 20.0 | 22.0 | 24.0 | 16.0 | 20.0 | 22.0 | 24.0 |
| High speed:2200 | -20.0 | 11.84 | 11.72 | 11.65 | 11.58 | 4.67 | 4.83 | 4.79 | 4.83 |
| | -15.0 | 12.81 | 12.68 | 12.61 | 12.53 | 5.11 | 5.29 | 5.24 | 5.29 |
| | -10.0 | 13.68 | 13.54 | 13.46 | 13.38 | 5.45 | 5.64 | 5.59 | 5.64 |
| | -7.0 | 14.33 | 14.19 | 14.10 | 14.02 | 5.79 | 5.99 | 5.94 | 5.99 |
| | -5.6 | 14.68 | 14.53 | 14.45 | 14.36 | 5.71 | 5.80 | 5.84 | 5.89 |
| | -2.8 | 15.00 | 14.82 | 14.74 | 14.65 | 5.55 | 5.64 | 5.68 | 5.73 |
| | 0.0 | 15.14 | 14.97 | 14.85 | 14.77 | 5.39 | 5.47 | 5.52 | 5.56 |
| | 2.8 | 15.84 | 15.61 | 15.52 | 15.40 | 5.28 | 5.36 | 5.40 | 5.44 |
| | 5.6 | 17.06 | 16.83 | 16.71 | 16.62 | 5.17 | 5.25 | 5.28 | 5.32 |
| | 7.0 | 18.42 | 18.17 | 17.79 | 17.68 | 5.13 | 5.15 | 5.23 | 5.27 |
| | 11.1 | 19.16 | 18.90 | 18.78 | 18.64 | 4.93 | 4.99 | 5.02 | 5.05 |
| | 13.9 | 19.85 | 19.56 | 19.45 | 19.30 | 4.80 | 4.85 | 4.88 | 4.90 |
| | 16.7 | 20.52 | 20.23 | 20.09 | 19.94 | 4.67 | 4.71 | 4.74 | 4.76 |
| | 18.0 | 20.87 | 20.55 | 20.41 | 20.26 | 4.61 | 4.64 | 4.67 | 4.69 |

**Note: The table shows the case where the operation frequency of a compressor is fixed.**

## 3. Capacity Correction Factor for Height Difference

| Capacity(Btu/h) | 9k | | Pipe Length (m) | | | |
|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 10 | 20 | 25 |
| Height difference H (m) | Cooling | 10 | | 0.969 | 0.936 | 0.920 |
| | | 5 | 0.995 | 0.979 | 0.946 | 0.929 |
| | | 0 | 1.000 | 0.984 | 0.951 | 0.934 |
| | Heating | 10 | | 0.989 | 0.967 | 0.956 |
| | | 5 | 1.000 | 0.989 | 0.967 | 0.956 |
| | | 0 | 1.000 | 0.989 | 0.967 | 0.956 |
| | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 10 | 20 | 25 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.984 | 0.951 | 0.934 |
| | | 5 | 1.000 | 0.984 | 0.951 | 0.934 |
| | | 10 | | 0.984 | 0.951 | 0.934 |
| | Heating | 0 | 1.000 | 0.989 | 0.967 | 0.956 |
| | | 5 | 0.992 | 0.981 | 0.959 | 0.948 |
| | | 10 | | 0.973 | 0.952 | 0.941 |

| Capacity(Btu/h) | 12k | | Pipe Length (m) | | | |
|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 10 | 20 | 25 |
| Height difference H (m) | Cooling | 10 | | 0.973 | 0.948 | 0.936 |
| | | 5 | 0.995 | 0.983 | 0.958 | 0.945 |
| | | 0 | 1.000 | 0.988 | 0.963 | 0.950 |
| | Heating | 10 | | 0.993 | 0.978 | 0.970 |
| | | 5 | 1.000 | 0.993 | 0.978 | 0.970 |
| | | 0 | 1.000 | 0.993 | 0.978 | 0.970 |
| | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 10 | 20 | 25 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.988 | 0.963 | 0.950 |
| | | 5 | 1.000 | 0.988 | 0.963 | 0.950 |
| | | 10 | | 0.988 | 0.963 | 0.950 |
| | Heating | 0 | 1.000 | 0.993 | 0.978 | 0.970 |
| | | 5 | 0.992 | 0.985 | 0.970 | 0.962 |
| | | 10 | | 0.977 | 0.962 | 0.955 |

| Capacity(Btu/h) | 18k | | Pipe Length (m) | | | |
|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 10 | 20 | 30 |
| Height difference H (m) | Cooling | 20 | | | 0.928 | 0.912 |
| | | 10 | | 0.969 | 0.937 | 0.921 |
| | | 5 | 0.995 | 0.979 | 0.946 | 0.930 |
| | | 0 | 1.000 | 0.984 | 0.951 | 0.935 |
| | Heating | 20 | | | 0.982 | 0.976 |
| | | 10 | | 0.994 | 0.982 | 0.976 |
| | | 5 | 1.000 | 0.994 | 0.982 | 0.976 |
| | | 0 | 1.000 | 0.994 | 0.982 | 0.976 |
| | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 10 | 20 | 30 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.984 | 0.951 | 0.935 |
| | | 5 | 1.000 | 0.984 | 0.951 | 0.935 |
| | | 10 | | 0.984 | 0.951 | 0.935 |
| | | 20 | | | 0.951 | 0.935 |
| | Heating | 0 | 1.000 | 0.994 | 0.982 | 0.976 |
| | | 5 | 0.992 | 0.986 | 0.974 | 0.968 |
| | | 10 | | 0.978 | 0.966 | 0.960 |
| | | 20 | | | 0.959 | 0.953 |

| Capacity(Btu/h) | 24k | | Pipe Length (m) | | | | | |
|---|---|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 10 | 20 | 30 | 40 | 50 |
| Height difference H (m) | Cooling | 25 | | | | 0.914 | 0.894 | 0.874 |
| | | 20 | | | 0.944 | 0.924 | 0.903 | 0.883 |
| | | 10 | | 0.975 | 0.954 | 0.933 | 0.912 | 0.891 |
| | | 5 | 0.995 | 0.984 | 0.963 | 0.942 | 0.921 | 0.900 |
| | | 0 | 1.000 | 0.989 | 0.968 | 0.947 | 0.926 | 0.905 |
| | Heating | 25 | | | | 0.983 | 0.977 | 0.97 |
| | | 20 | | | 0.990 | 0.983 | 0.977 | 0.97 |
| | | 10 | | 0.997 | 0.990 | 0.983 | 0.977 | 0.97 |
| | | 5 | 1.000 | 0.997 | 0.990 | 0.983 | 0.977 | 0.97 |
| | | 0 | 1.000 | 0.997 | 0.990 | 0.983 | 0.977 | 0.97 |
| | | | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 10 | 20 | 30 | 40 | 50 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.989 | 0.968 | 0.947 | 0.926 | 0.905 |
| | | 5 | 1.000 | 0.989 | 0.968 | 0.947 | 0.926 | 0.905 |
| | | 10 | | 0.989 | 0.968 | 0.947 | 0.926 | 0.905 |
| | | 20 | | | 0.968 | 0.947 | 0.926 | 0.905 |
| | | 25 | | | | 0.947 | 0.926 | 0.905 |
| | Heating | 0 | 1.000 | 0.997 | 0.990 | 0.983 | 0.977 | 0.970 |
| | | 5 | 0.992 | 0.989 | 0.982 | 0.975 | 0.969 | 0.962 |
| | | 10 | | 0.981 | 0.974 | 0.968 | 0.961 | 0.955 |
| | | 20 | | | 0.966 | 0.960 | 0.953 | 0.947 |
| | | 25 | | | | 0.952 | 0.946 | 0.939 |

| Capacity(Btu/h) | 30k | | Pipe Length (m) | | | | | |
|---|---|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 10 | 20 | 30 | 40 | 50 |
| Height difference H (m) | Cooling | 25 | | | | 0.887 | 0.856 | 0.824 |
| | | 20 | | | 0.928 | 0.896 | 0.864 | 0.833 |
| | | 10 | | 0.969 | 0.937 | 0.905 | 0.873 | 0.841 |
| | | 5 | 0.995 | 0.979 | 0.947 | 0.914 | 0.882 | 0.850 |
| | | 0 | 1.000 | 0.984 | 0.951 | 0.919 | 0.886 | 0.854 |
| | Heating | 25 | | | | 0.958 | 0.942 | 0.925 |
| | | 20 | | | 0.975 | 0.958 | 0.942 | 0.925 |
| | | 10 | | 0.992 | 0.975 | 0.958 | 0.942 | 0.925 |
| | | 5 | 1.000 | 0.992 | 0.975 | 0.958 | 0.942 | 0.925 |
| | | 0 | 1.000 | 0.992 | 0.975 | 0.958 | 0.942 | 0.925 |
| | | | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 10 | 20 | 30 | 40 | 50 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.984 | 0.951 | 0.919 | 0.886 | 0.854 |
| | | 5 | 1.000 | 0.984 | 0.951 | 0.919 | 0.886 | 0.854 |
| | | 10 | | 0.984 | 0.951 | 0.919 | 0.886 | 0.854 |
| | | 20 | | | 0.951 | 0.919 | 0.886 | 0.854 |
| | | 25 | | | | 0.919 | 0.886 | 0.854 |
| | Heating | 0 | 1.000 | 0.992 | 0.975 | 0.958 | 0.942 | 0.925 |
| | | 5 | 0.992 | 0.984 | 0.967 | 0.951 | 0.934 | 0.918 |
| | | 10 | | 0.976 | 0.959 | 0.943 | 0.927 | 0.910 |
| | | 20 | | | 0.952 | 0.936 | 0.919 | 0.903 |
| | | 25 | | | | 0.928 | 0.912 | 0.896 |

| Capacity(Btu/h) | 36k | | Pipe Length (m) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 30 | | | | 0.885 | 0.845 | 0.805 | 0.778 |
| | | 20 | | | 0.921 | 0.894 | 0.854 | 0.813 | 0.786 |
| | | 10 | | 0.958 | 0.930 | 0.903 | 0.862 | 0.821 | 0.794 |
| | | 5 | 0.995 | 0.967 | 0.940 | 0.912 | 0.871 | 0.830 | 0.802 |
| | | 0 | 1.000 | 0.972 | 0.945 | 0.917 | 0.875 | 0.834 | 0.806 |
| | Heating | 30 | | | | 0.962 | 0.943 | 0.924 | 0.911 |
| | | 20 | | | 0.975 | 0.962 | 0.943 | 0.924 | 0.911 |
| | | 10 | | 0.987 | 0.975 | 0.962 | 0.943 | 0.924 | 0.911 |
| | | 5 | 1.000 | 0.987 | 0.975 | 0.962 | 0.943 | 0.924 | 0.911 |
| | | 0 | 1.000 | 0.987 | 0.975 | 0.962 | 0.943 | 0.924 | 0.911 |
| | | | | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.972 | 0.945 | 0.917 | 0.875 | 0.834 | 0.806 |
| | | 5 | 1.000 | 0.972 | 0.945 | 0.917 | 0.875 | 0.834 | 0.806 |
| | | 10 | | 0.972 | 0.945 | 0.917 | 0.875 | 0.834 | 0.806 |
| | | 20 | | | 0.945 | 0.917 | 0.875 | 0.834 | 0.806 |
| | | 30 | | | | 0.917 | 0.875 | 0.834 | 0.806 |
| | Heating | 0 | 1.000 | 0.987 | 0.975 | 0.962 | 0.943 | 0.924 | 0.911 |
| | | 5 | 0.992 | 0.979 | 0.967 | 0.954 | 0.935 | 0.916 | 0.904 |
| | | 10 | | 0.972 | 0.959 | 0.947 | 0.928 | 0.909 | 0.896 |
| | | 20 | | | 0.951 | 0.939 | 0.920 | 0.902 | 0.889 |
| | | 30 | | | | 0.931 | 0.913 | 0.895 | 0.882 |

| Capacity(Btu/h) | 42k | | Pipe Length (m) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 30 | | | | 0.881 | 0.839 | 0.797 | 0.769 |
| | | 20 | | | 0.919 | 0.890 | 0.848 | 0.806 | 0.777 |
| | | 10 | | 0.956 | 0.928 | 0.899 | 0.857 | 0.814 | 0.785 |
| | | 5 | 0.995 | 0.966 | 0.937 | 0.908 | 0.865 | 0.822 | 0.793 |
| | | 0 | 1.000 | 0.971 | 0.942 | 0.913 | 0.870 | 0.826 | 0.797 |
| | Heating | 30 | | | | 0.960 | 0.940 | 0.920 | 0.907 |
| | | 20 | | | 0.973 | 0.960 | 0.940 | 0.920 | 0.907 |
| | | 10 | | 0.987 | 0.973 | 0.960 | 0.940 | 0.920 | 0.907 |
| | | 5 | 1.000 | 0.987 | 0.973 | 0.960 | 0.940 | 0.920 | 0.907 |
| | | 0 | 1.000 | 0.987 | 0.973 | 0.960 | 0.940 | 0.920 | 0.907 |
| | | | | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.971 | 0.942 | 0.913 | 0.870 | 0.826 | 0.797 |
| | | 5 | 1.000 | 0.971 | 0.942 | 0.913 | 0.870 | 0.826 | 0.797 |
| | | 10 | | 0.971 | 0.942 | 0.913 | 0.870 | 0.826 | 0.797 |
| | | 20 | | | 0.942 | 0.913 | 0.870 | 0.826 | 0.797 |
| | | 30 | | | | 0.913 | 0.870 | 0.826 | 0.797 |
| | Heating | 0 | 1.000 | 0.987 | 0.973 | 0.960 | 0.940 | 0.920 | 0.907 |
| | | 5 | 0.992 | 0.979 | 0.966 | 0.952 | 0.933 | 0.913 | 0.900 |
| | | 10 | | 0.971 | 0.958 | 0.945 | 0.925 | 0.906 | 0.893 |
| | | 20 | | | 0.950 | 0.937 | 0.918 | 0.898 | 0.885 |
| | | 30 | | | | 0.930 | 0.910 | 0.891 | 0.878 |

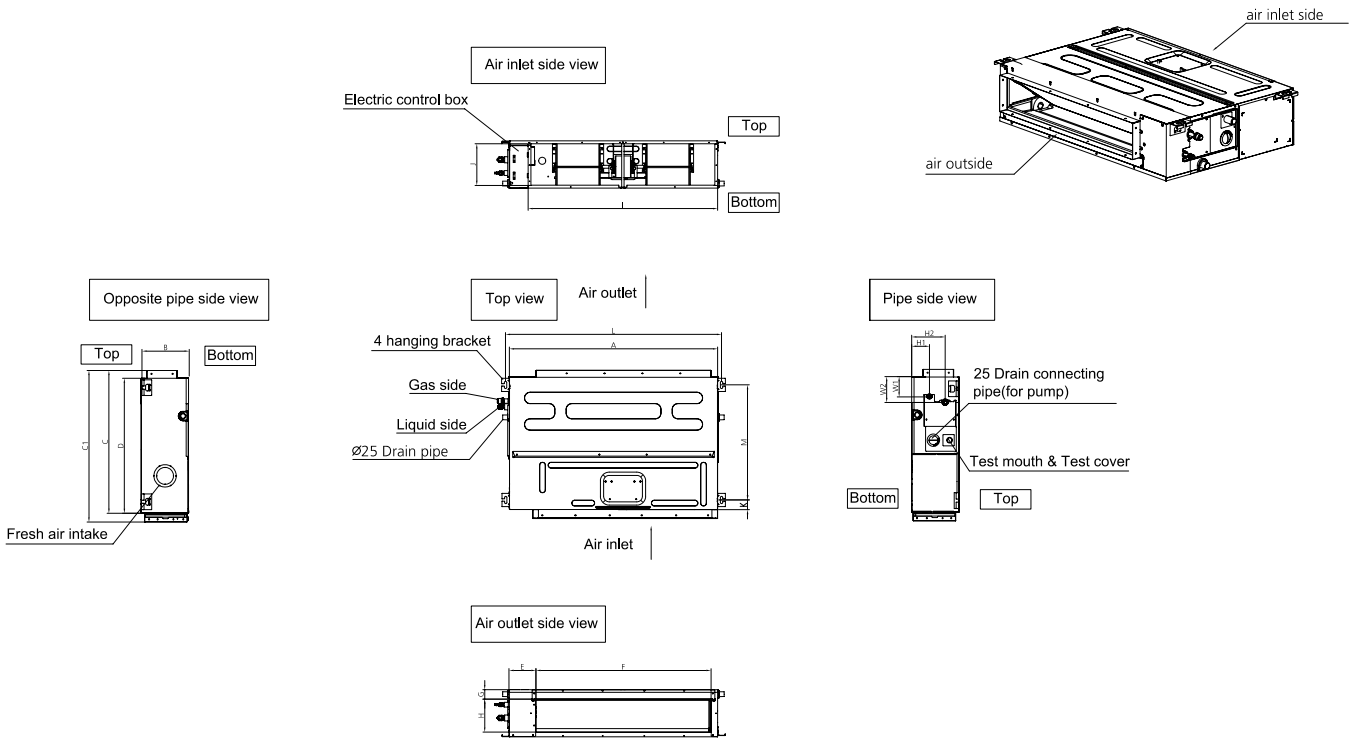
| Capacity(Btu/h) | 48k | | Pipe Length (m) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 30 | | | | 0.881 | 0.838 | 0.796 | 0.768 |
| | | 20 | | | 0.918 | 0.890 | 0.847 | 0.804 | 0.775 |
| | | 10 | | 0.956 | 0.927 | 0.899 | 0.855 | 0.812 | 0.783 |
| | | 5 | 0.995 | 0.966 | 0.937 | 0.908 | 0.864 | 0.820 | 0.791 |
| | | 0 | 1.000 | 0.971 | 0.941 | 0.912 | 0.868 | 0.824 | 0.795 |
| | Heating | 30 | | | | 0.955 | 0.933 | 0.911 | 0.896 |
| | | 20 | | | 0.970 | 0.955 | 0.933 | 0.911 | 0.896 |
| | | 10 | | 0.985 | 0.970 | 0.955 | 0.933 | 0.911 | 0.896 |
| | | 5 | 1.000 | 0.985 | 0.970 | 0.955 | 0.933 | 0.911 | 0.896 |
| | | 0 | 1.000 | 0.985 | 0.970 | 0.955 | 0.933 | 0.911 | 0.896 |
| | | | | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.971 | 0.941 | 0.912 | 0.868 | 0.824 | 0.795 |
| | | 5 | 1.000 | 0.971 | 0.941 | 0.912 | 0.868 | 0.824 | 0.795 |
| | | 10 | | 0.971 | 0.941 | 0.912 | 0.868 | 0.824 | 0.795 |
| | | 20 | | | 0.941 | 0.912 | 0.868 | 0.824 | 0.795 |
| | | 30 | | | | 0.912 | 0.868 | 0.824 | 0.795 |
| | Heating | 0 | 1.000 | 0.985 | 0.970 | 0.955 | 0.933 | 0.911 | 0.896 |
| | | 5 | 0.992 | 0.977 | 0.963 | 0.948 | 0.926 | 0.904 | 0.889 |
| | | 10 | | 0.969 | 0.955 | 0.940 | 0.918 | 0.896 | 0.882 |
| | | 20 | | | 0.947 | 0.933 | 0.911 | 0.889 | 0.875 |
| | | 30 | | | | 0.925 | 0.904 | 0.882 | 0.868 |

| Capacity(Btu/h) | 55k | | Pipe Length (m) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Indoor Upper than Outdoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 30 | | | | 0.866 | 0.816 | 0.767 | 0.734 |
| | | 20 | | | 0.908 | 0.875 | 0.825 | 0.775 | 0.741 |
| | | 10 | | 0.951 | 0.918 | 0.884 | 0.833 | 0.782 | 0.749 |
| | | 5 | 0.995 | 0.961 | 0.927 | 0.893 | 0.841 | 0.790 | 0.756 |
| | | 0 | 1.000 | 0.966 | 0.931 | 0.897 | 0.846 | 0.794 | 0.760 |
| | Heating | 30 | | | | 0.952 | 0.929 | 0.905 | 0.889 |
| | | 20 | | | 0.968 | 0.952 | 0.929 | 0.905 | 0.889 |
| | | 10 | | 0.984 | 0.968 | 0.952 | 0.929 | 0.905 | 0.889 |
| | | 5 | 1.000 | 0.984 | 0.968 | 0.952 | 0.929 | 0.905 | 0.889 |
| | | 0 | 1.000 | 0.984 | 0.968 | 0.952 | 0.929 | 0.905 | 0.889 |
| | | | | | | | | | |
| Outdoor Upper than Indoor | | | 5 | 15 | 25 | 35 | 50 | 65 | 75 |
| Height difference H (m) | Cooling | 0 | 1.000 | 0.966 | 0.931 | 0.897 | 0.846 | 0.794 | 0.760 |
| | | 5 | 1.000 | 0.966 | 0.931 | 0.897 | 0.846 | 0.794 | 0.760 |
| | | 10 | | 0.966 | 0.931 | 0.897 | 0.846 | 0.794 | 0.760 |
| | | 20 | | | 0.931 | 0.897 | 0.846 | 0.794 | 0.760 |
| | | 30 | | | | 0.897 | 0.846 | 0.794 | 0.760 |
| | Heating | 0 | 1.000 | 0.984 | 0.968 | 0.952 | 0.929 | 0.905 | 0.889 |
| | | 5 | 0.992 | 0.976 | 0.961 | 0.945 | 0.921 | 0.898 | 0.882 |
| | | 10 | | 0.968 | 0.953 | 0.937 | 0.914 | 0.890 | 0.875 |
| | | 20 | | | 0.945 | 0.930 | 0.907 | 0.883 | 0.868 |
| | | 30 | | | | 0.922 | 0.899 | 0.876 | 0.861 |

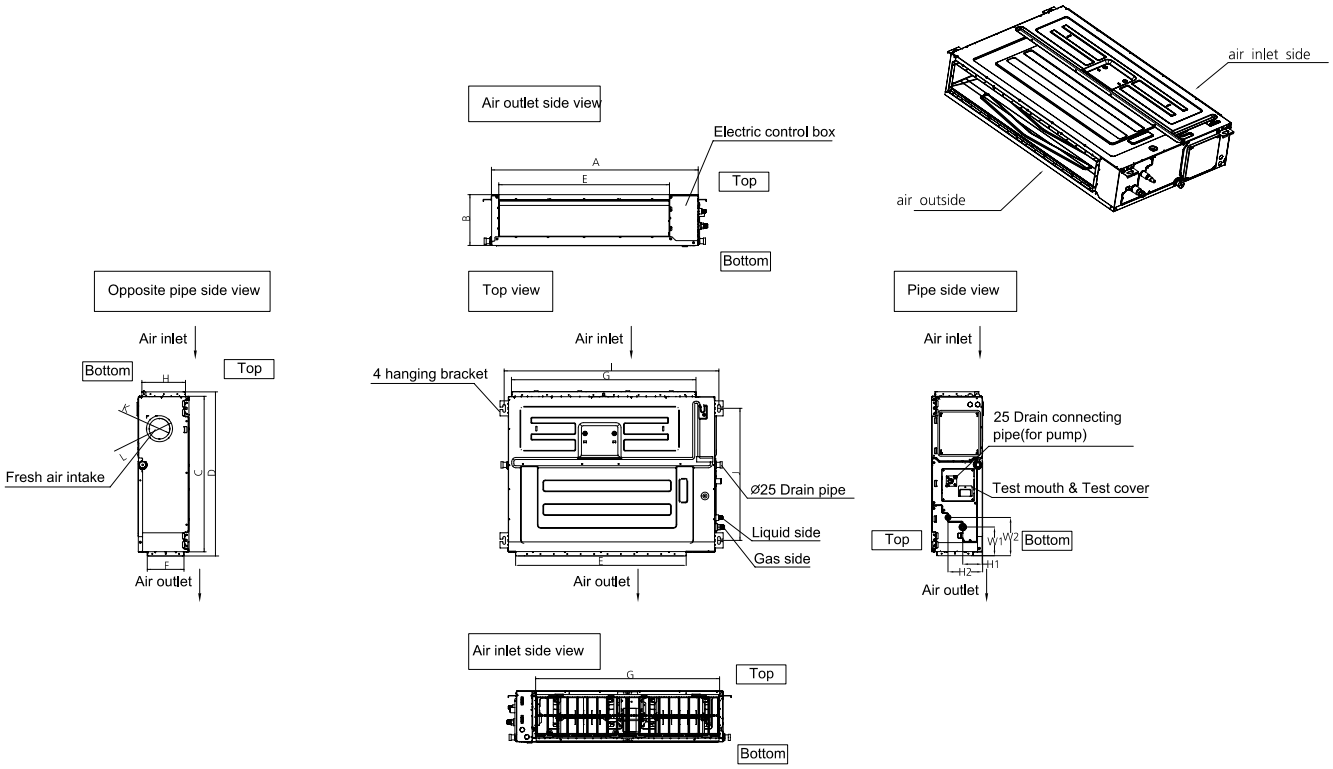
# 4. Dimensional Drawings & Centre of gravity

## 4.1 Dimensional Drawings

### 4.1.1 Indoor Unit



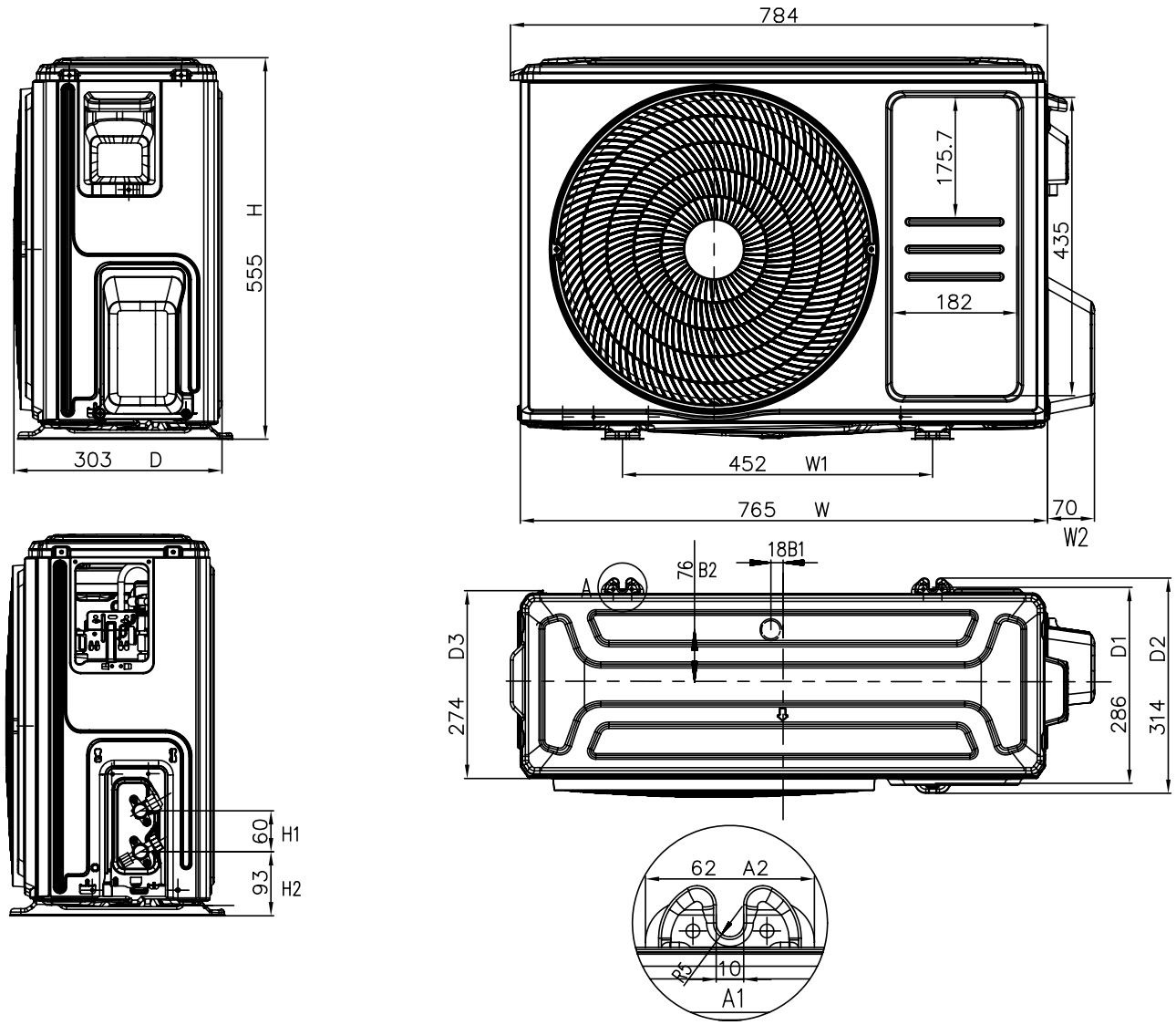

| Capacity (kBtu/h) | unit | Outline dimension | | | | | Air outlet opening size | | | | Air return opening size | | | Size of install hanger | | Size of refrigerant pipe | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | C1 | D | E | F | G | H | I | J | K | L | M | H1 | H2 | W1 | W2 |
| 9/12 | mm | 700 | 200 | 470 | 506 | 450 | 137 | 537 | 30 | 152 | 599 | 186 | 50 | 741 | 360 | 84 | 140 | 84 | 84 |
| | inch | 27.6 | 7.9 | 18.5 | 19.9 | 17.7 | 5.4 | 21.1 | 1.2 | 6.0 | 23.6 | 7.3 | 2.0 | 29.2 | 14.2 | 3.3 | 5.5 | 3.3 | 3.3 |



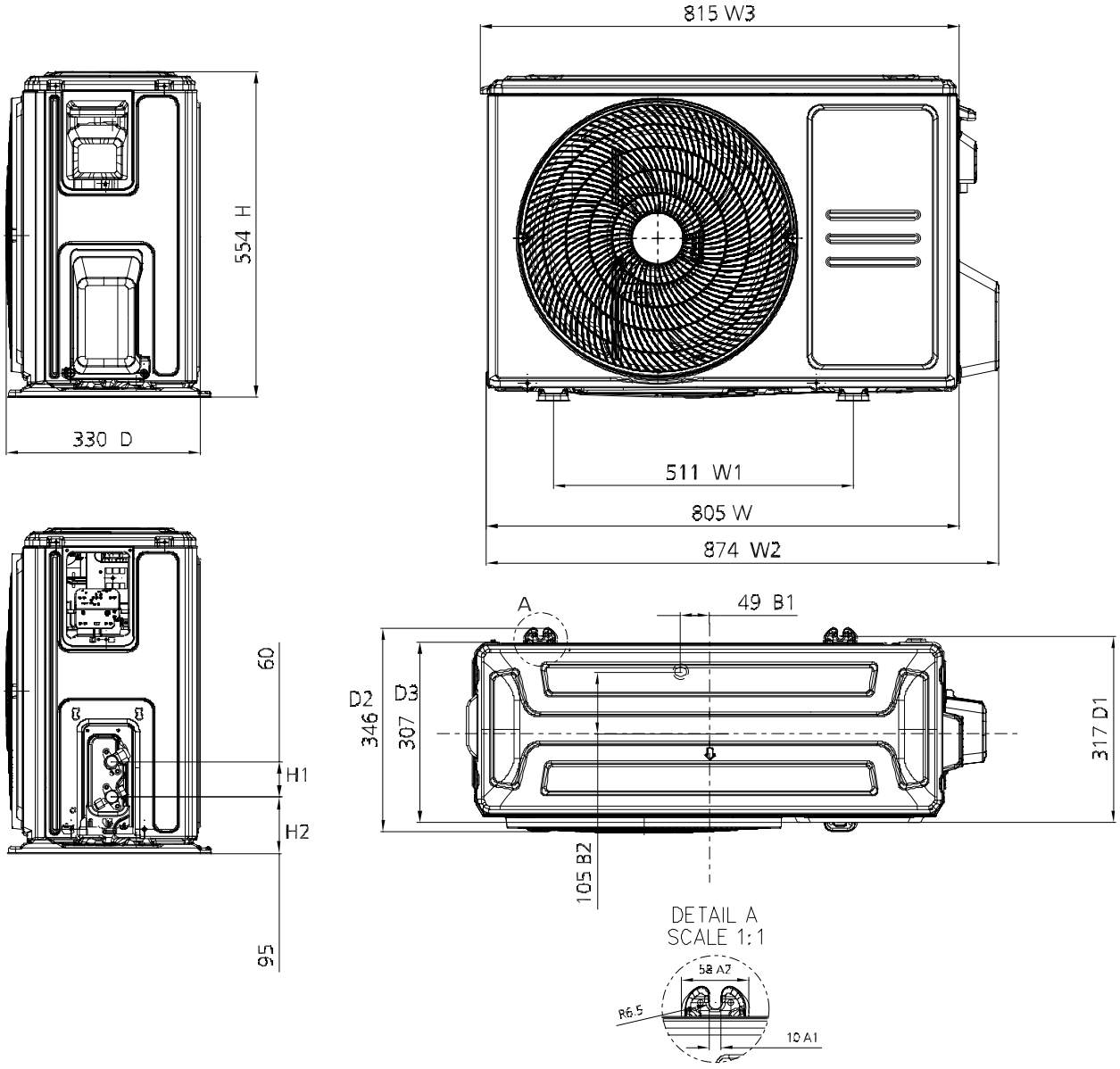

| Capacity (kBtu/h) | unit | Outline Dimension | | | | Air Outlet Opening Size | | Air Return Opening Size | | Size Of Mounted Lug | | Fresh Air Intake Opening Size | | Size of refrigerant pipe | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | I | J | K | L | H1 | H2 | W1 | W2 |
| 18 | mm | 700 | 245 | 750 | 795 | 527 | 178 | 592 | 212 | 740 | 640 | 100 | 126 | 72 | 144 | 120 | 165 |
| | inch | 27.6 | 9.6 | 29.5 | 31.3 | 20.7 | 7.0 | 23.3 | 8.3 | 29.1 | 25.2 | 3.9 | 5.0 | 2.8 | 5.7 | 4.7 | 6.5 |
| 24/30 | mm | 1000 | 245 | 750 | 795 | 827 | 178 | 892 | 212 | 1040 | 640 | 100 | 126 | 80 | 151 | 120 | 165 |
| | inch | 39.4 | 9.6 | 29.5 | 31.3 | 32.6 | 7.0 | 35.1 | 8.3 | 40.9 | 25.2 | 3.9 | 5.0 | 3.1 | 5.9 | 4.7 | 6.5 |
| 36/42/48 | mm | 1200 | 245 | 750 | 795 | 1027 | 178 | 1092 | 212 | 1240 | 640 | 100 | 126 | 80 | 151 | 120 | 165 |
| | inch | 47.2 | 9.6 | 29.5 | 31.3 | 40.4 | 7.0 | 43.0 | 8.3 | 48.8 | 25.2 | 3.9 | 5.0 | 3.1 | 5.9 | 4.7 | 6.5 |
| 55 | mm | 1200 | 300 | 750 | 795 | 1027 | 233 | 1092 | 267 | 1240 | 640 | 125 | 160 | 102 | 163 | 101 | 160 |
| | inch | 47.2 | 11.8 | 29.5 | 31.3 | 40.4 | 9.2 | 43.0 | 10.5 | 48.8 | 25.2 | 4.9 | 6.3 | 4.0 | 6.4 | 4.0 | 6.3 |

### 4.1.2 Outdoor Unit

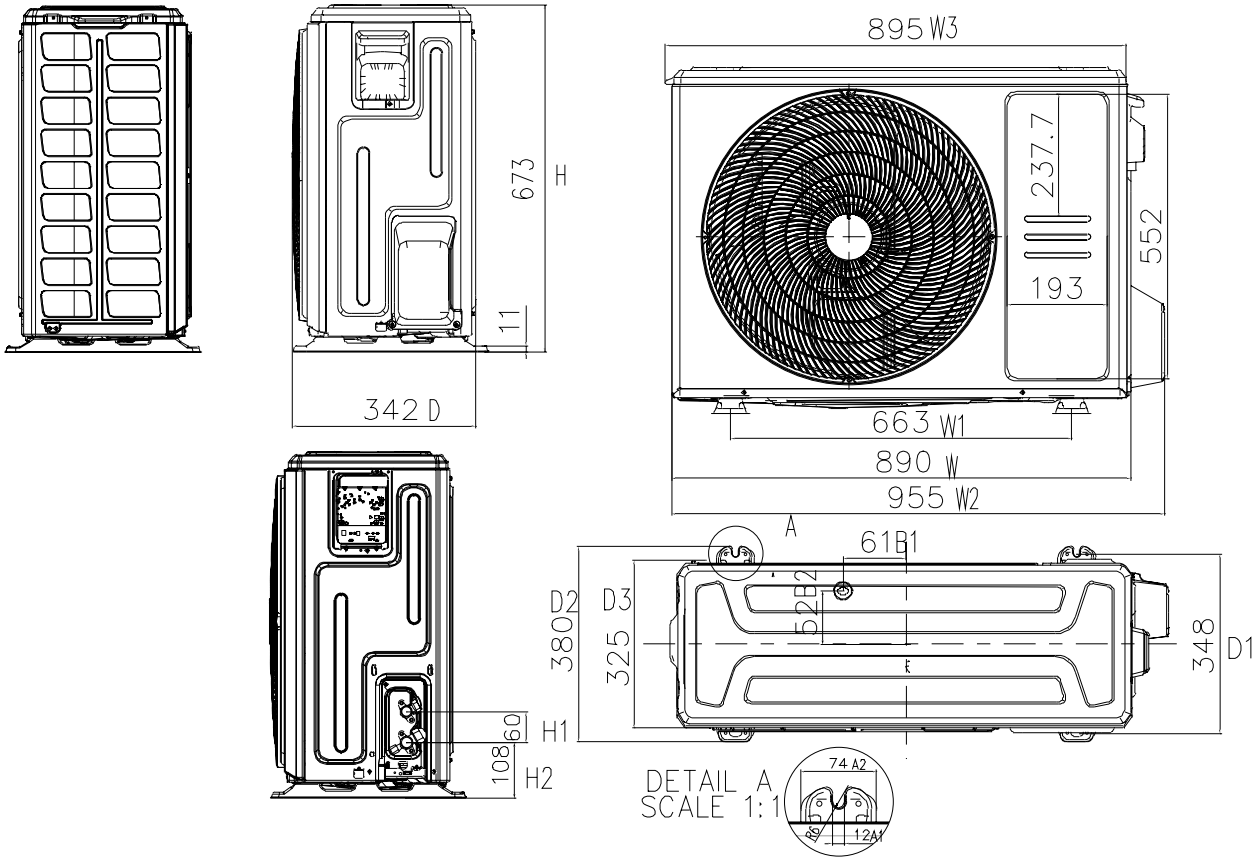
MOX230-09HFN8-QRD1W(GA), MOX230-12HFN8-QRD0W(GA)



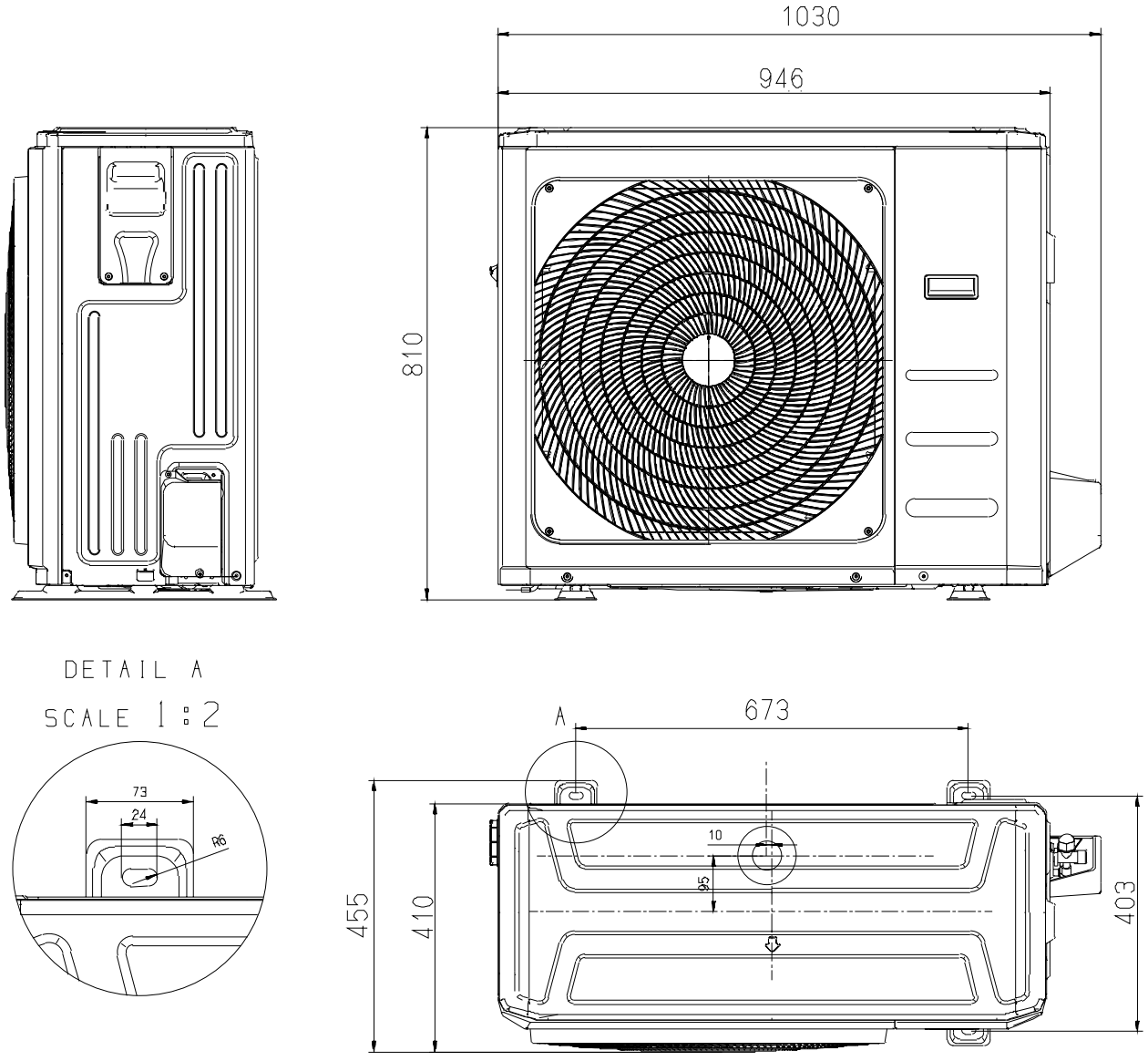
MOX330U-18HFN8-QRD0W(GA)



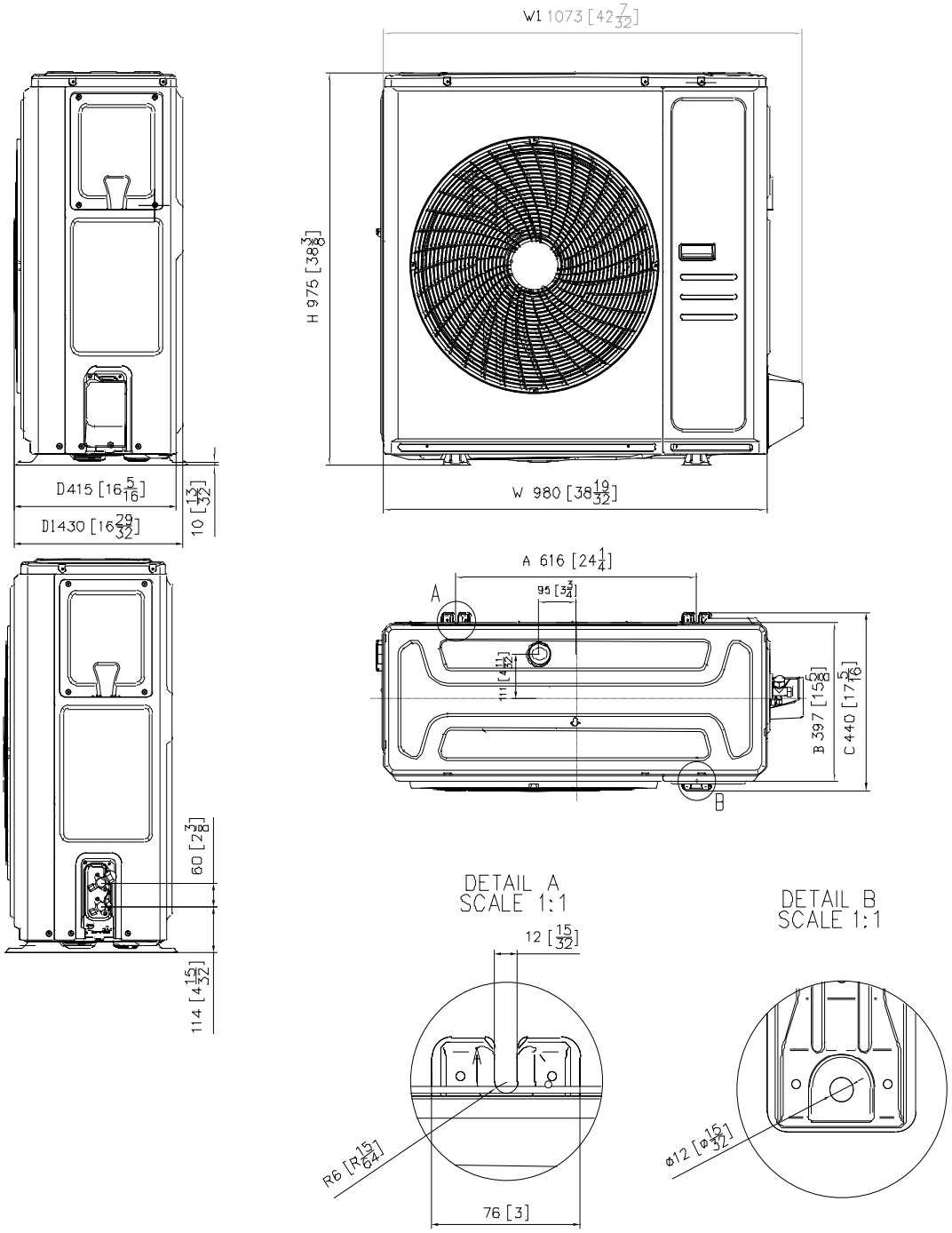
MOX430U-24HFN8-QRD1W(GA)



MOD30U-30HFN8-QRD1W(GA), MOD30U-36HFN8-QRD0W(GA), MOD30U-36HFN8-RRD0W(GA),
MOD30U-42HFN8-QRD0W(GA)

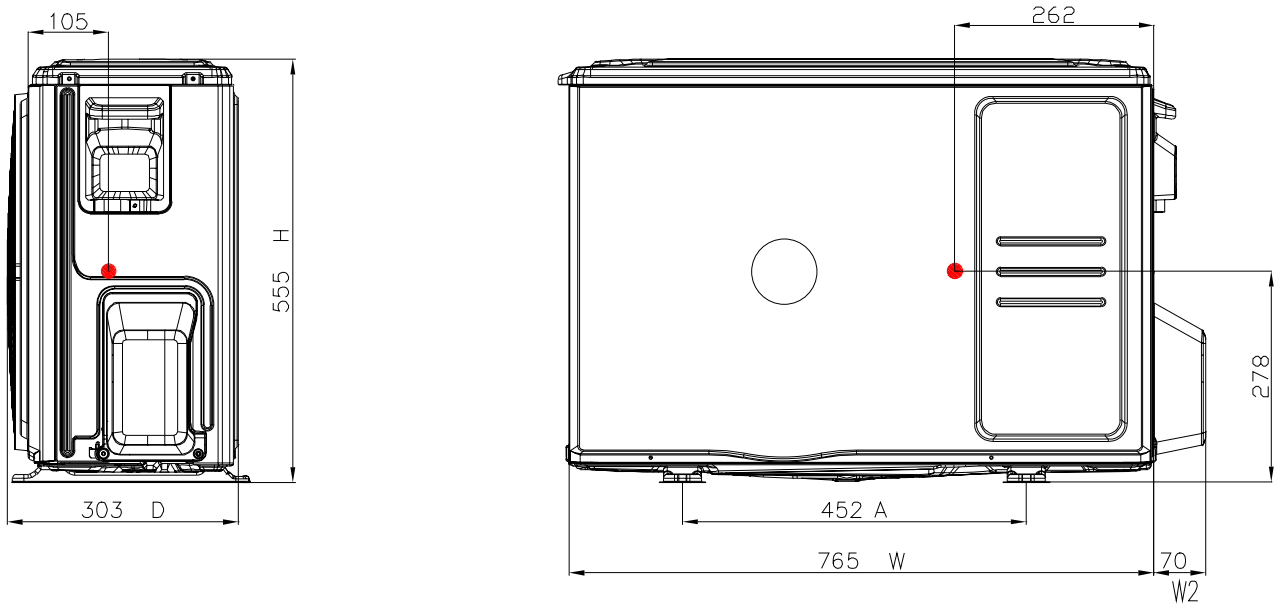


MOX630U-48HFN8-QRD0W(GA), MOX630U-48HFN8-RRD0W(GA), MOX630U-55HFN8-RRD0W(GA)

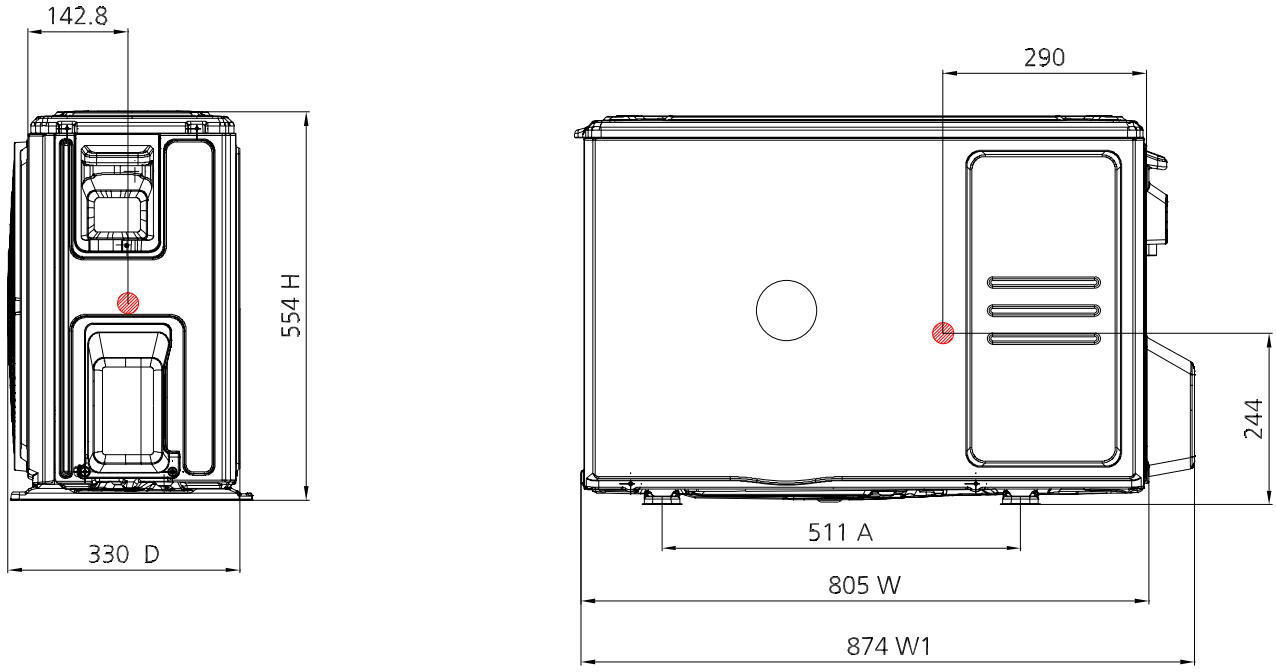


## 4.2 Centre of gravity

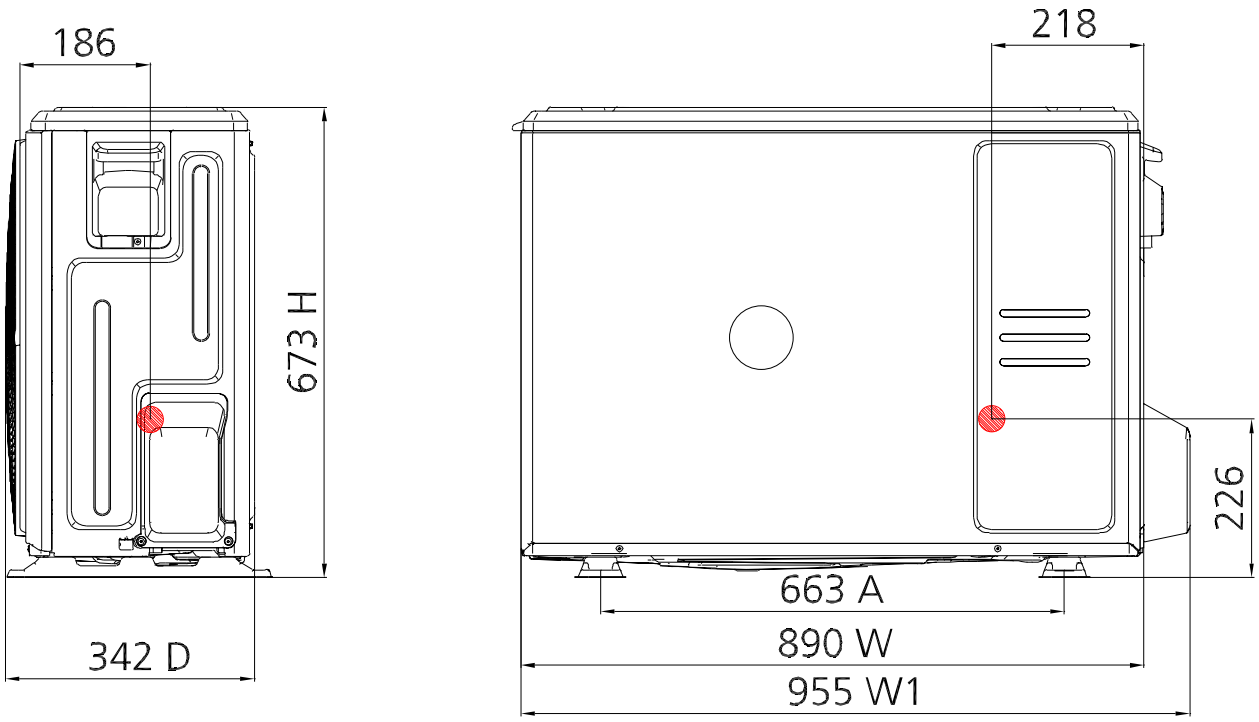
MOX230-09HFN8-QRD1W(GA), MOX230-12HFN8-QRD0W(GA)



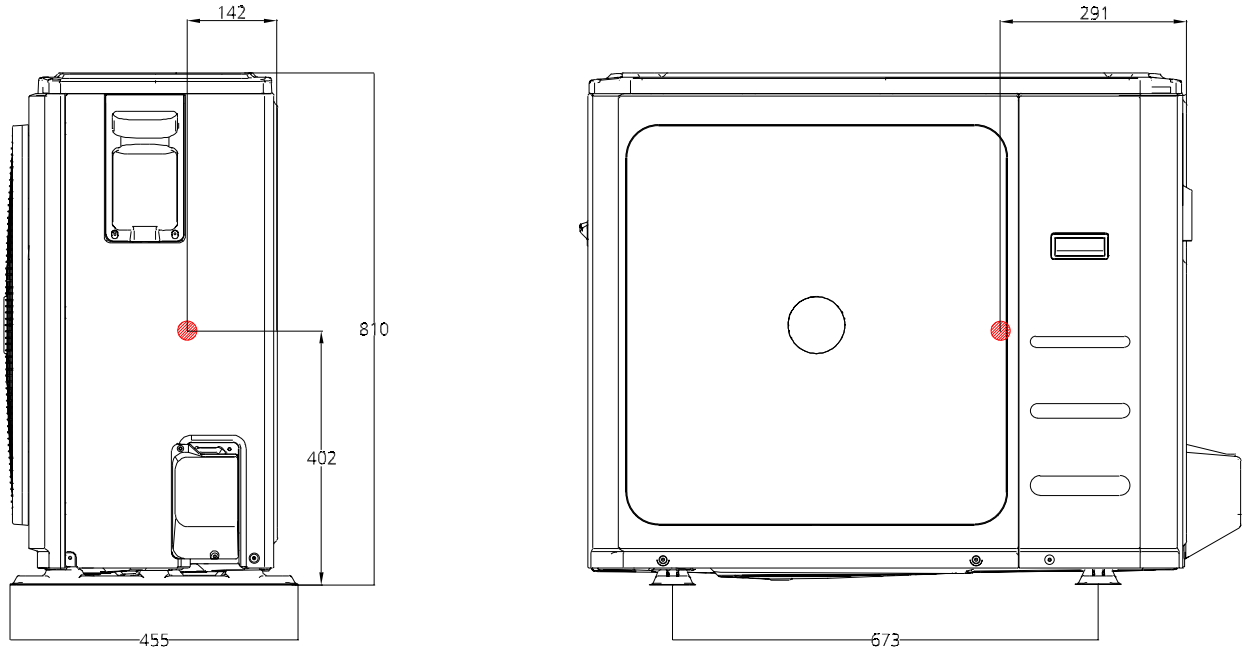

MOX330U-18HFN8-QRD0W(GA)



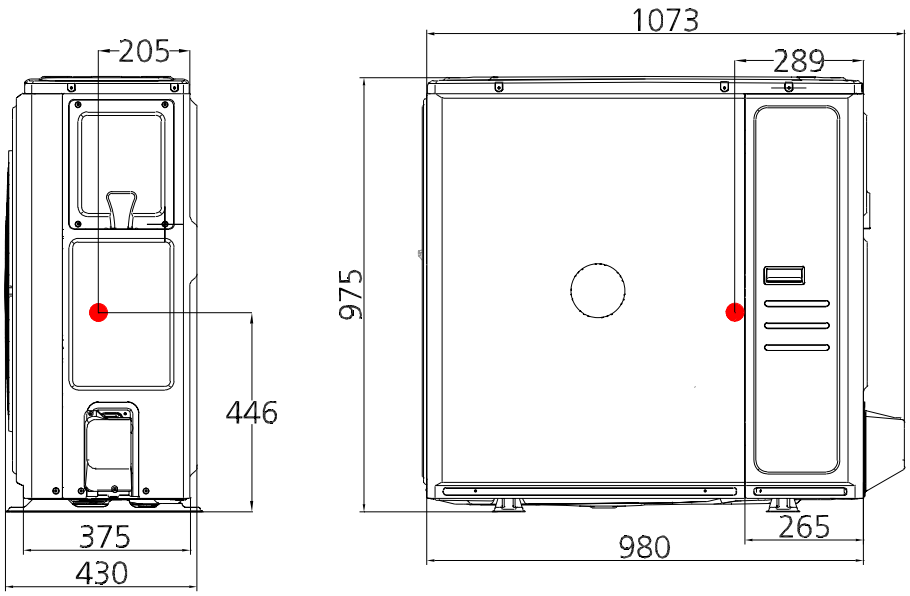
MOX430U-24HFN8-QRD1W(GA)




MOD30U-30HFN8-QRD1W(GA), MOD30U-36HFN8-QRD0W(GA), MOD30U-36HFN8-RRD0W(GA), MOD30U-42HFN8-QRD0W(GA)



MOX630U-48HFN8-QRD0W(GA), MOX630U-48HFN8-RRD0W(GA), MOX630U-55HFN8-RRD0W(GA)

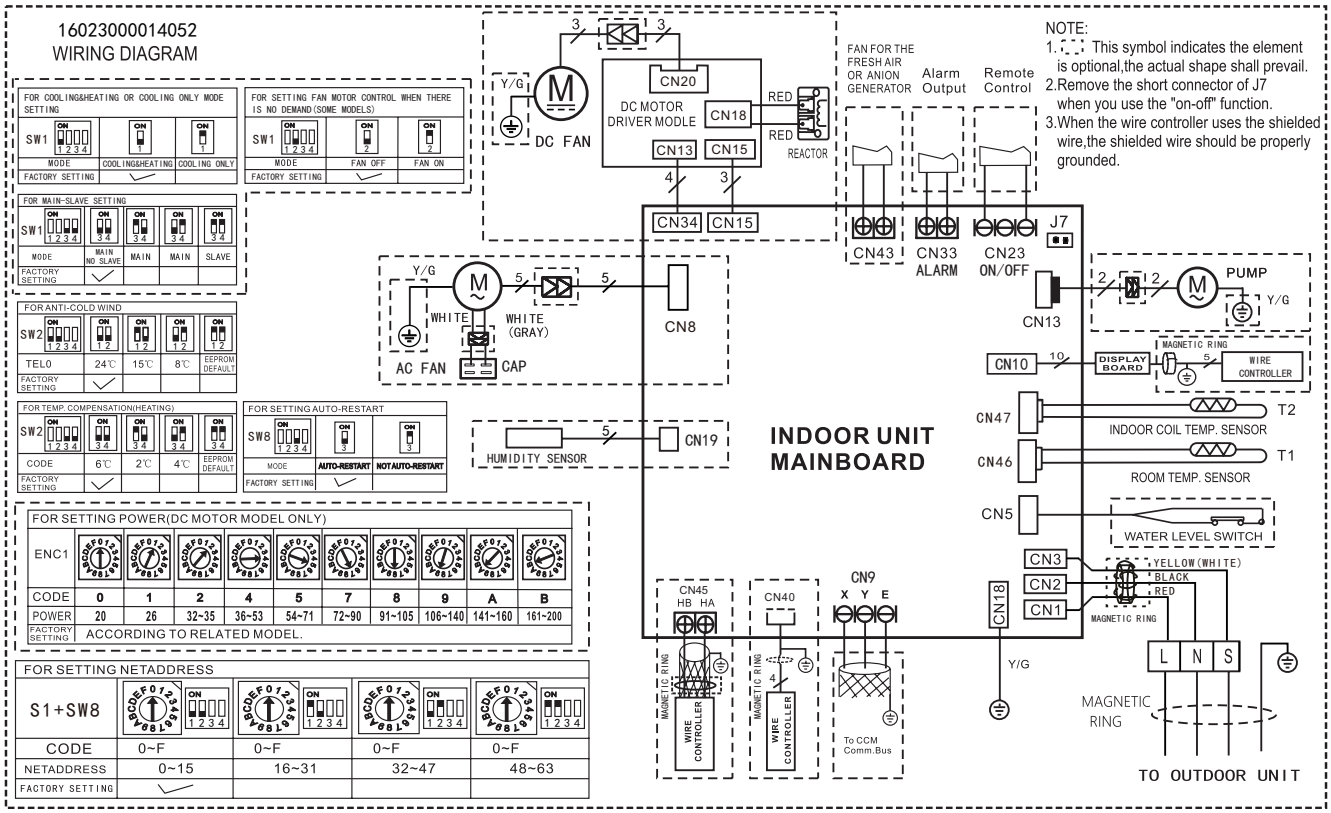


# 5. Electrical Wiring Diagrams

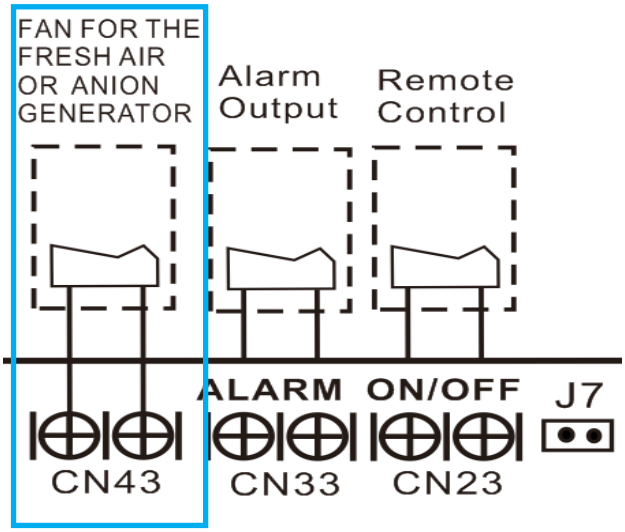
## 5.1 Indoor unit

| Abbreviation | Paraphrase |
|---|---|
| Y/G | Yellow-Green Conductor |
| CAP1 | Indoor Fan Capacitor |
| AC FAN | Alternating Current Fan |
| DC FAN | Direct Current Fan |
| PUMP | PUMP |
| L | LIVE |
| N | NEUTRAL |
| TO CCM Comm.Bus | Central Controller |
| T1 | Indoor Room Temperature |
| T2 | Coil Temperature of Indoor Heat Exchanger |
| P1 | Super High Speed |
| P2 | High Speed |

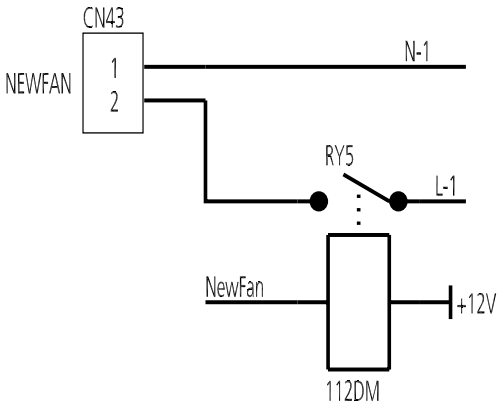
MTJ-09HWFNX-QRD1W(GA), MTJ-12HWFNX-QRD1W(GA), MTJ-18HWFNX-QRD1W(GA), MTJ-24HWFNX-QRD1W(GA), MTJ-30HWFNX-QRD1W(GA), MTJ-36HWFNX-QRD0W(GA), MTJ-42HWFNX-QRD0W(GA), MTJ-48HWFNX-QRD0W(GA), MTJ-55HWFNX-QRD0W(GA)

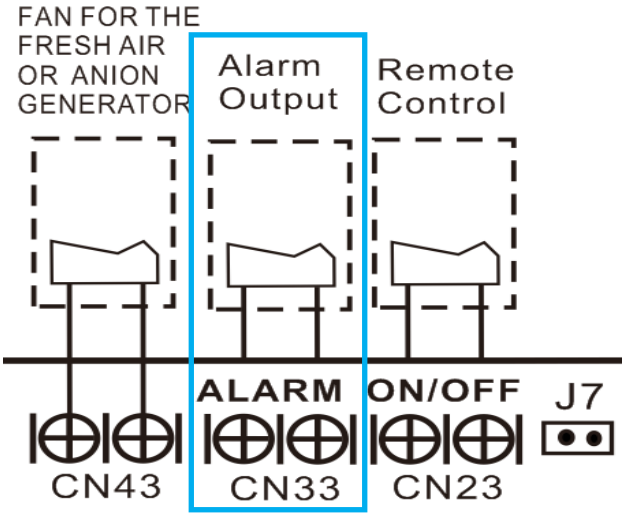


5.1.1 Some connectors introduce:



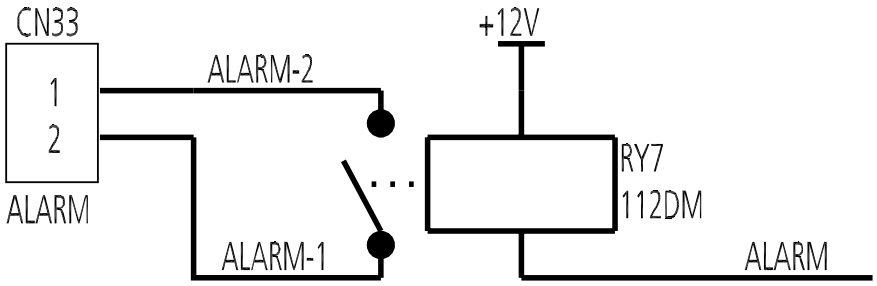

A. For new fresh motor terminal port (also for Anion generator) CN43:
1. Connect the fan motor to the port , no need care L/N of the motor ;
2. The output voltage is the power supply;
3. The fresh motor can not excess 200W or 1A , follow the smaller one ;
4. The new fresh motor will be worked when the indoor fan motor work ;when the indoor fan motor stops , the new fresh motor would be stopped ;
5. When the unit enter force cooling mode or capacity testing mode , the fresh motor isn't work .

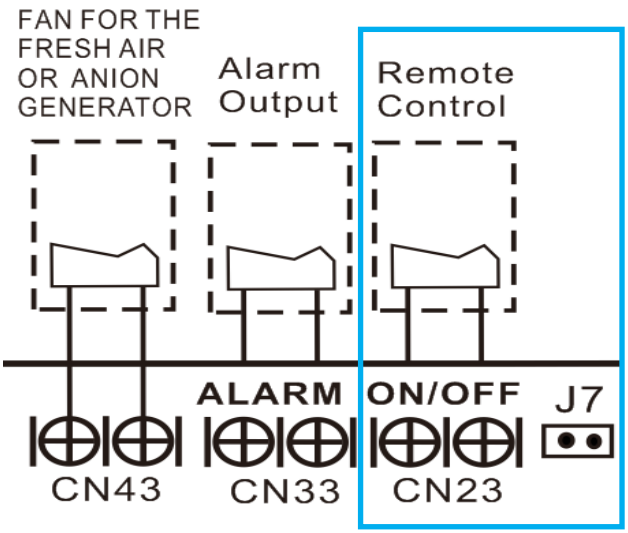





B For ALARM terminal  port CN33

1. Provide the terminal port to connect ALARM ,but no voltage of the terminal port , the power from the ALARM  system (not from the unit )
2. Although design voltage can support higher voltage ,but we strongly ask you connect the power less than 24V, current less than 0.5A
3. When the unit occurs the problem , the relay would be closed , then ALARM works



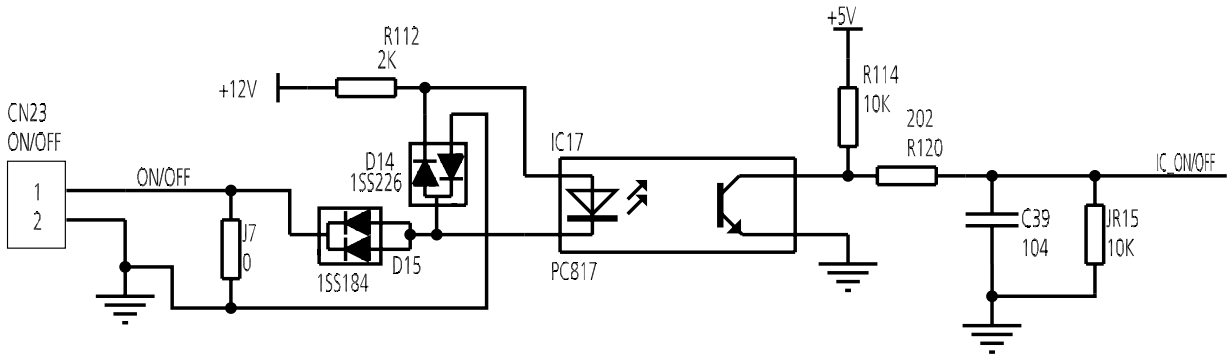



C. For remote control (ON-OFF) terminal  port CN23 and short connector of J7

1. Remove the short connector of J7 when you use ON-OFF function;
2. When remote switch off (OPEN) ;the unit would be off;
3. When remote switch on (CLOSE) ;the unit would be on;
4. When close/open  the remote switch, the unit would be responded the demand within 2 seconds;
5. When the remote switch on  . you can use remote controller/ wire controller to select the mode what you want ;when the remote switch off , the unit would not respond the demand from remote controller/wire controller.

when the remote switch off , but the remote controller / wire controller are on, CP code would be shown on the display board.

6.The voltage of the port is 12V DC , design Max.current is 5mA.



5.1.2 Micro-Switch Introduce:

| FOR COOLING&HEATING OR COOLING ONLY MODE SETTING | | | |
|---|---|---|---|
| SW1 | ON 1 2 3 4 | ON 1 | ON 1 |
| MODE | | COOLING&HEATING | COOLING ONLY |
| FACTORY SETTING | | ✓ | |

A. Micro-switch SW1 is for setting cooling &heating or cooling only.

Range: cooling &heating, cooling.

| FOR SETTING FAN MOTOR CONTROL WHEN THERE IS NO DEMAND(SOME MODELS) | | | |
|---|---|---|---|
| SW1 | ON 1 2 3 4 | ON 2 | ON 2 |
| MODE | | FAN OFF | FAN ON |
| FACTORY SETTING | | ✓ | |

B. Micro-switch SW1 is for selection of indoor FAN ACTION if room temperature reaches the setponit and the compressor stops.

Range: OFF (anti-cold wind is available in heating mode), Keep running (No anti-cold wind function).

| FOR MAIN-SLAVE SETTING | | | | | |
|---|---|---|---|---|---|
| SW1 | ON 1 2 3 4 | ON 3 4 | ON 3 4 | ON 3 4 | ON 3 4 |
| MODE | | MAIN NO SLAVE | MAIN | MAIN | SLAVE |
| FACTORY SETTING | | ✓ | | | |

C. Micro-switch SW1 is for setting the master or slave unit when the unit is in twin connection.

Range: Main no slave (Normal 1 drive 1 system), Main ( a master indoor unit of a triple and double twins system;), Slave(a slave unit of triple and double twins system)

| FOR TEMP. COMPENSATION(HEATING) | | | | | |
|---|---|---|---|---|---|
| SW2 | ON 1 2 3 4 | ON 3 4 | ON 3 4 | ON 3 4 | ON 3 4 |
| CODE | | 6℃ | 2℃ | 4℃ | EEPROM DEFAULT |
| FACTORY SETTING | | ✓ | | | |

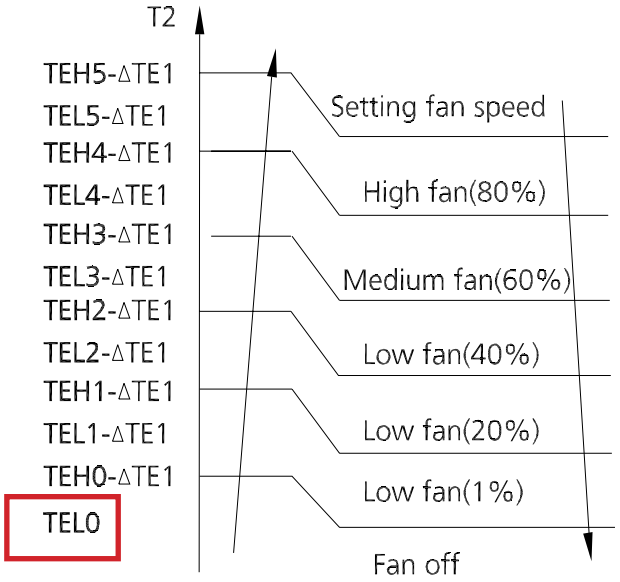
D. Micro-switch SW2 is for selection of temperature compensation in heating mode. This helps to reduce the real temperature difference between ceiling and floor so that the unit could run properly. If the height of installation is lower, smaller value could be chosen.

Range: 6°C, 4°C, 2°C, E function (reserved for special customizing)

| FOR ANTI-COLD WIND | | | | | |
|---|---|---|---|---|---|
| SW2 | ON 1 2 3 4 | ON 1 2 | ON 1 2 | ON 1 2 | ON 1 2 |
| TEL0 | | 24℃ | 15℃ | 8℃ | EEPROM DEFAULT |
| FACTORY SETTING | | ✓ | | | |

E. Micro-switch SW2 is for selection of indoor fan stop temperature (TEL0) when it is in anti-cold wind action in heating mode.

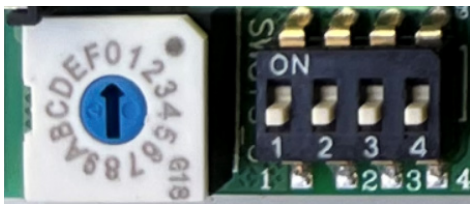
Range: 24°C, 15°C, 8°C, according to EEROM setting (reserved for special customizing).

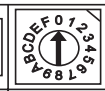
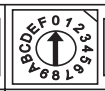



| FOR SETTING AUTO-RESTART | | | |
|---|---|---|---|
| SW8 | ON 1 2 3 4 | ON 3 | ON 3 |
| MODE | | AUTO-RESTART | NOT AUTO-RESTART |
| FACTORY SETTING | | ✓ | |

F. Micro-switch SW8 is for selection of auto-restart function.

Range: Active, inactive



| FOR SETTING NETADDRESS | | | | |
|---|---|---|---|---|
| S1+SW8 |  |  |  |  |
| CODE | 0~F | 0~F | 0~F | 0~F |
| NETADDRESS | 0~15 | 16~31 | 32~47 | 48~63 |
| FACTORY SETTING | ✓ | | | |

G. Micro-switch SW8 and dial-switch S1 are for address setting when you want to control this unit by a central controller and group control by programmble wired controller..

Range: 00-63

Note: For triple and double twins system, each SLAVE unit need to be different setting. For triple system, from 0,1; for double twins system, from 0,1,2.

| FOR SETTING POWER(DC MOTOR MODEL ONLY) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ENC1 |  |  |  |  |  |  |  |  |  |  |
| CODE | 0 | 1 | 2 | 4 | 5 | 7 | 8 | 9 | A | B |
| POWER | 20 | 26 | 32~35 | 36~53 | 54~71 | 72~90 | 91~105 | 106~140 | 141~160 | 161~200 |
| FACTORY SETTING | ACCORDING TO RELATED MODEL. | | | | | | | | | |

H. Dial-switch ENC1: The indoor PCB is universal designed for whole series units from 7K to 68K. This ENC1 setting will tell the main program what size the unit is.

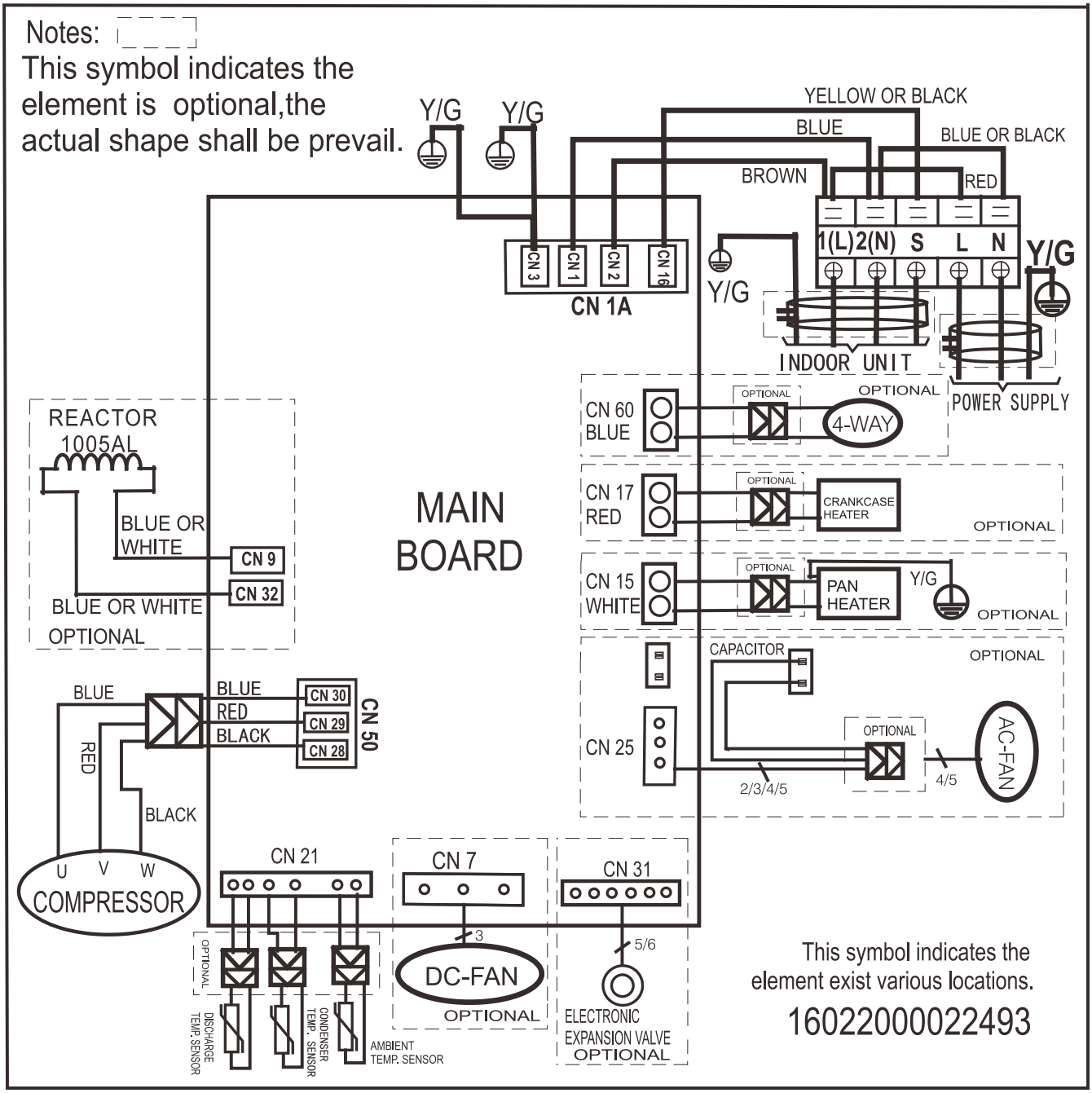
NOTE: Usually there is glue on it because the switch position cannot be changed at random unless you want to use this PCB as a spare part to use in another unit. Then you have to select the right position to match the size of the unit.

“20” means 2kW (7K),“105” means 10.5kW(36K), and so on.

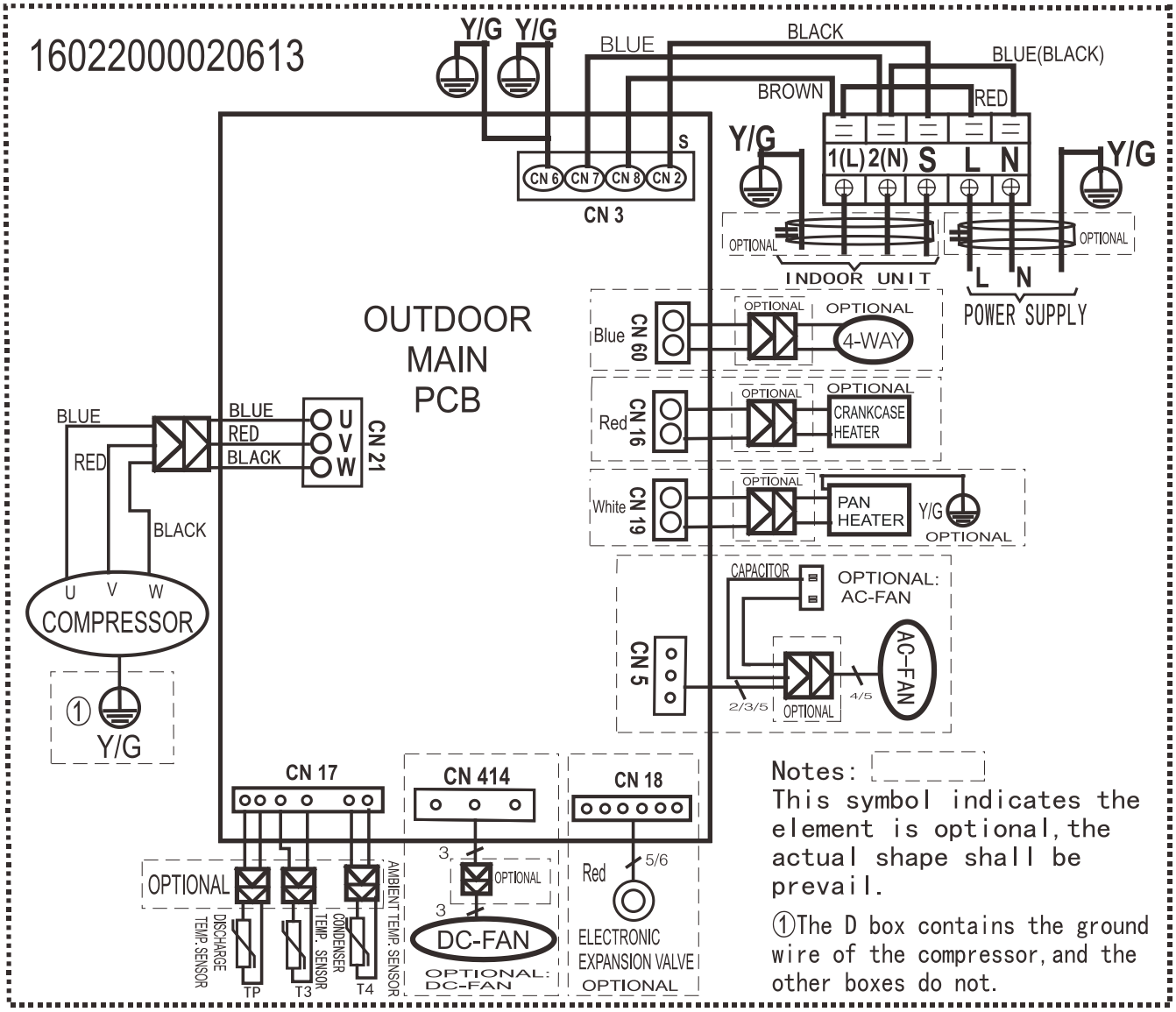
## 5.2 Outdoor Unit

| Abbreviation | Paraphrase |
|---|---|
| CAP1, CAP2, CAP3,CAP4 | Capacitor |
| FAN1 | Outdoor Fan Motor |
| KM8 | Contactor |
| CT1, CT2 | AC Current Detector |
| COMP | Compressor |
| L-PRO, K2 | Low Pressure Switch/Shorting Stub |
| K1 | High Pressure Switch/Shorting Stub |
| TRANS | Power Transformer |
| T4 | 10KΩ RESISTANCE/Outdoor Ambient Temperature |
| T3 | 10KΩ RESISTANCE/Coil Temperature of Condenser |
| XT1 | 2-Way Terminal/4-Way Terminal |
| XT2 | 3-Way Terminal |
| XT4 | Terminal |
| K3 | Compressor Discharge Temperature/Shorting Stub |
| XP1~XP5,XT5~XT7 | Connectors |

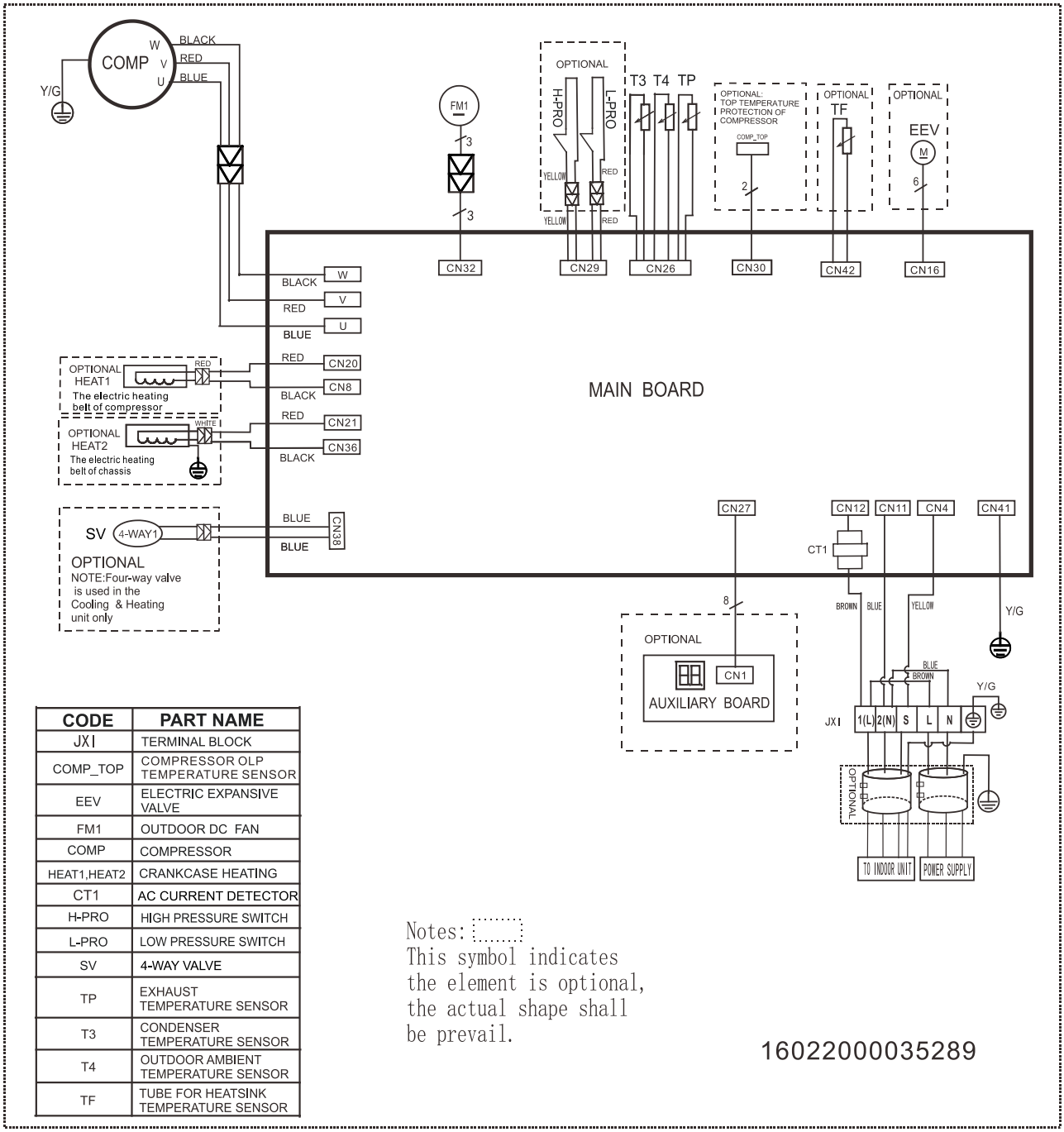
MOX230-09HFN8-QRD1W(GA), MOX230-12HFN8-QRD0W(GA), MOX330U-18HFN8-QRD0W(GA)



MOX430U-24HFN8-QRD1W(GA), MOD30U-30HFN8-QRD1W(GA)



MOD30U-36HFN8-QRD0W(GA),MOD30U-42HFN8-QRD0W(GA)

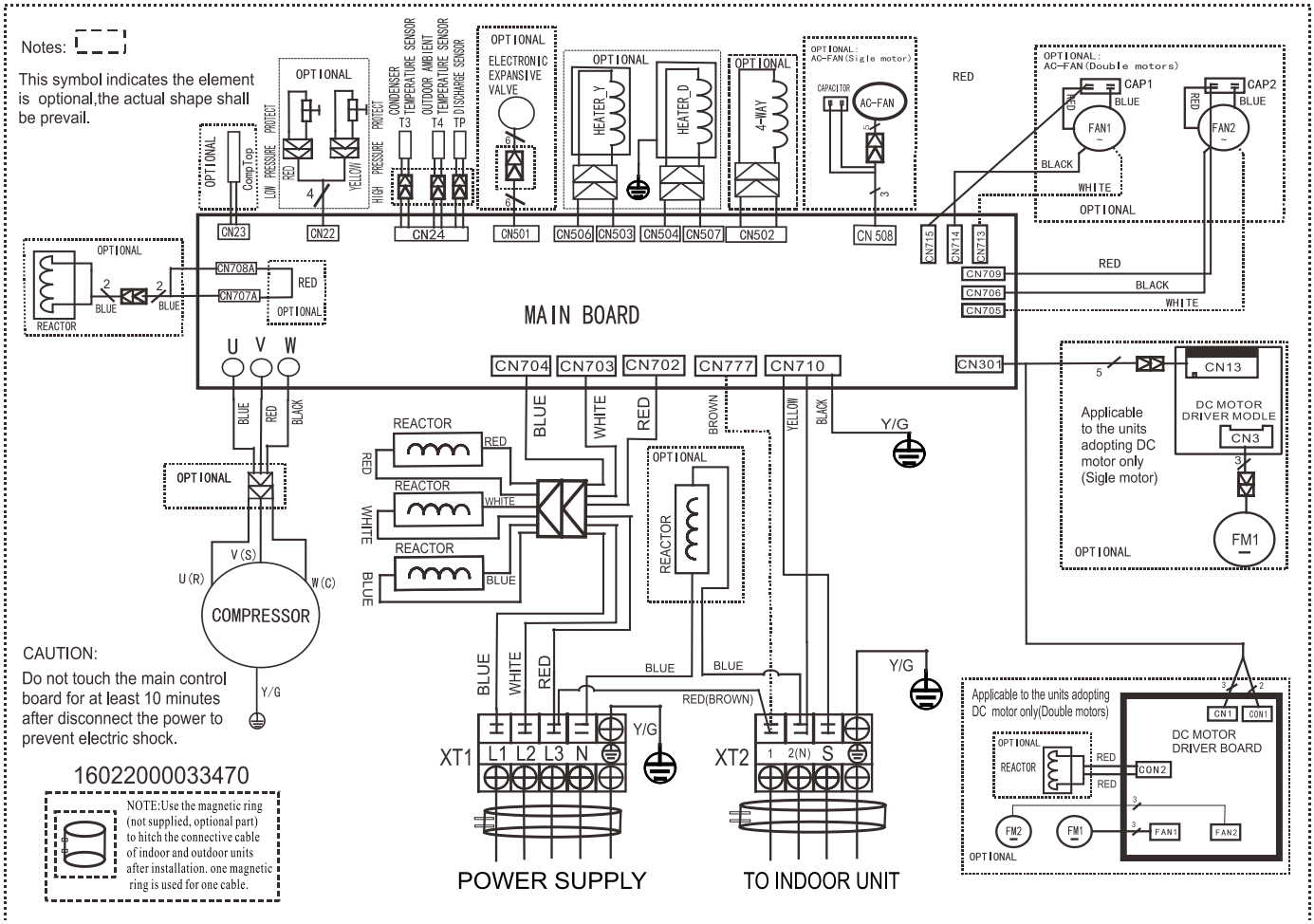



| CODE | PART NAME |
|---|---|
| JX1 | TERMINAL BLOCK |
| COMP_TOP | COMPRESSOR OLP TEMPERATURE SENSOR |
| EEV | ELECTRIC EXPANSIVE VALVE |
| FM1 | OUTDOOR DC FAN |
| COMP | COMPRESSOR |
| HEAT1,HEAT2 | CRANKCASE HEATING |
| CT1 | AC CURRENT DETECTOR |
| H-PRO | HIGH PRESSURE SWITCH |
| L-PRO | LOW PRESSURE SWITCH |
| SV | 4-WAY VALVE |
| TP | EXHAUST TEMPERATURE SENSOR |
| T3 | CONDENSER TEMPERATURE SENSOR |
| T4 | OUTDOOR AMBIENT TEMPERATURE SENSOR |
| TF | TUBE FOR HEATSINK TEMPERATURE SENSOR |

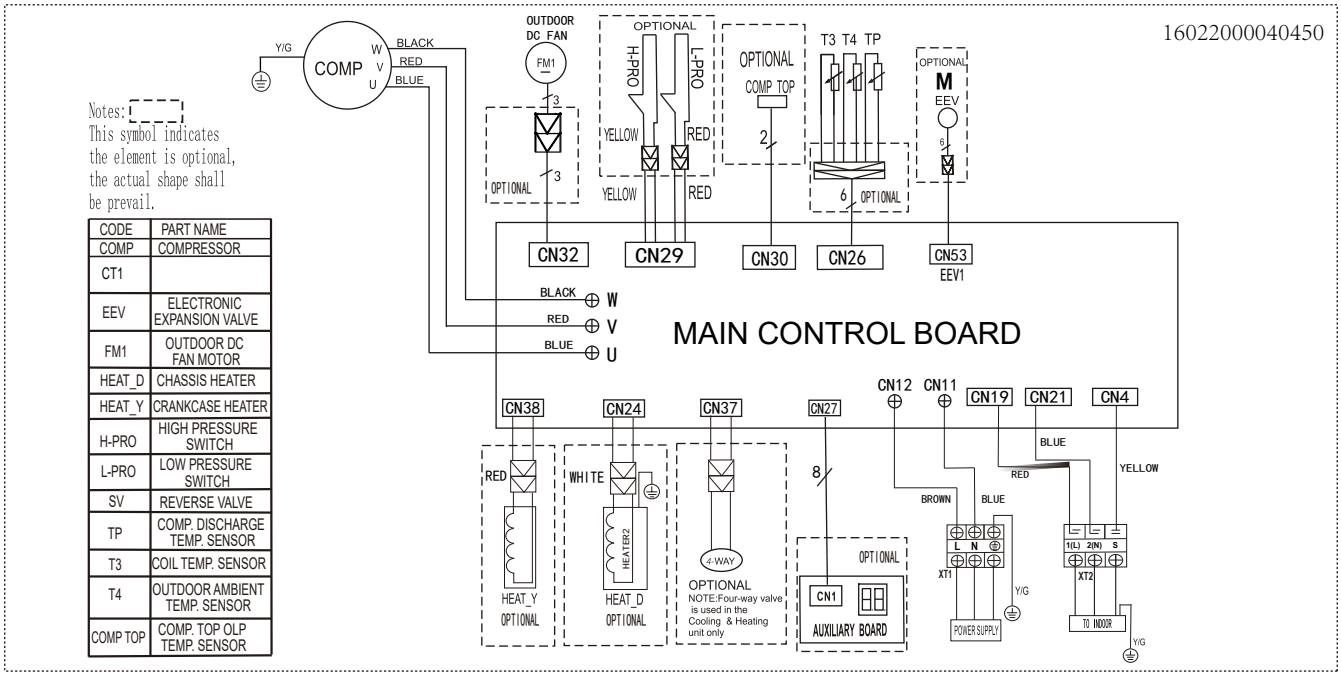
Notes:
This symbol indicates the element is optional, the actual shape shall be prevail.

16022000035289

MOD30U-36HFN8-RRD0W(GA)

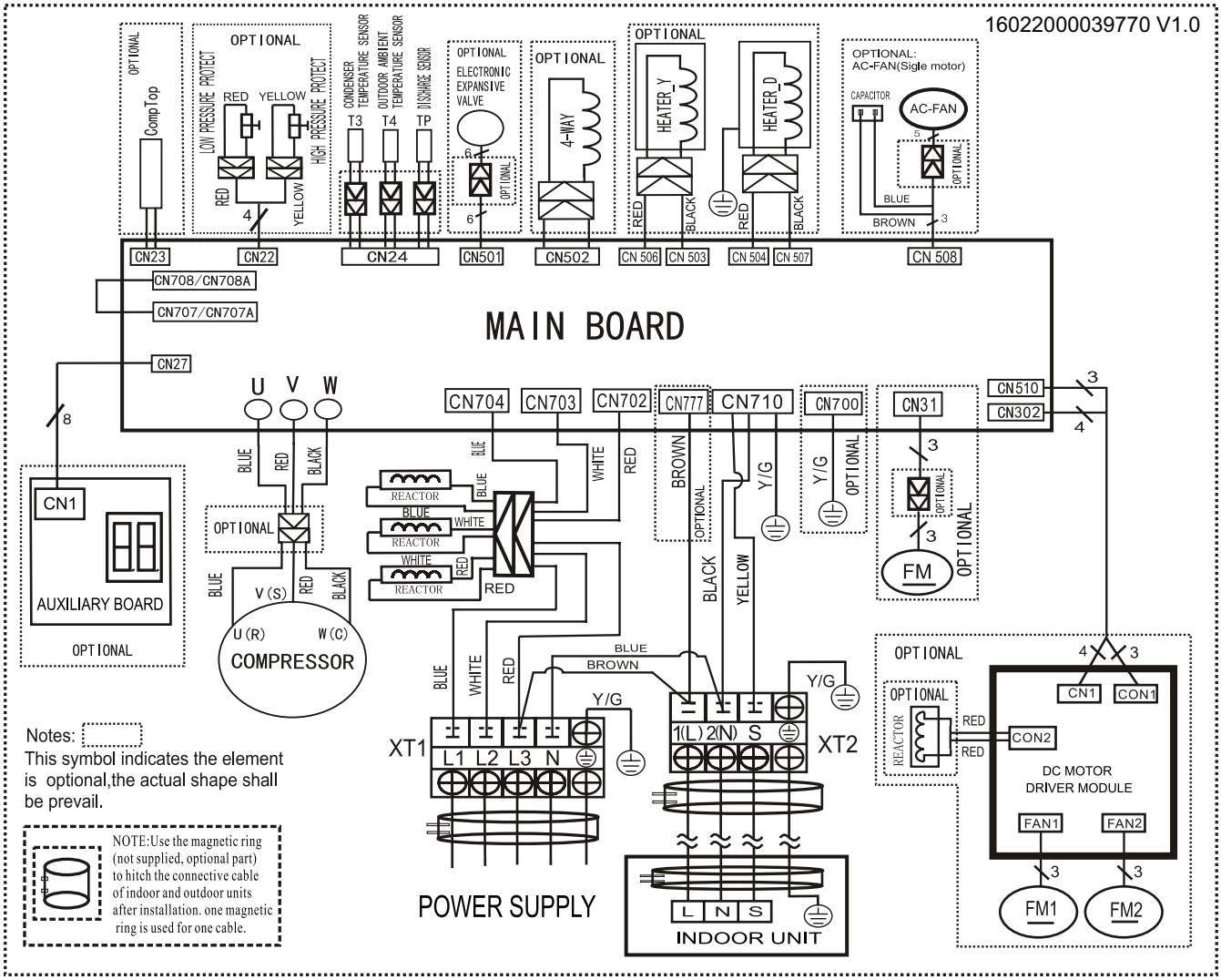


MOX630U-48HFN8-QRD0W(GA)



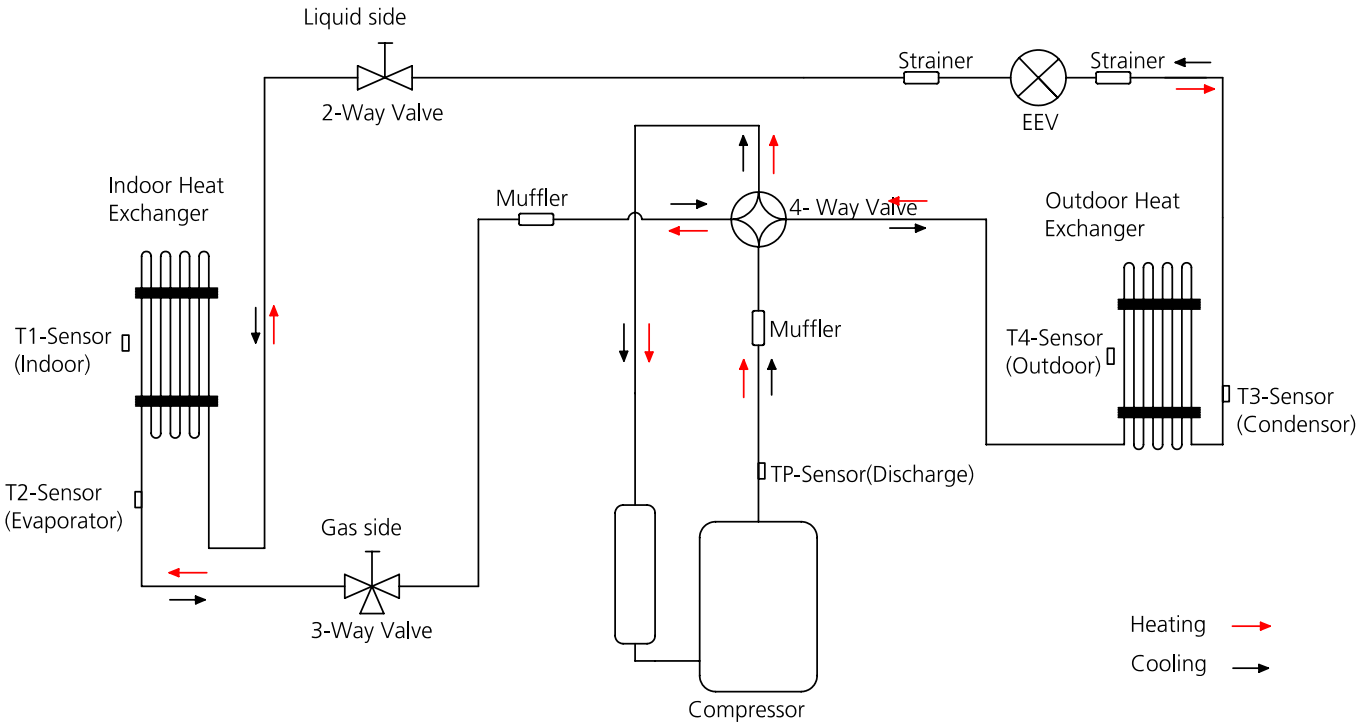

| CODE | PART NAME |
|---|---|
| COMP | COMPRESSOR |
| CT1 | |
| EEV | ELECTRONIC EXPANSION VALVE |
| FM1 | OUTDOOR DC FAN MOTOR |
| HEAT_D | CHASSIS HEATER |
| HEAT_Y | CRANKCASE HEATER |
| H-PRO | HIGH PRESSURE SWITCH |
| L-PRO | LOW PRESSURE SWITCH |
| SV | REVERSE VALVE |
| TP | COMP. DISCHARGE TEMP. SENSOR |
| T3 | COIL TEMP. SENSOR |
| T4 | OUTDOOR AMBIENT TEMP. SENSOR |
| COMP TOP | COMP. TOP OLP TEMP. SENSOR |

MOX630U-48HFN8-RRD0W(GA), MOX630U-55HFN8-RRD0W(GA)



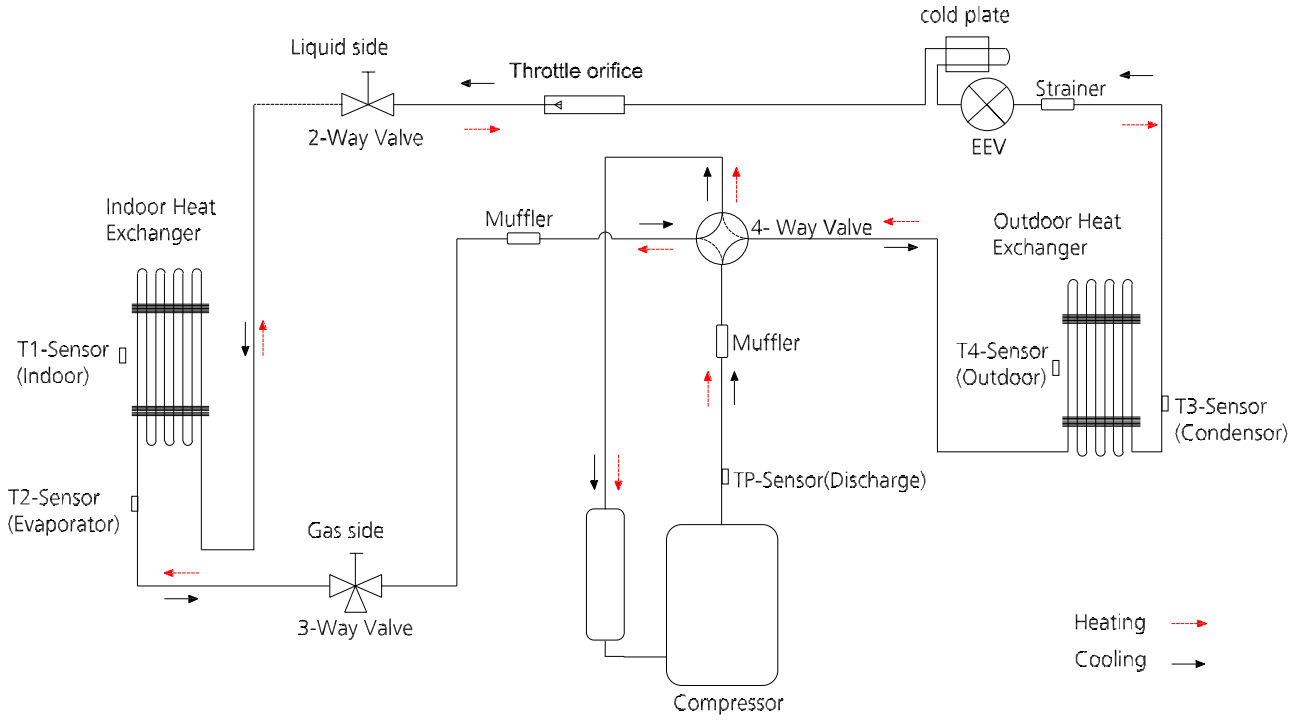
# 6. Refrigerant Cycle Diagrams

9k~18k



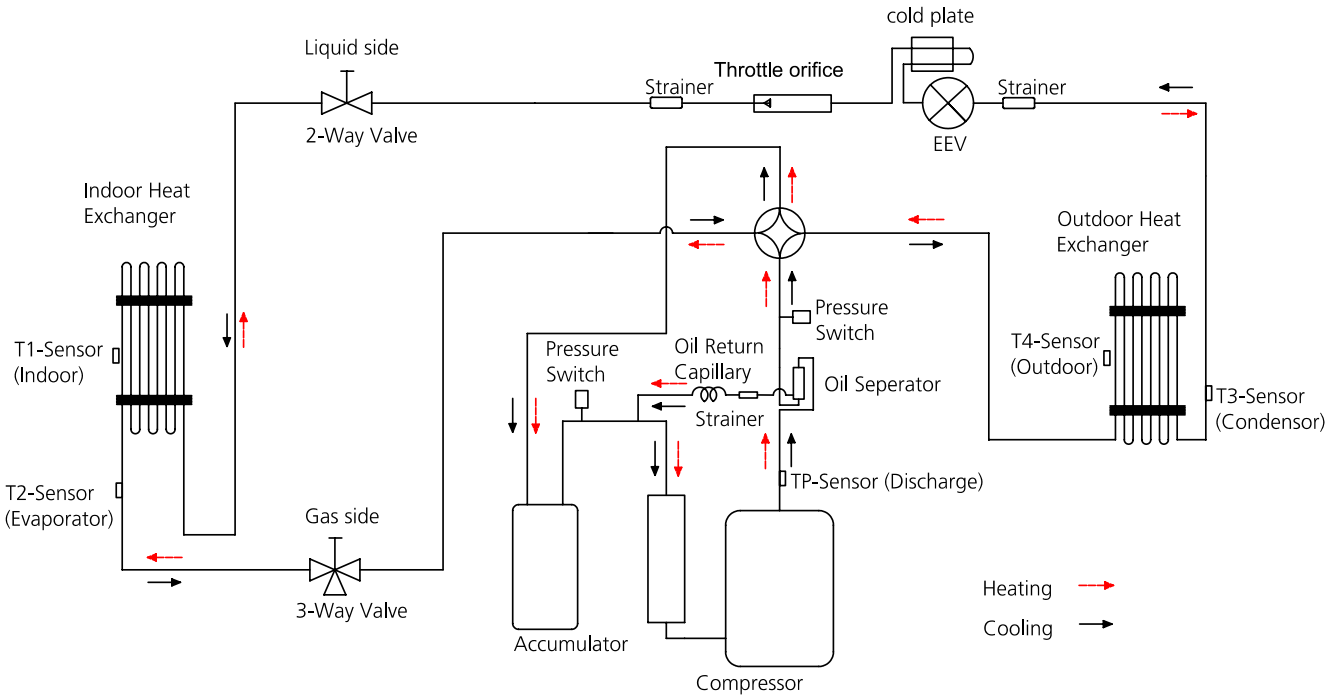

For 9k&12k, There is a muffler on the low pressure side only.

24k~30k



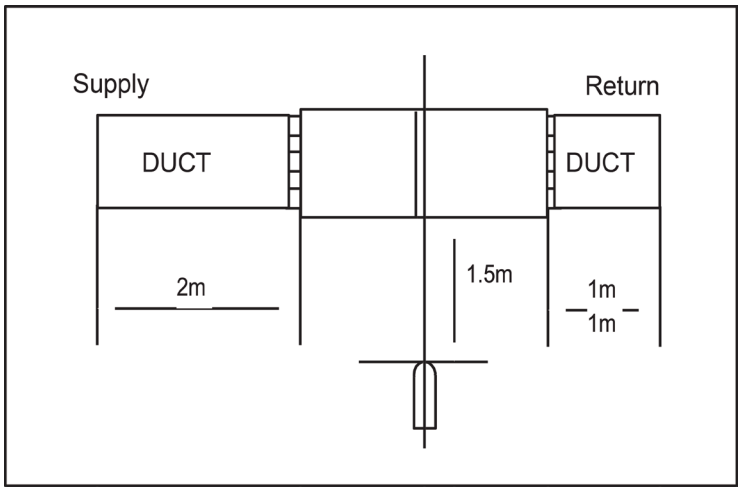

For 30k, There is a muffler on the discharge pipe only.

36k~55k


cold plate
Liquid side
Throttle orifice
Strainer
Strainer
2-Way Valve
EEV
Indoor Heat
Exchanger
Outdoor Heat
Exchanger
Pressure
Switch
T1-Sensor
(Indoor)
Pressure
Switch
Oil Return
Capillary
T4-Sensor
(Outdoor)
Oil Seperator
T3-Sensor
(Condensor)
Strainer
T2-Sensor
(Evaporator)
TP-Sensor (Discharge)
Gas side
3-Way Valve
Heating
Cooling
Accumulator
Compressor

# 7. Noise Criterion Curves

## 7.1 Indoor Unit




Notes:

-Sound measured at 1.5m away from the center of the unit.

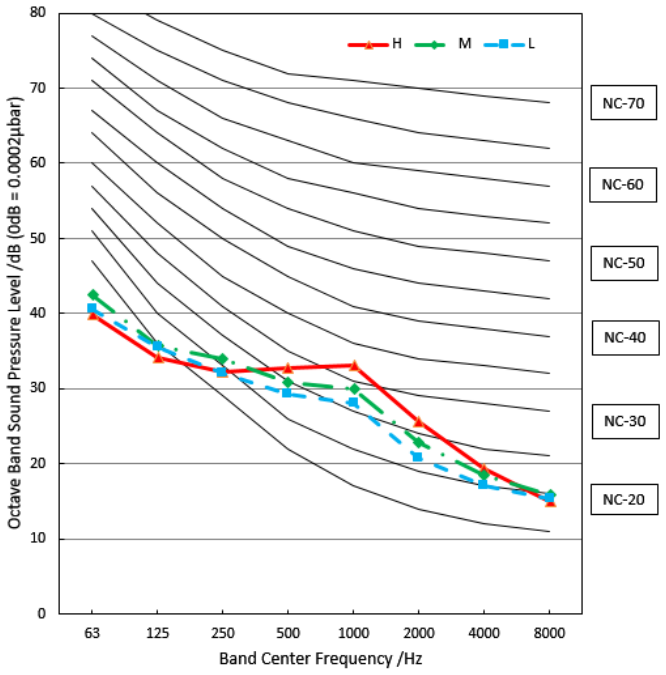
-Data is valid at nominal operation condition

-Reference acoustic pressure OdB = 20μPa

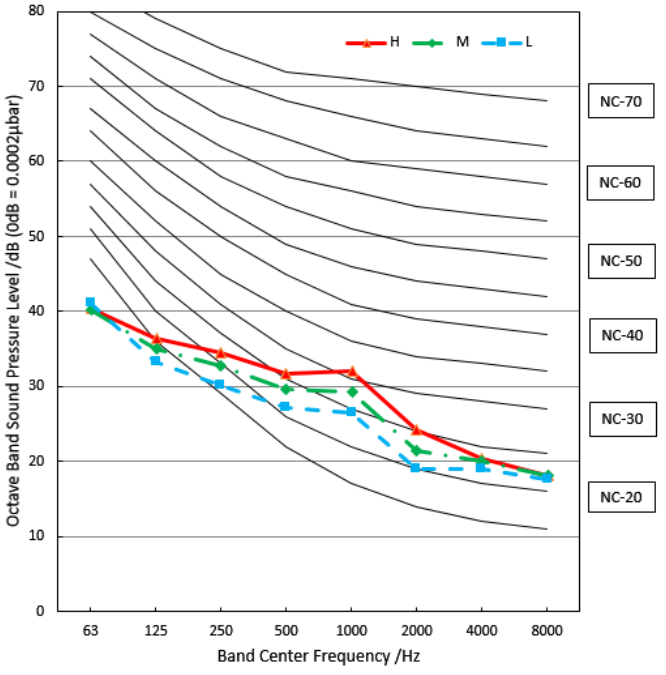
-Sound level will vary depending on a range of factors such as the construction -(acoustic absorption coefficient) of particular room in which the equipment is installed.

-The operating conditions are assumed to be standard.

9k

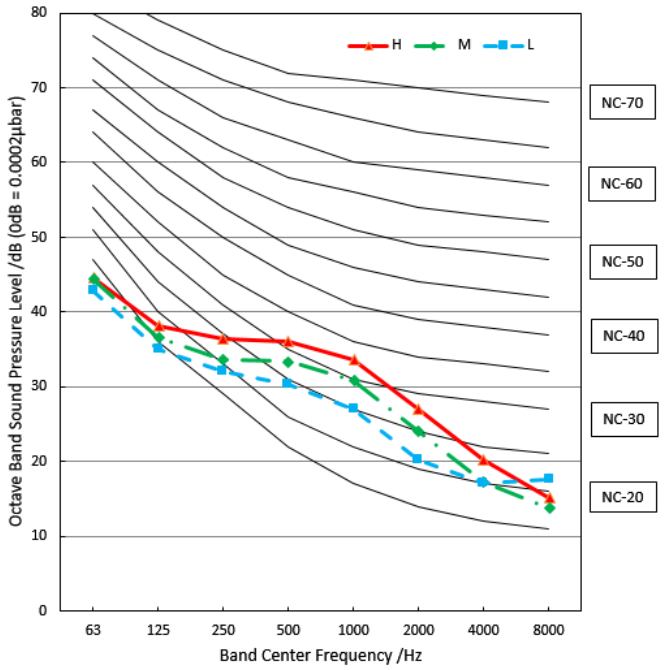


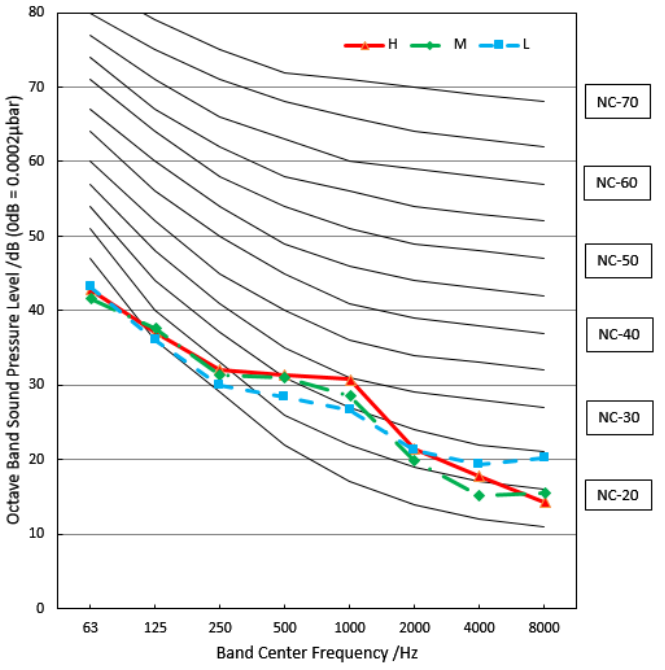

12k



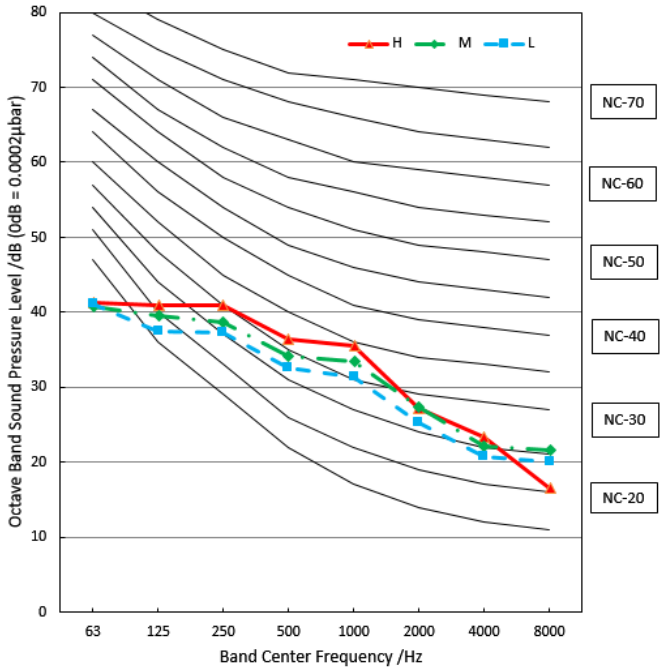

18k

24k

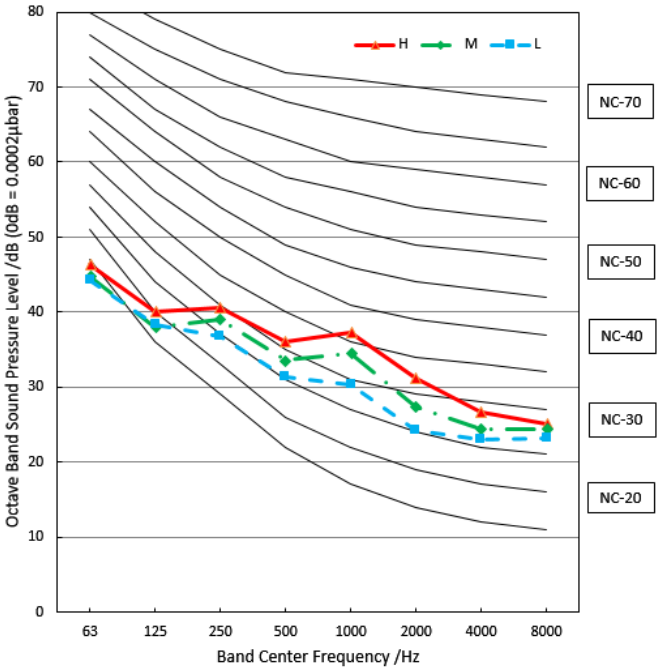

H
M
L
NC-70
NC-60
NC-50
NC-40
NC-30
NC-20
Octave Band Sound Pressure Level /dB (0dB = 0.0002μbar)
Band Center Frequency /Hz
0
10
20
30
40
50
60
70
80
63
125
250
500
1000
2000
4000
8000


H
M
L
NC-70
NC-60
NC-50
NC-40
NC-30
NC-20
Octave Band Sound Pressure Level /dB (0dB = 0.0002μbar)
Band Center Frequency /Hz
0
10
20
30
40
50
60
70
80
63
125
250
500
1000
2000
4000
8000

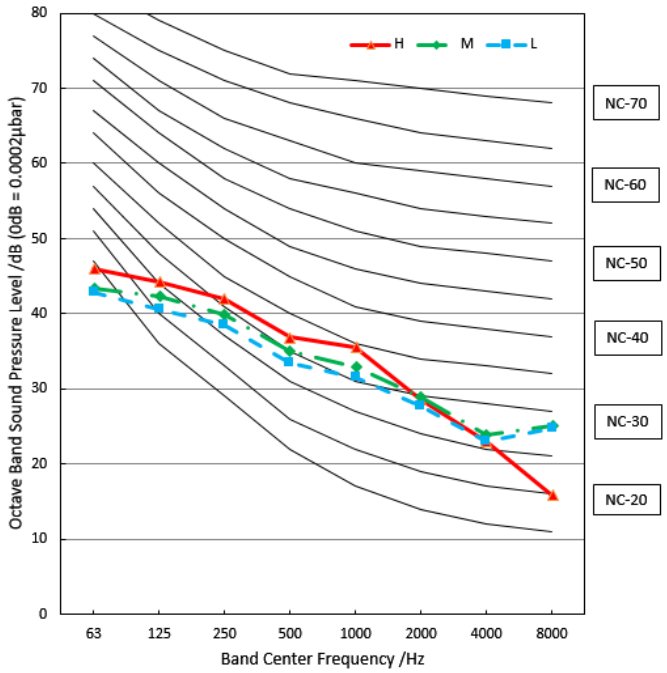
30k


H
M
L
NC-70
NC-60
NC-50
NC-40
NC-30
NC-20
Octave Band Sound Pressure Level /dB (0dB = 0.0002μbar)
Band Center Frequency /Hz
0
10
20
30
40
50
60
70
80
63
125
250
500
1000
2000
4000
8000

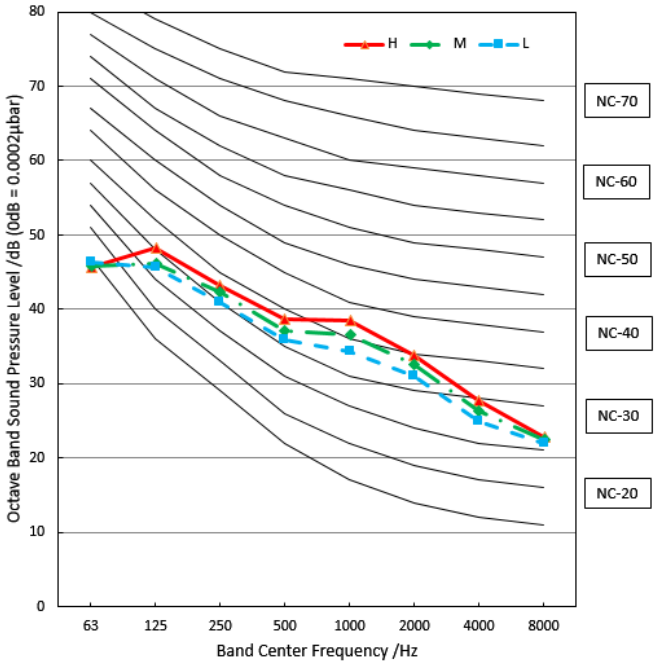
36k


H
M
L
NC-70
NC-60
NC-50
NC-40
NC-30
NC-20
Octave Band Sound Pressure Level /dB (0dB = 0.0002μbar)
Band Center Frequency /Hz
0
10
20
30
40
50
60
70
80
63
125
250
500
1000
2000
4000
8000

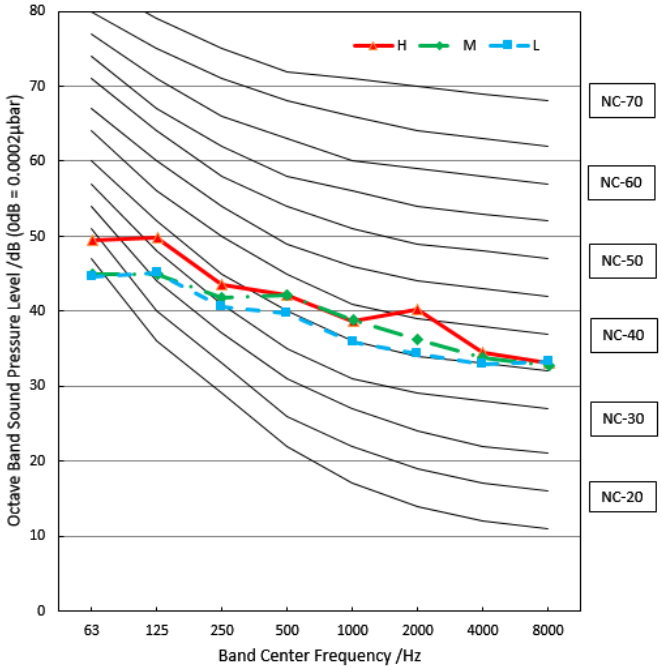
42k


H
M
L
NC-70
NC-60
NC-50
NC-40
NC-30
NC-20
Octave Band Sound Pressure Level /dB (0dB = 0.0002μbar)
Band Center Frequency /Hz
0
10
20
30
40
50
60
70
80
63
125
250
500
1000
2000
4000
8000

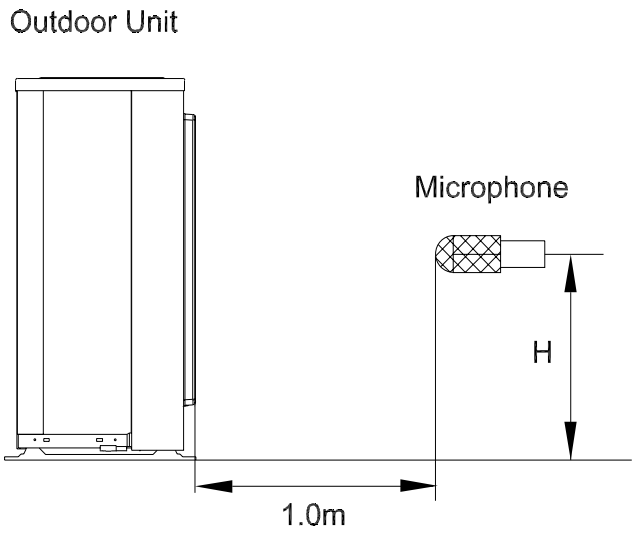
48k


H
M
L
NC-70
NC-60
NC-50
NC-40
NC-30
NC-20
Octave Band Sound Pressure Level /dB (0dB = 0.0002μbar)
Band Center Frequency /Hz
0
10
20
30
40
50
60
70
80
63
125
250
500
1000
2000
4000
8000

55k


H
M
L
NC-70
NC-60
NC-50
NC-40
NC-30
NC-20
Octave Band Sound Pressure Level /dB (0dB = 0.0002μbar)
Band Center Frequency /Hz
0
10
20
30
40
50
60
70
80
63
125
250
500
1000
2000
4000
8000

## 7.2 Outdoor Unit




Note: H= 0.5 × height of outdoor unit

Notes:

-Sound measured at 1.0m away from the center of the unit.

-Data is valid at free field condition

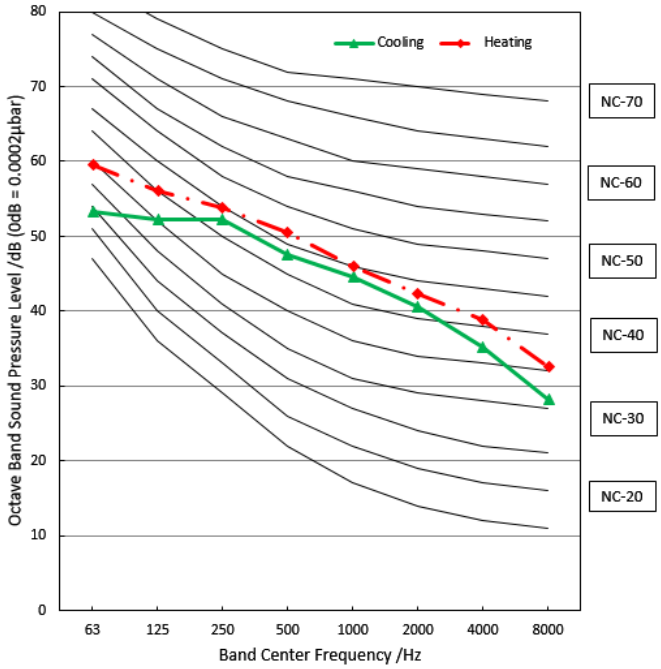
-Data is valid at nominal operation condition

-Reference acoustic pressure OdB=20μPa

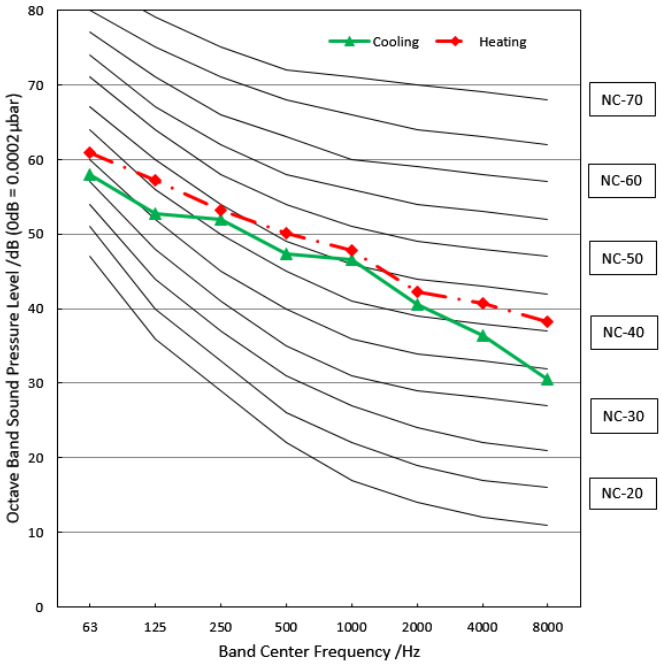
-Sound level will vary depending on arrange off actors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

-The operating conditions are assumed to be standard.

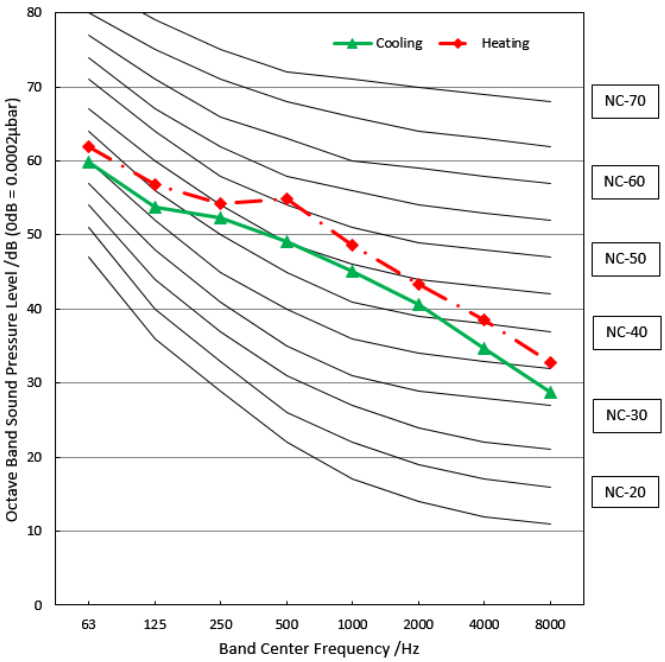
MOX230-09HFN8-QRD1W(GA)



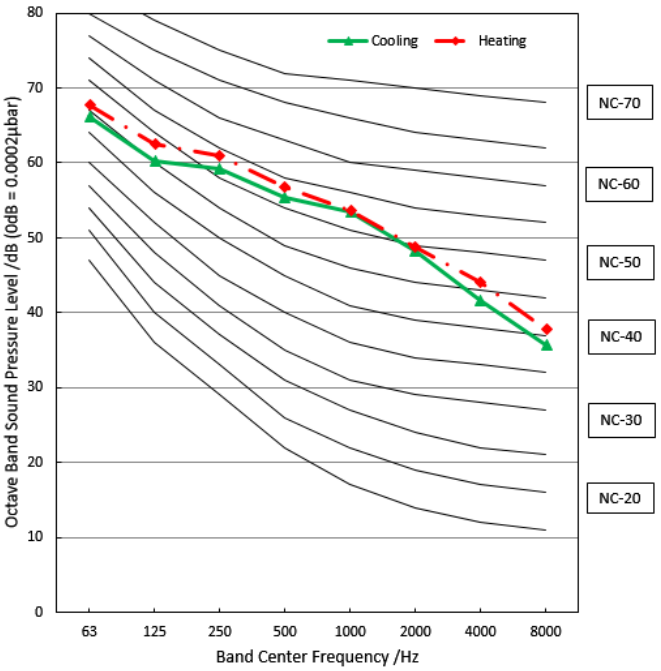

MOX230-12HFN8-QRD0W(GA)



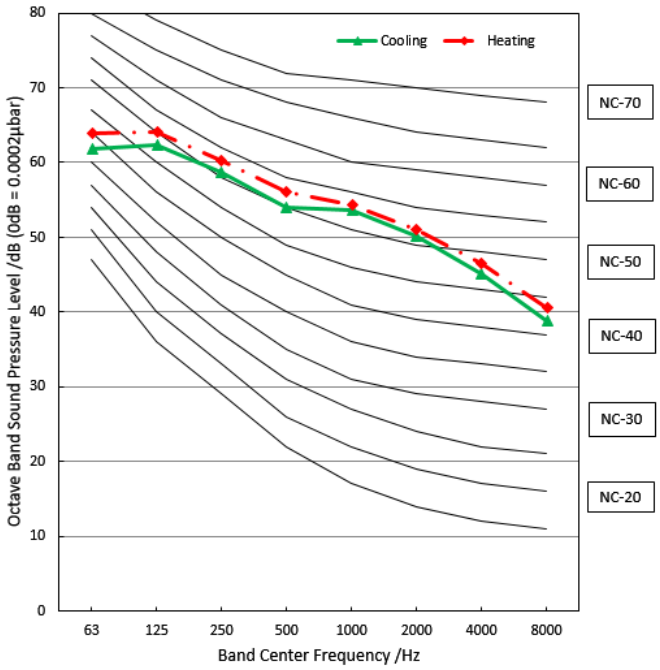

MOX330U-18HFN8-QRD0W(GA)



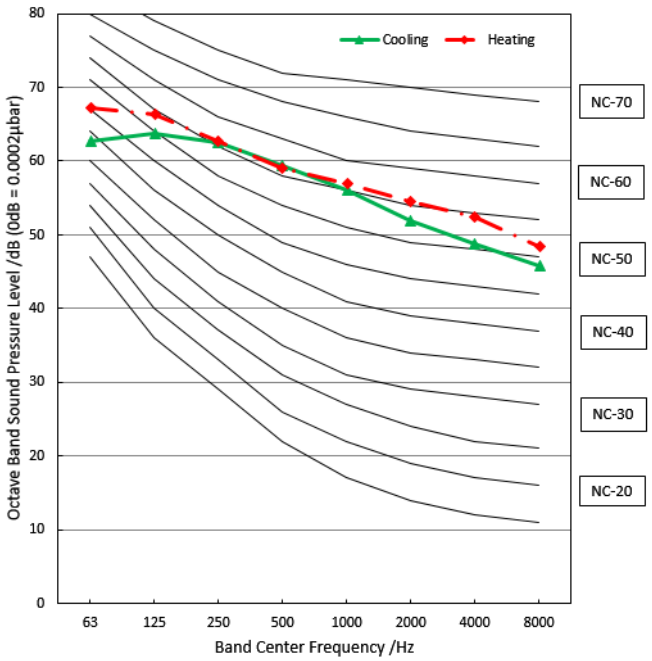

MOX430U-24HFN8-QRD1W(GA)



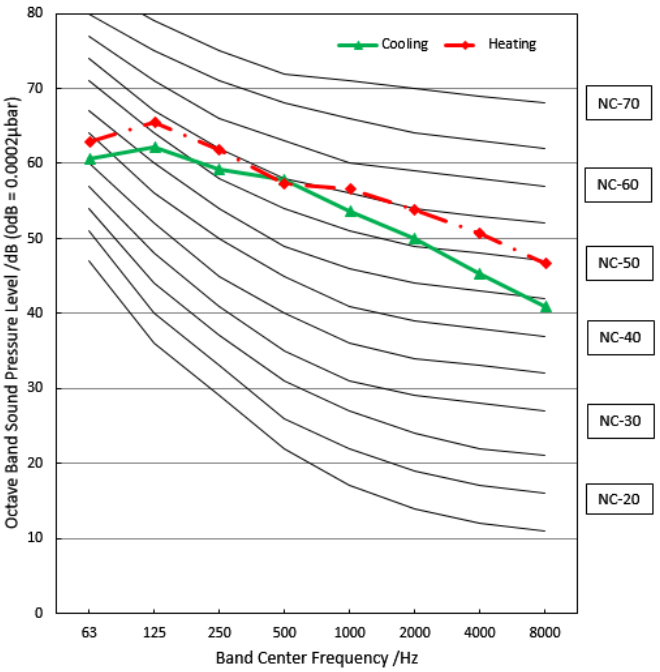
MOD30U-30HFN8-QRD1W(GA)



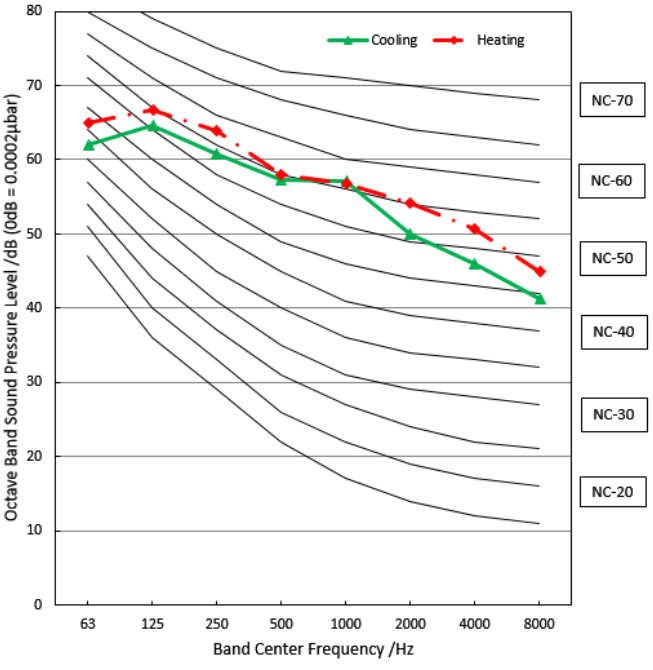

MOD30U-36HFN8-QRD0W(GA)



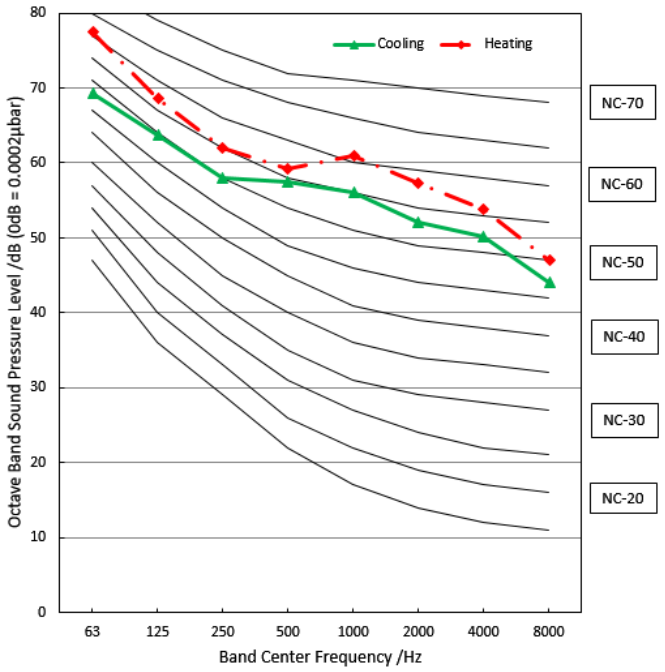

MOD30U-36HFN8-RRD0W(GA)



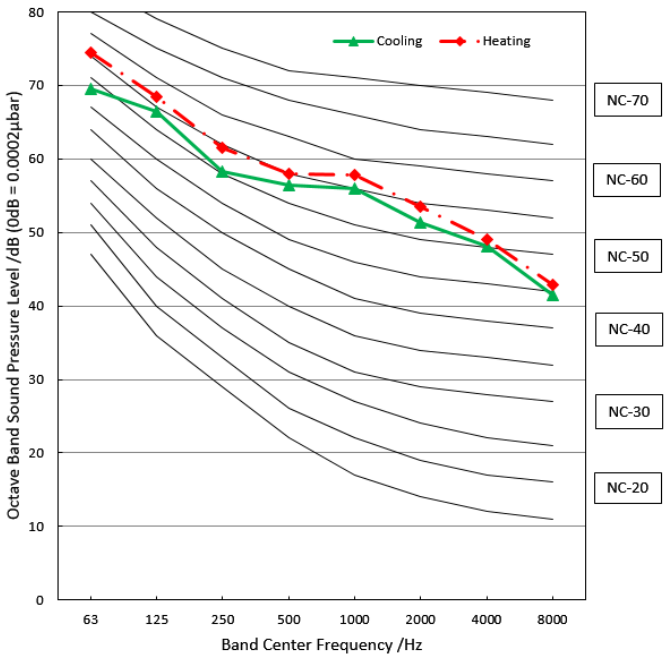

MOD30U-42HFN8-QRD0W(GA)



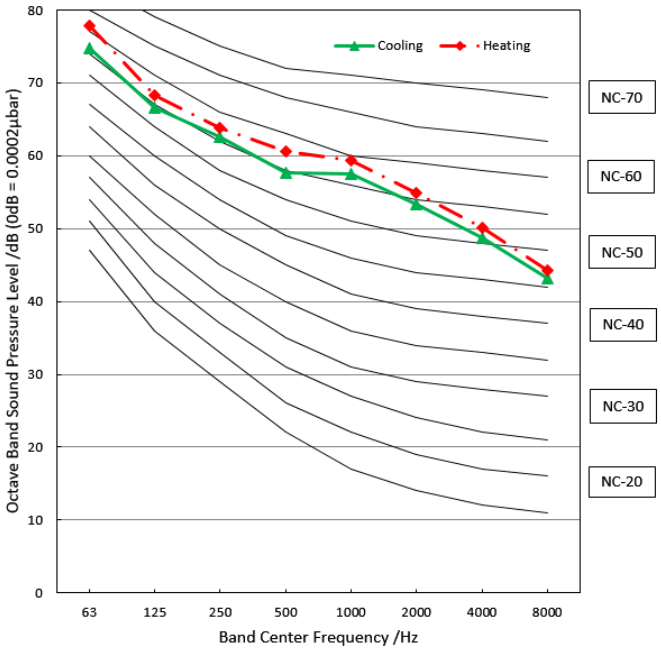
MOX630U-48HFN8-QRD0W(GA)




MOX630U-48HFN8-RRD0W(GA)



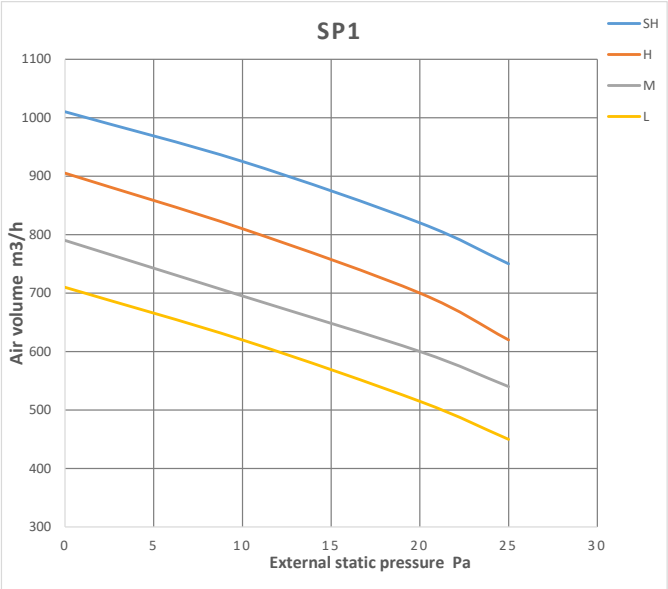

MOX630U-55HFN8-RRD0W(GA)

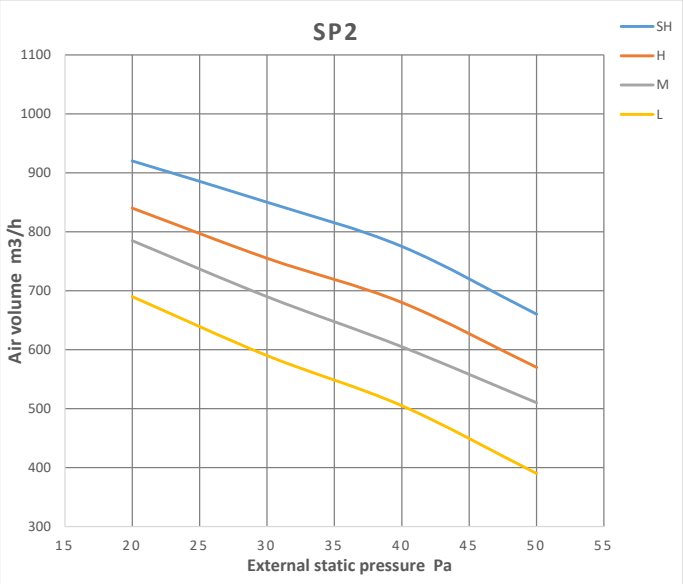


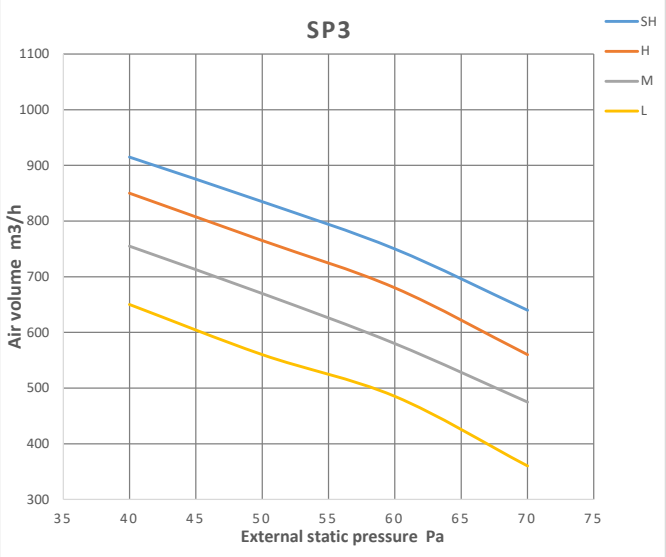
# 8. Fan Performance

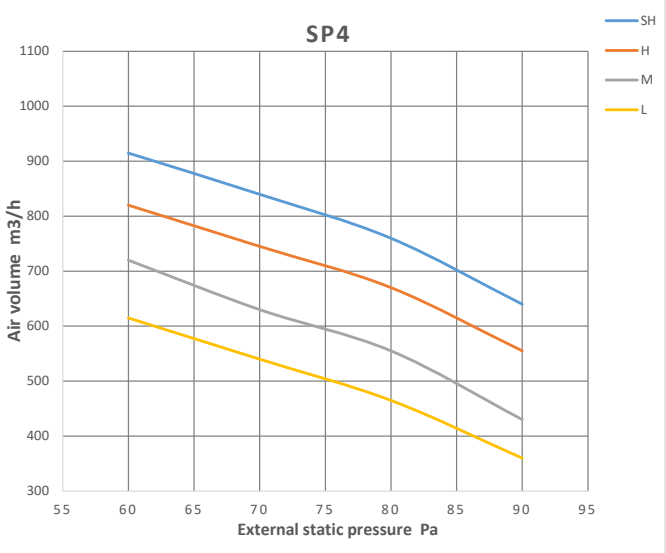
## 8.1 Fan Performance

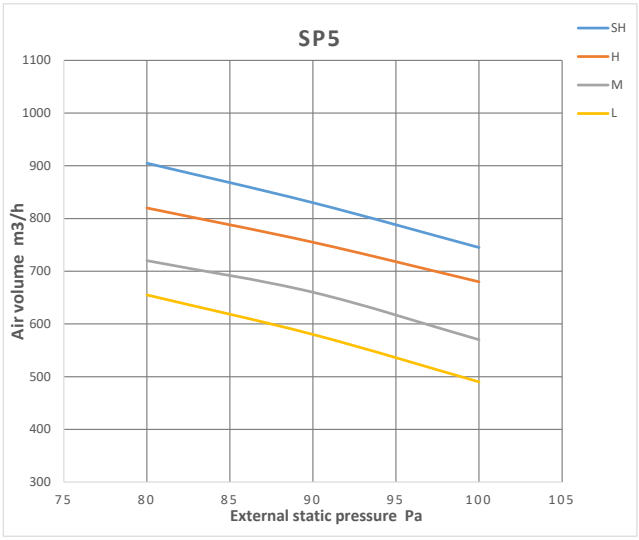
9k



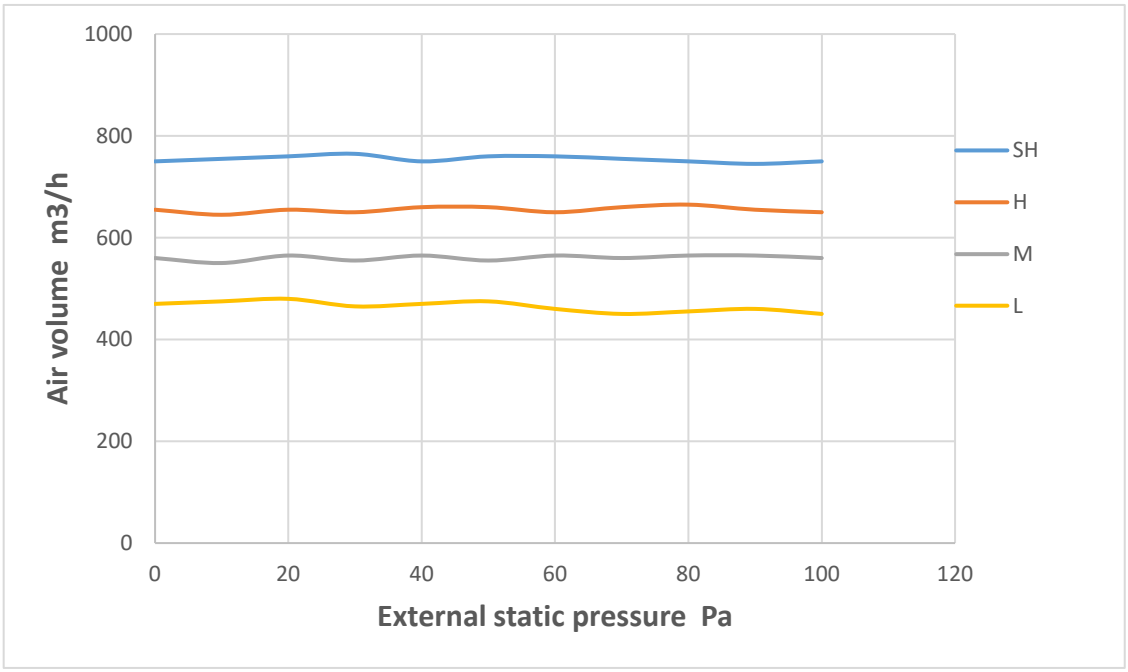



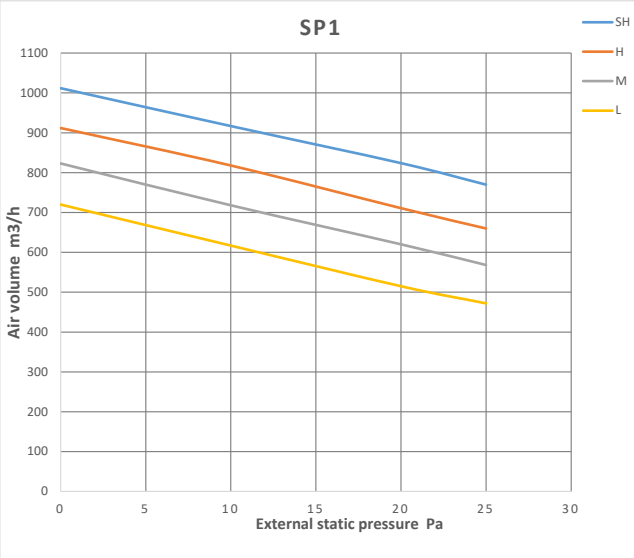



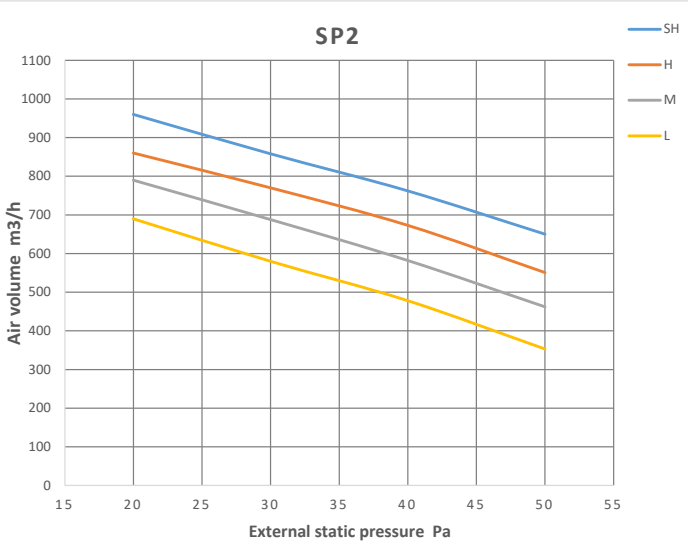


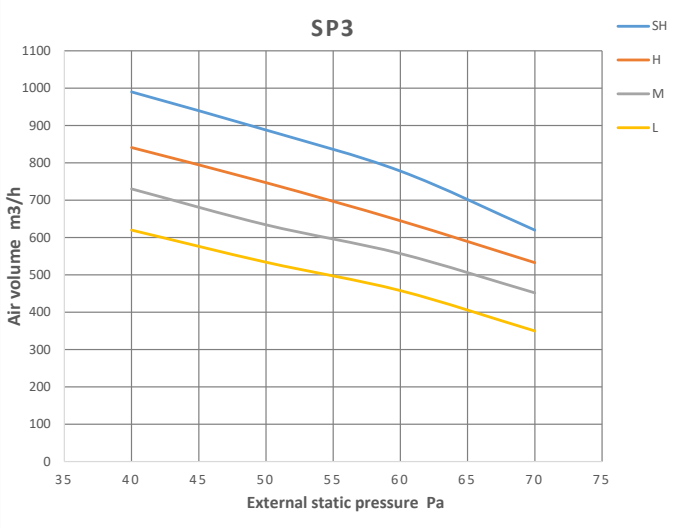

**9k Constant air volume**

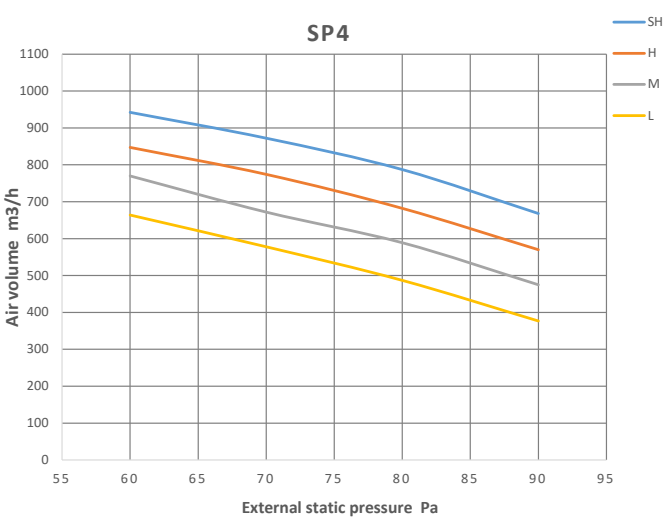


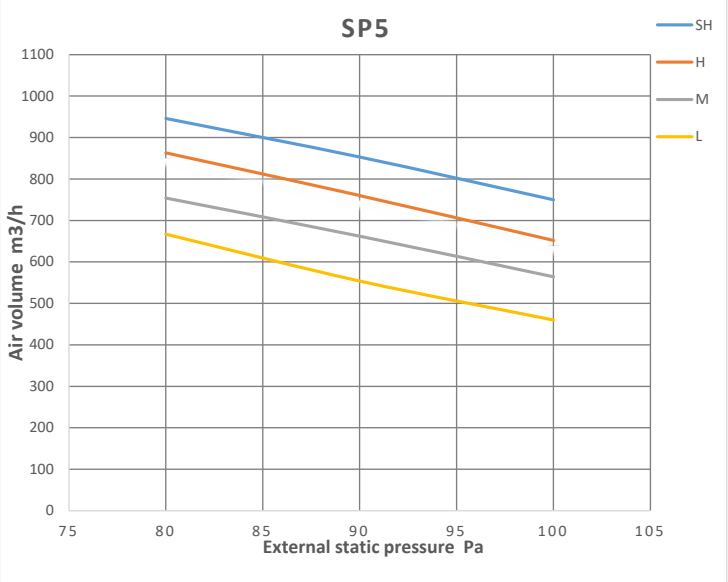
12k


SP1
SH
H
M
L
Air volume m3/h
1100
1000
900
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
30
External static pressure Pa

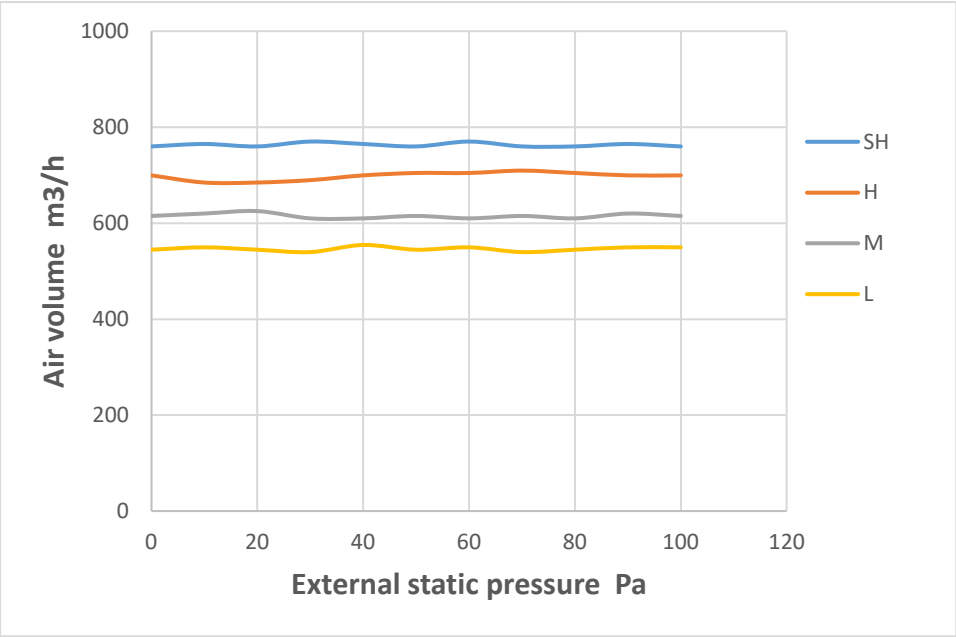

SP2
SH
H
M
L
Air volume m3/h
1100
1000
900
800
700
600
500
400
300
200
100
0
15
20
25
30
35
40
45
50
55
External static pressure Pa


SP3
SH
H
M
L
Air volume m3/h
1100
1000
900
800
700
600
500
400
300
200
100
0
35
40
45
50
55
60
65
70
75
External static pressure Pa

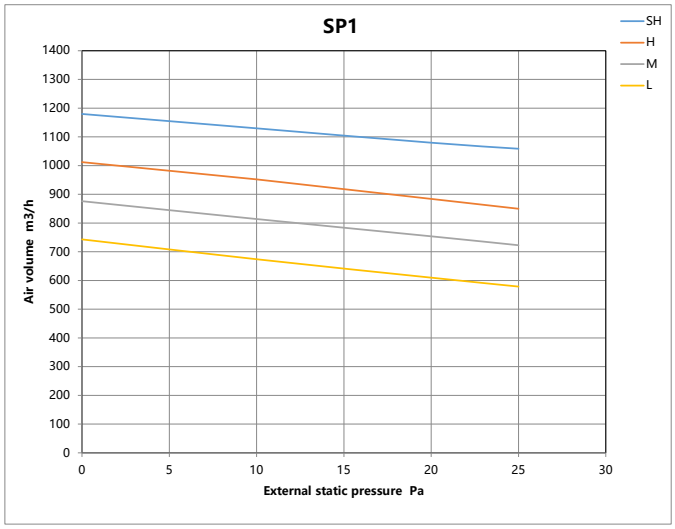

SP4
SH
H
M
L
Air volume m3/h
1100
1000
900
800
700
600
500
400
300
200
100
0
55
60
65
70
75
80
85
90
95
External static pressure Pa

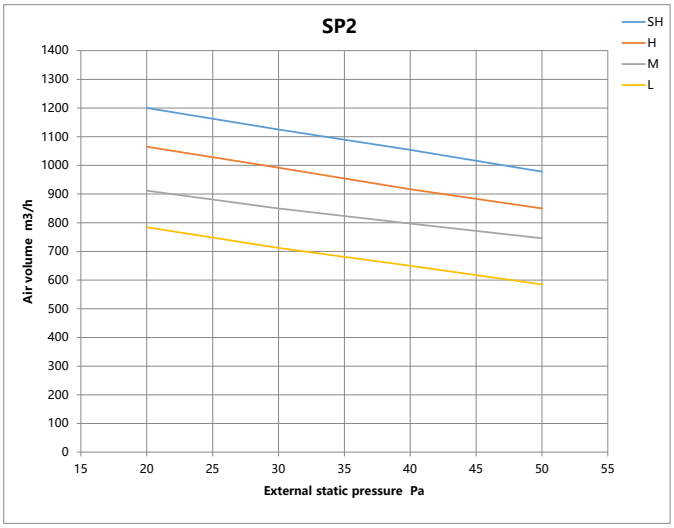

SP5
SH
H
M
L
Air volume m3/h
1100
1000
900
800
700
600
500
400
300
200
100
0
75
80
85
90
95
100
105
External static pressure Pa

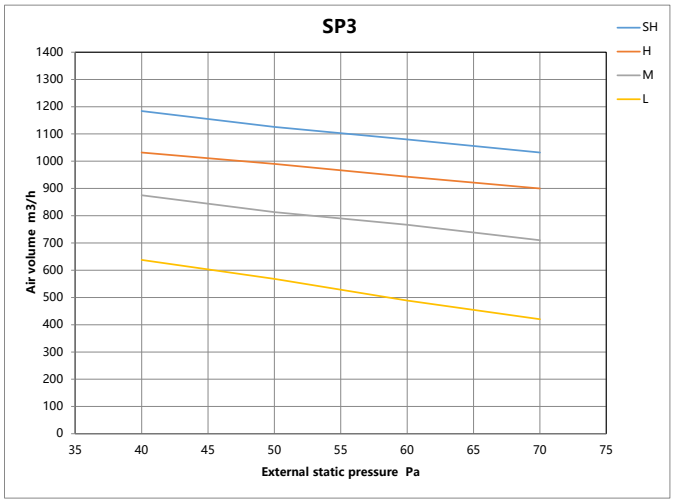
**12k Constant air volume**

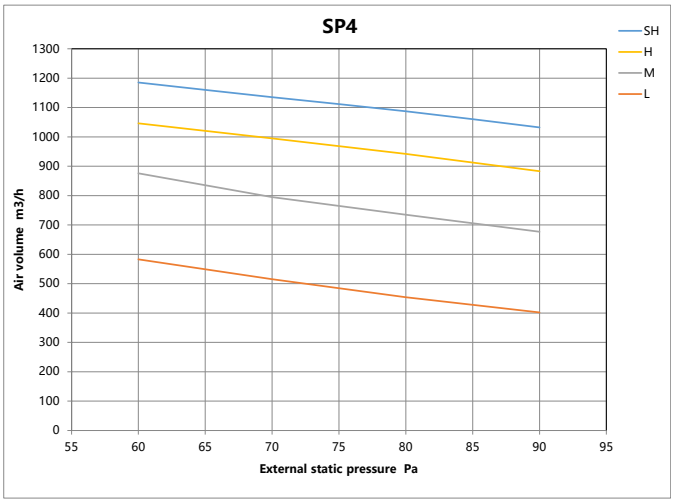


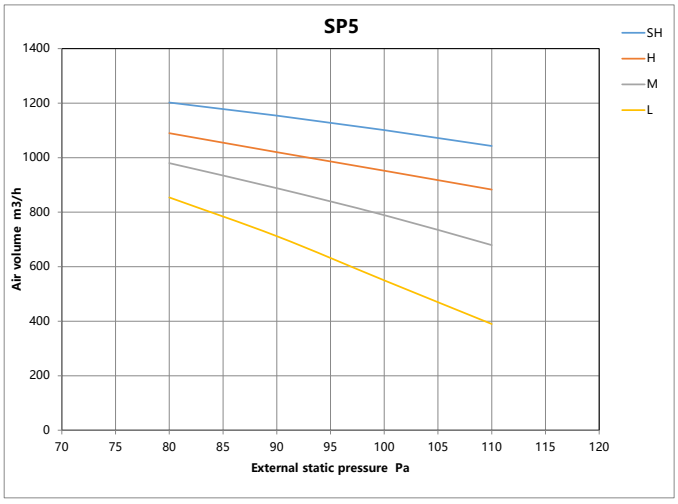
18k

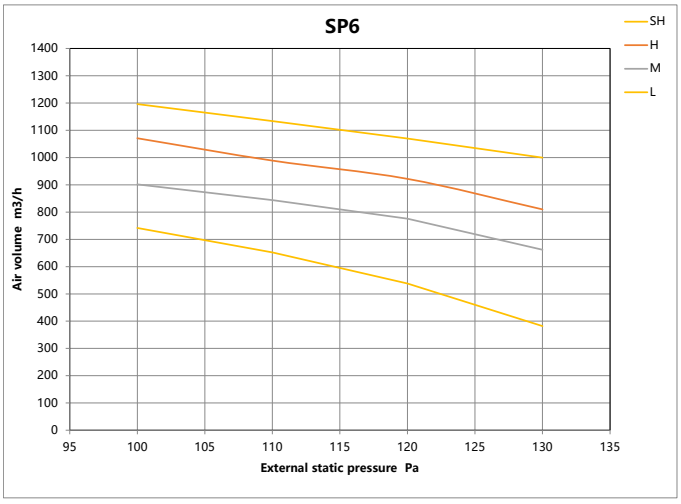

SP1
SH
H
M
L
Air volume m3/h
External static pressure Pa

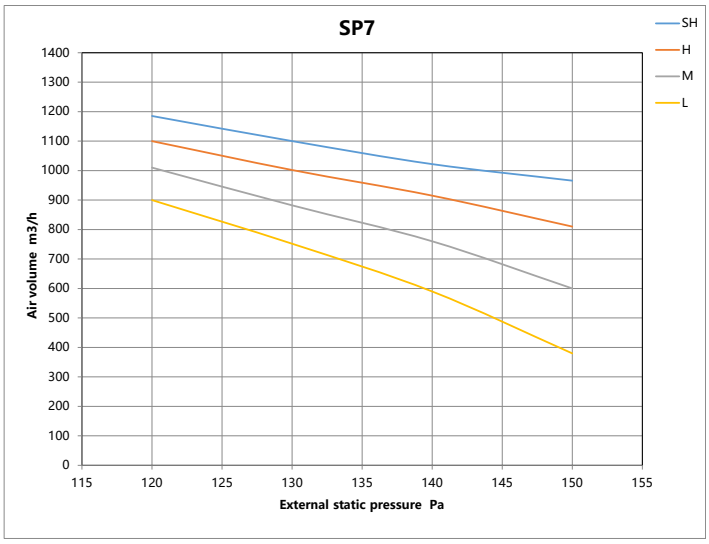

SP2
SH
H
M
L
Air volume m3/h
External static pressure Pa

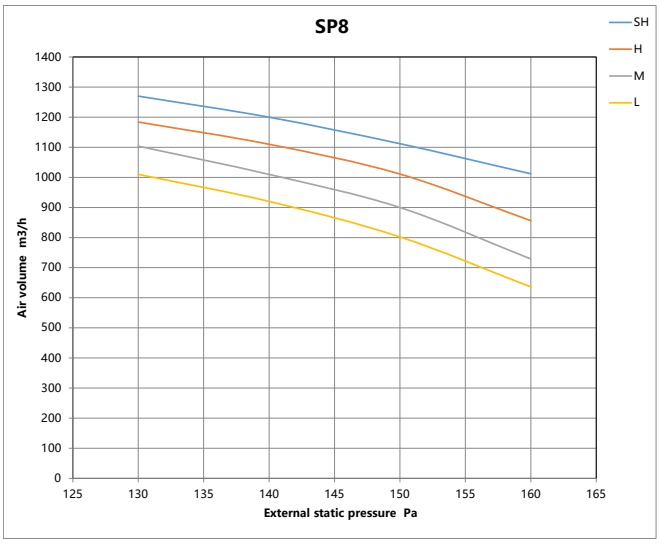

SP3
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP4
SH
H
M
L
Air volume m3/h
External static pressure Pa

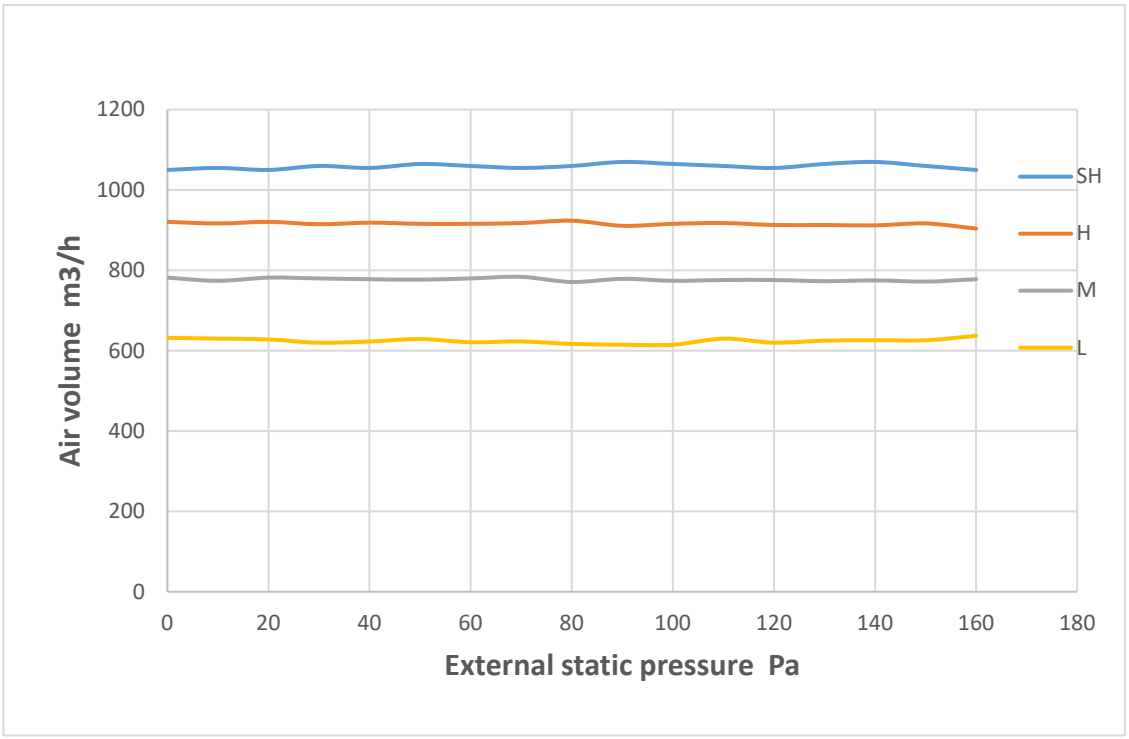

SP5
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP6
SH
H
M
L
Air volume m3/h
External static pressure Pa

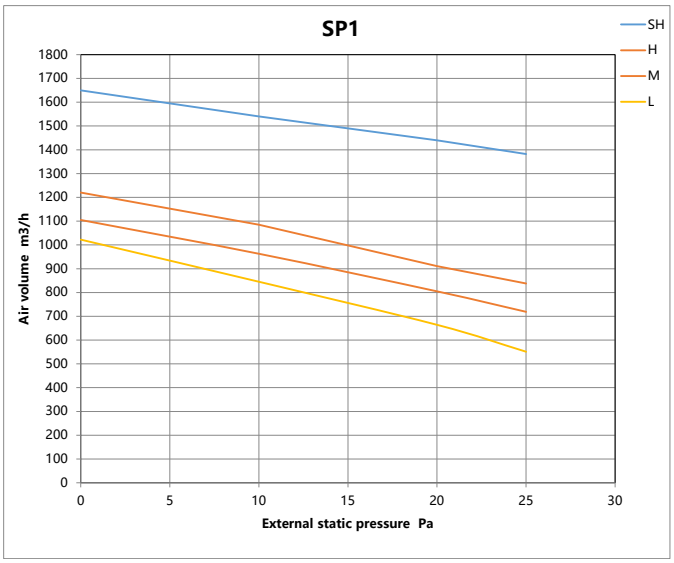


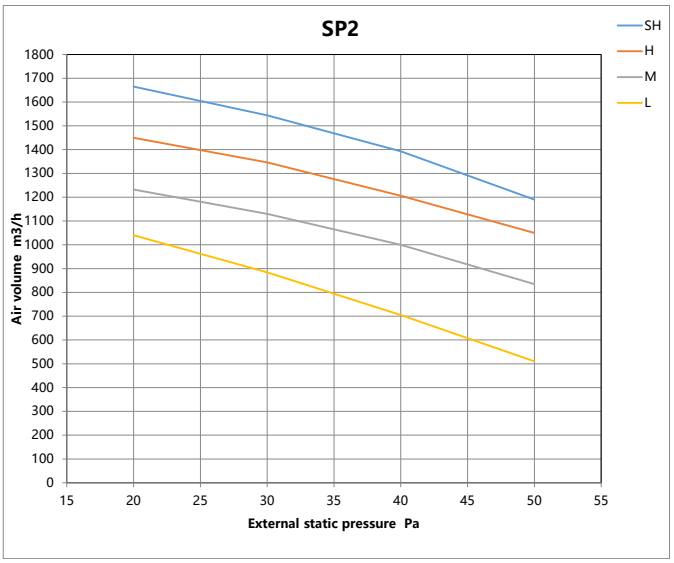



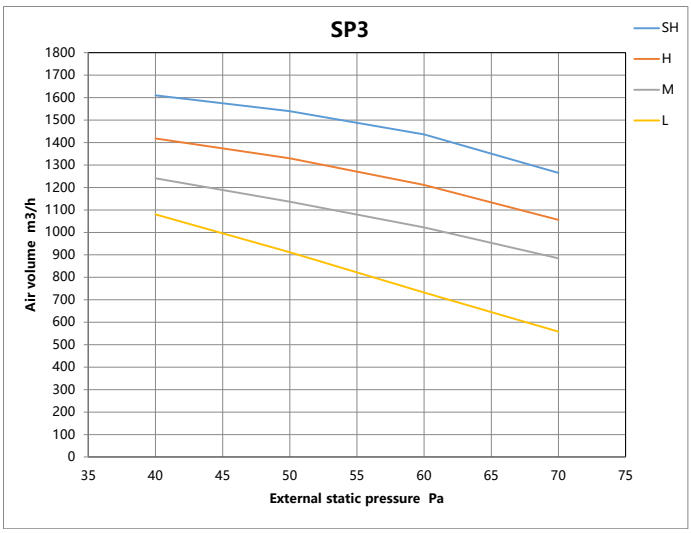

## 18k Constant air volume

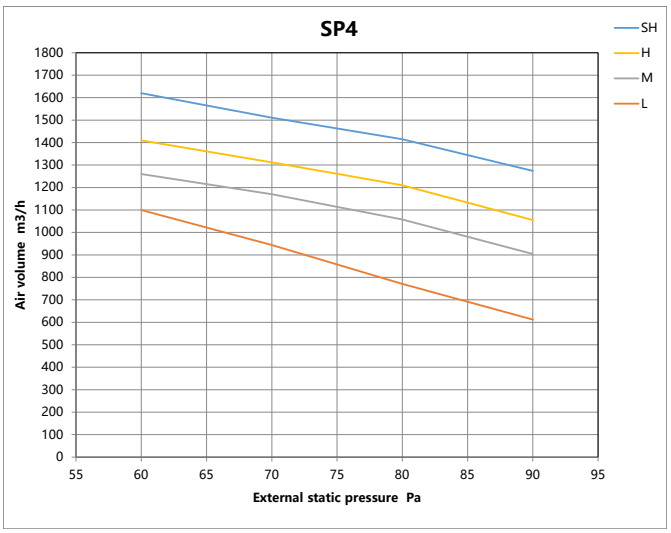


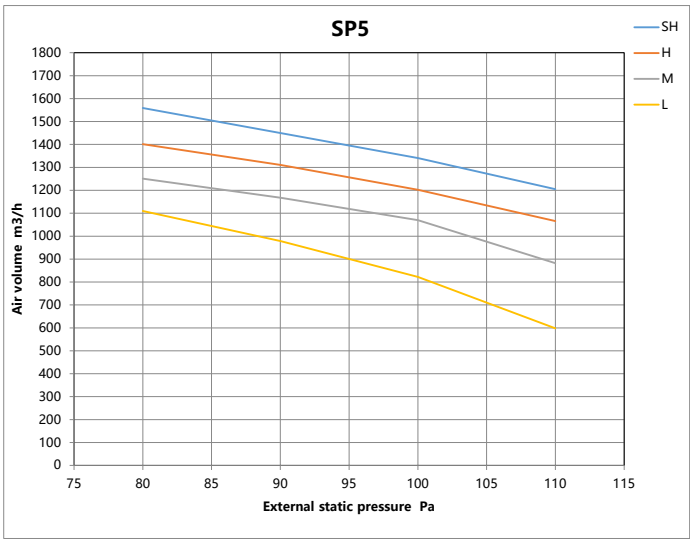
24k

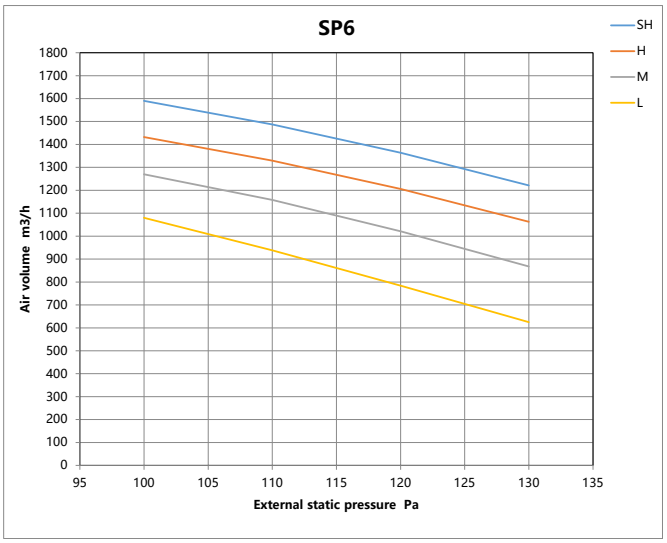

SP1
SH
H
M
L
Air volume m3/h
External static pressure Pa

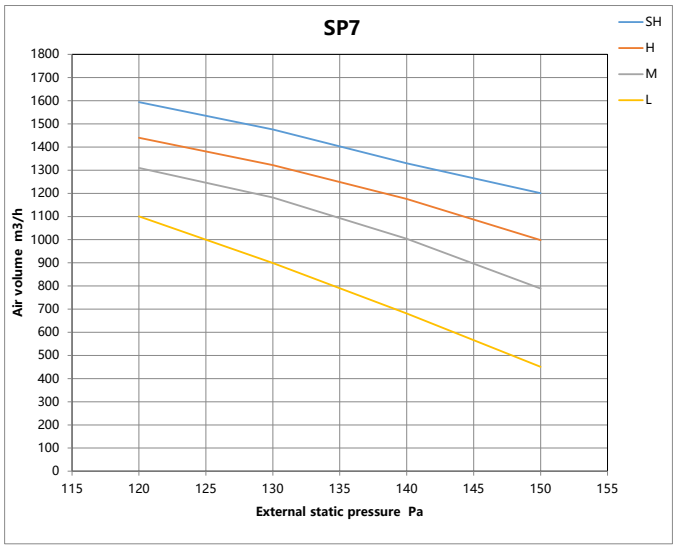

SP2
SH
H
M
L
Air volume m3/h
External static pressure Pa

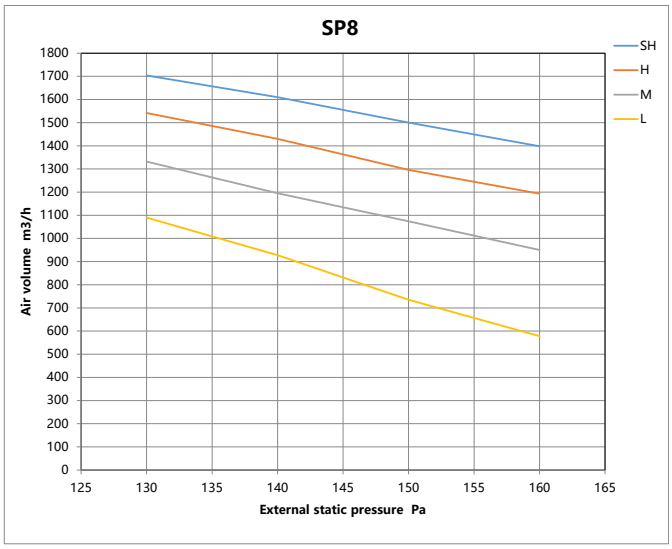

SP3
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP4
SH
H
M
L
Air volume m3/h
External static pressure Pa

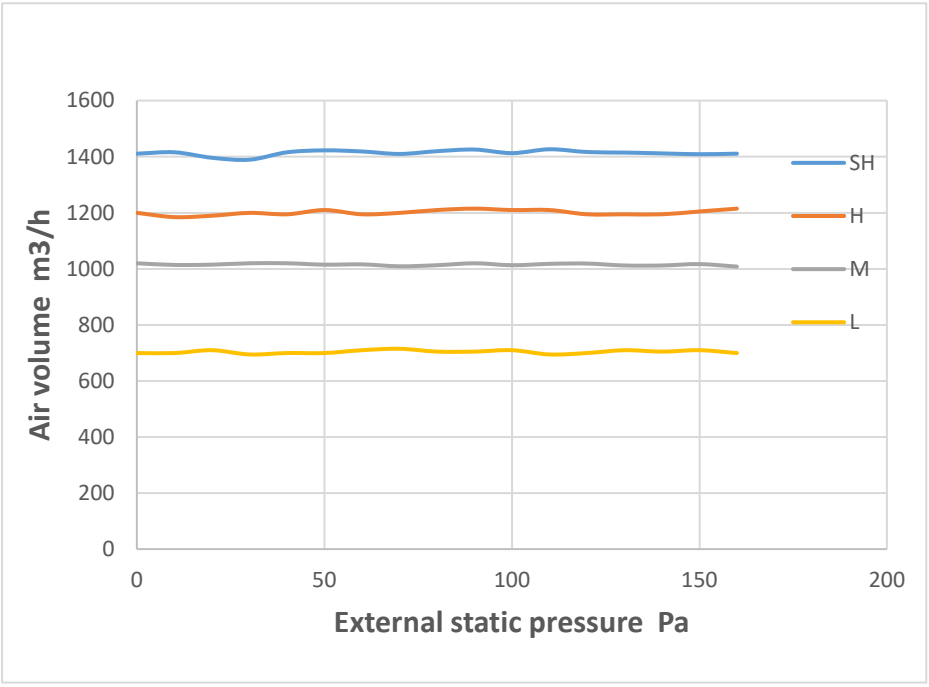

SP5
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP6
SH
H
M
L
Air volume m3/h
External static pressure Pa

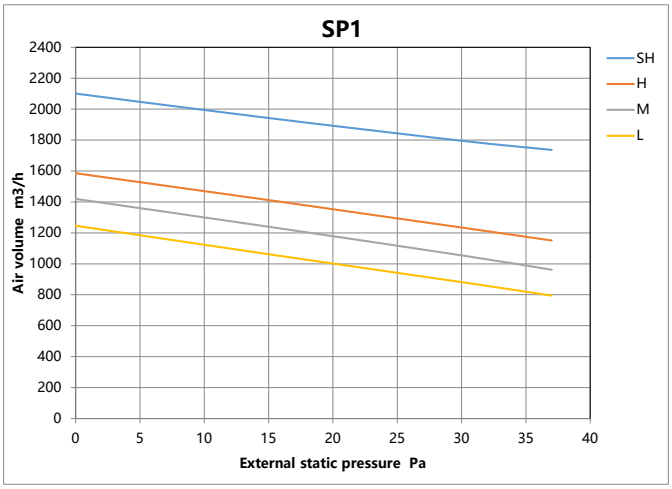


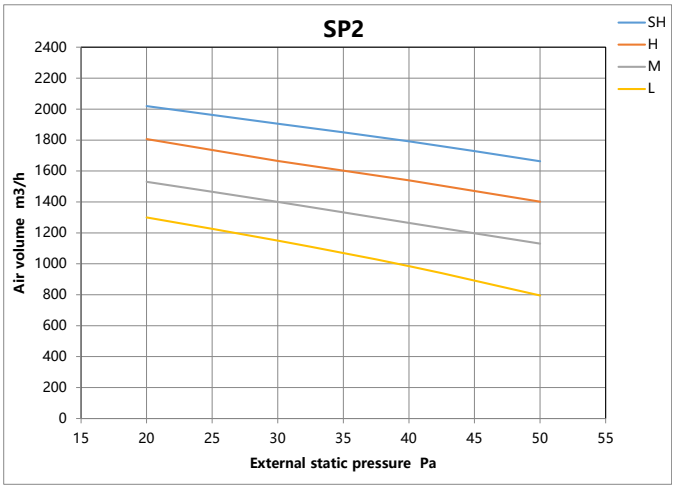



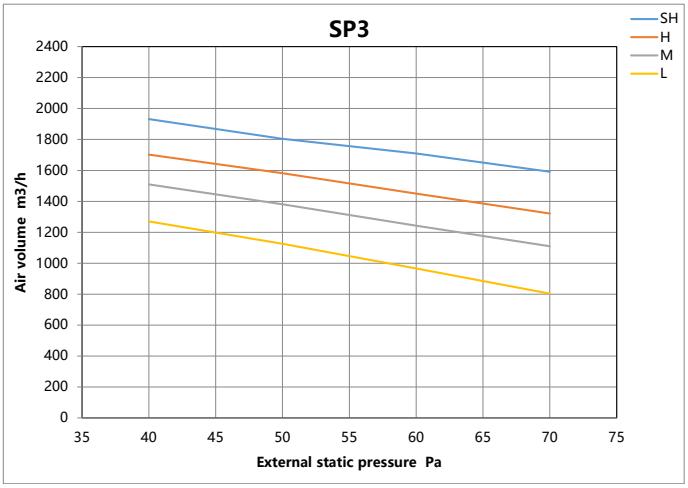

## 24k Constant air volume

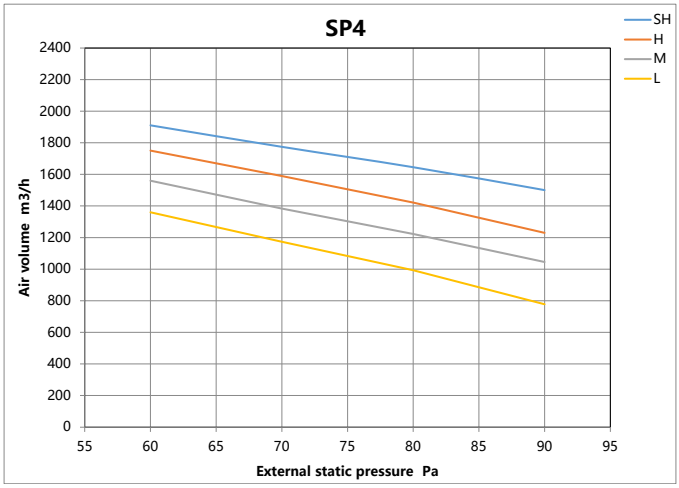


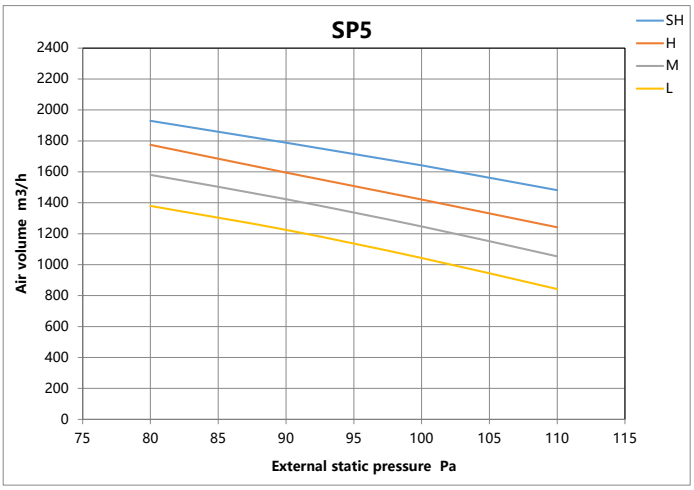
30k

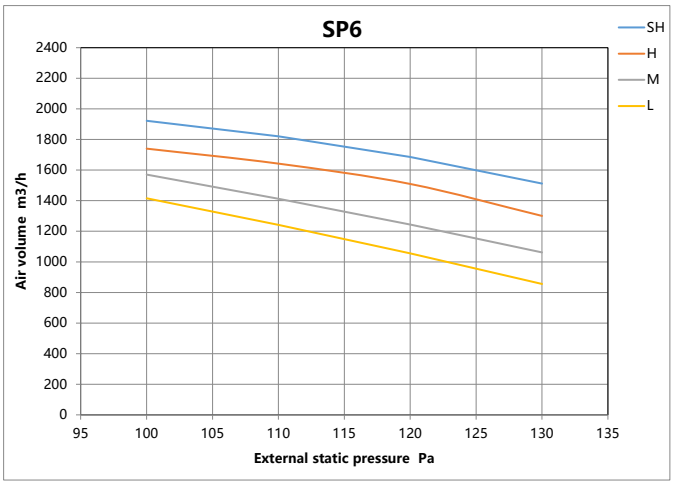

SP1
Air volume m3/h
External static pressure Pa
SH
H
M
L

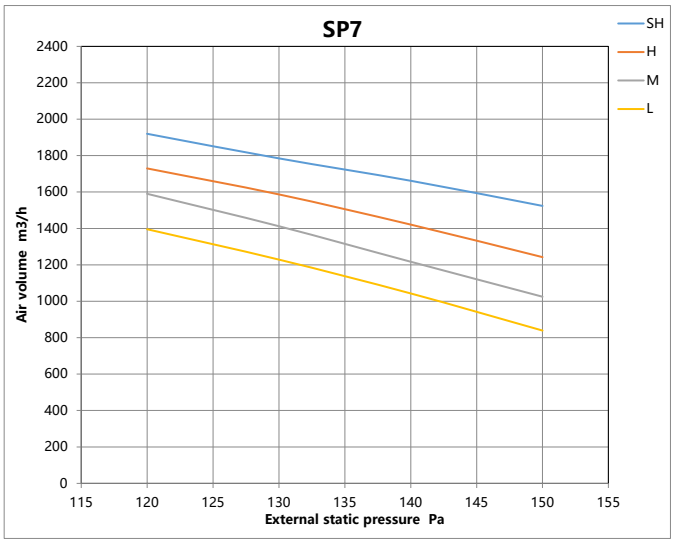

SP2
Air volume m3/h
External static pressure Pa
SH
H
M
L

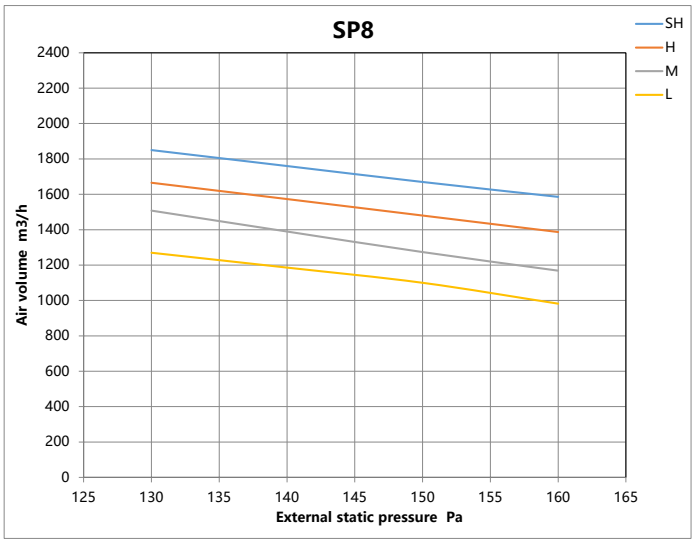

SP3
Air volume m3/h
External static pressure Pa
SH
H
M
L


SP4
Air volume m3/h
External static pressure Pa
SH
H
M
L

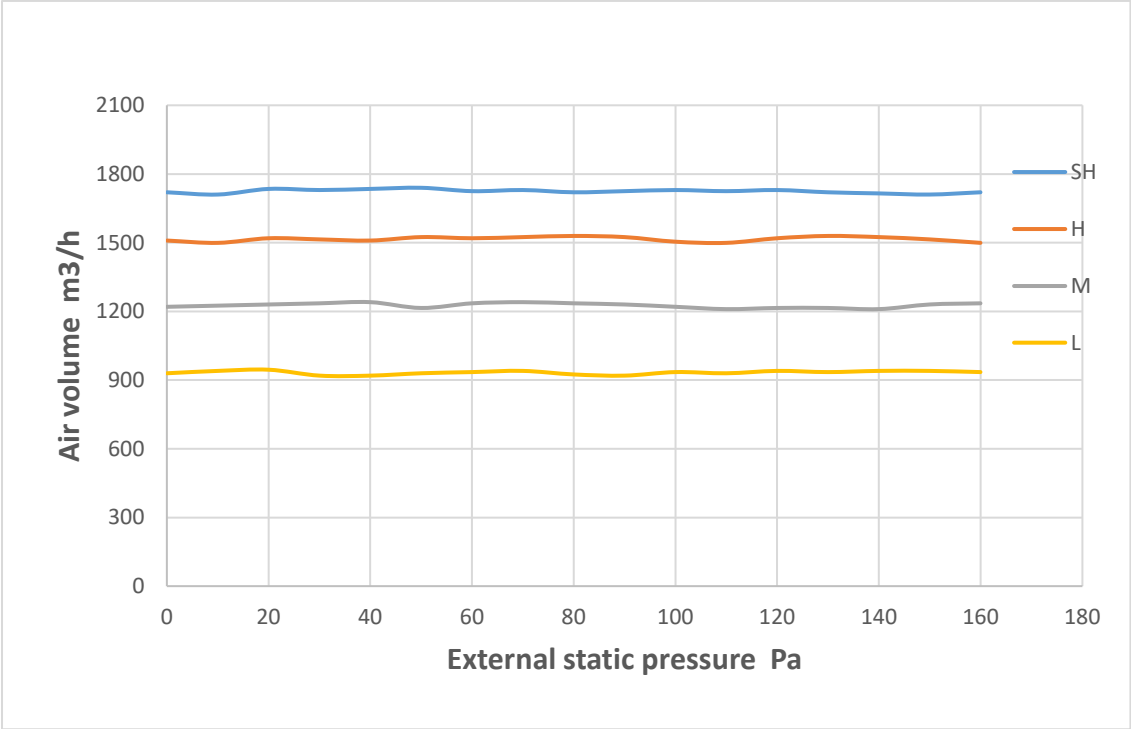

SP5
Air volume m3/h
External static pressure Pa
SH
H
M
L


SP6
Air volume m3/h
External static pressure Pa
SH
H
M
L

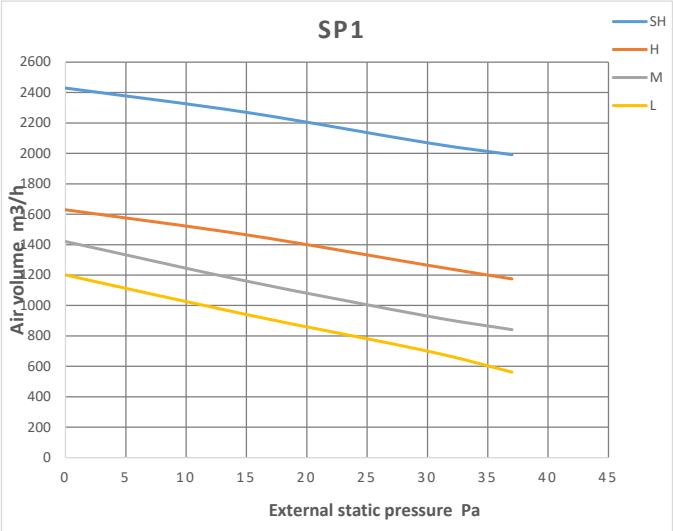


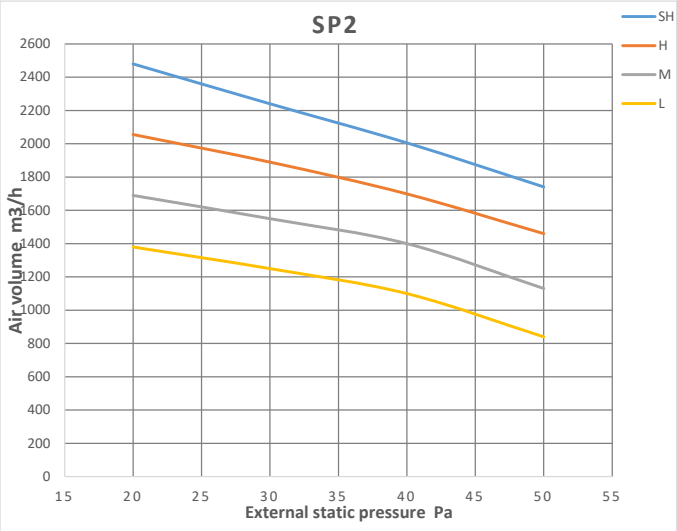



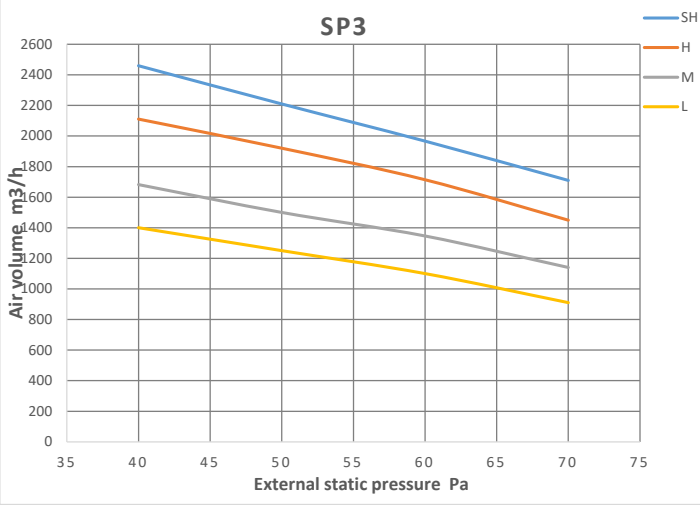

## 30k Constant air volume

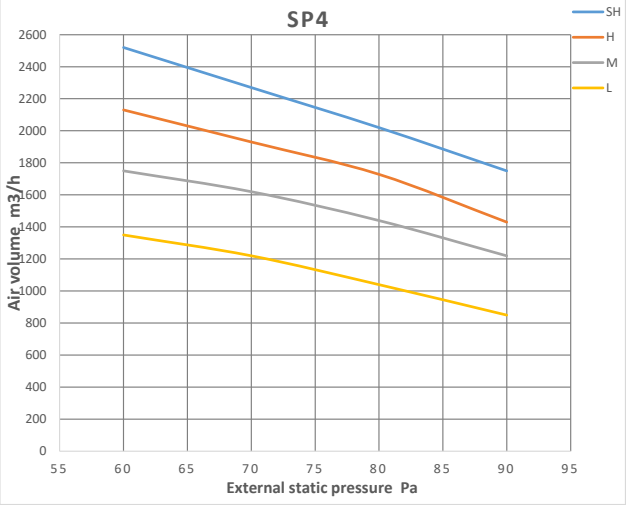


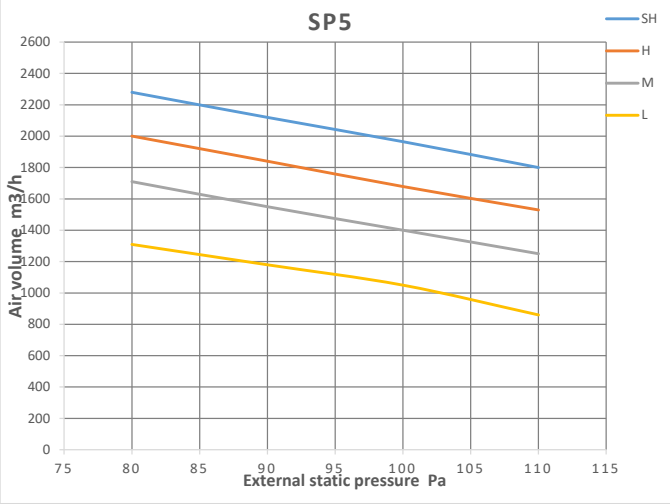
36k

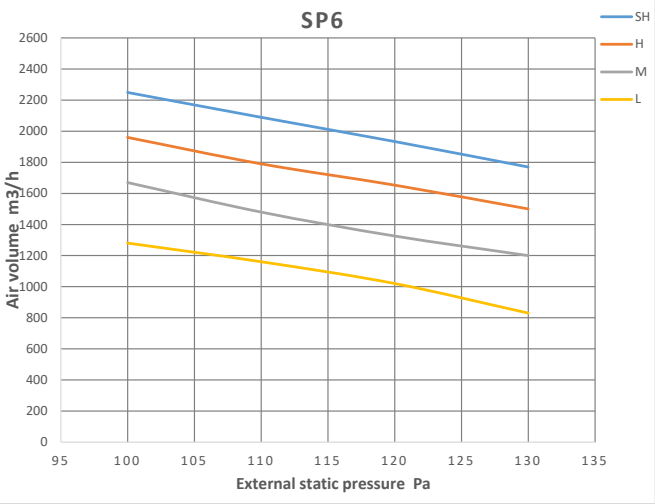

SP1
SH
H
M
L
Air volume m3/h
External static pressure Pa

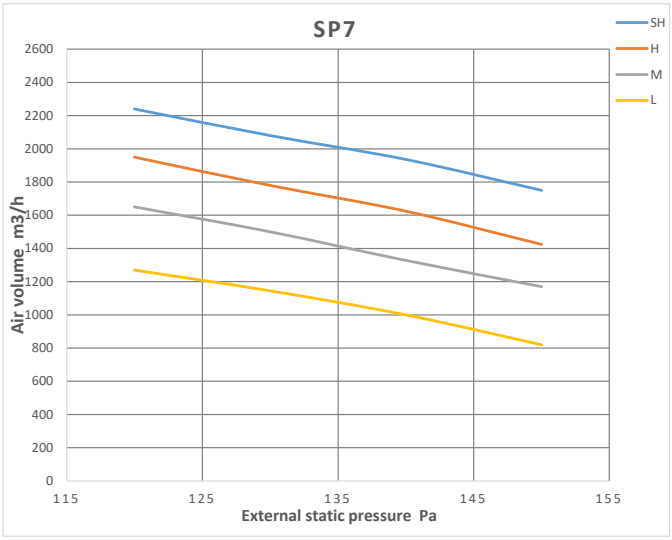

SP2
SH
H
M
L
Air volume m3/h
External static pressure Pa

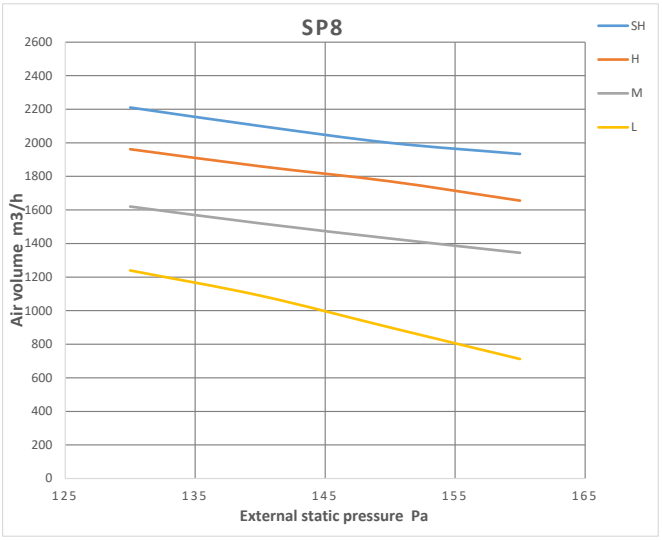

SP3
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP4
SH
H
M
L
Air volume m3/h
External static pressure Pa

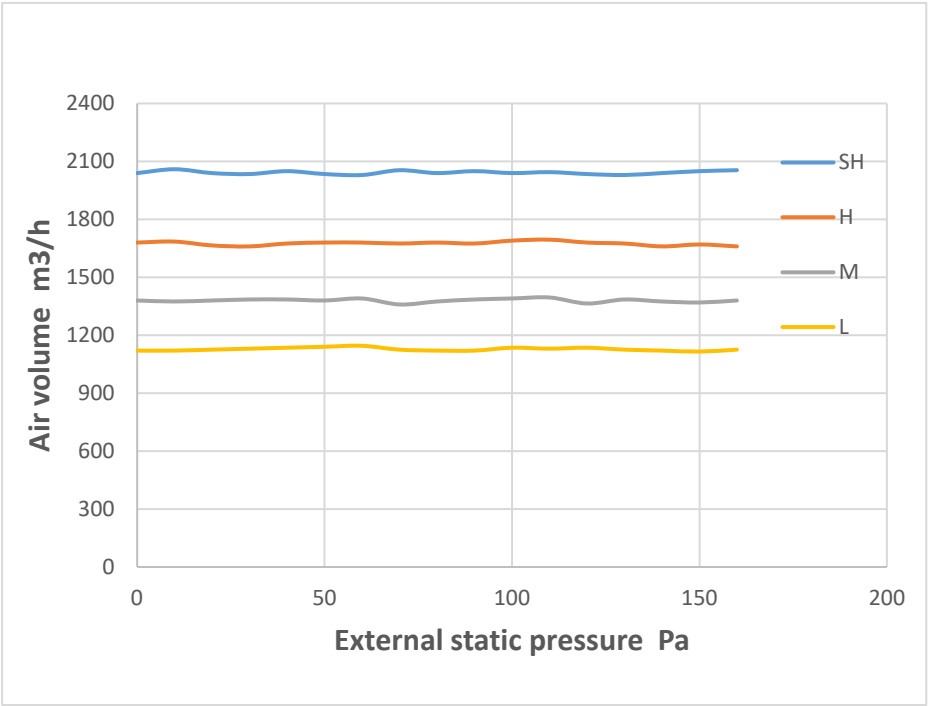

SP5
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP6
SH
H
M
L
Air volume m3/h
External static pressure Pa

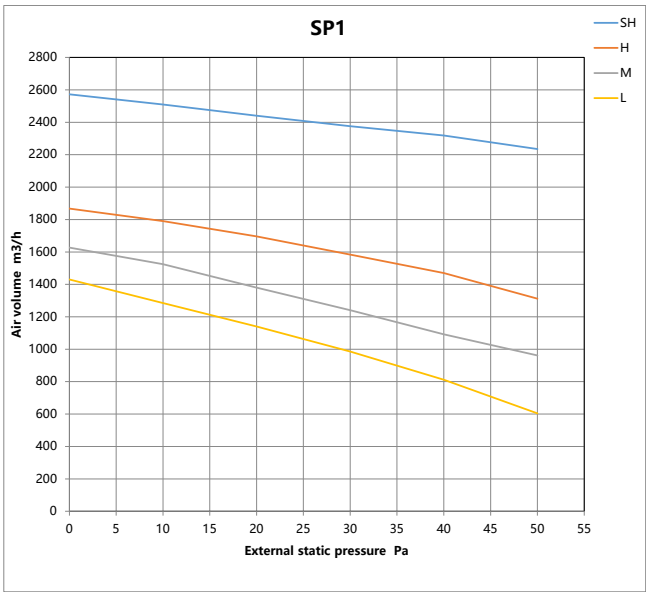


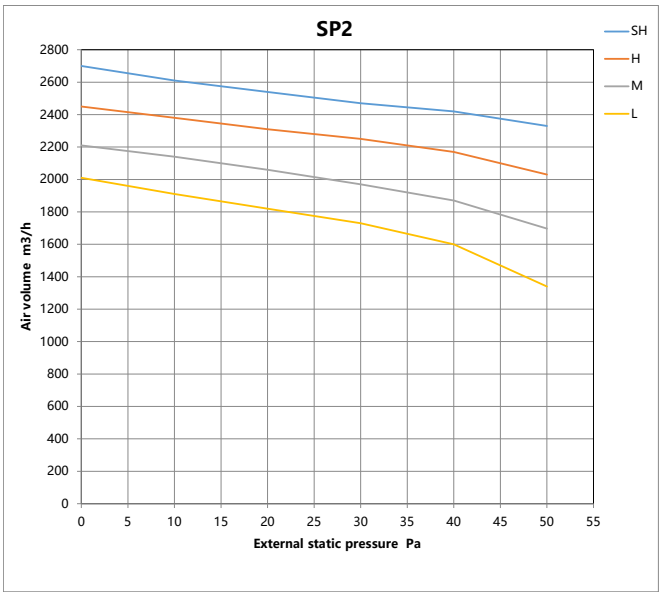



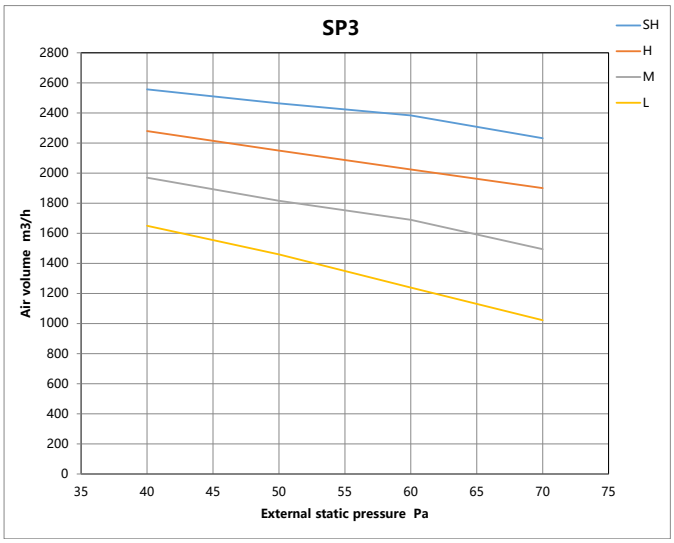

**36k Constant air volume**

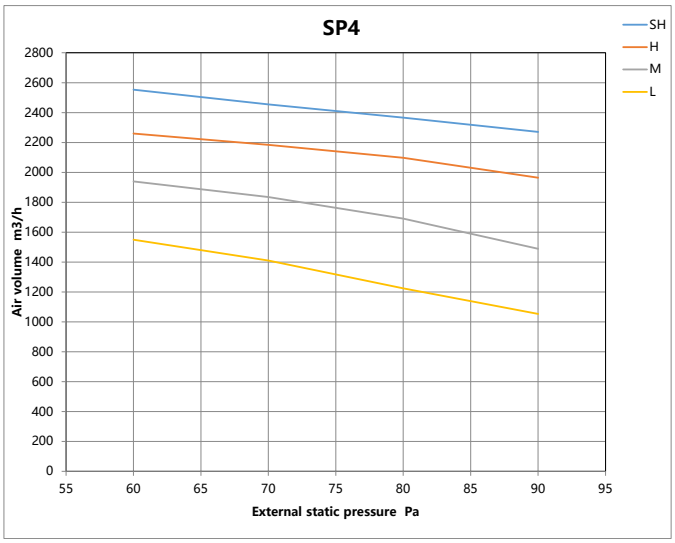


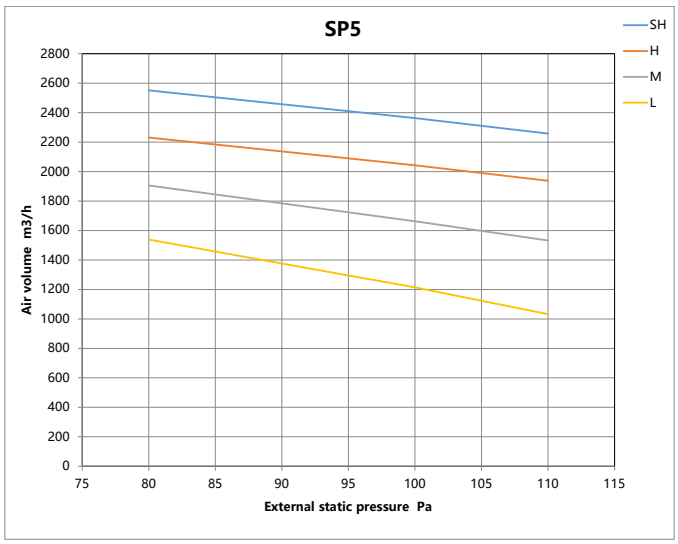
42k

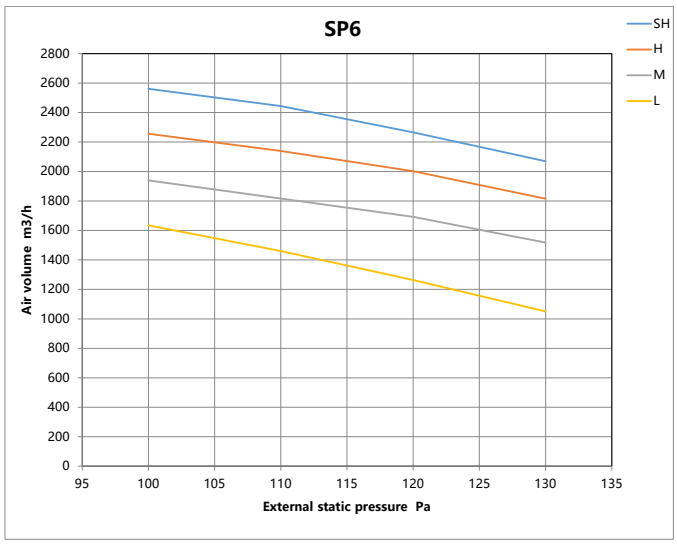

SP1
SH
H
M
L
Air volume m3/h
External static pressure Pa

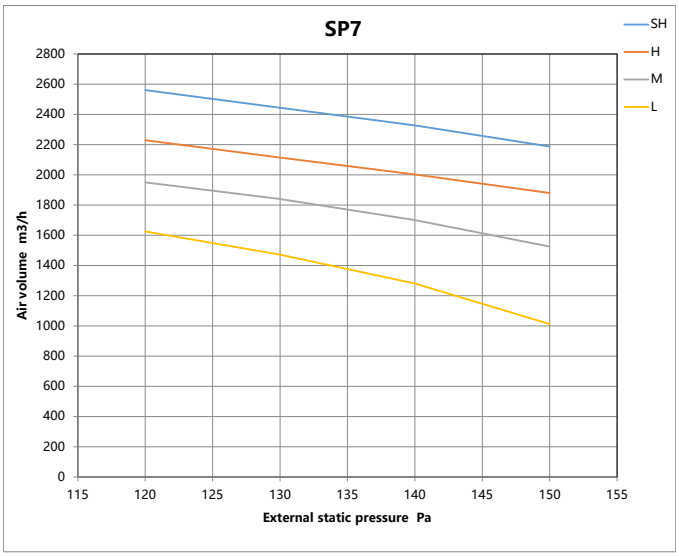

SP2
SH
H
M
L
Air volume m3/h
External static pressure Pa

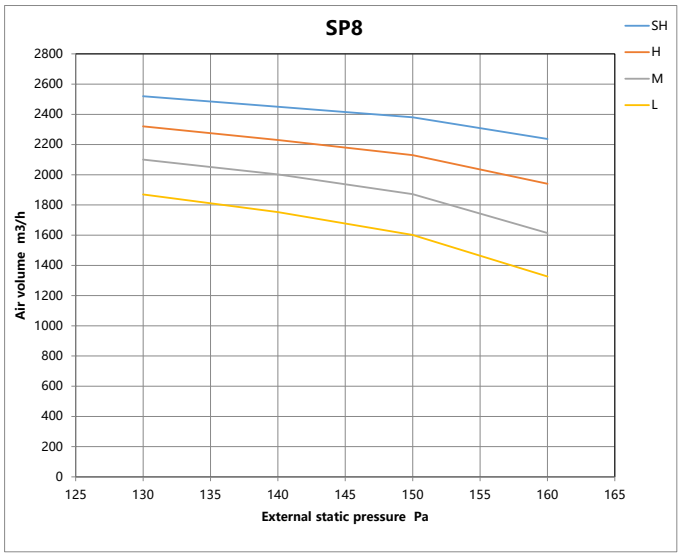

SP3
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP4
SH
H
M
L
Air volume m3/h
External static pressure Pa

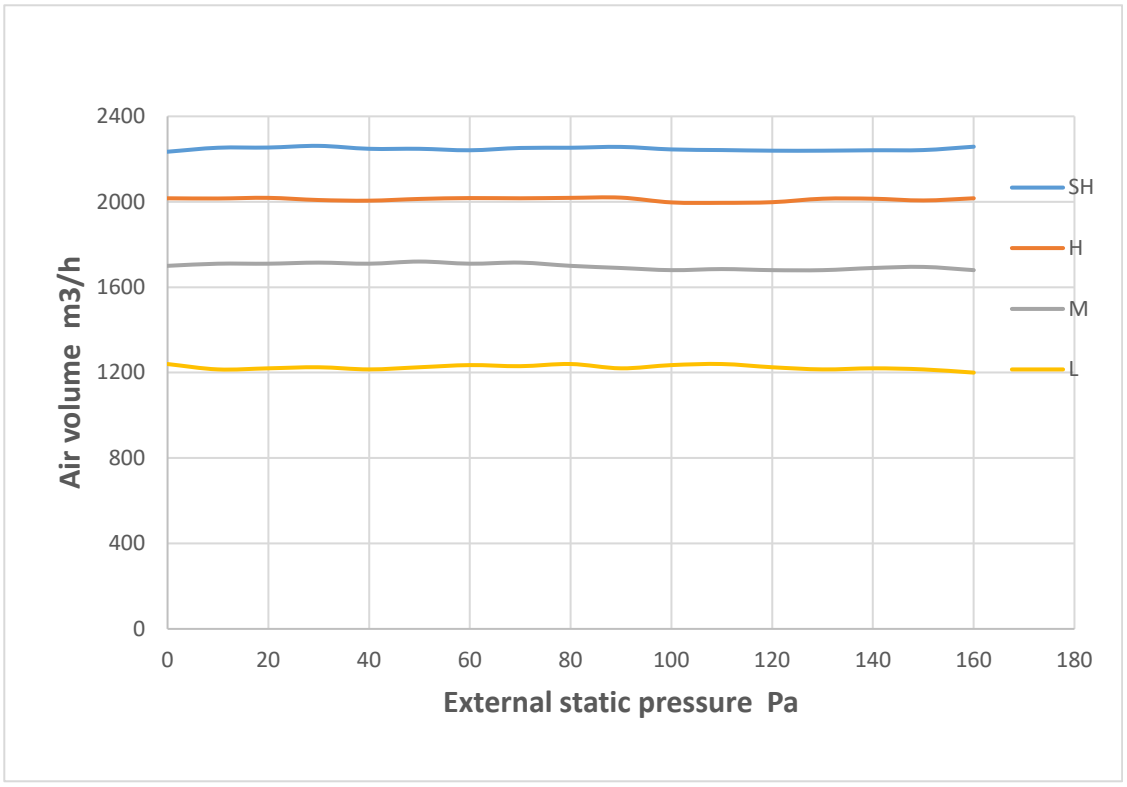

SP5
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP6
SH
H
M
L
Air volume m3/h
External static pressure Pa

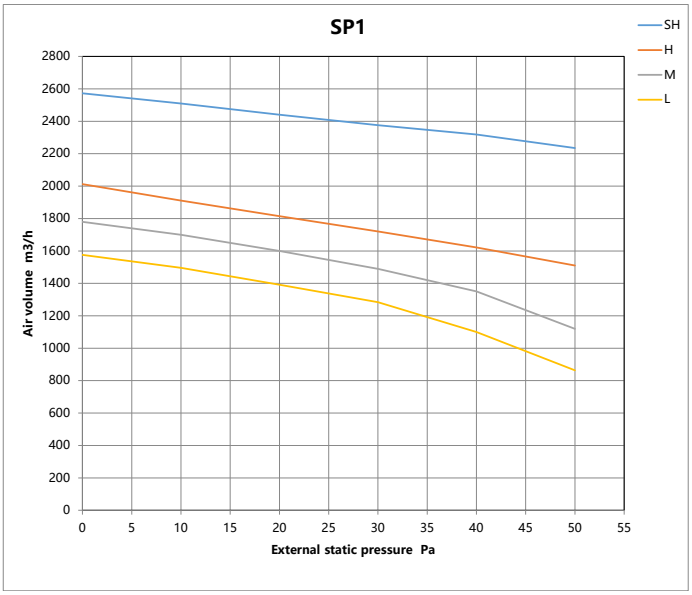


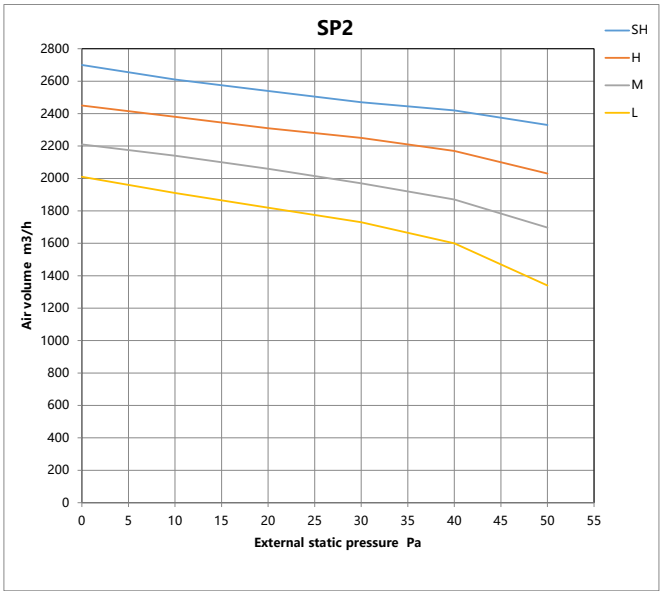



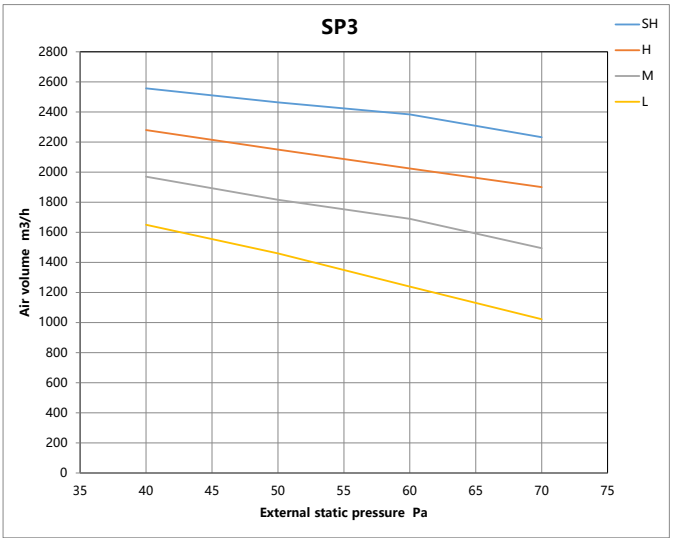

**42k Constant air volume**

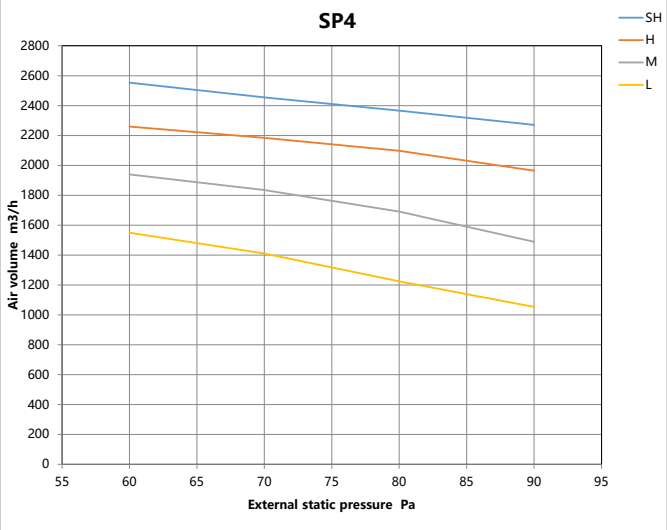


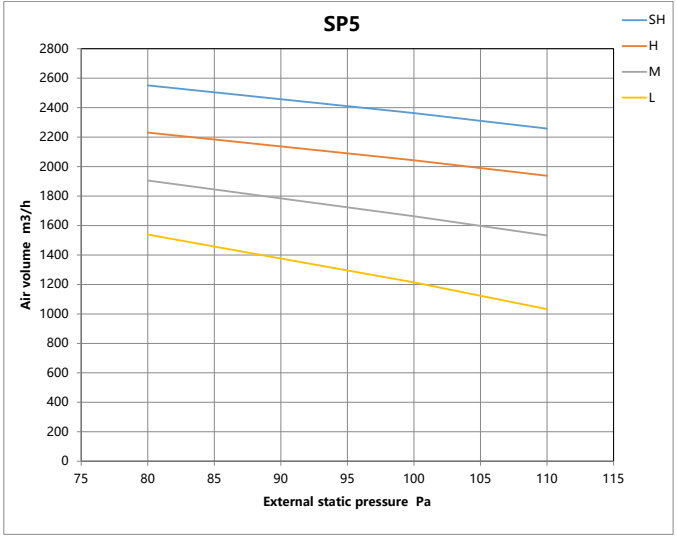
48k

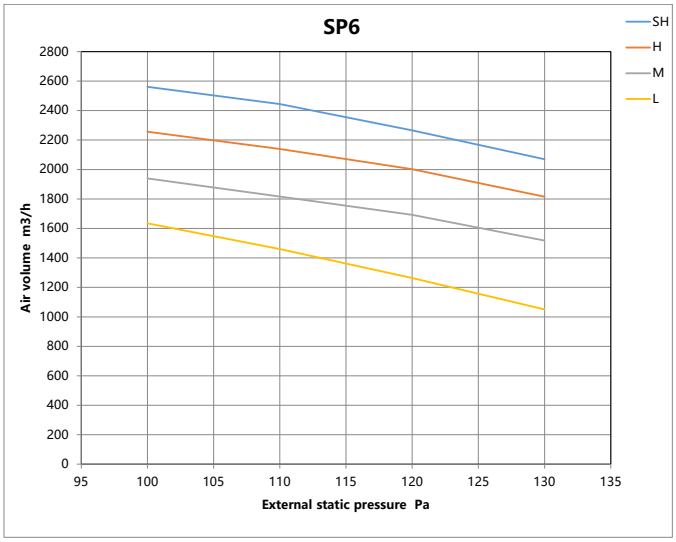

SP1
SH
H
M
L
Air volume m3/h
External static pressure Pa

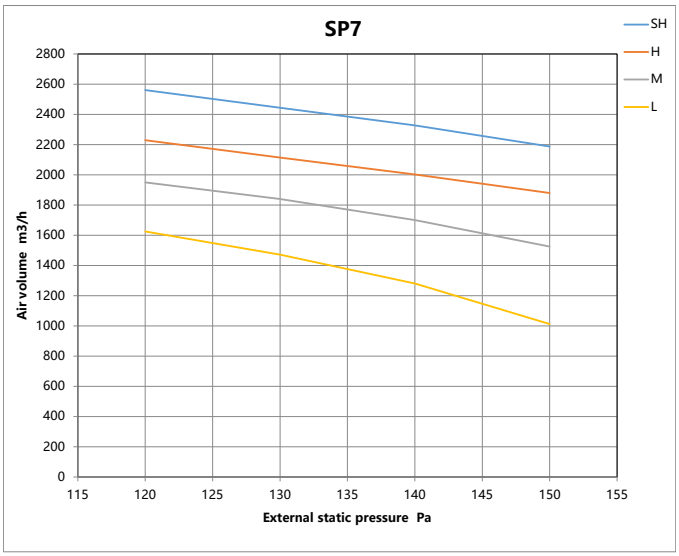

SP2
SH
H
M
L
Air volume m3/h
External static pressure Pa

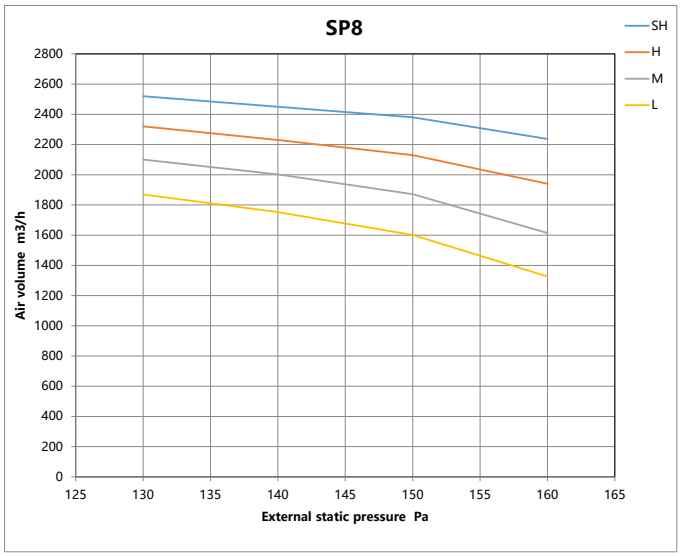

SP3
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP4
SH
H
M
L
Air volume m3/h
External static pressure Pa

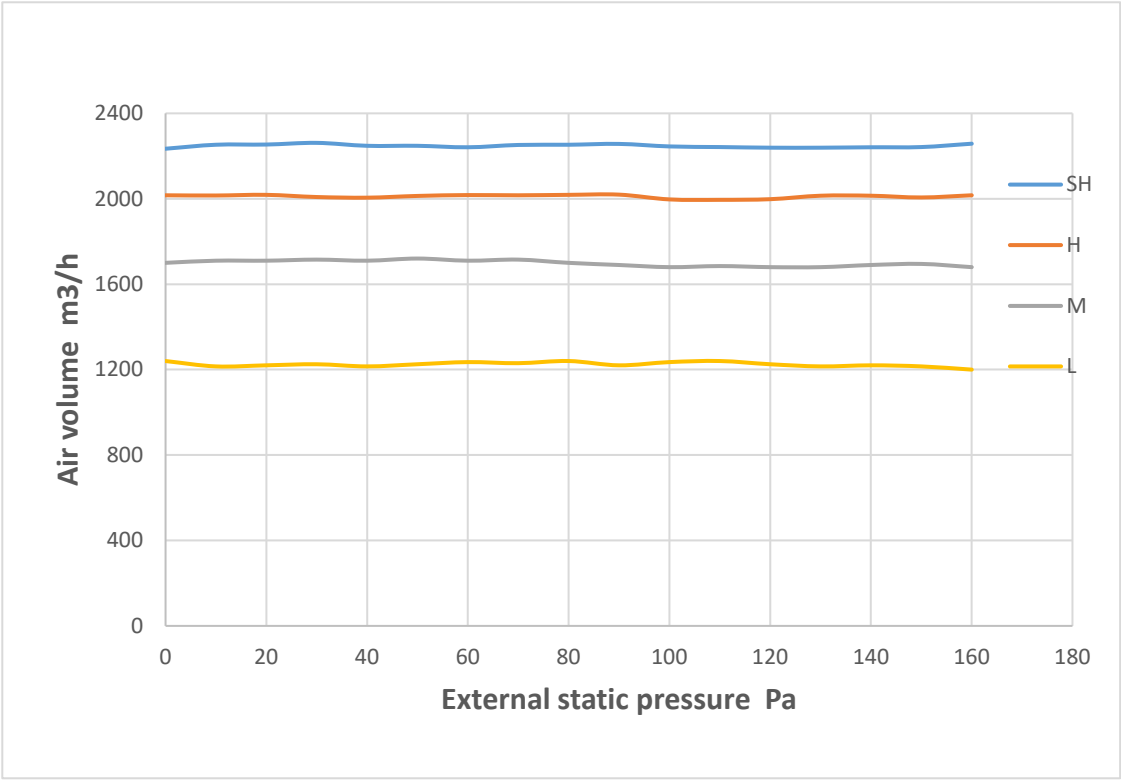

SP5
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP6
SH
H
M
L
Air volume m3/h
External static pressure Pa

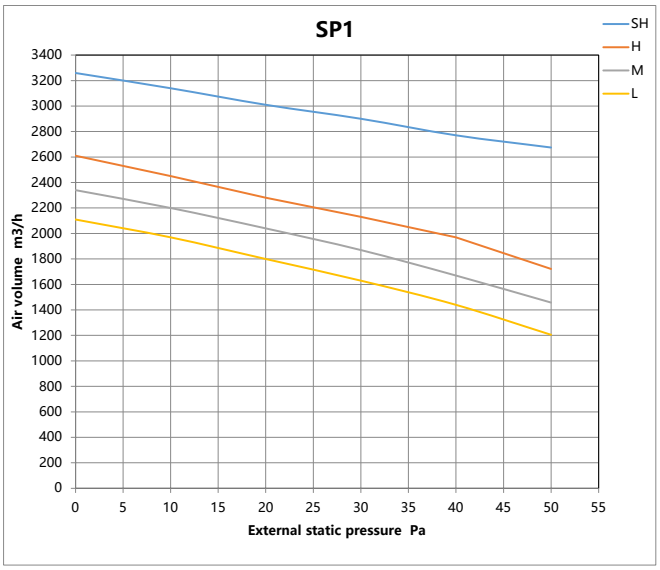


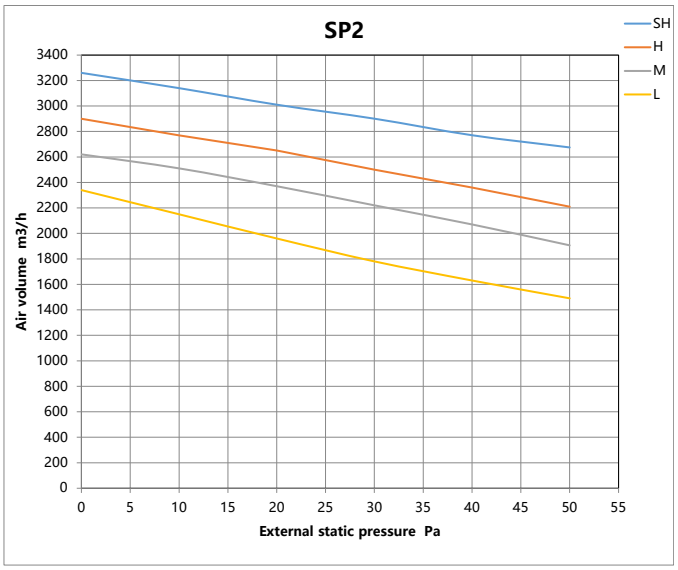



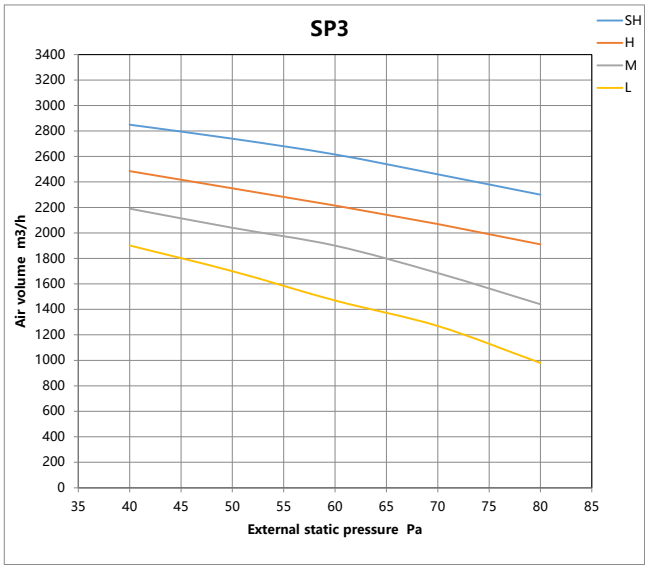

**48k Constant air volume**

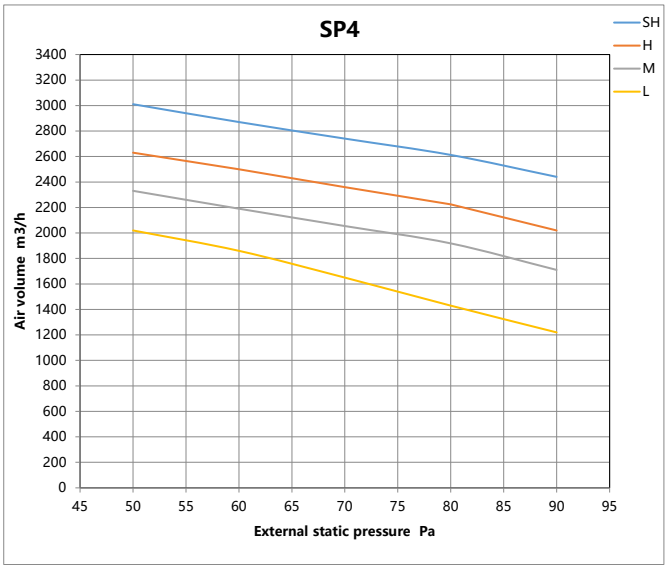


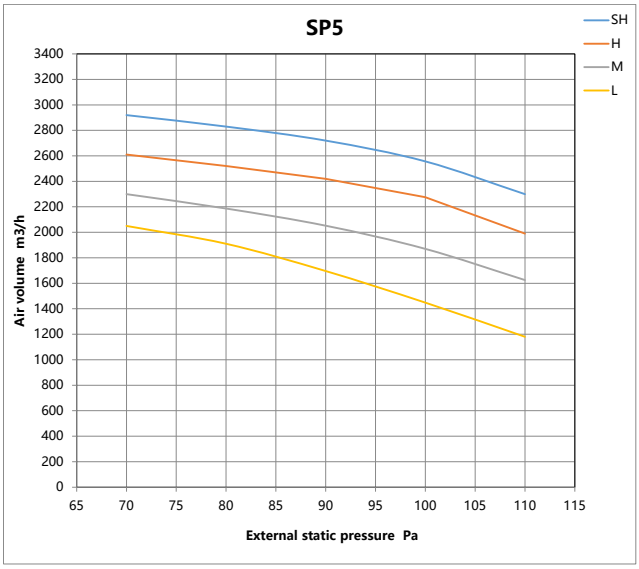
55k

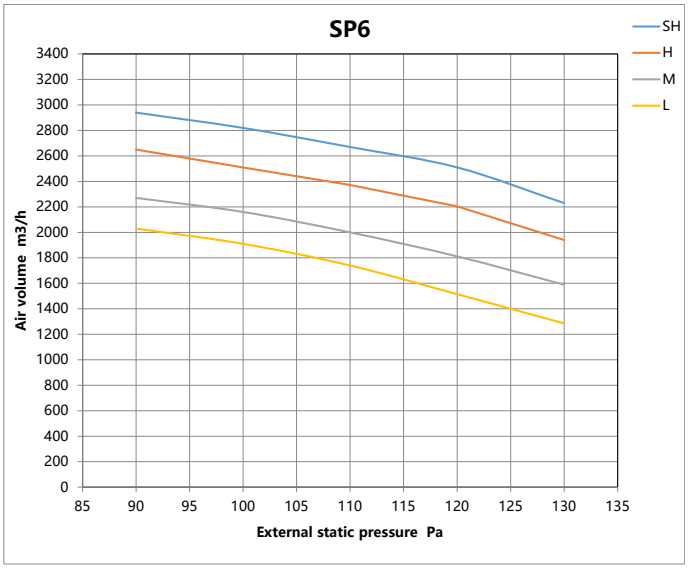

SP1
SH
H
M
L
Air volume m3/h
External static pressure Pa

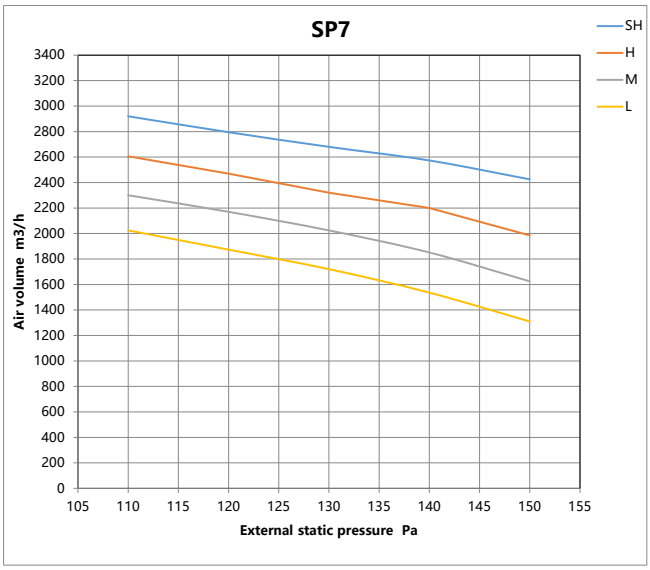

SP2
SH
H
M
L
Air volume m3/h
External static pressure Pa

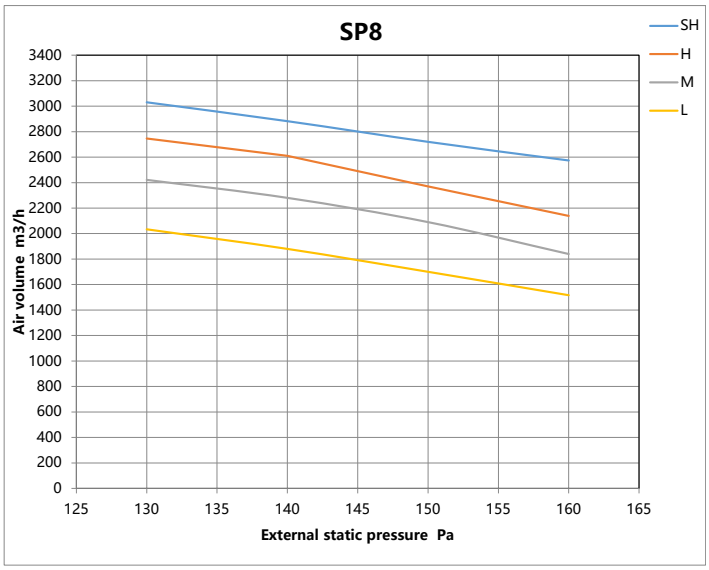

SP3
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP4
SH
H
M
L
Air volume m3/h
External static pressure Pa

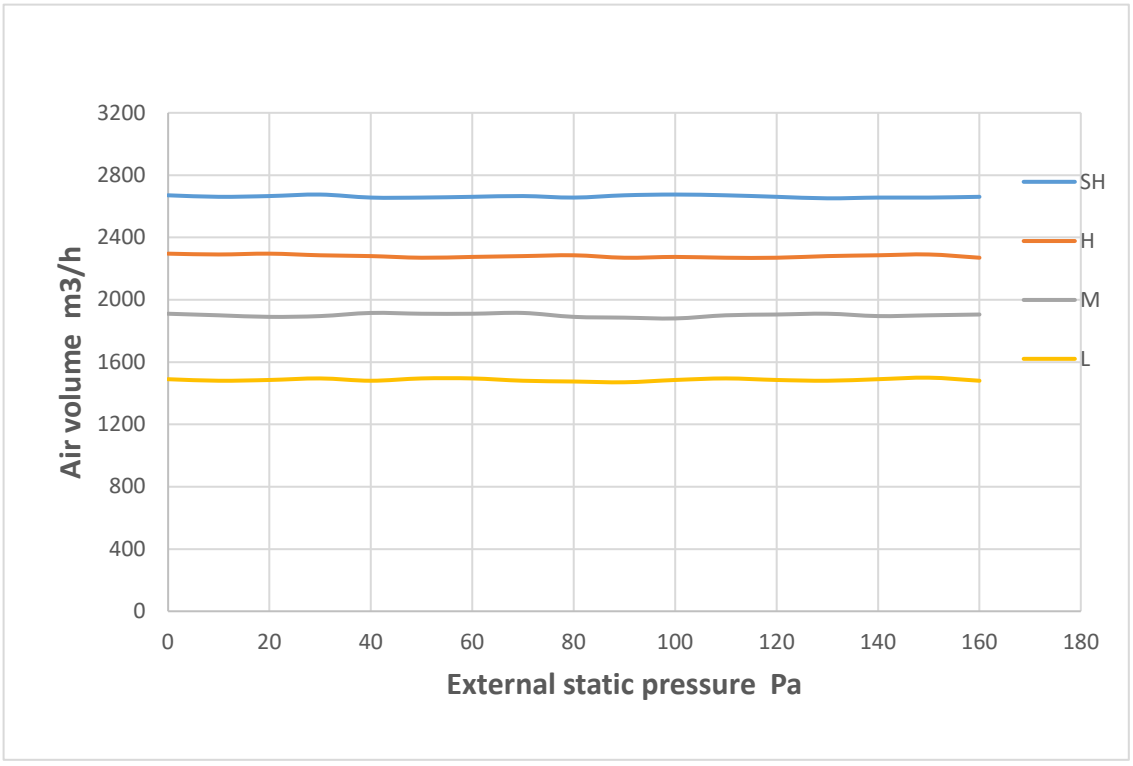

SP5
SH
H
M
L
Air volume m3/h
External static pressure Pa


SP6
SH
H
M
L
Air volume m3/h
External static pressure Pa




## 55k Constant air volume



## 8.2 Using the wired controller to set static pressure airflow

### When using the 120L/120K wired controller

The factory default setting is SP1, The external static pressure can be manually changed to the fan curves 1,2,3,4,5(9k~12k)/1,2,3,4,5,6,7,8(18k~55k).

a. Press and hold ON/OFF and FAN for approximately 7 seconds.

b. Press "∧" or "∨" to scroll through the menu and select "8".

c. Press and hold ON/OFF for approximately 2 seconds , Press "∧" or "∨" to scroll through and select "1~5"(9k~12k)/"1-8"(18k~55k).

d. Press " " or "OK" and the display board displays "CS".

e. Press and hold ON/OFF and FAN for approximately 2 seconds, Then exit engineering mode.

### When using the 120N/120M wired controller

The factory default setting is SP1, The external static pressure can be manually changed to the fan curves 1,2,3,4,5(9k~12k)/1,2,3,4,5,6,7,8(18k~55k).

a. Press and hold Copy for approximately 3 seconds, The lower right corner shows P:00, Press "OK".

b. Press "∧" to scroll through the menu , The lower right corner shows SP, Press "OK".

c. Press "∧" or "∨" to scroll through the menu and select "1~5"(9k~12k)/"1-8"(18k~55k), Press "OK".

d. Press "Back" to exit engineering mode.

### When using the remote control RG10 series

The factory default setting is SP1, The external static pressure can be manually changed to the fan curves 1,2,3,4/1,2,3,4,5,6,7,8.

a. Press and hold ON/OFF and FAN for approximately 7 seconds.

b. Press "∧" or "∨" to scroll through the menu and select "8".

c. Press and hold ON/OFF for approximately 2

seconds , Press "∧" or "∨" to scroll through and select "1~4"(9k~12k)/"1-8"(18k~55k).

d. Press "OK" and the display board displays "CS".

e. Press and hold ON/OFF and FAN for approximately 2 seconds Or let it sit for 60 seconds ,then exit engineering mode.

## 8.3 Using the wired controller to set real-tim airflow

### When using the 120L/120K wired controller

Use the Automatic Airflow "AF" Adjustment function to realize Real-time constant airflows.

a. Press and hold ON/OFF and FAN for approximately 7 seconds.

b. Press "∧" or "∨" to scroll through the menu and select " 8 ".

c. Press and hold ON/OFF for approximately 2 seconds , Press "∧" or "∨" to scroll through and select "AF".

d. Press " " or "OK" and the display board displays " CS ".

e. Press and hold ON/OFF and FAN for approximately 2 seconds, Then exit engineering mode.

### When using the 120N/120M wired controller

Use the Automatic Airflow "AF" Adjustment function to realize Real-time constant airflows.

a. Press and hold Copy for approximately 3 seconds , The lower right corner shows P:00, Press "OK".

b. Press "∧" to scroll through the menu , The lower right corner shows AF, Press "OK".

c. Press "Back" to exit engineering mode.

### When using the remote control RG10 series

a. Press the combination keys to enter engineering mode.

b. Use "∧" or "∨" to adjust to 8.

c. Long press the power button for 2 seconds to enter the next level.

d. Use "∧" or "∨" to select "AF".

e. Press the "OK" button, and the display shows "CS".

f. Long press the power button and fan button for about 2 seconds, then exit engineering mode.

NOTE: T1, T2, T2b, T3, T4 are sub-menus for thermistors. DO NOT select to set the external static pressure.

NOTE : Before commissioning, check the power connection of the machine, turn on the power, and keep the machine not working.

NOTE : If there is no change after airflow adjustment, perform the setting again.

NOTE : Setting Static Pressure or Automatic Airflow need to use the Wired Remote Controller.