



Product Catalogue



High Efficiency 8 i WYX Inverter

R410a
T3
50/60Hz

Sept 2022

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Model Reference

1. Model Reference

Refer to the following table to determine the specific indoor and outdoor unit model number of your purchased equipment.

Note: Check you are using the right power supply for your model. Power Supply Intake :
Outdoor Units

| Indoor Unit Model | Outdoor Unit Model | Capacity (Btu/h) | Power Supply |
|--------------------|--------------------|------------------|------------------------------|
| 4MXDÜA18TB000ACÁ | 4TXKÜC8TB000DCÁ | 18kÁ | Á Ph, 20000 VA 50/60HzÁ |
| 4MXÖÜAG TB000ACÁ | 4TXKÜC24TB000DCÁ | 24kÁ | |
| 4MXDÜAHETB000ACÁ | 4TXÜCA36TB000DCÁ | 36kÁ | |
| 4MXÖÜAHÍ TB000ACÁ | 4TXÜCA36TB000DCÁ | 36kÁ | |
| 4MXDÜAI GTB000ACÁ | 4TXKÜC48TÖ000DCÁ | 48kÁ | H Ph, H 10000 VA 50/60HzÁ |
| 4MXÖÜAI Ì TB000ACÁ | 4TXKÜC48TÖ000DCÁ | 48kÁ | |
| 4MXDÜAÎ ETB000ACÁ | 4TXKÜA60TÖ000DCÁ | 60kÁ | |

External Appearance


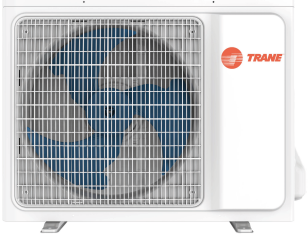
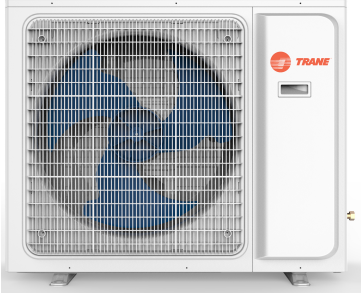


2. External Appearance

2.1 Indoor Unit

| PICTURE | Capacity | Model |
|---|----------|-----------------|
|  | 18k/Btu | 4MXDRA18TB000AA |
| | 24k/Btu | 4MXDRA24TB000AA |
| | 30k/Btu | 4MXDRA30TB000AA |
|  | 36K/ Btu | 4MXDRA36TB000AA |
| | 42k/Btu | 4MXDRA42TB000AA |
| | 48k/Btu | 4MXDRA48TB000AA |
| | 60k/Btu | 4MXDRA60TB000AA |

External Appearance

2.2 Outdoor Unit

| Capacity (BTU) | Picture | Capacity (BTU) | Picture |
|----------------|--|----------------|---|
| 18K 24K |  | 30K |  |
| 36K |  | 42K 48K |  |
| 60K |  | | |

Nomenclature

Indoor Unit

$\frac{4}{1}$ $\frac{M}{2}$ $\frac{X}{3}$ $\frac{D}{4}$ $\frac{R}{5}$ $\frac{A}{6}$ $\frac{1}{7}$ $\frac{8}{8}$ $\frac{T}{9}$ $\frac{B}{10}$ $\frac{0}{11}$ $\frac{0}{12}$ $\frac{0}{13}$ $\frac{A}{14}$ $\frac{A}{15}$

Digit #1 = Refrigerant

4 = R410A

Digit #2 = Brand

M = Trane Indoor unit

Digit #3 = Function Type

C = Cooling Only Fixed Speed, Single

W = Heat Pump Fixed Speed, Single

X = Heat Pump DC Inverter, Single

Digit #4 = Indoor Unit type

D = Concealed Duct Type

W = High wall unit

C = Cassette Type

Digit #5, 6 = Product famil

RA = RA Series

Digit #7, 8 = Nominal Capacity (BTU/h x 1,000)

12 = 12,000 BTU/h

18 = 18,000 BTU/h

24 = 24,000 BTU/h

36 = 36,000 BTU/h

42 = 42,000 BTU/h

48 = 48,000 BTU/h

60 = 60,000 BTU/h

Digit #9 = Ambient Temperature /

T = Tropical High Ambient, High efficiency and side discharge outdoor T3

S = Standard Ambient

Digit #10 = Electric Power Supply Characteristics

S = 220-240/1/50 (V/Ph/Hz)

D = 380-415/1/50 (V/Ph/Hz)

Digit #11 = Factory Supplied

0 = Standard efficiency

S = Special

Digit #12 = Controls

0 = Default (Wireless Control for high wall & Wired Control for ducted)

Digit #13 = Reserved for Future Use

Digit #14 = Service Digit / Reserved for Future Use

A = First Sequence

A = Not currently used

Digit #15 = Minor Design Sequence

A = First Design Sequence

B = Second Design Sequence

C = Third Design Sequence

Nomenclature

Outdoor Unit

$\frac{4}{1}$ $\frac{T}{2}$ $\frac{X}{3}$ $\frac{K}{4}$ $\frac{R}{5}$ $\frac{A}{6}$ $\frac{1}{7}$ $\frac{8}{8}$ $\frac{T}{9}$ $\frac{B}{10}$ $\frac{0}{11}$ $\frac{0}{12}$ $\frac{0}{13}$ $\frac{D}{14}$ $\frac{A}{15}$

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Features

1. OUTDOOR UNITS

1.1 High Efficiency

Equipped with high efficiency DC Inverter compressor, adjustable fan motor and advanced 180° sine wave vector driver, the system can be higher than 6.1 in SEER and 4.0 in SCOP so as to meet the European and Australian new energy efficiency standards.

1.2 Wide operation and voltage range

The unit could operate perfectly between 55°C in hot summer and -5°C in cold winter, making a comfortable environment.

1.3 Reliability

Stable cooling under -15°C and heating under -15°C outdoor environment temperature.

1.4 180° Sine Wave Control

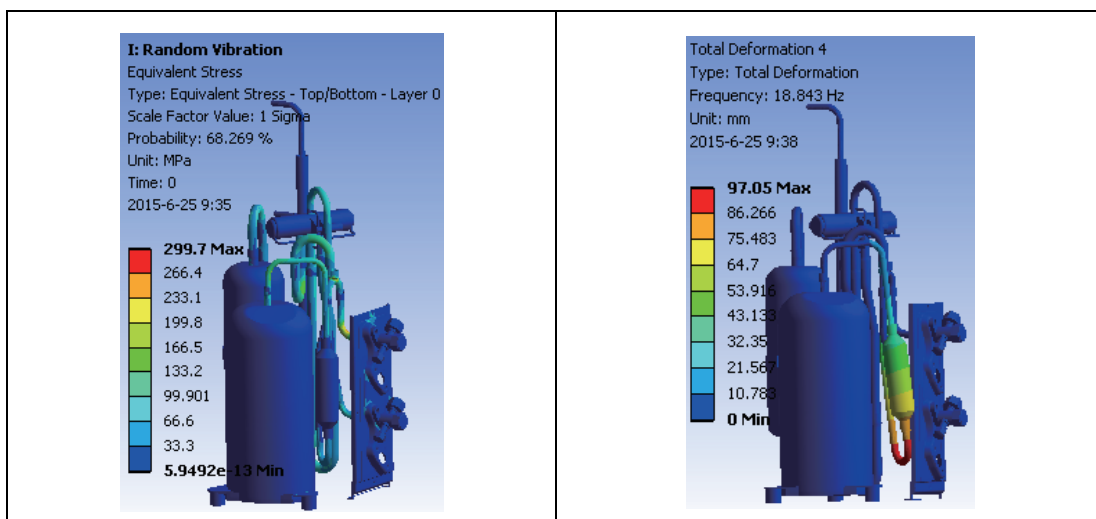
DC inverter compressor uses 180° sine wave vector control technique, make compressor motor operate smoothly and efficiency increases significantly.

1.5 Optimized Pipeline Design

The design ensures the sub-cooling and enhances the cooling capacity by separating the refrigerant inlet and outlet.

1.6 Simulation Technology

Via analysing piping stress distribution, piping amplitude and displacement in transportation and operation, the reliability has been improved greatly.

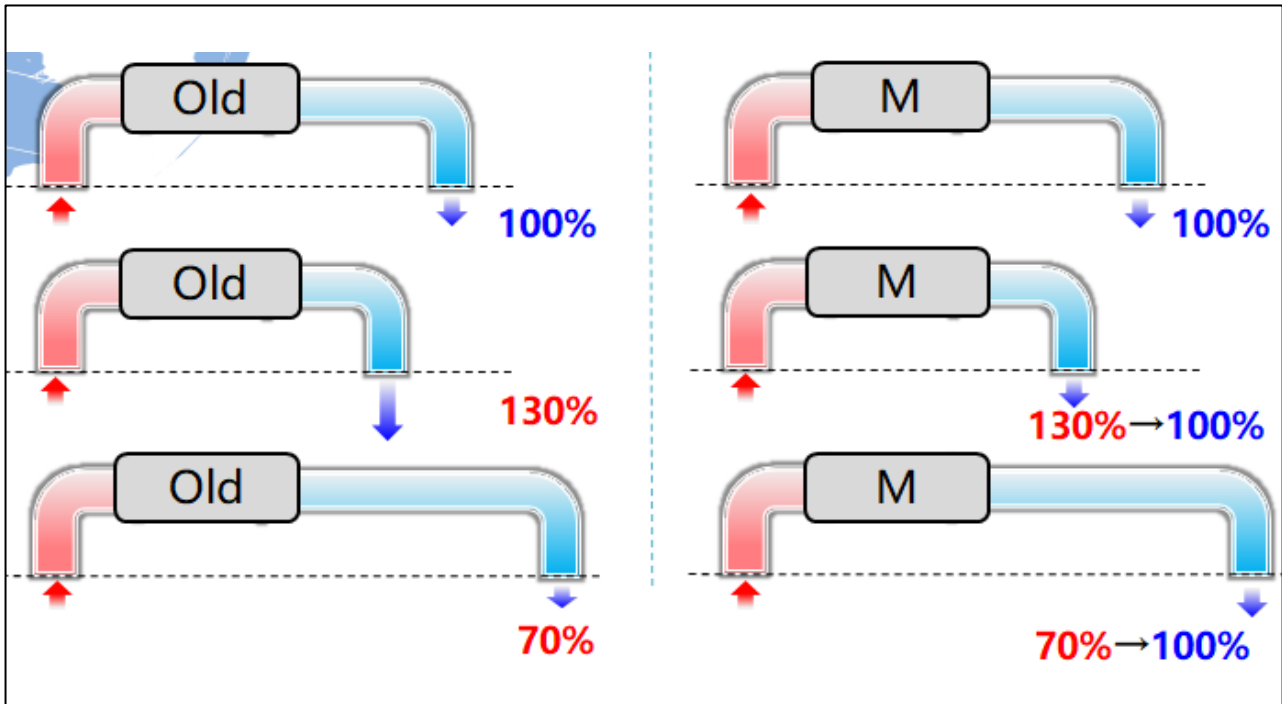


Features

2. CONSTANT DUCT

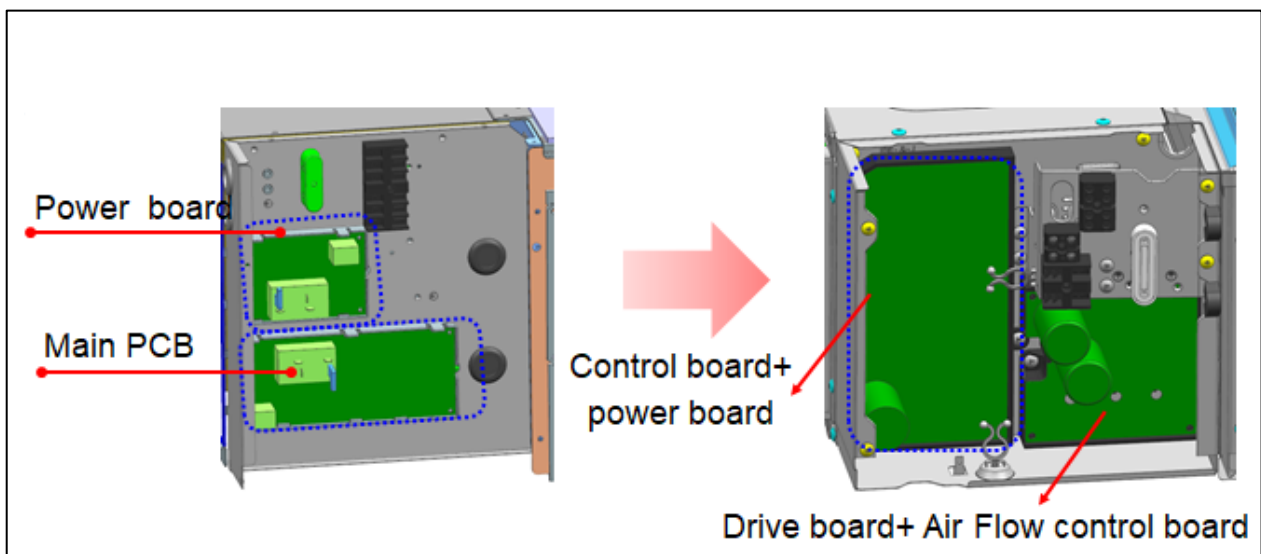
2.1 Constant Air Flow Volume

Under different ESP, the product supply Constant air flow volume for comfort.



2.2 Integrate the control board and power board

High reliability

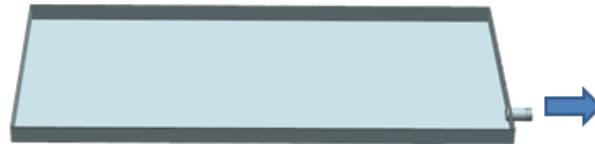


Features

2.3 Two-way drain pan

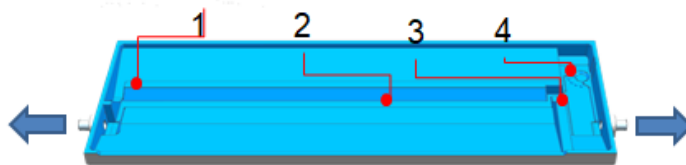
Old product Drain Pan

printed steel, 1 way



New Drain Pan

plastic suction, 2 way,
Convenient for installation

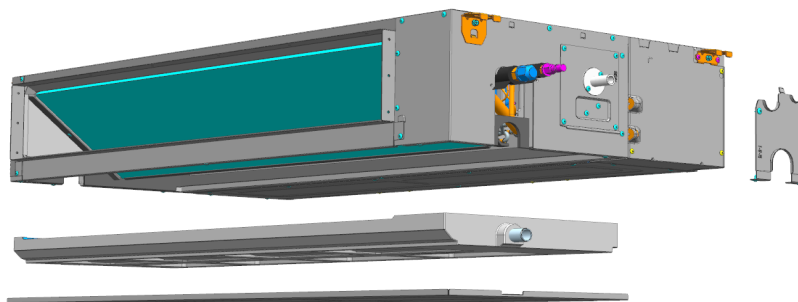


4-step Drain Pan
Less storage water

2.4 Independently designed bottom flange

Independently designed bottom flange, The air duct will not be damaged in maintenance

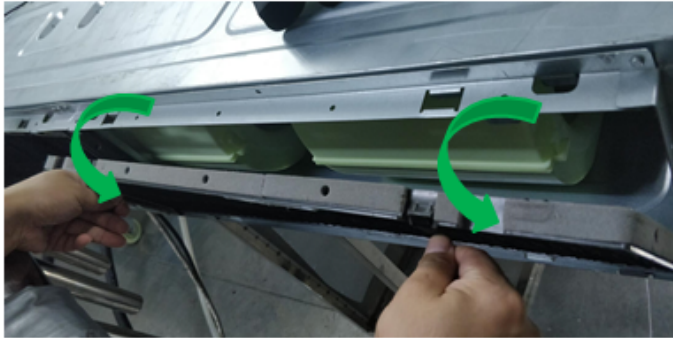
Easy for maintenance



Features

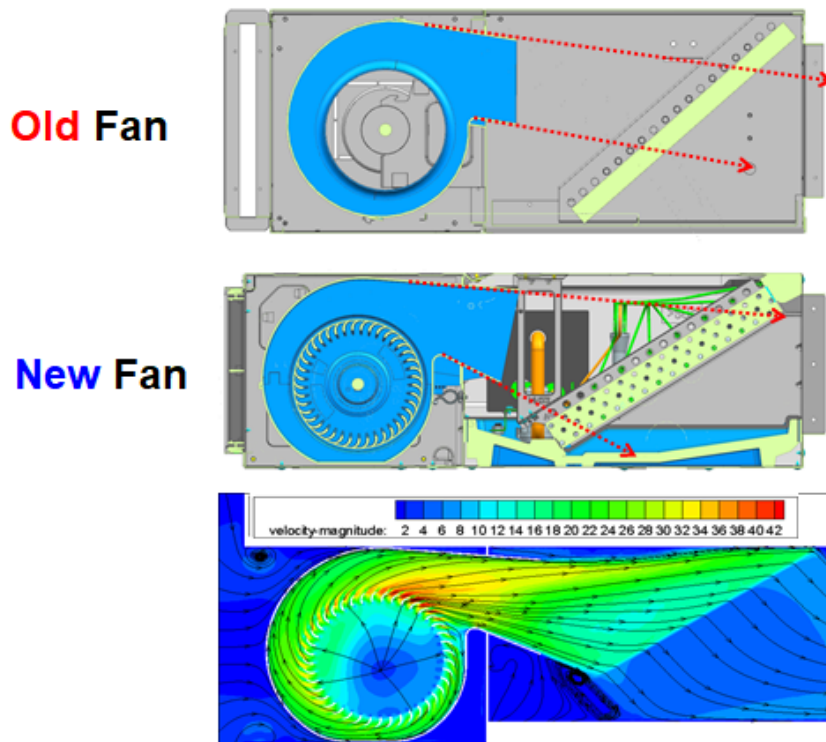
2.5 Easy disassembly filter

0 Screws, Easy disassembly, convenient for wash, W type high efficiency filter



2.6 Optimized Centrifugal Fan

0 Screws, Easy disassembly, convenient for wash, W type high efficiency filter



Specifications

Indoor Unit

| Sale Model | Indoor | | 4MXDRA18TB000AA | 4MXDRA24TB000AA | 4MXDRA30TB000AA | 4MXDRA36TB000AA |
|------------------|------------------------------------|-------------------|------------------|------------------|------------------|---------------------|
| | Outdoor | | 4TXKRA18TB000DA | 4TXKRA24TB000DA | 4TXKRA30TB000DA | 4TXKRA36TB000DA |
| Power Supply | | V~,Hz,Ph | 220-240,50/60,1 | 220-240,50/60,1 | 220-240,50/60,1 | 220-240,50/60,1 |
| Capacity | Cooling(T1) | Btu/h | 17400 | 23200 | 27000 | 32000 |
| | | kW | 5.10 | 6.78 | 7.90 | 9.35 |
| | Cooling Range(T1) | Kw | 1.95-6.45 | 3.3-8.4 | 3.40-9.75 | 4.25-12.30 |
| | Cooling(T3) | Btu/h | 16000 | 21500 | 26000 | 30000 |
| | | kW | 4.71 | 6.30 | 7.60 | 8.80 |
| Heating(H1) | kW | 5.80 | 8.10 | 8.80 | 11.00 | |
| Electric Data | Rated Cooling Power Input(T1) | W | 1426 | 1902 | 2213 | 2634 |
| | Rated Cooling Current(T1) | A | 6.25 | 8.30 | 9.70 | 11.60 |
| | Rated Cooling Power Input(T3) | W | 1840 | 2470 | 2990 | 3488 |
| | Rated Cooling Current(T3) | A | 8.05 | 10.80 | 13.20 | 15.30 |
| | Rated Heating Power Input(H1) | W | 1506 | 2103 | 2316 | 2973 |
| | Rated Heating Current(H1) | A | 6.60 | 9.20 | 10.10 | 13.10 |
| Performance | EER(T1) | W/W | 3.58 | 3.58 | 3.58 | 3.56 |
| | | (Btu/h)/W | 12.20 | 12.20 | 12.20 | 12.15 |
| | EER(T3) | W/W | 2.55 | 2.55 | 2.55 | 2.52 |
| | | (Btu/h)/W | 8.70 | 8.70 | 8.70 | 8.60 |
| COP(H1) | W/W | 3.85 | 3.85 | 3.80 | 3.70 | |
| Indoor Coil | A.Number Of Row | | 3 | 3 | 3 | 3 |
| | B.Tube Pitch(a)x Row Pitch(b) | mm | 20.5×12.7 | 20.5×12.7 | 20.5×12.7 | 22×19.05 |
| | C.Fin Pitch | mm | 1.50 | 1.50 | 1.50 | 1.40 |
| | D.Fin Material | | Hydrophilic | Hydrophilic | Hydrophilic | Hydrophilic |
| | E.Tube Outside Dia.And Material | mm | Φ7,Inner grooved | Φ7,Inner grooved | Φ7,Inner grooved | Φ7.94,Inner grooved |
| | F.Coil Length x Height x Width | mm | 811×328×38.1 | 811×328×38.1 | 1211×328×38.1 | 985×396×57.15 |
| | G.Number of circuit | / | 6 | 6 | 6 | 9 |
| | Output Power | W | 200 | 200 | 300 | 300 |
| Capacitor | μF | / | / | / | / | |
| Speed (Hi/Mi/Lo) | r/min | 1065/1020/975 | 1200/1150/1100 | 1185/1095/1020 | 1065/945/855 | |
| Indoor Unit | Indoor Air Flow (Hi/Mi/Lo) | m ³ /h | 1130/910/780 | 1500/1350/1200 | 1850/1600/1380 | 2100/1900/1600 |
| | | CFM | 665/535/459 | 882/794/706 | 1094/951/812 | 1235/1117/1000 |
| | Noise Level(Hi/Mi/Lo) | dB(A) | 42/39/38 | 45/43/41 | 47/45/44 | 45/42/40 |
| | External Static Pressure(Standard) | Pa | 25 | 25 | 37 | 37 |
| | External Static Pressure(Range) | Pa | 0~160 | 0~160 | 0~160 | 0~160 |
| | Net Dimension (W*D*H) | mm | 1000X700X245 | 1000X700X245 | 1400X700X245 | 1250×735×320 |
| | Packing Dimension (W*D*H) | mm | 1230X830X300 | 1230X830X300 | 1630X830X300 | 1430×800×390 |
| | Net Weight | Kg | 31 | 31 | 41 | 48 |
| Gross Weight | Kg | 37 | 37 | 47 | 54 | |
| Refrigerant Pipe | Liquid Side | mm | Φ6.35 | Φ9.52 | Φ9.52 | Φ9.52 |
| | Gas Side | mm | Φ12.7 | Φ15.88 | Φ15.88 | Φ15.88 |
| | Drainage | mm | R3/4in(DN20) | R3/4in(DN20) | R3/4in(DN20) | R3/4in(DN20) |

- Parameters above are all measured when the connecting pipe is 5 meters.
- Parameters above may be modified as product improvement. We keep the right to change the product specifications without prior notice, please take the parameters listed on the nameplate as criterion

Specifications

Indoor Unit

| Sale Model | Indoor | | 4MXDRA42TB000AA | 4MXDRA48TB000AA | 4MXDRA60TB000AA |
|---------------------------|------------------------------------|--------------|---------------------|---------------------|---------------------|
| | Outdoor | | 4TXKRA42TD000DA | 4TXKRA48TD000DA | 4TXKRA60TD000DA |
| Power Supply | | V~,Hz,Ph | 380-415,50/60,3 | 380-415,50/60,3 | 380-415,50/60,3 |
| Capacity | Cooling(T1) | Btu/h | 40000 | 47000 | 52000 |
| | | kW | 11.70 | 13.75 | 15.25 |
| | Cooling Range(T1) | Kw | 5.30-15.00 | 5.8-17.00 | 6.15-18.00 |
| | | Cooling(T3) | Btu/h | 35000 | 43000 |
| Heating(H1) | kW | 10.25 | 12.60 | 13.80 | |
| | kW | 13.50 | 15.30 | 18.00 | |
| Electric Data | Rated Cooling Power Input(T1) | W | 3292 | 3852 | 4280 |
| | Rated Cooling Current(T1) | A | 6.30 | 6.90 | 7.30 |
| | Rated Cooling Power Input(T3) | W | 4023 | 4943 | 5402 |
| | Rated Cooling Current(T3) | A | 7.70 | 8.80 | 9.20 |
| | Rated Heating Power Input(H1) | W | 3553 | 3923 | 4737 |
| Rated Heating Current(H1) | A | 6.80 | 7.00 | 8.00 | |
| Performance | EER(T1) | W/W | 3.56 | 3.58 | 3.56 |
| | | (Btu/h)/W | 12.15 | 12.20 | 12.15 |
| | EER(T3) | W/W | 2.55 | 2.55 | 2.55 |
| | | (Btu/h)/W | 8.70 | 8.70 | 8.70 |
| COP(H1) | W/W | 3.80 | 3.90 | 3.80 | |
| Indoor Coil | A.Number Of Row | | 3 | 3 | 3 |
| | B.Tube Pitch(a)x Row Pitch(b) | mm | 22×19.05 | 22×19.05 | 22×19.05 |
| | C.Fin Pitch | mm | 1.40 | 1.40 | 1.40 |
| | D.Fin Material | | Hydrophilic | Hydrophilic | Hydrophilic |
| | E.Tube Outside Dia.And Material | mm | Φ7.94,Inner grooved | Φ7.94,Inner grooved | Φ7.94,Inner grooved |
| | F.Coil Length x Height x Width | mm | 985×396×57.15 | 1135×484×57.15 | 1135×484×57.15 |
| | G.Number of circuit | / | 9 | 11 | 11 |
| | Output Power | W | 300 | 560 | 560 |
| | Capacitor | μF | / | / | / |
| | Speed (Hi/Mi/Lo) | r/min | 1170/1080/990 | 1275/1170/1065 | 1350/1275/1170 |
| Indoor Unit | Indoor Air Flow (Hi/Mi/Lo) | m³/h | 2300/2100/1700 | 2800/2500/2100 | 3100/2800/2500 |
| | | CFM | 1353/1235/1000 | 1647/1471/1235 | 1824/1647/1471 |
| | Noise Level(Hi/Mi/Lo) | dB(A) | 48/45/43 | 49/47/44 | 52/50/47 |
| | External Static Pressure(Standard) | Pa | 50 | 50 | 50 |
| | External Static Pressure(Range) | Pa | 0~160 | 0~160 | 0~160 |
| | Net Dimension (W*D*H) | mm | 1250×735×320 | 1400×820×380 | 1400×820×380 |
| | Packing Dimension (W*D*H) | mm | 1430×800×390 | 1580×880×450 | 1580×880×450 |
| Refrigerant Pipe | Net Weight | Kg | 48 | 56 | 56 |
| | Gross Weight | Kg | 54 | 63 | 63 |
| | Liquid Side | mm | Φ9.52 | Φ9.52 | Φ9.52 |
| Gas Side | mm | Φ19.05 | Φ19.05 | Φ19.05 | |
| Drainage | mm | R3/4in(DN20) | R3/4in(DN20) | R3/4in(DN20) | |

1. Parameters above are all measured when the connecting pipe is 5 meters.

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Specifications

Outdoor Unit

| Model | Outdoor | 4TXKRA18TB000DA | 4TXKRA24TB000DA | 4TXKRA30TB000DA | 4TXKRA36TB000DA | |
|--------------------------------|---------------------------------|-------------------|--|--|--|--|
| Power Supply | V-, Hz, Ph | 220-240, 50/60, 1 | 220-240, 50/60, 1 | 220-240, 50/60, 1 | 220-240, 50/60, 1 | |
| Compressor | Type | ROTARY | ROTARY | ROTARY | Rotary | |
| | Brand | GMCC | GMCC | GMCC | GMCC | |
| | Capacity | W | 4,690 | 7,715 | 7,715 | 10,010 |
| | Input | W | 1,250 | 2,085 | 2,085 | 2,765 |
| | Rated Current | A | 8.20 | 9.5 | 9.5 | 5.38 |
| | Thermal Protection temp. | °C | 115 | 115 | 115 | 115 |
| | Refrigerant Oil | ml | 450(ESTEL OIL VG74) | 670(ESTEL OIL VG74) | 670(ESTEL OIL VG74) | 1000(RB68A POE) |
| Outdoor Coil | A.Number Of Row | | 2.00 | 2.50 | 3.00 | 3.00 |
| | B.Tube Pitch(a)x Row Pitch(b) | mm | 22×19.05 | 20.5×12.7 | 20.5×12.7 | 20.5×12.7 |
| | C.Fin Pitch | mm | 1.40 | 1.50 | 1.50 | 1.50 |
| | D.Fin Material | | Window Cutting Hydrophilic aluminum foil | Window Cutting Hydrophilic aluminum foil | Window Cutting Hydrophilic aluminum foil | Window Cutting Hydrophilic aluminum foil |
| | E.Tube Outside Dia.And Material | mm | φ7.94, Inner grooved | φ7, Inner grooved | φ7, Inner grooved | φ7, Inner grooved |
| | F.Coil Length x Height x Width | mm | 744×615×38.1 | 882×656×38.1 | 882×656×38.1 | 977×759×38.1 |
| | G.Number of circuit | | 4 | 4 | 4 | 6 |
| Outdoor Fan Motor | Brand | | WOLONG | Welling | Welling | WOLONG |
| | Quantities | | 1.0 | 1.0 | 1.0 | 1.0 |
| | Output Power | W | 65 | 69 | 69 | 120 |
| | Capacitor | μ F | / | / | / | / |
| | Speed | r/min | 870 | 870 | 870 | 940 |
| Air Flow Volume | | m ³ /h | 3000 | 3500 | 3500 | 4200 |
| | | CFM | 1765 | 2059 | 2059 | 2471 |
| Noise Level | | dB(A) | 56 | 58 | 58 | 59 |
| Dimension | Net(W×D×H) | mm | 825×310×655 | 900×350×700 | 900×350×700 | 970×395×805 |
| | Packing(W×D×H) | mm | 945×435×725 | 1020×430×770 | 1020×430×770 | 1105×495×895 |
| Weight | Net | kg | 43 | 50 | 52 | 72 |
| | Gross | kg | 46 | 54 | 56 | 77 |
| Refrigerant Type/Quantity | Type | | R410a | R410a | R410a | R410a |
| Refrigerant Pipe | Liquid Side | mm | φ6.35 | φ9.52 | φ9.52 | φ9.52 |
| | Gas Side | mm | φ12.7 | φ15.88 | φ15.88 | φ15.88 |
| | Max. Length | m | 30 | 30 | 30 | 50 |
| | Max. Height | m | 20 | 20 | 20 | 30 |
| Operation Temperature Range | | °C | 16~32 | 16~32 | 16~32 | 16~32 |
| Ambient Temp (Cooling/Heating) | | °C | 17~54/-5~24 | 17~54/-5~24 | 17~54/-5~24 | 17~54/-5~24 |
| StμFfing Quantity | 20/40/40H | Unit | 93/192/192 | 84/114/171 | 84/114/171 | 44/92/96 |

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Specifications

Outdoor Unit

| Model | Outdoor | 4TXKRA42TD000DA | 4TXKRA48TD000DA | 4TXKRA60TD000DA | |
|--------------------------------|---------------------------------|-------------------|--|--|---------------------------------|
| Power Supply | V~,Hz,Ph | 380-415,50/60,3 | 380-415,50/60,3 | 380-415,50/60,3 | |
| Compressor | Type | | Rotary | Rotary | |
| | Brand | | HIGHLY | HIGHLY | |
| | Capacity | W | 11960 | 11960 | |
| | Input | W | 3680 | 3680 | |
| | Rated Current | A | 16 | 16 | |
| | Thermal Protection temp. | °C | 110 | 110 | |
| | Refrigerant Oil | ml | 1650(α 68HES-H) | 1650(α 68HES-H) | 1650(α 68HES-H) |
| Outdoor Coil | A.Number Of Row | | 2.50 | 2.50 | |
| | B.Tube Pitch(a)x Row Pitch(b) | mm | 22×19.05 | 22×19.05 | |
| | C.Fin Pitch | mm | 1.60 | 1.60 | |
| | D.Fin Material | | Corrugated Plate Hydrophilic aluminum foil | Corrugated Plate Hydrophilic aluminum foil | Plain Hydrophilic aluminum foil |
| | E.Tube Outside Dia.And Material | mm | φ7.94, Inner grooved | φ7.94, Inner grooved | φ7, Inner grooved |
| | F.Coil Length x Height x Width | mm | 906×1276×57.15 | 906×1276×57.15 | 968×1302×53.48 |
| | G.Number of circuit | | 6 | 6 | Inlet 16,outlet 8 |
| Outdoor Fan Motor | Brand | | Panasonic | Panasonic | |
| | Quantities | | 2.0 | 2.0 | |
| | Output Power | W | 100 | 100 | |
| | Capacitor | μ F | / | / | |
| | Speed | r/min | 780 | 780 | |
| Air Flow Volume | | m ³ /h | 6800 | 6800 | |
| | | CFM | 4000 | 4000 | |
| Noise Level | | dB(A) | 60 | 60 | |
| Dimension | Net(W×D×H) | mm | 940×370×1325 | 940×370×1325 | |
| | Packing(W×D×H) | mm | 1080×430×1440 | 1080×430×1440 | |
| Weight | Net | kg | 96 | 105 | |
| | Gross | kg | 106 | 118 | |
| Refrigerant Type/Quantity | Type | | R410a | R410a | |
| Refrigerant Pipe | Liquid Side | mm | φ9.52 | φ9.52 | |
| | Gas Side | mm | φ19.05 | φ19.05 | |
| | Max. Length | m | 50 | 50 | |
| | Max. Height | m | 30 | 30 | |
| Operation Temperature Range | | °C | 16~32 | 16~32 | |
| Ambient Temp (Cooling/Heating) | | °C | 17~54/-5~24 | 17~54/-5~24 | |
| StuFfing Quantity | 20/40/40H | Unit | 40/80/95 | 40/80/95 | |

1. Parameters above are all measured when the connecting pipe is 5 meters.
2. Parameters above may be modified as product improvement. We keep the right to change the product specifications without prior notice, please take the parameters listed on the nameplate as criterion

Performance Table

18k

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (*FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 68.0 | | | 77.0 | | | 89.6 | | | 95.0 | | |
| CFM | *FWB | *FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 459 | 57.2 | 68.0 | 13.5 | 11.1 | 0.92 | 13.2 | 11.0 | 1.09 | 12.6 | 10.7 | 1.27 | 12.2 | 10.5 | 1.33 |
| | 60.8 | 71.6 | 15.7 | 12.6 | 0.93 | 15.4 | 12.5 | 1.10 | 14.7 | 12.1 | 1.28 | 14.2 | 11.9 | 1.35 |
| | 64.4 | 77.0 | 17.5 | 13.7 | 0.94 | 17.2 | 13.6 | 1.12 | 16.3 | 13.2 | 1.30 | 15.9 | 12.9 | 1.37 |
| | 66.2 | 80.6 | 18.3 | 14.2 | 0.96 | 18.0 | 14.0 | 1.14 | 17.1 | 13.6 | 1.33 | 16.6 | 13.3 | 1.40 |
| | 71.6 | 86.0 | 20.1 | 15.0 | 0.97 | 19.7 | 14.9 | 1.15 | 18.8 | 14.4 | 1.34 | 18.2 | 14.0 | 1.42 |
| | 75.2 | 89.6 | 20.9 | 15.3 | 0.99 | 20.5 | 15.1 | 1.17 | 19.5 | 14.6 | 1.36 | 18.9 | 14.2 | 1.44 |
| 535 | 57.2 | 68.0 | 13.9 | 11.7 | 0.92 | 13.6 | 11.6 | 1.09 | 13.0 | 11.2 | 1.28 | 12.6 | 11.0 | 1.34 |
| | 60.8 | 71.6 | 16.2 | 13.2 | 0.94 | 15.9 | 13.1 | 1.11 | 15.1 | 12.7 | 1.30 | 14.7 | 12.5 | 1.36 |
| | 64.4 | 77.0 | 18.1 | 14.4 | 0.95 | 17.7 | 14.2 | 1.13 | 16.9 | 13.8 | 1.32 | 16.4 | 13.5 | 1.39 |
| | 66.2 | 80.6 | 18.9 | 14.9 | 0.97 | 18.5 | 14.7 | 1.15 | 17.7 | 14.3 | 1.34 | 17.1 | 13.9 | 1.41 |
| | 71.6 | 86.0 | 20.8 | 15.8 | 0.98 | 20.3 | 15.6 | 1.16 | 19.4 | 15.1 | 1.35 | 18.8 | 14.7 | 1.43 |
| | 75.2 | 89.6 | 21.6 | 16.1 | 0.99 | 21.1 | 15.8 | 1.18 | 20.1 | 15.3 | 1.37 | 19.5 | 14.9 | 1.45 |
| 665 | 57.2 | 68.0 | 14.1 | 11.9 | 0.93 | 13.8 | 11.8 | 1.11 | 13.2 | 11.5 | 1.29 | 12.8 | 11.3 | 1.36 |
| | 60.8 | 71.6 | 16.5 | 13.6 | 0.95 | 16.1 | 13.4 | 1.12 | 15.4 | 13.0 | 1.31 | 14.9 | 12.8 | 1.38 |
| | 64.4 | 77.0 | 18.4 | 14.8 | 0.96 | 18.0 | 14.6 | 1.14 | 17.1 | 14.1 | 1.33 | 16.6 | 13.8 | 1.40 |
| | 66.2 | 80.6 | 19.2 | 15.3 | 0.98 | 18.8 | 15.1 | 1.16 | 17.9 | 14.6 | 1.35 | 17.4 | 14.3 | 1.43 |
| | 71.6 | 86.0 | 21.1 | 16.2 | 0.99 | 20.7 | 16.0 | 1.18 | 19.7 | 15.4 | 1.37 | 19.1 | 15.1 | 1.44 |
| | 75.2 | 89.6 | 21.9 | 16.4 | 1.01 | 21.4 | 16.2 | 1.19 | 20.4 | 15.7 | 1.39 | 19.8 | 15.3 | 1.47 |

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (*FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | 104.0 | | | 109.4 | | | 115.0 | | | 125.0 | | |
| CFM | *FWB | *FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 459 | 57.2 | 68.0 | 11.7 | 10.3 | 1.42 | 11.3 | 10.0 | 1.46 | 11.2 | 9.9 | 1.72 | 10.4 | 9.5 | 1.76 |
| | 60.8 | 71.6 | 13.7 | 11.6 | 1.44 | 13.2 | 11.3 | 1.49 | 13.1 | 11.2 | 1.75 | 12.1 | 10.8 | 1.78 |
| | 64.4 | 77.0 | 15.3 | 12.5 | 1.46 | 14.8 | 12.2 | 1.51 | 14.7 | 12.1 | 1.77 | 13.6 | 11.7 | 1.81 |
| | 66.2 | 80.6 | 16.0 | 12.9 | 1.49 | 15.5 | 12.6 | 1.54 | 15.3 | 12.5 | 1.80 | 14.2 | 12.1 | 1.84 |
| | 71.6 | 86.0 | 17.5 | 13.6 | 1.51 | 17.0 | 13.3 | 1.56 | 16.8 | 13.2 | 1.83 | 15.6 | 12.7 | 1.87 |
| | 75.2 | 89.6 | 18.2 | 13.8 | 1.53 | 17.6 | 13.4 | 1.58 | 17.4 | 13.4 | 1.85 | 16.1 | 12.9 | 1.89 |
| 535 | 57.2 | 68.0 | 12.1 | 10.8 | 1.43 | 11.7 | 10.5 | 1.48 | 11.6 | 10.4 | 1.74 | 10.8 | 10.0 | 1.77 |
| | 60.8 | 71.6 | 14.1 | 12.2 | 1.45 | 13.7 | 11.9 | 1.50 | 13.5 | 11.7 | 1.76 | 12.5 | 11.3 | 1.80 |
| | 64.4 | 77.0 | 15.8 | 13.2 | 1.47 | 15.3 | 12.8 | 1.52 | 15.1 | 12.7 | 1.79 | 14.0 | 12.3 | 1.82 |
| | 66.2 | 80.6 | 16.5 | 13.6 | 1.50 | 16.0 | 13.2 | 1.55 | 15.8 | 13.1 | 1.82 | 14.6 | 12.7 | 1.86 |
| | 71.6 | 86.0 | 18.1 | 14.3 | 1.52 | 17.5 | 13.9 | 1.57 | 17.3 | 13.8 | 1.84 | 16.1 | 13.4 | 1.88 |
| | 75.2 | 89.6 | 18.8 | 14.5 | 1.54 | 18.2 | 14.1 | 1.59 | 17.9 | 14.0 | 1.87 | 16.6 | 13.6 | 1.91 |
| 665 | 57.2 | 68.0 | 12.3 | 11.0 | 1.45 | 11.9 | 10.8 | 1.49 | 11.8 | 10.6 | 1.76 | 10.9 | 10.3 | 1.79 |
| | 60.8 | 71.6 | 14.3 | 12.5 | 1.47 | 13.9 | 12.1 | 1.52 | 13.7 | 12.0 | 1.78 | 12.7 | 11.6 | 1.82 |
| | 64.4 | 77.0 | 16.0 | 13.5 | 1.49 | 15.5 | 13.1 | 1.54 | 15.4 | 13.0 | 1.81 | 14.3 | 12.6 | 1.85 |
| | 66.2 | 80.6 | 16.8 | 13.9 | 1.52 | 16.2 | 13.5 | 1.57 | 16.0 | 13.4 | 1.84 | 14.8 | 13.0 | 1.88 |
| | 71.6 | 86.0 | 18.4 | 14.7 | 1.54 | 17.8 | 14.3 | 1.59 | 17.6 | 14.2 | 1.86 | 16.3 | 13.7 | 1.90 |
| | 75.2 | 89.6 | 19.1 | 14.8 | 1.56 | 18.5 | 14.4 | 1.61 | 18.2 | 14.4 | 1.89 | 16.9 | 13.9 | 1.93 |

Performance Table

24k

| Air Folw Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 68.0 | | | 77.0 | | | 89.6 | | | 95.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 706 | 57.2 | 68.0 | 18.0 | 14.8 | 1.22 | 17.6 | 14.7 | 1.45 | 16.7 | 14.3 | 1.69 | 16.2 | 14.0 | 1.78 |
| | 60.8 | 71.6 | 20.9 | 16.8 | 1.24 | 20.5 | 16.7 | 1.47 | 19.5 | 16.2 | 1.71 | 19.0 | 15.8 | 1.81 |
| | 64.4 | 77.0 | 23.4 | 18.3 | 1.26 | 22.9 | 18.1 | 1.49 | 21.8 | 17.5 | 1.74 | 21.1 | 17.1 | 1.83 |
| | 66.2 | 80.6 | 24.5 | 18.9 | 1.28 | 23.9 | 18.7 | 1.52 | 22.8 | 18.1 | 1.77 | 22.1 | 17.7 | 1.86 |
| | 71.6 | 86.0 | 26.8 | 20.1 | 1.30 | 26.3 | 19.8 | 1.54 | 25.0 | 19.1 | 1.79 | 24.3 | 18.7 | 1.89 |
| | 75.2 | 89.6 | 27.9 | 20.4 | 1.32 | 27.3 | 20.1 | 1.56 | 26.0 | 19.4 | 1.82 | 25.2 | 18.9 | 1.92 |
| 794 | 57.2 | 68.0 | 18.5 | 15.5 | 1.23 | 18.1 | 15.4 | 1.46 | 17.3 | 15.0 | 1.70 | 16.8 | 14.7 | 1.79 |
| | 60.8 | 71.6 | 21.6 | 17.7 | 1.25 | 21.2 | 17.5 | 1.48 | 20.2 | 17.0 | 1.73 | 19.6 | 16.6 | 1.82 |
| | 64.4 | 77.0 | 24.1 | 19.2 | 1.27 | 23.6 | 19.0 | 1.50 | 22.5 | 18.4 | 1.75 | 21.8 | 18.0 | 1.85 |
| | 66.2 | 80.6 | 25.3 | 19.9 | 1.29 | 24.7 | 19.6 | 1.53 | 23.6 | 19.0 | 1.78 | 22.9 | 18.6 | 1.88 |
| | 71.6 | 86.0 | 27.7 | 21.1 | 1.31 | 27.1 | 20.8 | 1.55 | 25.9 | 20.1 | 1.81 | 25.1 | 19.6 | 1.90 |
| | 75.2 | 89.6 | 28.8 | 21.4 | 1.33 | 28.2 | 21.1 | 1.57 | 26.8 | 20.4 | 1.83 | 26.0 | 19.9 | 1.93 |
| 882 | 57.2 | 68.0 | 18.8 | 15.9 | 1.25 | 18.4 | 15.8 | 1.48 | 17.6 | 15.4 | 1.72 | 17.0 | 15.0 | 1.81 |
| | 60.8 | 71.6 | 22.0 | 18.1 | 1.27 | 21.5 | 17.9 | 1.50 | 20.5 | 17.4 | 1.75 | 19.9 | 17.0 | 1.84 |
| | 64.4 | 77.0 | 24.5 | 19.7 | 1.28 | 24.0 | 19.5 | 1.52 | 22.9 | 18.9 | 1.78 | 22.2 | 18.4 | 1.87 |
| | 66.2 | 80.6 | 25.6 | 20.3 | 1.31 | 25.1 | 20.1 | 1.55 | 23.9 | 19.5 | 1.81 | 23.2 | 19.0 | 1.90 |
| | 71.6 | 86.0 | 28.1 | 21.6 | 1.32 | 27.5 | 21.3 | 1.57 | 26.2 | 20.6 | 1.83 | 25.5 | 20.1 | 1.93 |
| | 75.2 | 89.6 | 29.2 | 21.9 | 1.34 | 28.6 | 21.6 | 1.59 | 27.2 | 20.9 | 1.86 | 26.4 | 20.4 | 1.95 |

| Air Folw Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | 104.0 | | | 109.4 | | | 115.0 | | | 125.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 706 | 57.2 | 68.0 | 15.6 | 13.7 | 1.89 | 15.1 | 13.4 | 1.95 | 15.1 | 13.2 | 2.31 | 14.0 | 12.7 | 2.36 |
| | 60.8 | 71.6 | 18.2 | 15.4 | 1.92 | 17.7 | 15.1 | 1.98 | 17.5 | 14.9 | 2.34 | 16.3 | 14.4 | 2.39 |
| | 64.4 | 77.0 | 20.4 | 16.7 | 1.95 | 19.7 | 16.3 | 2.01 | 19.7 | 16.1 | 2.38 | 18.3 | 15.6 | 2.43 |
| | 66.2 | 80.6 | 21.3 | 17.2 | 1.98 | 20.6 | 16.8 | 2.05 | 20.5 | 16.7 | 2.42 | 19.0 | 16.1 | 2.47 |
| | 71.6 | 86.0 | 23.4 | 18.2 | 2.01 | 22.6 | 17.7 | 2.07 | 22.5 | 17.6 | 2.45 | 20.9 | 17.0 | 2.51 |
| | 75.2 | 89.6 | 24.3 | 18.4 | 2.04 | 23.5 | 17.9 | 2.10 | 23.3 | 17.8 | 2.49 | 21.7 | 17.2 | 2.54 |
| 794 | 57.2 | 68.0 | 16.1 | 14.4 | 1.91 | 15.6 | 14.0 | 1.97 | 15.6 | 13.8 | 2.33 | 14.5 | 13.3 | 2.38 |
| | 60.8 | 71.6 | 18.8 | 16.2 | 1.94 | 18.2 | 15.8 | 2.00 | 18.1 | 15.6 | 2.36 | 16.8 | 15.1 | 2.41 |
| | 64.4 | 77.0 | 21.0 | 17.5 | 1.97 | 20.3 | 17.1 | 2.03 | 20.3 | 16.9 | 2.40 | 18.9 | 16.4 | 2.45 |
| | 66.2 | 80.6 | 22.0 | 18.1 | 2.00 | 21.3 | 17.6 | 2.06 | 21.2 | 17.5 | 2.44 | 19.6 | 16.9 | 2.49 |
| | 71.6 | 86.0 | 24.1 | 19.1 | 2.02 | 23.4 | 18.5 | 2.09 | 23.3 | 18.5 | 2.47 | 21.6 | 17.8 | 2.53 |
| | 75.2 | 89.6 | 25.1 | 19.3 | 2.05 | 24.2 | 18.8 | 2.12 | 24.1 | 18.7 | 2.51 | 22.4 | 18.1 | 2.56 |
| 882 | 57.2 | 68.0 | 16.4 | 14.7 | 1.93 | 15.9 | 14.4 | 1.99 | 15.8 | 14.2 | 2.36 | 14.7 | 13.7 | 2.41 |
| | 60.8 | 71.6 | 19.1 | 16.6 | 1.96 | 18.5 | 16.2 | 2.02 | 18.4 | 16.0 | 2.39 | 17.1 | 15.5 | 2.44 |
| | 64.4 | 77.0 | 21.3 | 18.0 | 1.99 | 20.6 | 17.5 | 2.06 | 20.7 | 17.3 | 2.43 | 19.2 | 16.8 | 2.48 |
| | 66.2 | 80.6 | 22.3 | 18.5 | 2.02 | 21.6 | 18.1 | 2.09 | 21.5 | 17.9 | 2.47 | 19.9 | 17.3 | 2.52 |
| | 71.6 | 86.0 | 24.5 | 19.5 | 2.05 | 23.7 | 19.0 | 2.12 | 23.6 | 18.9 | 2.50 | 21.9 | 18.3 | 2.56 |
| | 75.2 | 89.6 | 25.4 | 19.8 | 2.08 | 24.6 | 19.2 | 2.15 | 24.5 | 19.2 | 2.54 | 22.7 | 18.5 | 2.59 |

Performance Table

30k

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 68.0 | | | 77.0 | | | 89.6 | | | 95.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 812 | 57.2 | 68.0 | 20.9 | 17.2 | 1.42 | 20.4 | 17.1 | 1.68 | 19.5 | 16.6 | 1.96 | 18.9 | 16.3 | 2.07 |
| | 60.8 | 71.6 | 24.4 | 19.6 | 1.44 | 23.9 | 19.4 | 1.71 | 22.7 | 18.8 | 1.99 | 22.1 | 18.4 | 2.10 |
| | 64.4 | 77.0 | 27.2 | 21.3 | 1.46 | 26.6 | 21.1 | 1.74 | 25.4 | 20.4 | 2.02 | 24.6 | 20.0 | 2.13 |
| | 66.2 | 80.6 | 28.5 | 22.0 | 1.49 | 27.9 | 21.8 | 1.77 | 26.6 | 21.1 | 2.06 | 25.8 | 20.6 | 2.17 |
| | 71.6 | 86.0 | 31.2 | 23.4 | 1.51 | 30.6 | 23.0 | 1.79 | 29.1 | 22.3 | 2.09 | 28.3 | 21.7 | 2.20 |
| | 75.2 | 89.6 | 32.4 | 23.7 | 1.53 | 31.7 | 23.4 | 1.81 | 30.2 | 22.6 | 2.12 | 29.3 | 22.0 | 2.23 |
| 941 | 57.2 | 68.0 | 21.6 | 18.1 | 1.43 | 21.1 | 17.9 | 1.70 | 20.1 | 17.4 | 1.98 | 19.5 | 17.1 | 2.09 |
| | 60.8 | 71.6 | 25.2 | 20.5 | 1.45 | 24.6 | 20.3 | 1.72 | 23.5 | 19.7 | 2.01 | 22.8 | 19.3 | 2.12 |
| | 64.4 | 77.0 | 28.1 | 22.3 | 1.48 | 27.5 | 22.1 | 1.75 | 26.2 | 21.4 | 2.04 | 25.4 | 20.9 | 2.15 |
| | 66.2 | 80.6 | 29.4 | 23.1 | 1.50 | 28.8 | 22.8 | 1.78 | 27.4 | 22.1 | 2.08 | 26.6 | 21.6 | 2.19 |
| | 71.6 | 86.0 | 32.3 | 24.5 | 1.52 | 31.6 | 24.2 | 1.80 | 30.1 | 23.4 | 2.10 | 29.2 | 22.8 | 2.21 |
| | 75.2 | 89.6 | 33.5 | 24.9 | 1.54 | 32.8 | 24.6 | 1.83 | 31.2 | 23.7 | 2.13 | 30.3 | 23.1 | 2.25 |
| 1088 | 57.2 | 68.0 | 21.9 | 18.5 | 1.45 | 21.4 | 18.4 | 1.72 | 20.4 | 17.9 | 2.00 | 19.8 | 17.5 | 2.11 |
| | 60.8 | 71.6 | 25.6 | 21.1 | 1.47 | 25.0 | 20.8 | 1.75 | 23.8 | 20.2 | 2.03 | 23.1 | 19.8 | 2.14 |
| | 64.4 | 77.0 | 28.5 | 22.9 | 1.49 | 27.9 | 22.6 | 1.77 | 26.6 | 21.9 | 2.07 | 25.8 | 21.5 | 2.18 |
| | 66.2 | 80.6 | 29.8 | 23.7 | 1.52 | 29.2 | 23.4 | 1.80 | 27.8 | 22.7 | 2.10 | 27.0 | 22.1 | 2.21 |
| | 71.6 | 86.0 | 32.7 | 25.1 | 1.54 | 32.1 | 24.8 | 1.82 | 30.5 | 23.9 | 2.13 | 29.6 | 23.4 | 2.24 |
| | 75.2 | 89.6 | 34.0 | 25.5 | 1.56 | 33.3 | 25.2 | 1.85 | 31.7 | 24.3 | 2.16 | 30.8 | 23.7 | 2.27 |

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | 104.0 | | | 109.4 | | | 115.0 | | | 125.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 812 | 57.2 | 68.0 | 18.2 | 15.9 | 2.20 | 17.6 | 15.5 | 2.27 | 18.3 | 15.3 | 2.80 | 17.0 | 14.8 | 2.86 |
| | 60.8 | 71.6 | 21.2 | 18.0 | 2.23 | 20.5 | 17.5 | 2.31 | 21.2 | 17.3 | 2.84 | 19.7 | 16.7 | 2.90 |
| | 64.4 | 77.0 | 23.7 | 19.5 | 2.27 | 22.9 | 19.0 | 2.34 | 23.8 | 18.8 | 2.88 | 22.1 | 18.1 | 2.94 |
| | 66.2 | 80.6 | 24.8 | 20.1 | 2.31 | 24.0 | 19.5 | 2.38 | 24.8 | 19.4 | 2.93 | 23.0 | 18.7 | 2.99 |
| | 71.6 | 86.0 | 27.2 | 21.1 | 2.34 | 26.3 | 20.6 | 2.41 | 27.3 | 20.5 | 2.97 | 25.3 | 19.8 | 3.03 |
| | 75.2 | 89.6 | 28.2 | 21.4 | 2.37 | 27.3 | 20.8 | 2.45 | 28.2 | 20.7 | 3.01 | 26.2 | 20.0 | 3.07 |
| 941 | 57.2 | 68.0 | 18.8 | 16.7 | 2.22 | 18.2 | 16.3 | 2.29 | 18.9 | 16.1 | 2.82 | 17.5 | 15.5 | 2.88 |
| | 60.8 | 71.6 | 21.9 | 18.9 | 2.25 | 21.2 | 18.4 | 2.33 | 21.9 | 18.2 | 2.86 | 20.3 | 17.6 | 2.92 |
| | 64.4 | 77.0 | 24.5 | 20.4 | 2.29 | 23.7 | 19.9 | 2.36 | 24.6 | 19.7 | 2.90 | 22.8 | 19.0 | 2.96 |
| | 66.2 | 80.6 | 25.6 | 21.1 | 2.33 | 24.8 | 20.5 | 2.40 | 25.6 | 20.3 | 2.95 | 23.8 | 19.6 | 3.02 |
| | 71.6 | 86.0 | 28.1 | 22.2 | 2.36 | 27.2 | 21.6 | 2.43 | 28.1 | 21.5 | 2.99 | 26.1 | 20.7 | 3.06 |
| | 75.2 | 89.6 | 29.2 | 22.5 | 2.39 | 28.2 | 21.8 | 2.47 | 29.1 | 21.8 | 3.03 | 27.0 | 21.0 | 3.10 |
| 1088 | 57.2 | 68.0 | 19.1 | 17.1 | 2.25 | 18.5 | 16.7 | 2.32 | 19.2 | 16.5 | 2.86 | 17.8 | 15.9 | 2.92 |
| | 60.8 | 71.6 | 22.3 | 19.3 | 2.28 | 21.5 | 18.9 | 2.36 | 22.2 | 18.6 | 2.90 | 20.6 | 18.0 | 2.96 |
| | 64.4 | 77.0 | 24.8 | 20.9 | 2.31 | 24.0 | 20.4 | 2.39 | 25.0 | 20.2 | 2.94 | 23.2 | 19.5 | 3.00 |
| | 66.2 | 80.6 | 26.0 | 21.6 | 2.35 | 25.1 | 21.0 | 2.43 | 26.0 | 20.8 | 2.99 | 24.1 | 20.1 | 3.05 |
| | 71.6 | 86.0 | 28.5 | 22.7 | 2.38 | 27.6 | 22.1 | 2.46 | 28.6 | 22.0 | 3.03 | 26.5 | 21.3 | 3.09 |
| | 75.2 | 89.6 | 29.6 | 23.0 | 2.42 | 28.6 | 22.4 | 2.50 | 29.6 | 22.3 | 3.07 | 27.4 | 21.5 | 3.14 |

Performance Table

36k

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (*FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | *FWB | *FDB | 68.0 | | | 77.0 | | | 89.6 | | | 95.0 | | |
| CFM | *FWB | *FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 941 | 57.2 | 68.0 | 24.8 | 20.4 | 1.69 | 24.2 | 20.3 | 2.00 | 23.1 | 19.7 | 2.34 | 22.4 | 19.3 | 2.46 |
| | 60.8 | 71.6 | 28.9 | 23.2 | 1.72 | 28.3 | 23.0 | 2.04 | 26.9 | 22.3 | 2.37 | 26.1 | 21.8 | 2.50 |
| | 64.4 | 77.0 | 32.2 | 25.2 | 1.74 | 31.6 | 25.0 | 2.07 | 30.1 | 24.2 | 2.41 | 29.2 | 23.6 | 2.54 |
| | 66.2 | 80.6 | 33.7 | 26.1 | 1.77 | 33.0 | 25.8 | 2.10 | 31.5 | 25.0 | 2.45 | 30.5 | 24.4 | 2.58 |
| | 71.6 | 86.0 | 37.0 | 27.7 | 1.80 | 36.2 | 27.3 | 2.13 | 34.5 | 26.4 | 2.48 | 33.5 | 25.8 | 2.61 |
| | 75.2 | 89.6 | 38.4 | 28.1 | 1.82 | 37.6 | 27.7 | 2.16 | 35.8 | 26.8 | 2.52 | 34.8 | 26.1 | 2.65 |
| 1118 | 57.2 | 68.0 | 25.6 | 21.4 | 1.71 | 25.0 | 21.3 | 2.02 | 23.8 | 20.7 | 2.36 | 23.1 | 20.2 | 2.48 |
| | 60.8 | 71.6 | 29.8 | 24.4 | 1.73 | 29.2 | 24.1 | 2.05 | 27.8 | 23.4 | 2.39 | 27.0 | 22.9 | 2.52 |
| | 64.4 | 77.0 | 33.3 | 26.5 | 1.76 | 32.6 | 26.2 | 2.08 | 31.0 | 25.4 | 2.43 | 30.1 | 24.8 | 2.56 |
| | 66.2 | 80.6 | 34.8 | 27.4 | 1.79 | 34.1 | 27.1 | 2.12 | 32.5 | 26.2 | 2.47 | 31.5 | 25.6 | 2.60 |
| | 71.6 | 86.0 | 38.2 | 29.0 | 1.81 | 37.4 | 28.7 | 2.15 | 35.7 | 27.7 | 2.50 | 34.6 | 27.0 | 2.64 |
| | 75.2 | 89.6 | 39.7 | 29.5 | 1.84 | 38.8 | 29.1 | 2.18 | 37.0 | 28.1 | 2.54 | 35.9 | 27.4 | 2.67 |
| 1235 | 57.2 | 68.0 | 26.0 | 22.0 | 1.73 | 25.4 | 21.8 | 2.05 | 24.2 | 21.2 | 2.39 | 23.5 | 20.7 | 2.51 |
| | 60.8 | 71.6 | 30.3 | 25.0 | 1.75 | 29.6 | 24.7 | 2.08 | 28.2 | 24.0 | 2.42 | 27.4 | 23.5 | 2.55 |
| | 64.4 | 77.0 | 33.8 | 27.1 | 1.78 | 33.1 | 26.8 | 2.11 | 31.5 | 26.0 | 2.46 | 30.6 | 25.4 | 2.59 |
| | 66.2 | 80.6 | 35.4 | 28.1 | 1.81 | 34.6 | 27.7 | 2.14 | 33.0 | 26.9 | 2.50 | 32.0 | 26.2 | 2.63 |
| | 71.6 | 86.0 | 38.8 | 29.8 | 1.83 | 38.0 | 29.4 | 2.17 | 36.2 | 28.4 | 2.53 | 35.1 | 27.7 | 2.67 |
| | 75.2 | 89.6 | 40.3 | 30.3 | 1.86 | 39.4 | 29.8 | 2.20 | 37.6 | 28.8 | 2.57 | 36.4 | 28.1 | 2.71 |

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (*FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | *FWB | *FDB | 104.0 | | | 109.4 | | | 115.0 | | | 125.0 | | |
| CFM | *FWB | *FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 941 | 57.2 | 68.0 | 21.6 | 18.9 | 2.62 | 20.9 | 18.4 | 2.71 | 21.1 | 18.2 | 3.26 | 19.6 | 17.5 | 3.33 |
| | 60.8 | 71.6 | 25.2 | 21.3 | 2.66 | 24.3 | 20.8 | 2.75 | 24.5 | 20.5 | 3.31 | 22.7 | 19.8 | 3.38 |
| | 64.4 | 77.0 | 28.1 | 23.1 | 2.70 | 27.2 | 22.5 | 2.79 | 27.5 | 22.3 | 3.36 | 25.5 | 21.5 | 3.43 |
| | 66.2 | 80.6 | 29.4 | 23.8 | 2.75 | 28.4 | 23.2 | 2.84 | 28.6 | 23.0 | 3.42 | 26.5 | 22.2 | 3.49 |
| | 71.6 | 86.0 | 32.3 | 25.1 | 2.78 | 31.2 | 24.4 | 2.87 | 31.4 | 24.3 | 3.46 | 29.2 | 23.4 | 3.54 |
| | 75.2 | 89.6 | 33.5 | 25.4 | 2.82 | 32.4 | 24.7 | 2.91 | 32.6 | 24.6 | 3.51 | 30.2 | 23.7 | 3.59 |
| 1118 | 57.2 | 68.0 | 22.3 | 19.8 | 2.64 | 21.5 | 19.3 | 2.73 | 21.8 | 19.1 | 3.29 | 20.2 | 18.4 | 3.36 |
| | 60.8 | 71.6 | 26.0 | 22.4 | 2.68 | 25.1 | 21.8 | 2.77 | 25.3 | 21.6 | 3.34 | 23.4 | 20.8 | 3.41 |
| | 64.4 | 77.0 | 29.0 | 24.2 | 2.72 | 28.0 | 23.6 | 2.81 | 28.4 | 23.4 | 3.38 | 26.3 | 22.6 | 3.46 |
| | 66.2 | 80.6 | 30.3 | 25.0 | 2.77 | 29.4 | 24.3 | 2.86 | 29.6 | 24.1 | 3.45 | 27.4 | 23.3 | 3.52 |
| | 71.6 | 86.0 | 33.3 | 26.3 | 2.80 | 32.2 | 25.6 | 2.90 | 32.5 | 25.5 | 3.49 | 30.1 | 24.6 | 3.57 |
| | 75.2 | 89.6 | 34.6 | 26.6 | 2.84 | 33.4 | 25.9 | 2.94 | 33.6 | 25.8 | 3.54 | 31.2 | 24.9 | 3.61 |
| 1235 | 57.2 | 68.0 | 22.6 | 20.3 | 2.67 | 21.9 | 19.8 | 2.76 | 22.1 | 19.5 | 3.33 | 20.5 | 18.9 | 3.40 |
| | 60.8 | 71.6 | 26.4 | 22.9 | 2.71 | 25.5 | 22.3 | 2.80 | 25.7 | 22.1 | 3.38 | 23.8 | 21.3 | 3.45 |
| | 64.4 | 77.0 | 29.4 | 24.8 | 2.75 | 28.5 | 24.2 | 2.85 | 28.8 | 23.9 | 3.43 | 26.7 | 23.1 | 3.50 |
| | 66.2 | 80.6 | 30.8 | 25.6 | 2.80 | 29.8 | 24.9 | 2.89 | 30.0 | 24.7 | 3.49 | 27.8 | 23.9 | 3.56 |
| | 71.6 | 86.0 | 33.8 | 26.9 | 2.84 | 32.7 | 26.2 | 2.93 | 33.0 | 26.1 | 3.54 | 30.6 | 25.2 | 3.61 |
| | 75.2 | 89.6 | 35.1 | 27.3 | 2.88 | 33.9 | 26.5 | 2.97 | 34.1 | 26.4 | | 31.7 | 25.5 | 3.66 |

Performance Table

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| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 68.0 | | | 77.0 | | | 89.6 | | | 95.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 1000 | 57.2 | 68.0 | 31.0 | 25.5 | 2.11 | 30.3 | 25.3 | 2.51 | 28.9 | 24.6 | 2.92 | 28.0 | 24.1 | 3.08 |
| | 60.8 | 71.6 | 36.1 | 29.0 | 2.15 | 35.3 | 28.7 | 2.54 | 33.7 | 27.9 | 2.97 | 32.7 | 27.3 | 3.12 |
| | 64.4 | 77.0 | 40.3 | 31.5 | 2.18 | 39.4 | 31.2 | 2.58 | 37.6 | 30.2 | 3.01 | 36.5 | 29.6 | 3.17 |
| | 66.2 | 80.6 | 42.2 | 32.6 | 2.22 | 41.3 | 32.2 | 2.63 | 39.3 | 31.2 | 3.06 | 38.2 | 30.5 | 3.23 |
| | 71.6 | 86.0 | 46.3 | 34.6 | 2.24 | 45.3 | 34.1 | 2.66 | 43.2 | 33.0 | 3.10 | 41.9 | 32.2 | 3.27 |
| | 75.2 | 89.6 | 48.0 | 35.2 | 2.28 | 47.0 | 34.7 | 2.70 | 44.8 | 33.5 | 3.15 | 43.5 | 32.7 | 3.32 |
| 1235 | 57.2 | 68.0 | 32.0 | 26.8 | 2.13 | 31.3 | 26.6 | 2.53 | 29.8 | 25.8 | 2.95 | 28.9 | 25.3 | 3.10 |
| | 60.8 | 71.6 | 37.3 | 30.4 | 2.16 | 36.5 | 30.1 | 2.56 | 34.8 | 29.3 | 2.99 | 33.7 | 28.6 | 3.15 |
| | 64.4 | 77.0 | 41.6 | 33.1 | 2.20 | 40.7 | 32.7 | 2.60 | 38.8 | 31.7 | 3.04 | 37.6 | 31.0 | 3.20 |
| | 66.2 | 80.6 | 43.5 | 34.2 | 2.23 | 42.6 | 33.8 | 2.65 | 40.6 | 32.8 | 3.09 | 39.4 | 32.0 | 3.25 |
| | 71.6 | 86.0 | 47.8 | 36.3 | 2.26 | 46.8 | 35.8 | 2.68 | 44.6 | 34.6 | 3.13 | 43.2 | 33.8 | 3.29 |
| | 75.2 | 89.6 | 49.6 | 36.9 | 2.30 | 48.5 | 36.4 | 2.72 | 46.3 | 35.1 | 3.17 | 44.9 | 34.3 | 3.34 |
| 1353 | 57.2 | 68.0 | 32.4 | 27.5 | 2.16 | 31.8 | 27.2 | 2.56 | 30.3 | 26.5 | 2.98 | 29.4 | 25.9 | 3.14 |
| | 60.8 | 71.6 | 37.9 | 31.2 | 2.19 | 37.1 | 30.9 | 2.60 | 35.3 | 30.0 | 3.03 | 34.3 | 29.3 | 3.19 |
| | 64.4 | 77.0 | 42.2 | 33.9 | 2.22 | 41.3 | 33.5 | 2.64 | 39.4 | 32.5 | 3.07 | 38.2 | 31.8 | 3.24 |
| | 66.2 | 80.6 | 44.2 | 35.1 | 2.26 | 43.3 | 34.7 | 2.68 | 41.2 | 33.6 | 3.13 | 40.0 | 32.8 | 3.29 |
| | 71.6 | 86.0 | 48.5 | 37.2 | 2.29 | 47.5 | 36.7 | 2.71 | 45.2 | 35.5 | 3.17 | 43.9 | 34.6 | 3.33 |
| | 75.2 | 89.6 | 50.3 | 37.8 | 2.32 | 49.3 | 37.3 | 2.75 | 47.0 | 36.0 | 3.21 | 45.6 | 35.1 | 3.38 |

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | 104.0 | | | 109.4 | | | 115.0 | | | 125.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 1000 | 57.2 | 68.0 | 27.0 | 23.6 | 3.27 | 26.1 | 23.0 | 3.38 | 24.6 | 22.7 | 3.76 | 22.8 | 21.9 | 3.85 |
| | 60.8 | 71.6 | 31.5 | 26.6 | 3.32 | 30.4 | 26.0 | 3.43 | 28.6 | 25.7 | 3.82 | 26.5 | 24.8 | 3.90 |
| | 64.4 | 77.0 | 35.1 | 28.8 | 3.37 | 34.0 | 28.1 | 3.49 | 32.1 | 27.8 | 3.87 | 29.7 | 26.9 | 3.95 |
| | 66.2 | 80.6 | 36.7 | 29.7 | 3.43 | 35.5 | 28.9 | 3.54 | 33.4 | 28.7 | 3.94 | 31.0 | 27.7 | 4.03 |
| | 71.6 | 86.0 | 40.3 | 31.3 | 3.48 | 39.0 | 30.5 | 3.59 | 36.7 | 30.3 | 4.00 | 34.0 | 29.3 | 4.08 |
| | 75.2 | 89.6 | 41.8 | 31.7 | 3.53 | 40.5 | 30.8 | 3.64 | 38.0 | 30.7 | 4.05 | 35.3 | 29.7 | 4.14 |
| 1235 | 57.2 | 68.0 | 27.8 | 24.8 | 3.30 | 26.9 | 24.2 | 3.41 | 25.4 | 23.8 | 3.80 | 23.6 | 23.0 | 3.88 |
| | 60.8 | 71.6 | 32.5 | 28.0 | 3.35 | 31.4 | 27.3 | 3.46 | 29.5 | 26.9 | 3.85 | 27.4 | 26.0 | 3.93 |
| | 64.4 | 77.0 | 36.2 | 30.2 | 3.40 | 35.1 | 29.5 | 3.51 | 33.1 | 29.2 | 3.90 | 30.7 | 28.2 | 3.99 |
| | 66.2 | 80.6 | 37.9 | 31.2 | 3.46 | 36.7 | 30.4 | 3.57 | 34.5 | 30.1 | 3.97 | 32.0 | 29.1 | 4.06 |
| | 71.6 | 86.0 | 41.6 | 32.9 | 3.50 | 40.3 | 32.0 | 3.62 | 37.9 | 31.8 | 4.03 | 35.1 | 30.7 | 4.11 |
| | 75.2 | 89.6 | 43.2 | 33.3 | 3.55 | 41.8 | 32.4 | 3.67 | 39.2 | 32.3 | 4.08 | 36.4 | 31.2 | 4.17 |
| 1353 | 57.2 | 68.0 | 28.3 | 25.4 | 3.34 | 27.3 | 24.8 | 3.45 | 25.8 | 24.4 | 3.84 | 23.9 | 23.6 | 3.92 |
| | 60.8 | 71.6 | 33.0 | 28.6 | 3.39 | 31.9 | 27.9 | 3.50 | 29.9 | 27.6 | 3.90 | 27.8 | 26.7 | 3.98 |
| | 64.4 | 77.0 | 36.8 | 31.0 | 3.44 | 35.6 | 30.2 | 3.56 | 33.6 | 29.9 | 3.95 | 31.2 | 28.9 | 4.03 |
| | 66.2 | 80.6 | 38.5 | 32.0 | 3.50 | 37.3 | 31.1 | 3.62 | 35.0 | 30.9 | 4.02 | 32.5 | 29.8 | 4.11 |
| | 71.6 | 86.0 | 42.3 | 33.7 | 3.55 | 40.9 | 32.8 | 3.66 | 38.5 | 32.6 | 4.08 | 35.7 | 31.5 | 4.16 |
| | 75.2 | 89.6 | 43.9 | 34.1 | 3.60 | 42.4 | 33.2 | 3.72 | 39.8 | 33.0 | 4.13 | 37.0 | 31.9 | 4.22 |

Performance Table

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| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 68.0 | | | 77.0 | | | 89.6 | | | 95.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 1235 | 57.2 | 68.0 | 36.4 | 30.0 | 2.47 | 35.6 | 29.7 | 2.93 | 33.9 | 28.9 | 3.42 | 32.9 | 28.3 | 3.60 |
| | 60.8 | 71.6 | 42.4 | 34.1 | 2.51 | 41.5 | 33.7 | 2.98 | 39.6 | 32.8 | 3.47 | 38.4 | 32.0 | 3.66 |
| | 64.4 | 77.0 | 47.3 | 37.1 | 2.55 | 46.3 | 36.7 | 3.02 | 44.2 | 35.5 | 3.52 | 42.8 | 34.7 | 3.71 |
| | 66.2 | 80.6 | 49.6 | 38.3 | 2.59 | 48.5 | 37.9 | 3.07 | 46.2 | 36.7 | 3.58 | 44.8 | 35.8 | 3.77 |
| | 71.6 | 86.0 | 54.4 | 40.6 | 2.63 | 53.2 | 40.1 | 3.11 | 50.7 | 38.8 | 3.63 | 49.2 | 37.8 | 3.82 |
| | 75.2 | 89.6 | 56.4 | 41.3 | 2.66 | 55.2 | 40.8 | 3.16 | 52.6 | 39.3 | 3.68 | 51.1 | 38.4 | 3.88 |
| 1471 | 57.2 | 68.0 | 37.5 | 31.5 | 2.49 | 36.8 | 31.2 | 2.96 | 35.0 | 30.4 | 3.45 | 34.0 | 29.7 | 3.63 |
| | 60.8 | 71.6 | 43.8 | 35.8 | 2.53 | 42.9 | 35.4 | 3.00 | 40.9 | 34.4 | 3.50 | 39.6 | 33.6 | 3.69 |
| | 64.4 | 77.0 | 48.9 | 38.9 | 2.57 | 47.8 | 38.5 | 3.05 | 45.6 | 37.3 | 3.55 | 44.2 | 36.4 | 3.74 |
| | 66.2 | 80.6 | 51.2 | 40.2 | 2.61 | 50.1 | 39.8 | 3.10 | 47.7 | 38.5 | 3.61 | 46.3 | 37.6 | 3.81 |
| | 71.6 | 86.0 | 56.1 | 42.7 | 2.65 | 55.0 | 42.1 | 3.14 | 52.4 | 40.7 | 3.66 | 50.8 | 39.7 | 3.85 |
| | 75.2 | 89.6 | 58.3 | 43.4 | 2.69 | 57.0 | 42.8 | 3.18 | 54.3 | 41.3 | 3.71 | 52.7 | 40.3 | 3.91 |
| 1647 | 57.2 | 68.0 | 38.1 | 32.3 | 2.52 | 37.3 | 32.0 | 2.99 | 35.6 | 31.1 | 3.49 | 34.5 | 30.5 | 3.67 |
| | 60.8 | 71.6 | 44.5 | 36.6 | 2.56 | 43.5 | 36.3 | 3.04 | 41.5 | 35.2 | 3.54 | 40.2 | 34.5 | 3.73 |
| | 64.4 | 77.0 | 49.6 | 39.9 | 2.60 | 48.6 | 39.4 | 3.08 | 46.3 | 38.2 | 3.60 | 44.9 | 37.3 | 3.79 |
| | 66.2 | 80.6 | 51.9 | 41.2 | 2.65 | 50.8 | 40.7 | 3.14 | 48.4 | 39.4 | 3.66 | 47.0 | 38.5 | 3.85 |
| | 71.6 | 86.0 | 57.0 | 43.7 | 2.68 | 55.8 | 43.1 | 3.18 | 53.2 | 41.7 | 3.70 | 51.6 | 40.7 | 3.90 |
| | 75.2 | 89.6 | 59.2 | 44.4 | 2.72 | 57.9 | 43.8 | 3.22 | 55.2 | 42.3 | 3.76 | 53.5 | 41.3 | 3.96 |

| Air Flow Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | 104.0 | | | 109.4 | | | 115.0 | | | 125.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 1235 | 57.2 | 68.0 | 31.7 | 27.7 | 3.83 | 30.6 | 27.1 | 3.96 | 30.2 | 26.7 | 4.61 | 28.0 | 25.8 | 4.71 |
| | 60.8 | 71.6 | 37.0 | 31.3 | 3.89 | 35.8 | 30.5 | 4.02 | 35.1 | 30.2 | 4.67 | 32.5 | 29.1 | 4.77 |
| | 64.4 | 77.0 | 41.2 | 33.9 | 3.95 | 39.9 | 33.0 | 4.08 | 39.4 | 32.7 | 4.74 | 36.5 | 31.6 | 4.84 |
| | 66.2 | 80.6 | 43.2 | 34.9 | 4.02 | 41.8 | 34.0 | 4.15 | 41.0 | 33.7 | 4.82 | 38.1 | 32.6 | 4.93 |
| | 71.6 | 86.0 | 47.4 | 36.8 | 4.07 | 45.8 | 35.8 | 4.20 | 45.1 | 35.6 | 4.89 | 41.8 | 34.4 | 4.99 |
| | 75.2 | 89.6 | 49.2 | 37.3 | 4.13 | 47.6 | 36.2 | 4.26 | 46.7 | 36.1 | 4.95 | 43.3 | 34.9 | 5.06 |
| 1471 | 57.2 | 68.0 | 32.7 | 29.1 | 3.86 | 31.6 | 28.4 | 3.99 | 31.2 | 28.0 | 4.64 | 28.9 | 27.0 | 4.74 |
| | 60.8 | 71.6 | 38.2 | 32.8 | 3.92 | 36.9 | 32.0 | 4.05 | 36.2 | 31.7 | 4.71 | 33.6 | 30.6 | 4.81 |
| | 64.4 | 77.0 | 42.6 | 35.5 | 3.98 | 41.2 | 34.6 | 4.11 | 40.7 | 34.3 | 4.78 | 37.7 | 33.1 | 4.88 |
| | 66.2 | 80.6 | 44.6 | 36.7 | 4.05 | 43.1 | 35.7 | 4.18 | 42.4 | 35.4 | 4.86 | 39.3 | 34.2 | 4.97 |
| | 71.6 | 86.0 | 48.9 | 38.6 | 4.10 | 47.3 | 37.6 | 4.24 | 46.5 | 37.4 | 4.93 | 43.2 | 36.1 | 5.03 |
| | 75.2 | 89.6 | 50.8 | 39.1 | 4.16 | 49.1 | 38.0 | 4.30 | 48.2 | 37.9 | 5.00 | 44.7 | 36.6 | 5.10 |
| 1647 | 57.2 | 68.0 | 33.2 | 29.8 | 3.91 | 32.1 | 29.1 | 4.04 | 31.7 | 28.7 | 4.70 | 29.4 | 27.7 | 4.80 |
| | 60.8 | 71.6 | 38.8 | 33.7 | 3.97 | 37.5 | 32.8 | 4.10 | 36.8 | 32.4 | 4.77 | 34.1 | 31.3 | 4.87 |
| | 64.4 | 77.0 | 43.2 | 36.4 | 4.03 | 41.8 | 35.5 | 4.16 | 41.3 | 35.1 | 4.83 | 38.3 | 33.9 | 4.94 |
| | 66.2 | 80.6 | 45.3 | 37.6 | 4.10 | 43.8 | 36.6 | 4.23 | 43.0 | 36.3 | 4.92 | 39.9 | 35.0 | 5.03 |
| | 71.6 | 86.0 | 49.7 | 39.6 | 4.15 | 48.0 | 38.5 | 4.29 | 47.2 | 38.3 | 4.99 | 43.8 | 37.0 | 5.10 |
| | 75.2 | 89.6 | 51.5 | 40.1 | 4.21 | 49.9 | 39.0 | 4.35 | 48.9 | 38.8 | 5.06 | 45.4 | 37.5 | 5.16 |

Performance Table

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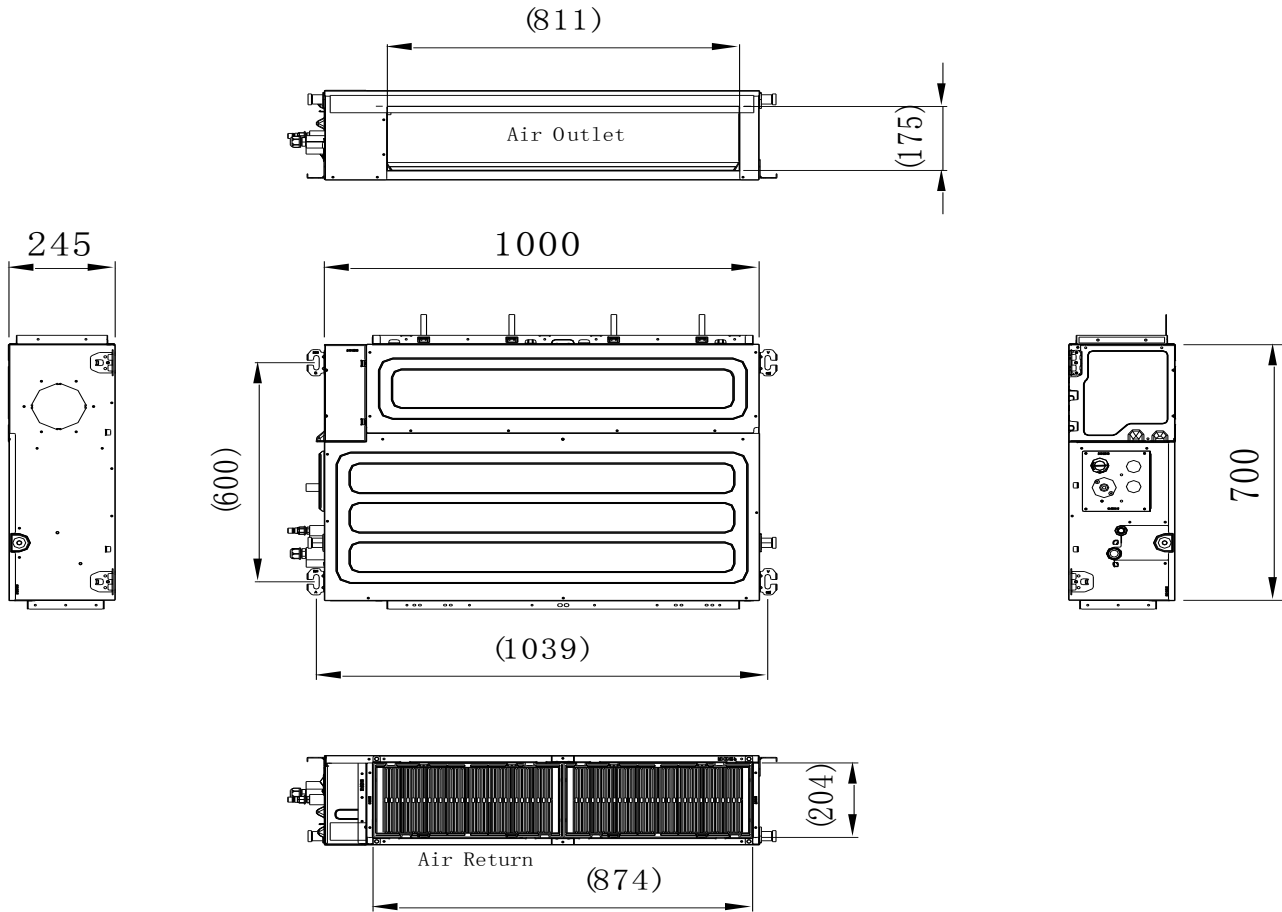
| Air Folw Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 68.0 | | | 77.0 | | | 89.6 | | | 95.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 1471 | 57.2 | 68.0 | 40.2 | 33.2 | 2.75 | 39.4 | 32.9 | 3.26 | 37.5 | 32.0 | 3.80 | 36.4 | 31.3 | 4.00 |
| | 60.8 | 71.6 | 46.9 | 37.7 | 2.79 | 46.0 | 37.3 | 3.31 | 43.8 | 36.2 | 3.86 | 42.5 | 35.5 | 4.06 |
| | 64.4 | 77.0 | 52.4 | 41.0 | 2.83 | 51.3 | 40.6 | 3.36 | 48.9 | 39.3 | 3.92 | 47.4 | 38.4 | 4.12 |
| | 66.2 | 80.6 | 54.8 | 42.4 | 2.88 | 53.7 | 41.9 | 3.41 | 51.1 | 40.6 | 3.98 | 49.6 | 39.7 | 4.19 |
| | 71.6 | 86.0 | 60.2 | 45.0 | 2.92 | 58.9 | 44.4 | 3.46 | 56.1 | 42.9 | 4.03 | 54.4 | 41.9 | 4.25 |
| | 75.2 | 89.6 | 62.4 | 45.7 | 2.96 | 61.1 | 45.1 | 3.51 | 58.2 | 43.5 | 4.09 | 56.5 | 42.4 | 4.31 |
| 1647 | 57.2 | 68.0 | 41.5 | 34.9 | 2.77 | 40.7 | 34.5 | 3.28 | 38.7 | 33.6 | 3.83 | 37.6 | 32.9 | 4.03 |
| | 60.8 | 71.6 | 48.5 | 39.6 | 2.81 | 47.4 | 39.2 | 3.33 | 45.2 | 38.0 | 3.89 | 43.9 | 37.2 | 4.10 |
| | 64.4 | 77.0 | 54.1 | 43.0 | 2.86 | 52.9 | 42.6 | 3.39 | 50.4 | 41.3 | 3.95 | 48.9 | 40.3 | 4.16 |
| | 66.2 | 80.6 | 56.6 | 44.5 | 2.90 | 55.4 | 44.0 | 3.44 | 52.8 | 42.6 | 4.01 | 51.2 | 41.6 | 4.23 |
| | 71.6 | 86.0 | 62.1 | 47.2 | 2.94 | 60.8 | 46.6 | 3.49 | 57.9 | 45.0 | 4.07 | 56.2 | 43.9 | 4.28 |
| | 75.2 | 89.6 | 64.5 | 48.0 | 2.98 | 63.1 | 47.3 | 3.54 | 60.1 | 45.7 | 4.12 | 58.3 | 44.5 | 4.35 |
| 1824 | 57.2 | 68.0 | 42.2 | 35.7 | 2.80 | 41.3 | 35.4 | 3.32 | 39.3 | 34.4 | 3.88 | 38.2 | 33.7 | 4.08 |
| | 60.8 | 71.6 | 49.2 | 40.5 | 2.85 | 48.2 | 40.1 | 3.37 | 45.9 | 39.0 | 3.94 | 44.5 | 38.1 | 4.15 |
| | 64.4 | 77.0 | 54.9 | 44.1 | 2.89 | 53.7 | 43.6 | 3.43 | 51.2 | 42.3 | 4.00 | 49.7 | 41.3 | 4.21 |
| | 66.2 | 80.6 | 57.5 | 45.6 | 2.94 | 56.2 | 45.1 | 3.48 | 53.6 | 43.6 | 4.06 | 52.0 | 42.6 | 4.28 |
| | 71.6 | 86.0 | 63.1 | 48.4 | 2.98 | 61.7 | 47.7 | 3.53 | 58.8 | 46.1 | 4.12 | 57.1 | 45.0 | 4.33 |
| | 75.2 | 89.6 | 65.4 | 49.2 | 3.02 | 64.1 | 48.5 | 3.58 | 61.0 | 46.8 | 4.17 | 59.2 | 45.6 | 4.40 |

| Air Folw Rate | Indoor Air Temperature | | Outdoor Air Temperature (°FDB) | | | | | | | | | | | |
|---------------|------------------------|------|--------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | 104.0 | | | 109.4 | | | 115.0 | | | 125.0 | | |
| CFM | °FWB | °FDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 1471 | 57.2 | 68.0 | 35.1 | 30.7 | 4.26 | 33.9 | 29.9 | 4.40 | 33.0 | 29.5 | 5.06 | 30.6 | 28.5 | 5.16 |
| | 60.8 | 71.6 | 40.9 | 34.6 | 4.32 | 39.6 | 33.8 | 4.46 | 38.3 | 33.4 | 5.13 | 35.6 | 32.2 | 5.24 |
| | 64.4 | 77.0 | 45.6 | 37.5 | 4.39 | 44.1 | 36.5 | 4.53 | 43.1 | 36.2 | 5.20 | 39.9 | 34.9 | 5.31 |
| | 66.2 | 80.6 | 47.8 | 38.6 | 4.46 | 46.2 | 37.6 | 4.61 | 44.8 | 37.3 | 5.29 | 41.6 | 36.1 | 5.41 |
| | 71.6 | 86.0 | 52.4 | 40.7 | 4.52 | 50.7 | 39.6 | 4.67 | 49.3 | 39.4 | 5.37 | 45.7 | 38.1 | 5.48 |
| | 75.2 | 89.6 | 54.4 | 41.2 | 4.58 | 52.6 | 40.1 | 4.74 | 51.0 | 40.0 | 5.44 | 47.3 | 38.6 | 5.55 |
| 1647 | 57.2 | 68.0 | 36.2 | 32.2 | 4.29 | 35.0 | 31.4 | 4.43 | 34.1 | 31.0 | 5.10 | 31.6 | 29.9 | 5.21 |
| | 60.8 | 71.6 | 42.2 | 36.3 | 4.36 | 40.8 | 35.4 | 4.50 | 39.6 | 35.0 | 5.17 | 36.7 | 33.8 | 5.28 |
| | 64.4 | 77.0 | 47.1 | 39.3 | 4.42 | 45.6 | 38.3 | 4.57 | 44.5 | 38.0 | 5.24 | 41.2 | 36.7 | 5.35 |
| | 66.2 | 80.6 | 49.3 | 40.6 | 4.50 | 47.7 | 39.5 | 4.65 | 46.3 | 39.2 | 5.34 | 42.9 | 37.8 | 5.45 |
| | 71.6 | 86.0 | 54.1 | 42.7 | 4.56 | 52.3 | 41.6 | 4.71 | 50.9 | 41.4 | 5.41 | 47.2 | 39.9 | 5.52 |
| | 75.2 | 89.6 | 56.2 | 43.3 | 4.62 | 54.3 | 42.1 | 4.77 | 52.7 | 41.9 | 5.48 | 48.9 | 40.5 | 5.60 |
| 1824 | 57.2 | 68.0 | 36.7 | 33.0 | 4.34 | 35.5 | 32.2 | 4.49 | 34.6 | 31.7 | 5.16 | 32.1 | 30.6 | 5.27 |
| | 60.8 | 71.6 | 42.9 | 37.2 | 4.41 | 41.5 | 36.3 | 4.56 | 40.2 | 35.9 | 5.23 | 37.3 | 34.7 | 5.34 |
| | 64.4 | 77.0 | 47.8 | 40.3 | 4.48 | 46.3 | 39.2 | 4.62 | 45.1 | 38.9 | 5.30 | 41.9 | 37.6 | 5.42 |
| | 66.2 | 80.6 | 50.1 | 41.6 | 4.55 | 48.4 | 40.5 | 4.70 | 47.0 | 40.1 | 5.40 | 43.6 | 38.8 | 5.52 |
| | 71.6 | 86.0 | 54.9 | 43.8 | 4.61 | 53.1 | 42.6 | 4.76 | 51.6 | 42.4 | 5.47 | 47.9 | 40.9 | 5.59 |
| | 75.2 | 89.6 | 57.0 | 44.3 | 4.68 | 55.2 | 43.1 | 4.83 | 53.5 | 43.0 | 5.55 | 49.6 | 41.5 | 5.67 |

Dimensions

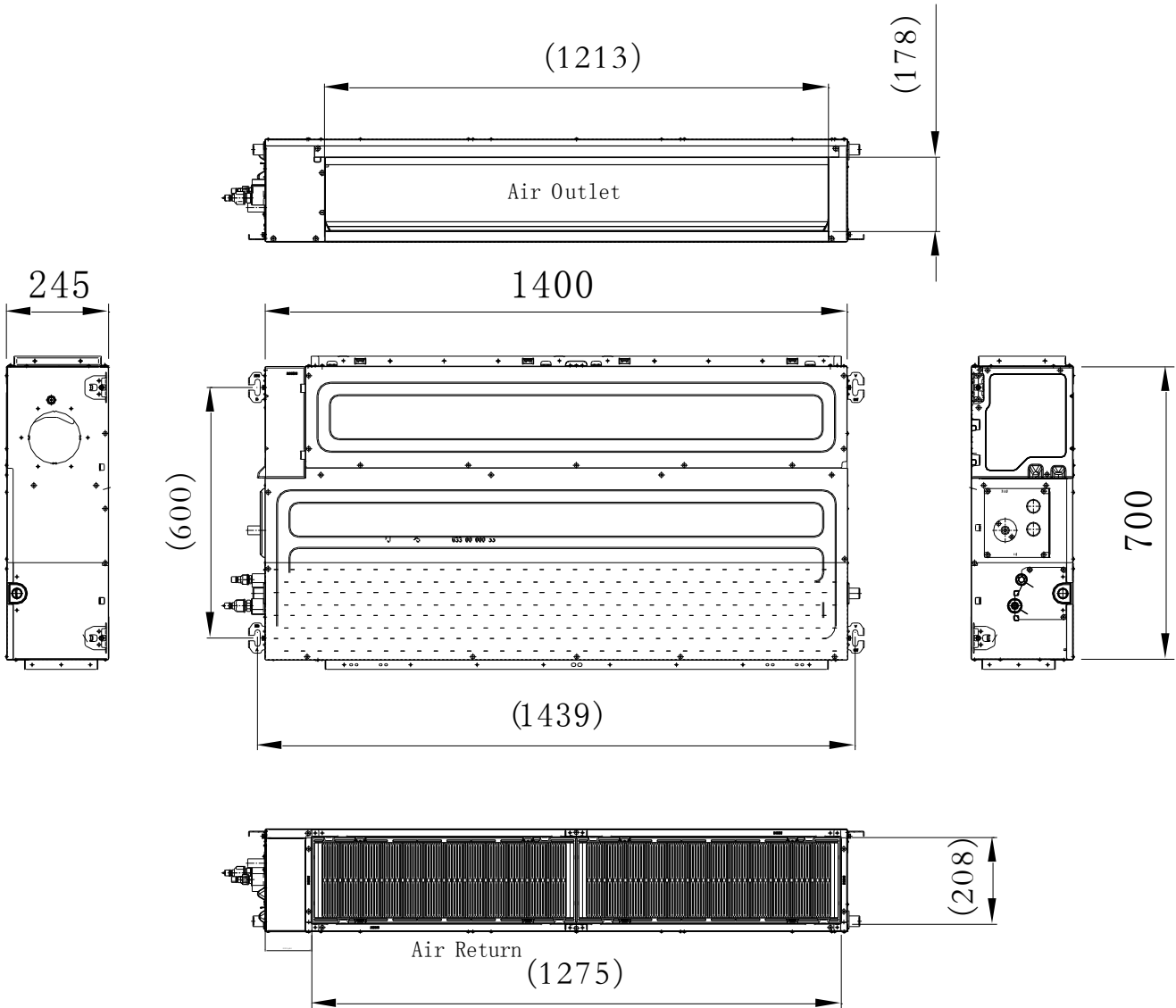
1. Duct

1.1 18K,24K



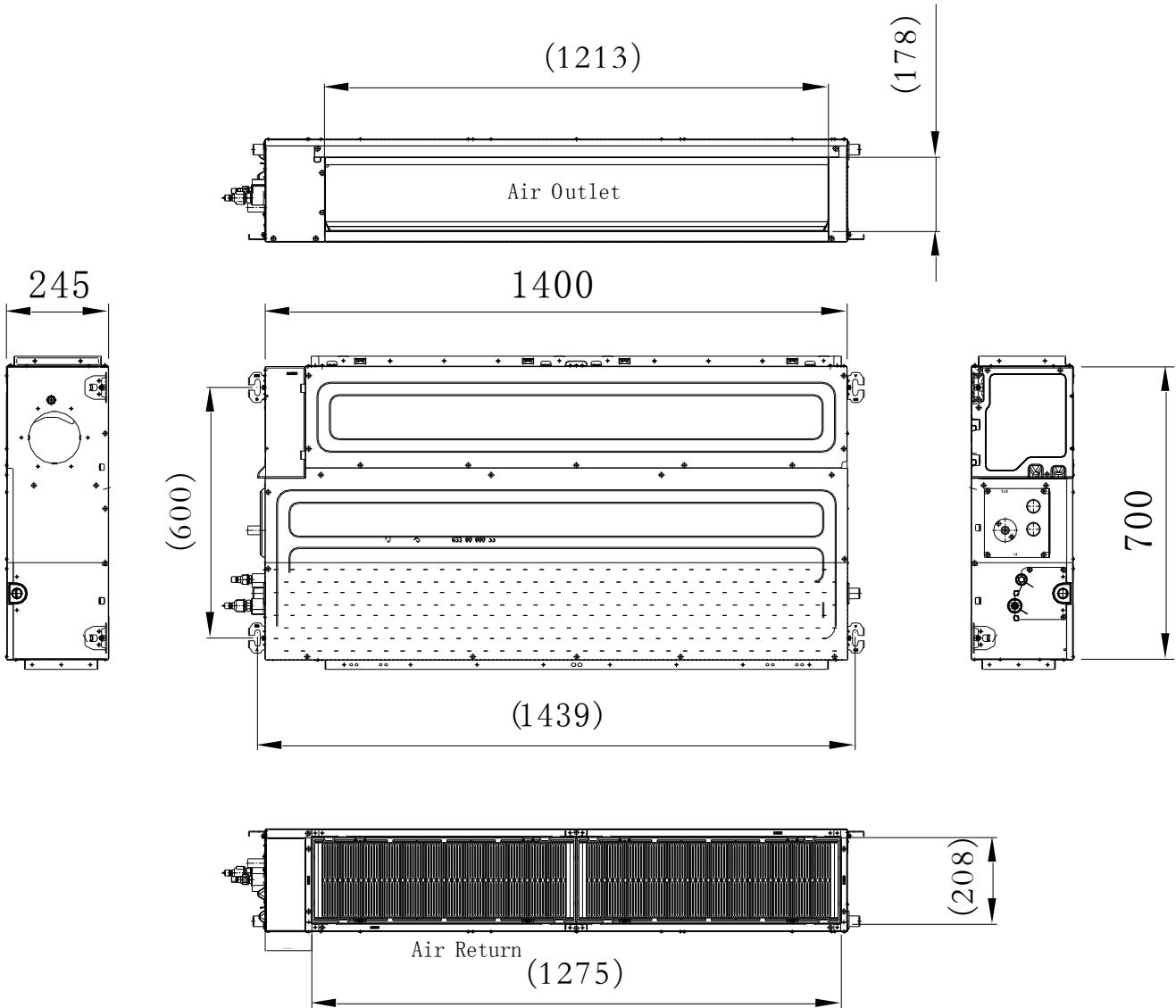
Dimensions

1.2 30K



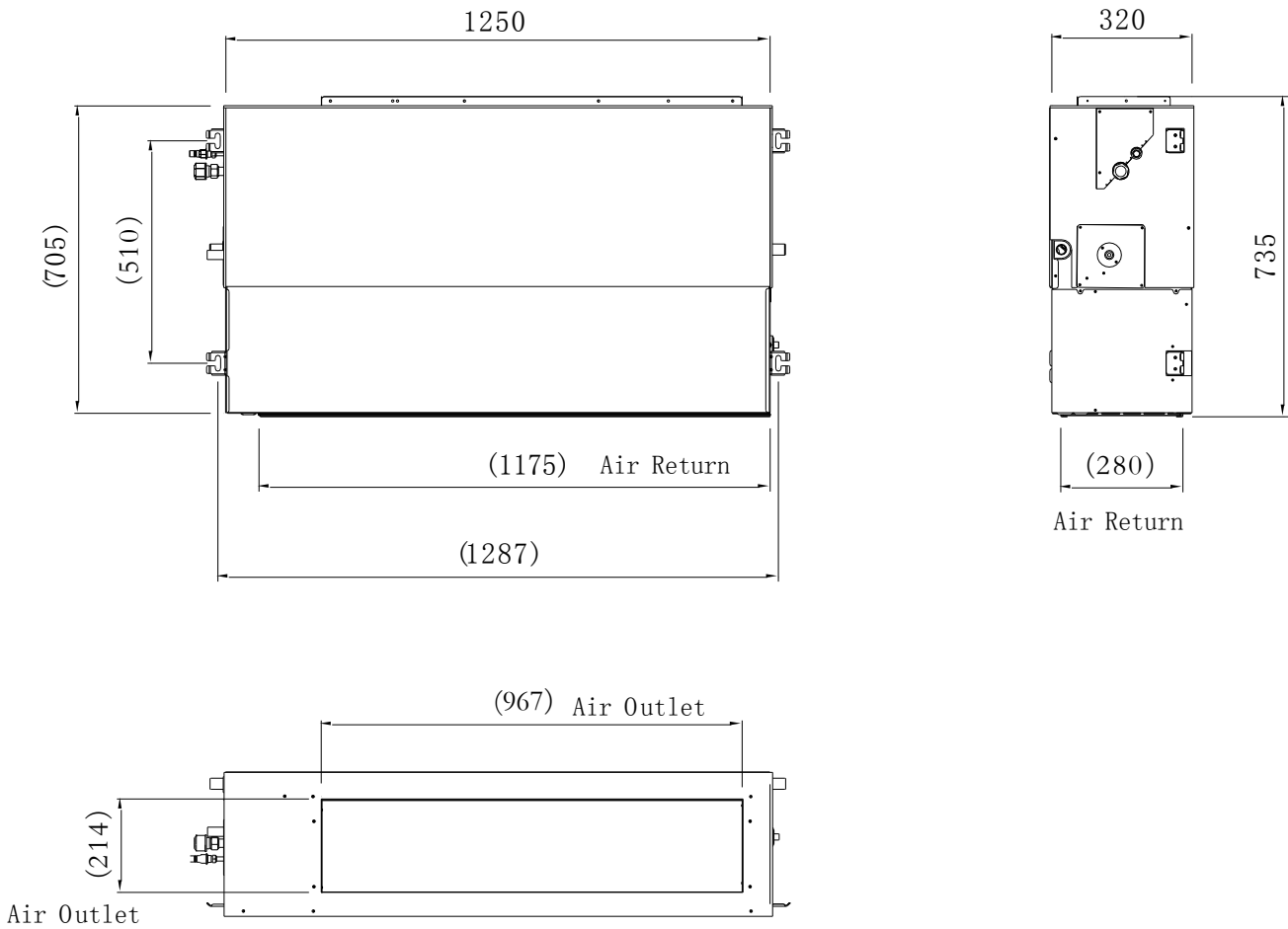
Dimensions

1.2 30K



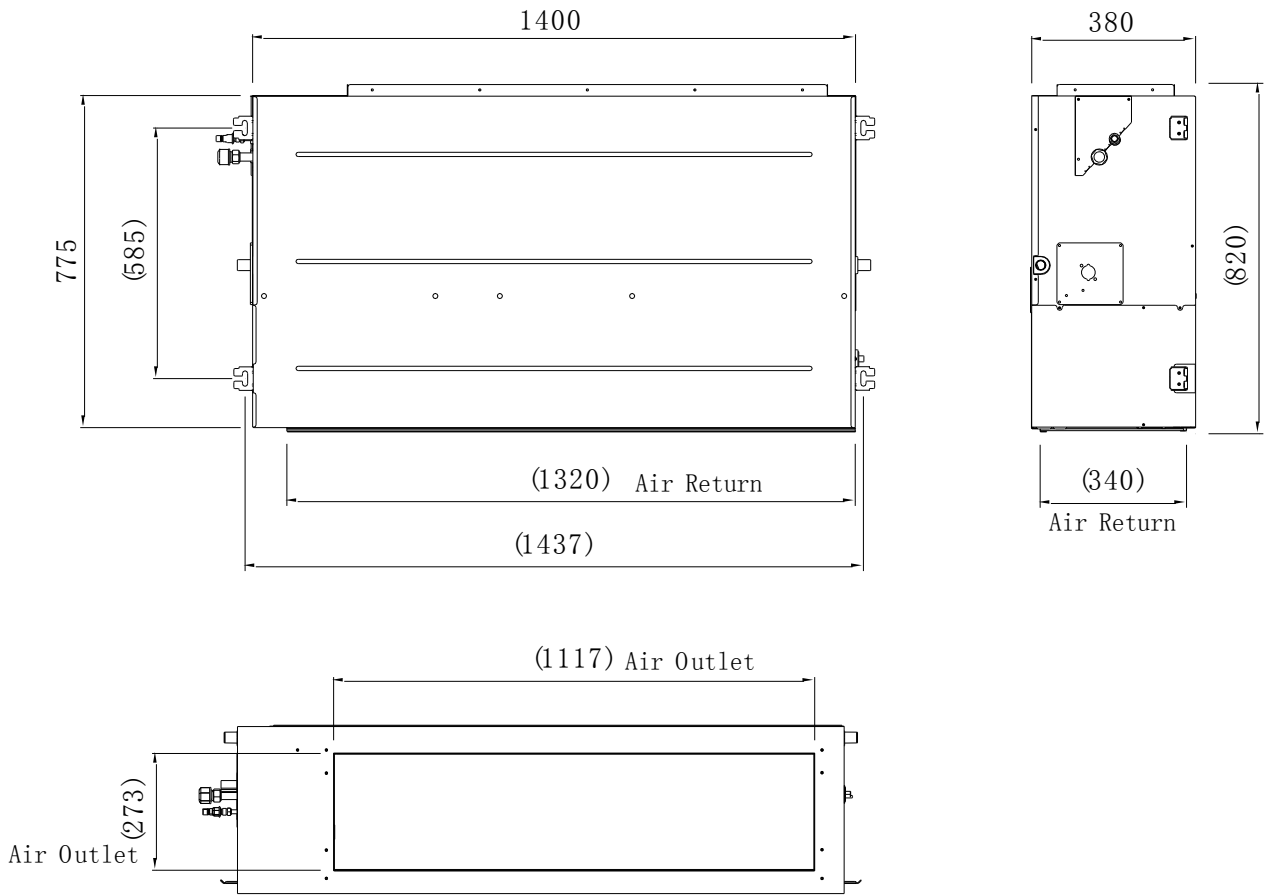
Dimensions

1.3 36K,42K-3N



Dimensions

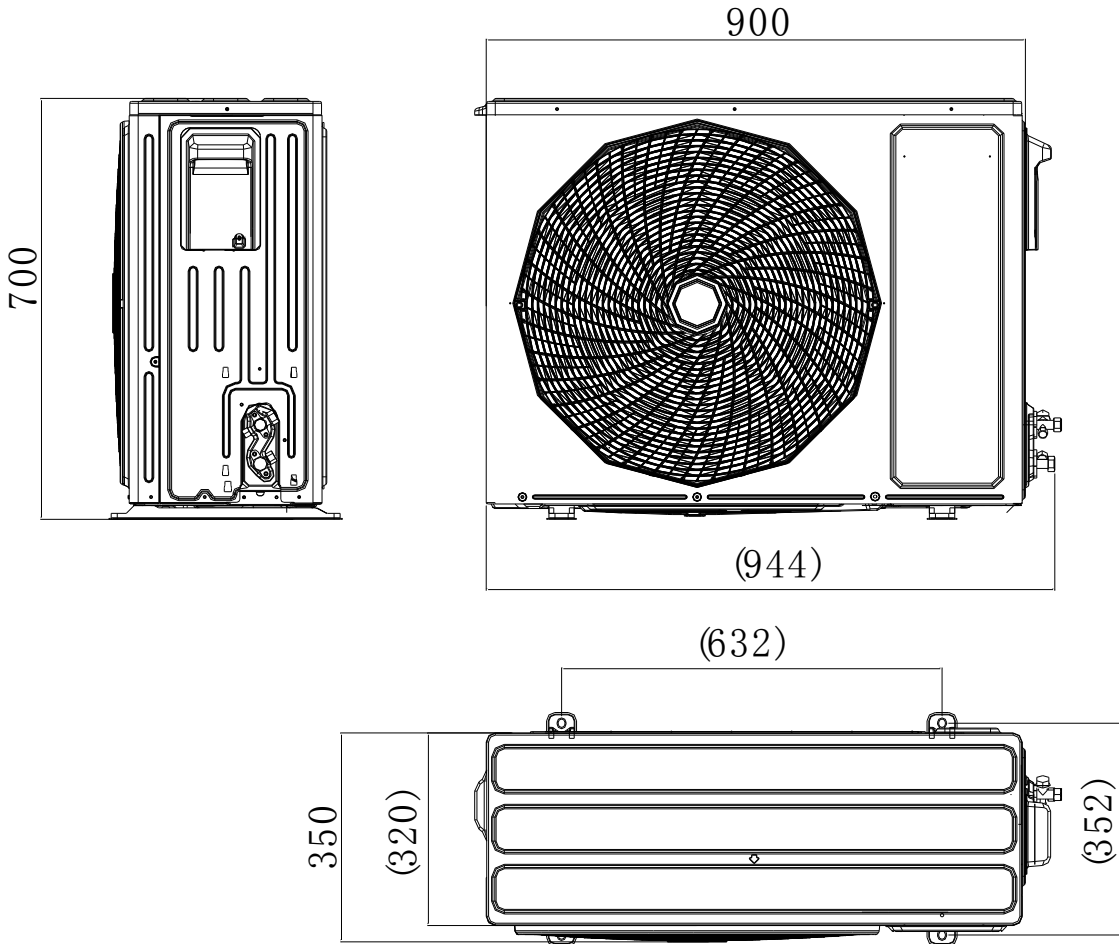
1.4 48K-3N,60K-3N



Dimensions

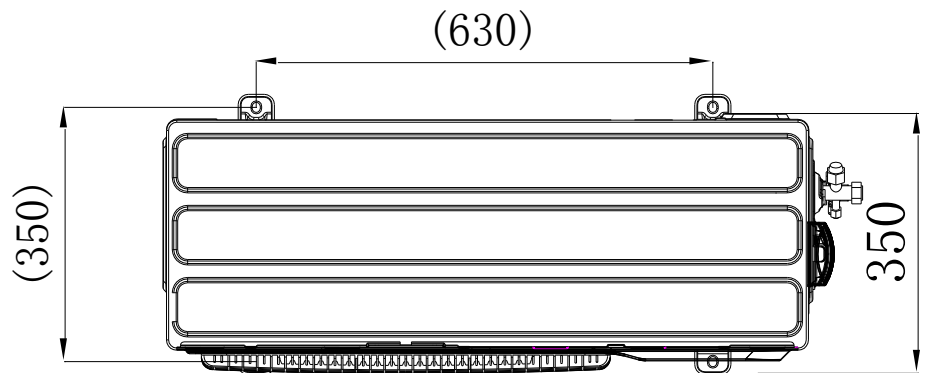
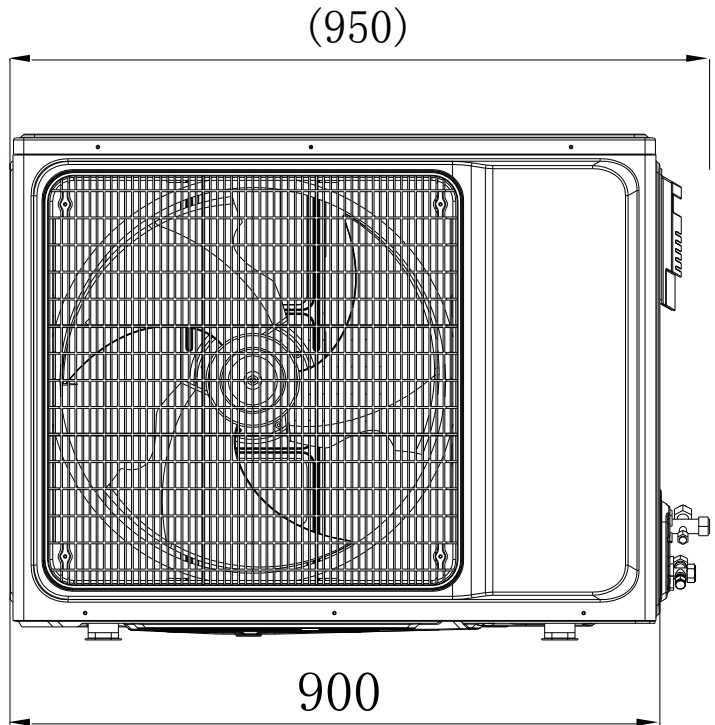
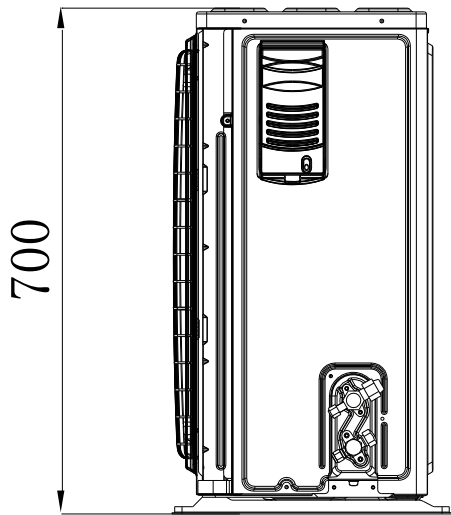
2. Outdoor Unit

2.1 18k,24k



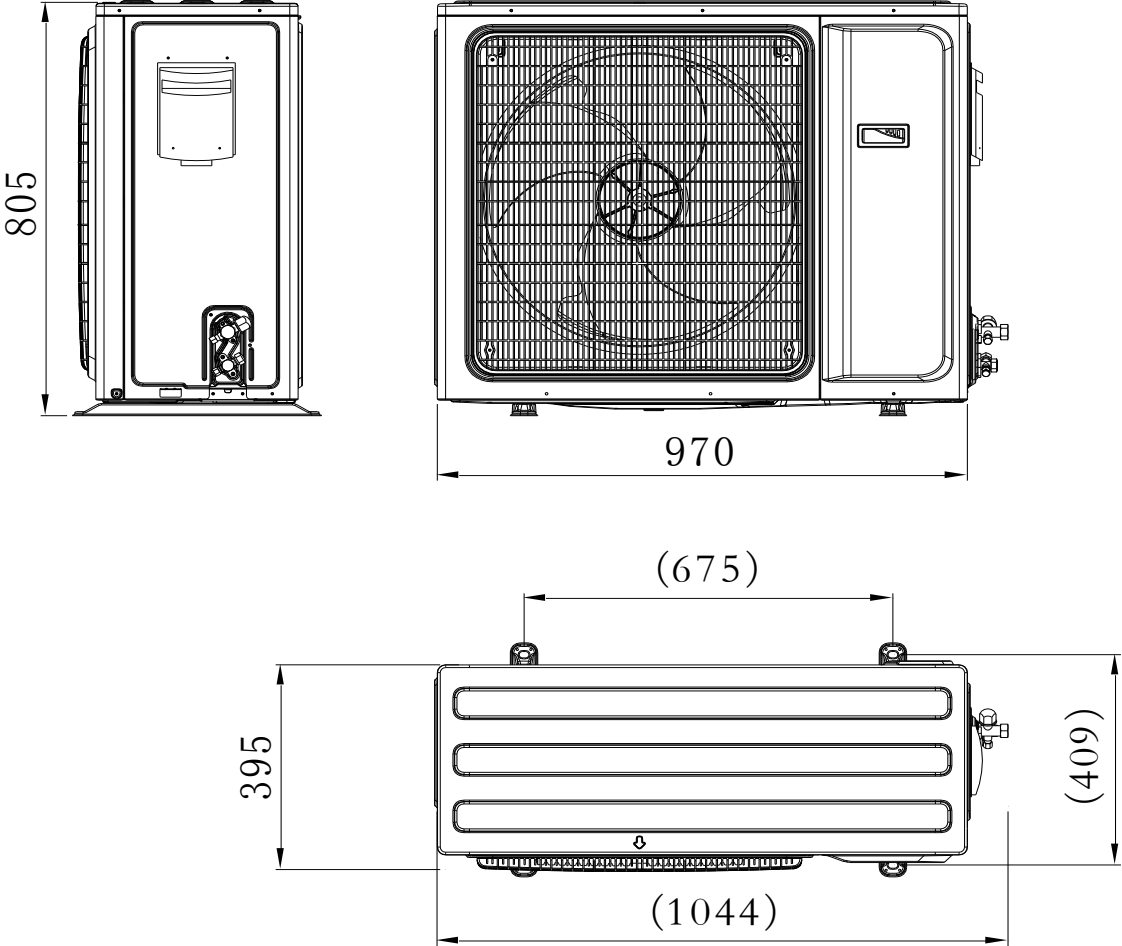
Dimensions

2.2 30K



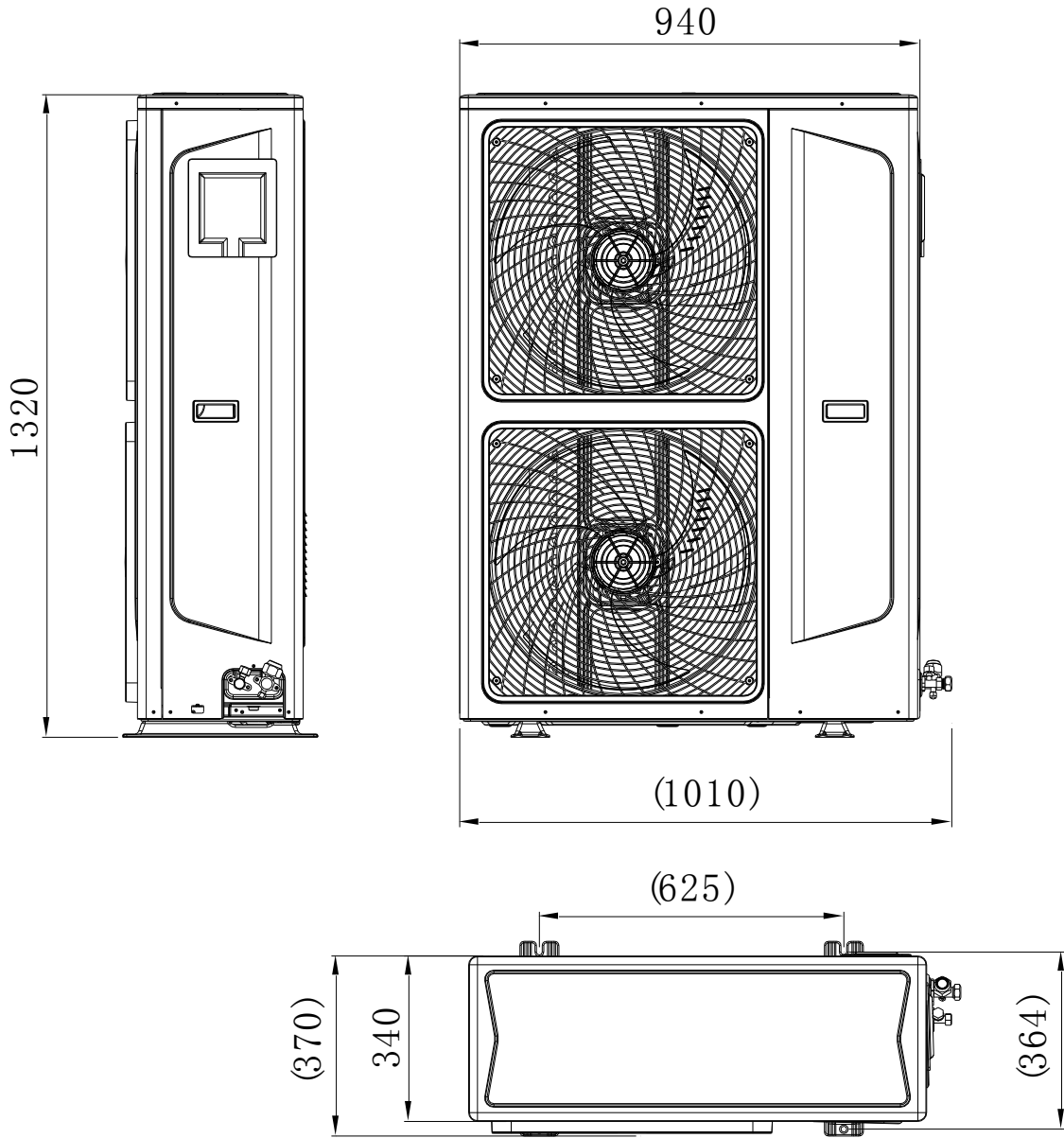
Dimensions

2.3 36k



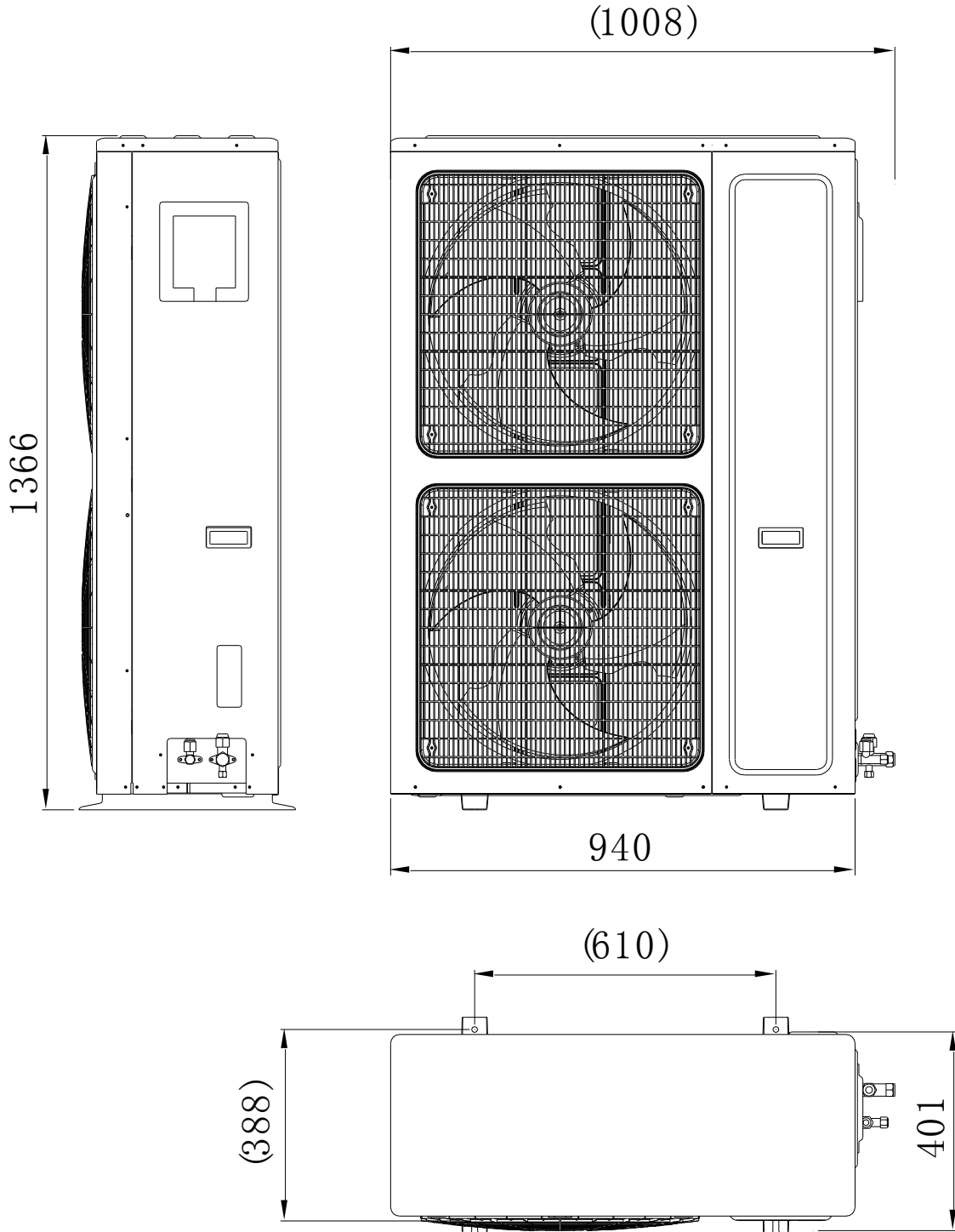
Dimensions

2.4 42K-3N,48K-3N



Dimensions

2.5 60K-3N

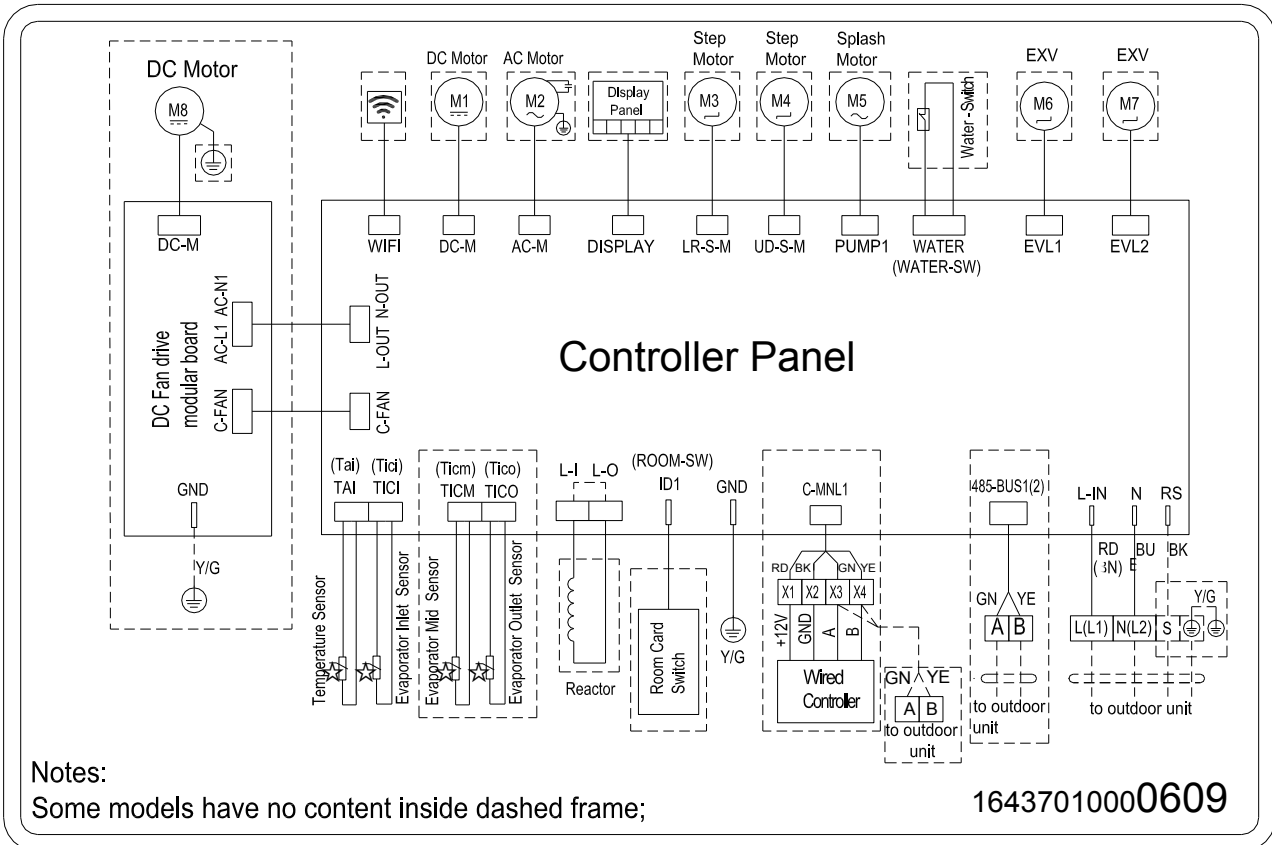


2.2 Outdoor Unit

Electrical Diagram

1. Duct

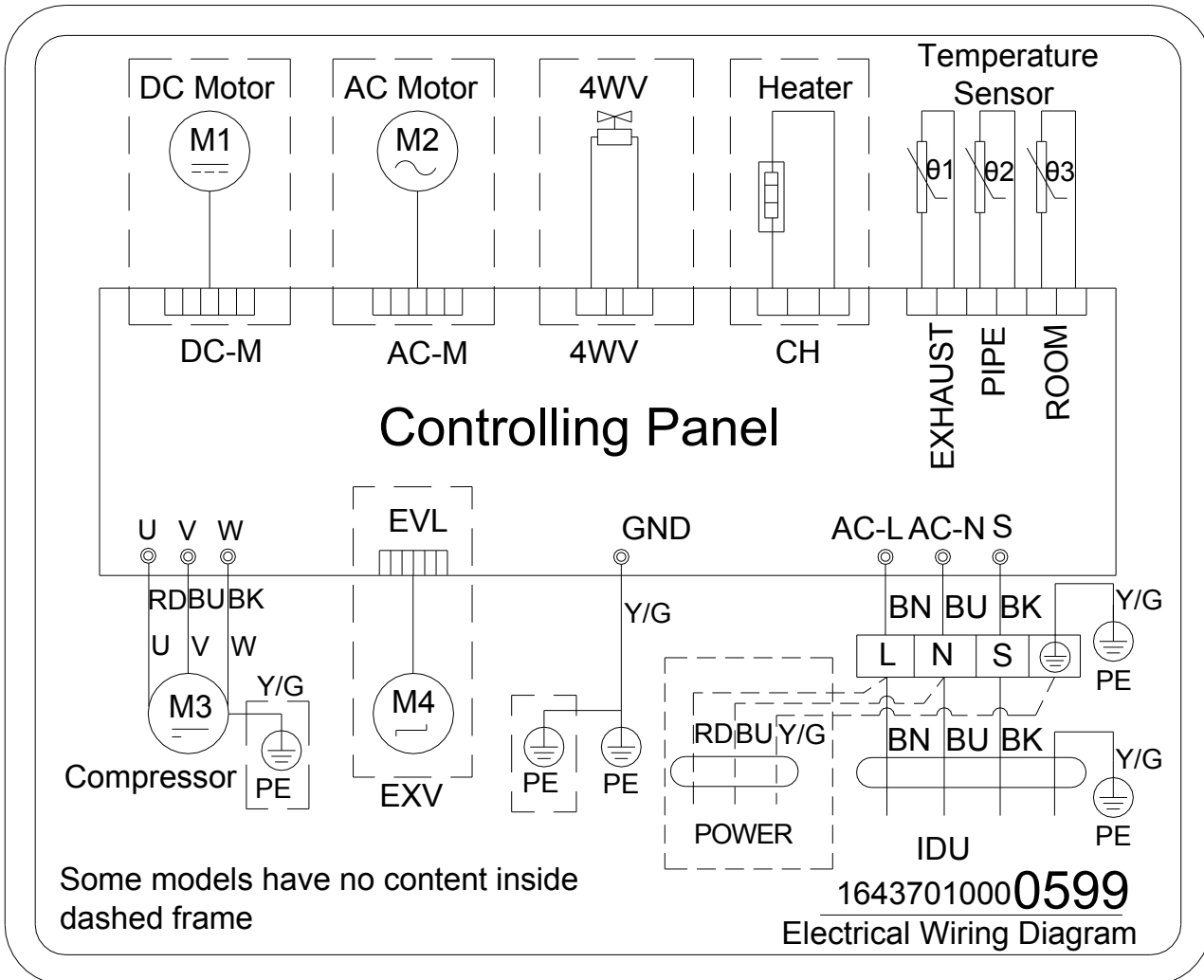
1.1 18k,24k,30k,36k,42k-3N,48k-3N,60k-3N



Electrical Diagram

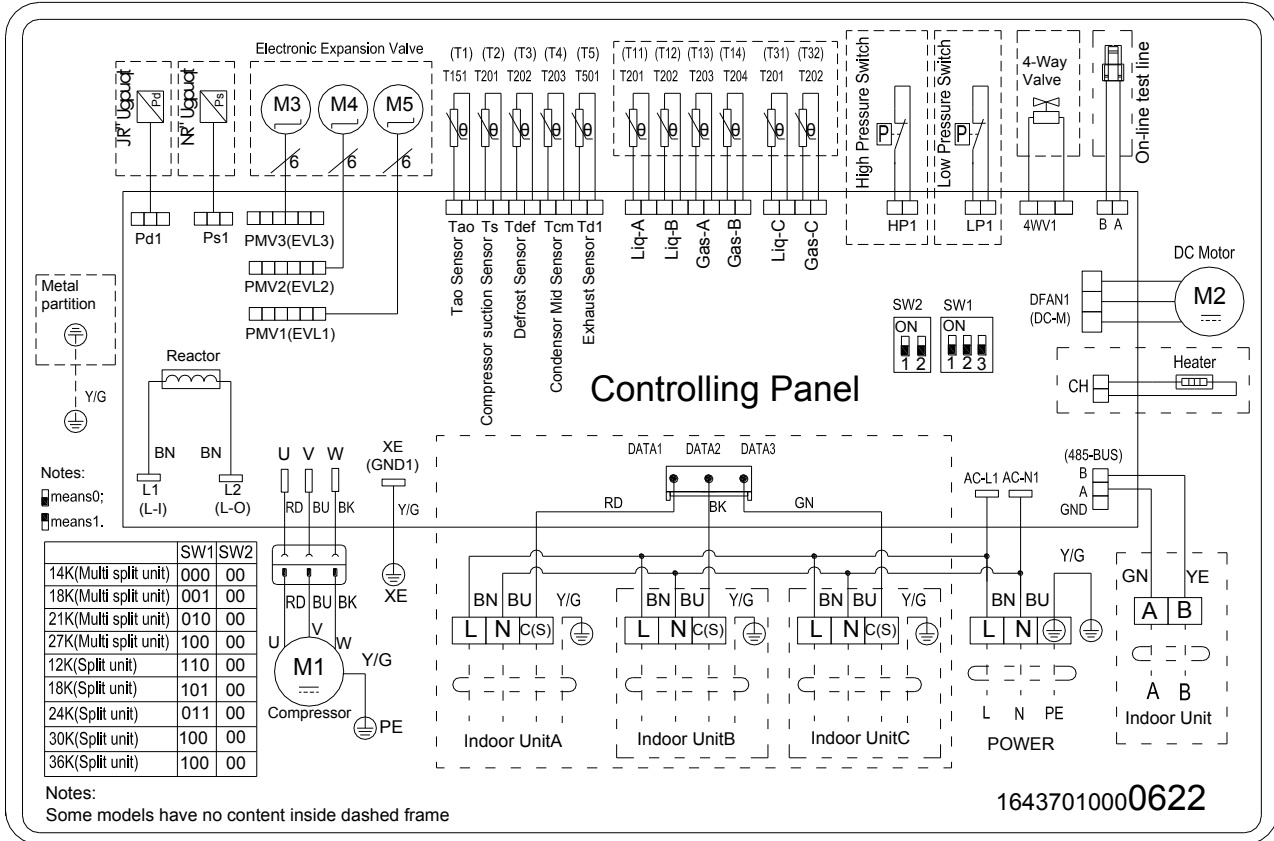
2 Outdoor Unit

2.1 18k,24k



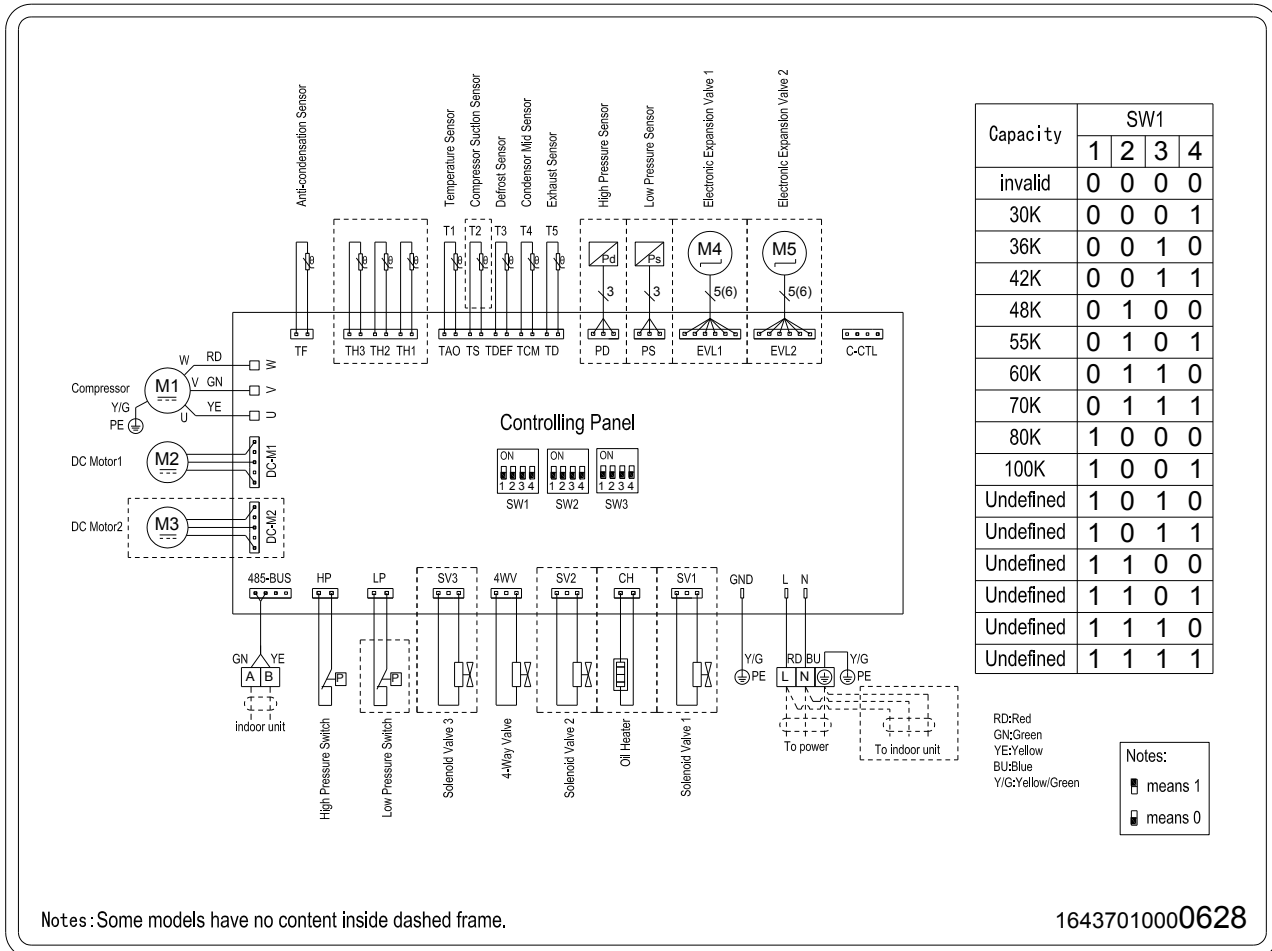
Electrical Diagram

2.2 30k



Electrical Diagram

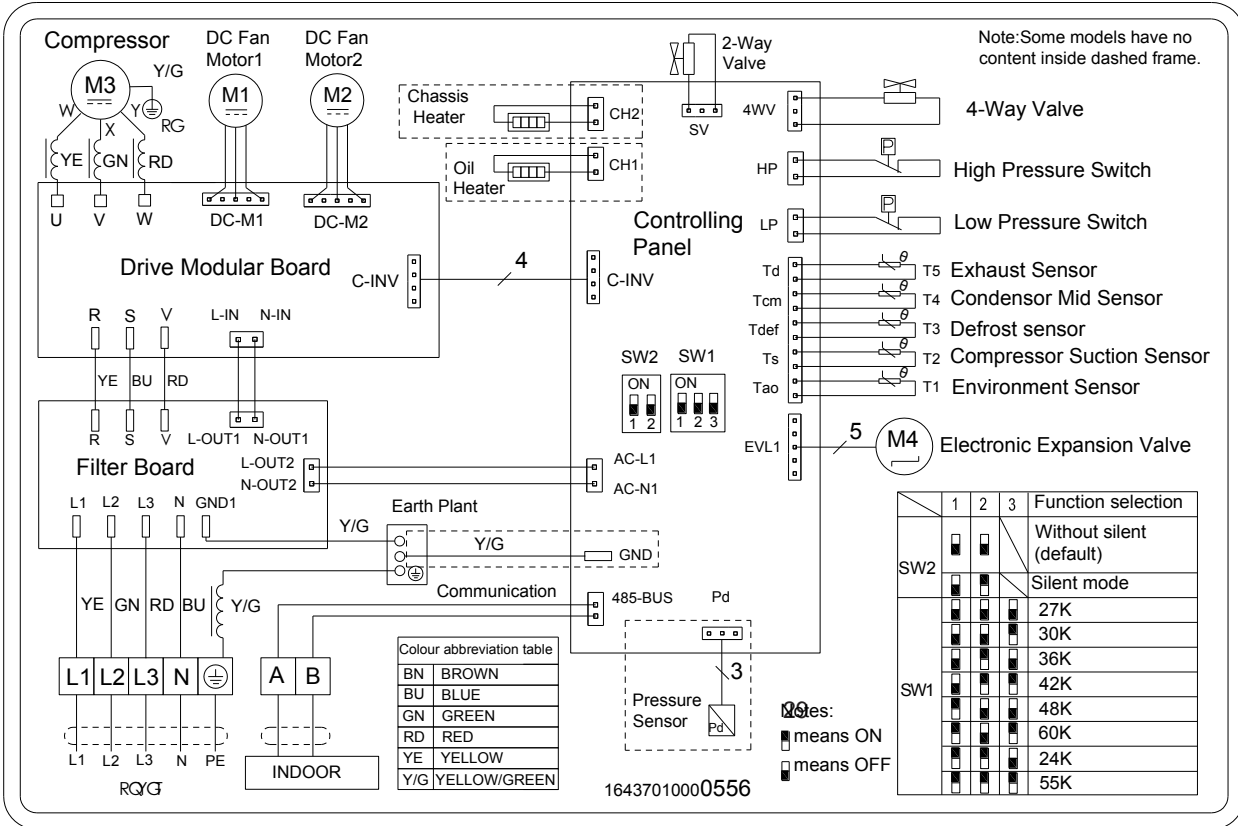
2.3 36k



1643701000628

Electrical Diagram

2.3 42k-3N, 48k-3N, 60k-3N



Capacity Amendment

1.Operation range

| Cooling capacity (KBtu/h) | | 18K | 24K | 30K | 36K | 42K | 48K | 60K |
|---------------------------|---------|-------------------|-----|-----|-----|-------------|-----|-----|
| Power supply | | 220-240V~/50/60Hz | | | | 50/60Hz,3Ph | | |
| Voltage | | 220~240V | | | | 380-415V~ | | |
| Ambient temperature | Cooling | 17~55℃ | | | | 17~55℃ | | |
| | Heating | -5~24 | | | | -5~24 | | |

2.Capacity amendment of different ambient temperature

2.1 Amendment coefficient of Cooling capacity under different indoor/outdoor DB/ WB temperature K1

| IDUtemp.℃ | | Outdoor air inlet DB temperature℃ | | | | | | | | | | |
|-----------|----|-----------------------------------|------|------|------|------|------|------|------|------|------|------|
| DB | WB | -10 | 0 | 10 | 16 | 25 | 30 | 35 | 40 | 43 | 48 | 52 |
| 23 | 16 | 1.19 | 1.12 | 1.08 | 1.05 | 1 | 0.95 | 0.90 | 0.87 | 0.85 | 0.82 | 0.77 |
| 25 | 18 | 1.26 | 1.19 | 1.12 | 1.08 | 1.05 | 1 | 0.95 | 0.90 | 0.87 | 0.85 | 0.82 |
| 27 | 19 | 1.28 | 1.26 | 1.19 | 1.12 | 1.08 | 1.05 | 1 | 0.95 | 0.90 | 0.87 | 0.85 |
| 28 | 20 | 1.30 | 1.28 | 1.26 | 1.19 | 1.12 | 1.08 | 1.05 | 1 | 0.95 | 0.90 | 0.87 |
| 30 | 22 | 1.33 | 1.30 | 1.28 | 1.26 | 1.19 | 1.12 | 1.08 | 1.05 | 1 | 0.95 | 0.90 |
| 32 | 24 | 1.5 | 1.33 | 1.30 | 1.28 | 1.26 | 1.19 | 1.12 | 1.08 | 1.05 | 1 | 0.95 |

Actual cooling capacity calculation:

Actual cooling capacity=amendment coefficient of cooling capacity × nominal cooling capacity

——Rated cooling capacity could be found from 【Part 4 Specification】

——Amendment coefficient of cooling capacity could be found from table above.

Capacity Amendment

2.2 Amendment coefficient of Heating capacity under different indoor/outdoor DB/ WB temperature **K2**

| IDU temp. °C | Outdoor air inlet DB temperature °C | | | | | | | | | |
|--------------|-------------------------------------|------|------|------|------|------|------|------|------|------|
| | DB | -15 | -10 | -5 | 0 | 7 | 10 | 15 | 20 | 24 |
| 16 | | 0.93 | 0.97 | 1 | 1.06 | 1.08 | 1.1 | 1.14 | 1.2 | 1.25 |
| 18 | | 0.87 | 0.93 | 0.97 | 1 | 1.06 | 1.08 | 1.1 | 1.14 | 1.2 |
| 20 | | 0.8 | 0.87 | 0.93 | 0.97 | 1 | 1.06 | 1.08 | 1.1 | 1.14 |
| 22 | | 0.71 | 0.8 | 0.87 | 0.93 | 0.97 | 1 | 1.06 | 1.08 | 1.1 |
| 24 | | 0.62 | 0.71 | 0.8 | 0.87 | 0.93 | 0.97 | 1 | 1.06 | 1.08 |

Actual heating capacity calculation:

Actual heating capacity = amendment coefficient of heating capacity × nominal heating capacity

—— Rated heating capacity could be found from **【Part 4 Specification】**

—— amendment coefficient of heating capacity could be found from table above.

Capacity Amendment

3.Long piping length

| Cooling capacity (KBtu/h) | | 18K | 24K | 30K | 36K | 42K | 48K | 60K |
|---------------------------|-------------|-------|--------|-----|-----|--------|-----|-----|
| Connection Pipe(mm) | Liquid pipe | Φ6.35 | Φ9.52 | | | Φ9.52 | | |
| | Gas pipe | Φ12.7 | Φ15.88 | | | Φ19.05 | | |
| Max.piping length(m) | | 30 | | | 50 | | | |
| Max.piping height(m) | | 20 | | | 30 | | | |
| Max.Bend Qty | | 5 | 8 | | 10 | | | |

Caution:

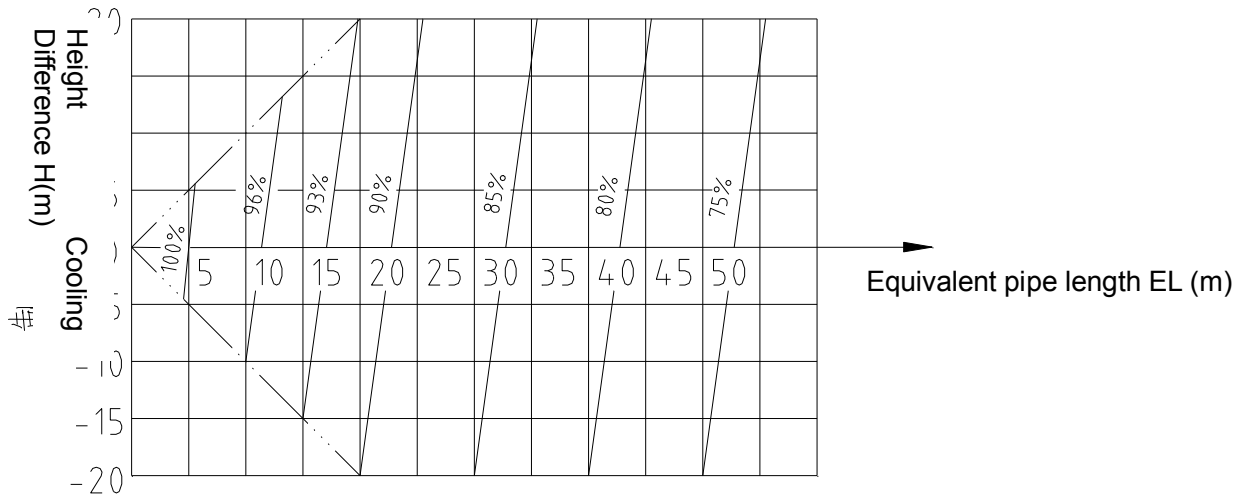
1. The standard Pipe length is 5m, if the pipe length is less than this then no additional charging is necessary. If the pipe length is more than this then you should charge more refrigerant into the system according to the above Charging Data
2. The thickness of the pipe is 0.6-1.0, bearing pressure is 4.2MPa;
3. If the connection pipe is too long, the cooling capacity and stability would be decreased. And the more bend quantity, the resistance in the piping system would be bigger, then the cooling and heating capacity would be decreased even lead to compressor broken. We suggest you to use the shortest connection pipe according to the pipe length parameter in this manual.If the height difference between outdoor and indoor unit is more than 5m, an oil trap should be installed in the gas pipe for every 10 meters.

Capacity Amendment

4. Capacity amendment of different piping length

4.1 Amendment coefficients of heating and cooling capacity under different height drop **K3**

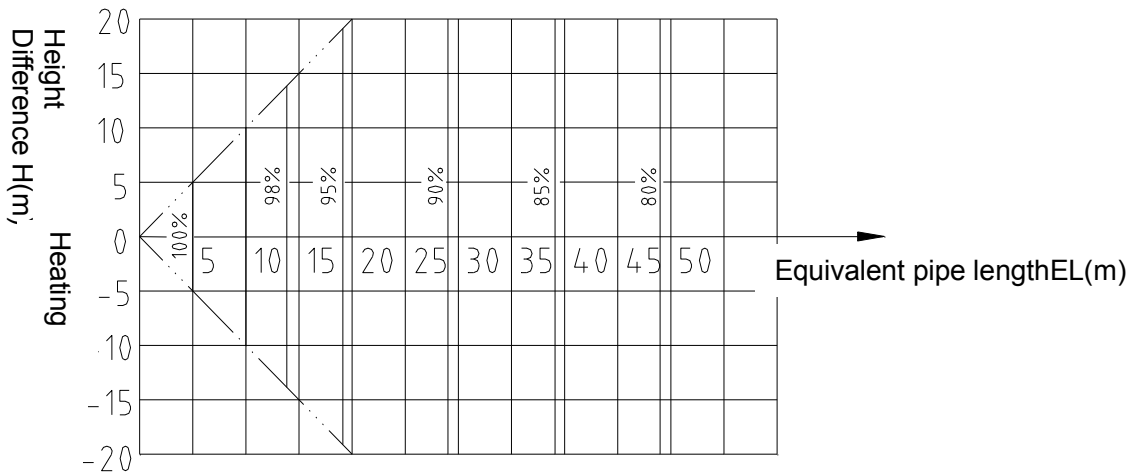
Different Cooling Capacity modified coefficients at different height:



Note:

H = Height of Outdoor Unit — Height of Indoor Unit

Different Heating Capacity modified coefficients at different height:



Note:

H = Height of Outdoor Unit — Height of Indoor Unit

4.2 Correction capability

Cooling capacity = Rated cooling capacity xK1xK3

Heating capacity = Rated heating capacity xK2xK3

Capacity Amendment

5. Equivalent Pipe length conversion

Equivalent pipe length means converting pipe elbow to straight pipe length after considering the pressure loss.

Bend and Oil Loop Conversion table

| Pipe Dia.(mm) \ Type | Bend (m) | Oil Loop(m) |
|----------------------|----------|-------------|
| 6.35 | 0.10 | 0.7 |
| 9.52 | 0.18 | 1.3 |
| 12.70 | 0.20 | 1.5 |
| 15.88 | 0.25 | 2.0 |
| 19.05 | 0.35 | 2.4 |
| 22.02 | 0.40 | 3.0 |

Equivalent Pipe length $L = \text{Actual Pipe length } L + \text{Bend Qty} \times \text{Equivalent pipe bend length} + \text{Oil Loop Qty} \times \text{Equivalent Oil Loop length}$

Sample:

ALCA-H42/5 Actual Pipe length is 25 meters, Gas pipe diameter is 15.88mm. If there's 5 bends and 2 oil loops during the installation, then the equivalent pipe length should be:

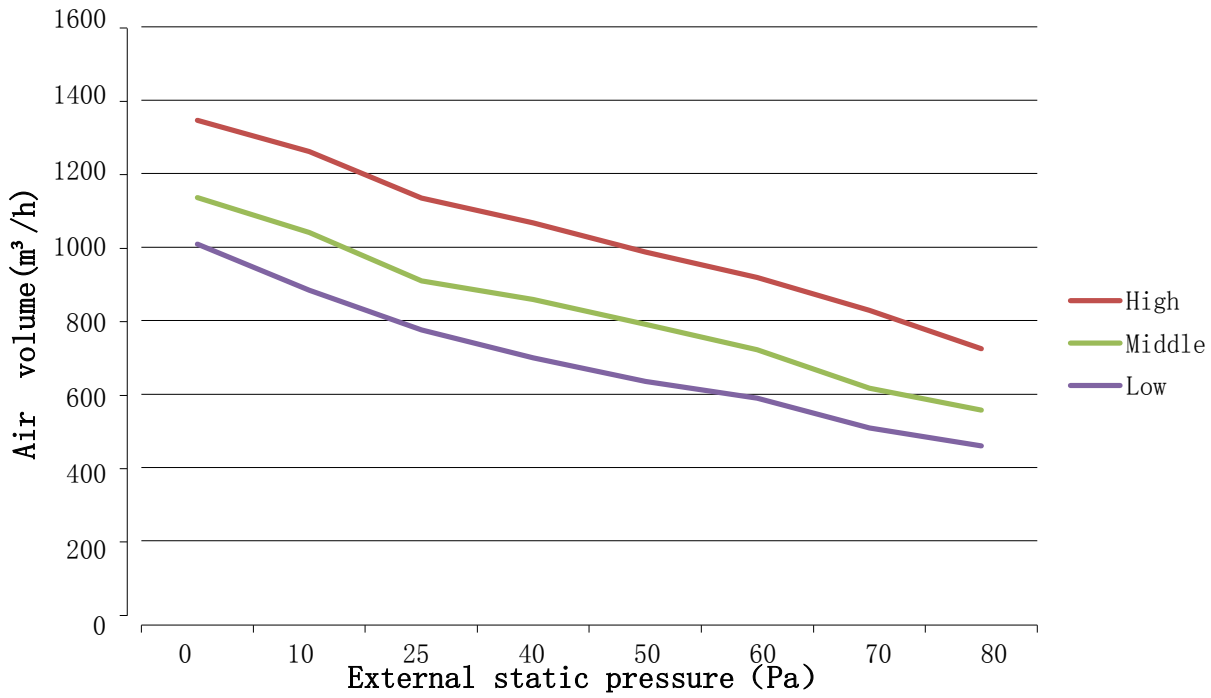
$$L = 25 + 0.25 \times 5 + 2.0 \times 2 = 30.25(\text{m})$$

Note:

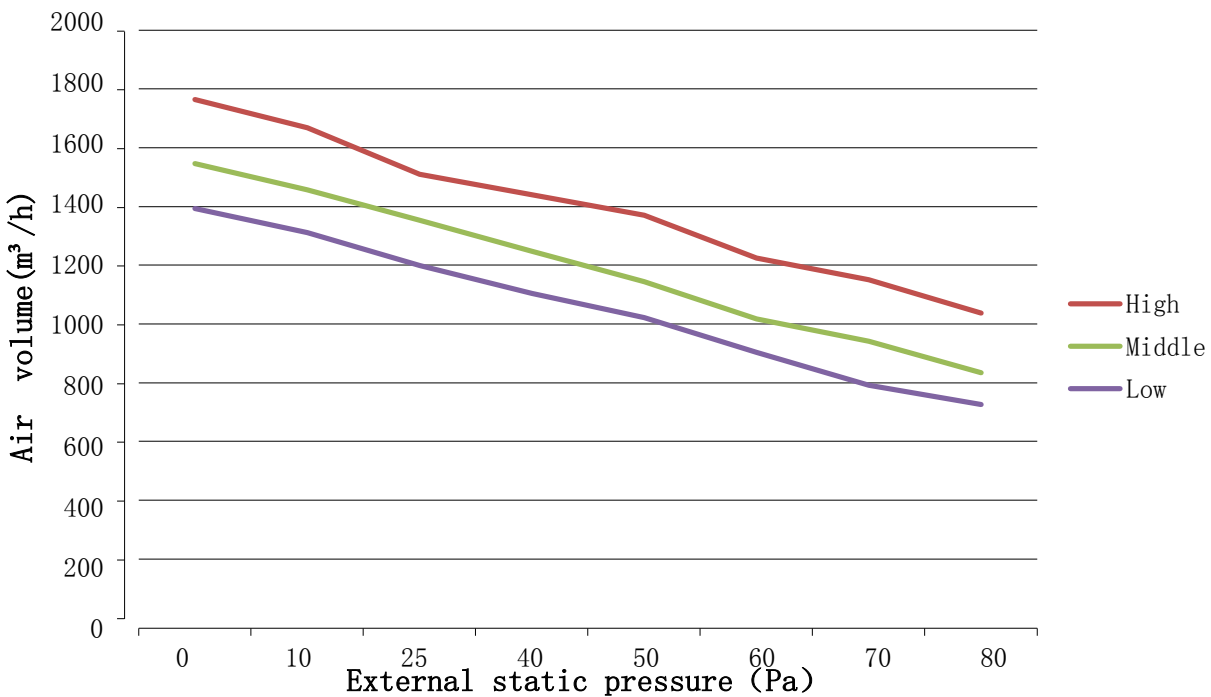
If there is a relatively level difference of indoor and outdoor unit, S-shaped oil trap must be installed every 8~10m for vertical pipe.

Static Pressure Curve

1. 18K

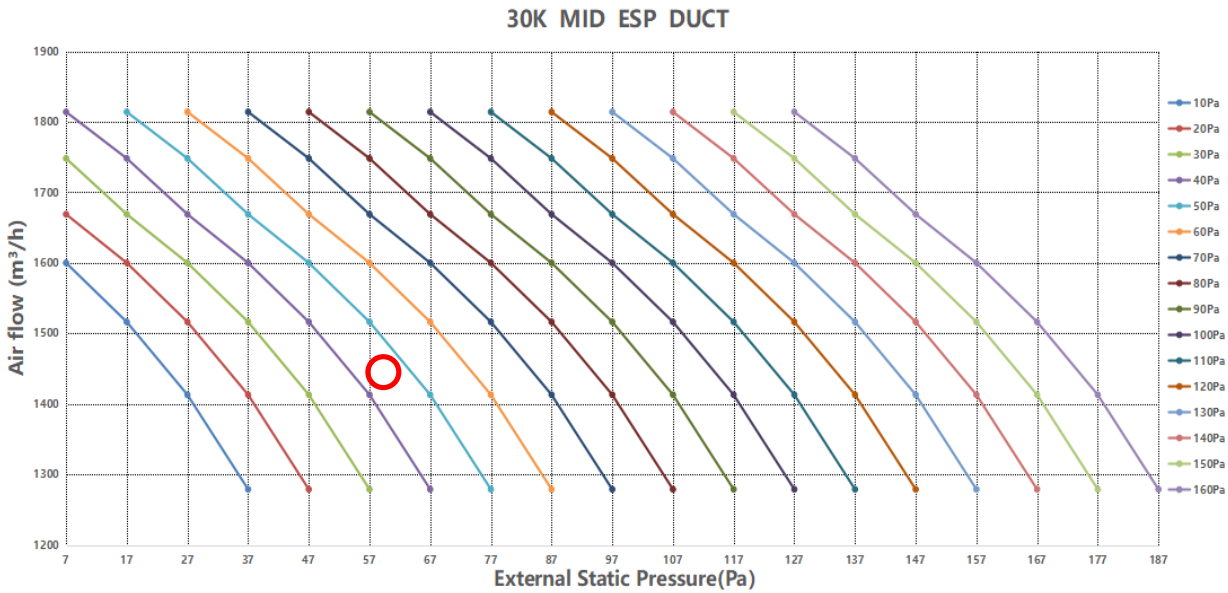


2. 24K

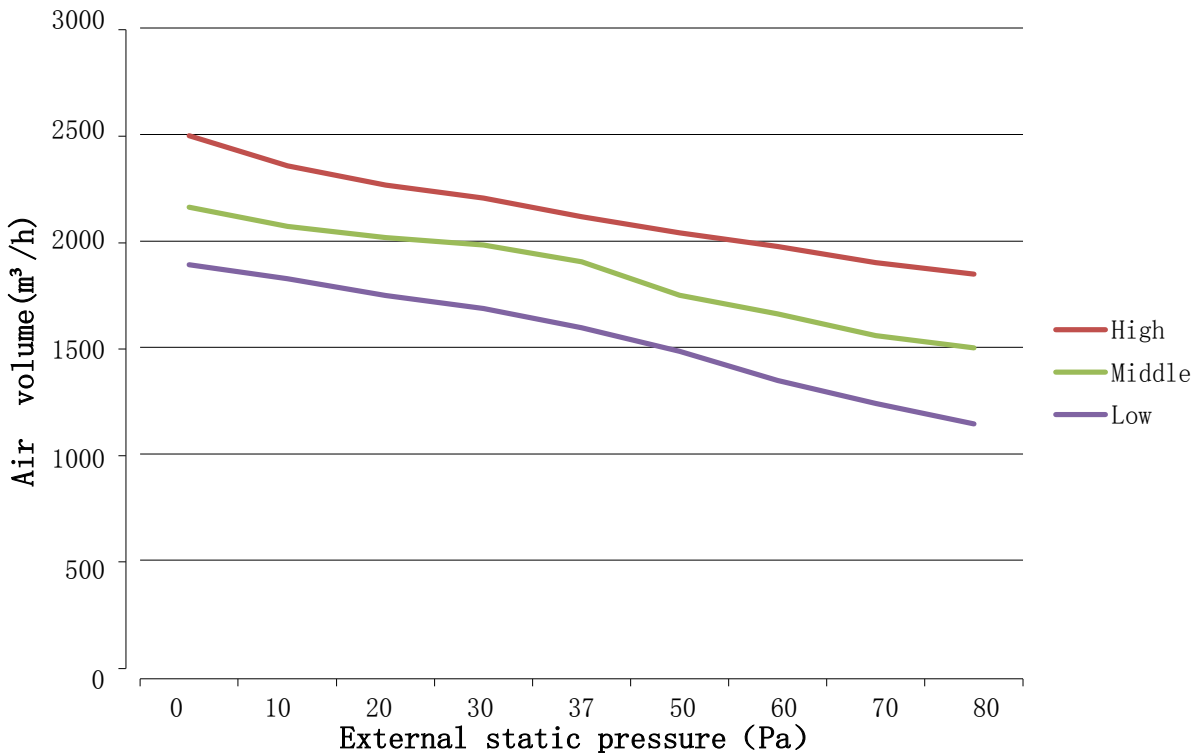


Static Pressure Curve

3. 30K

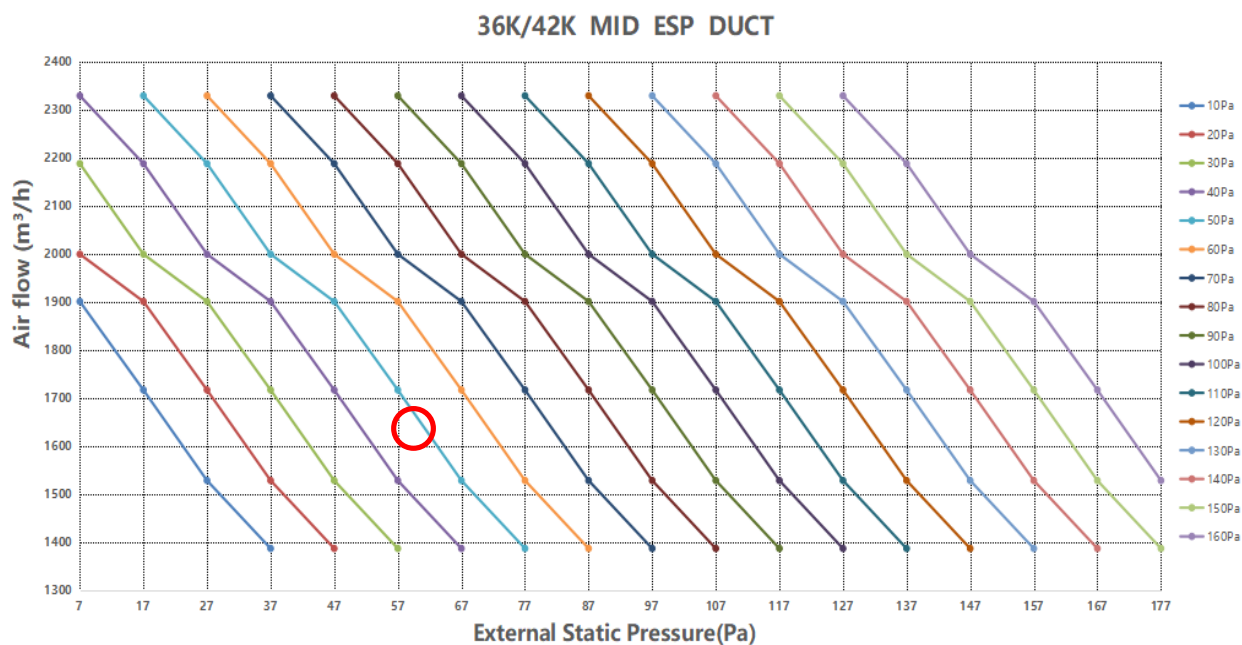


4. 36K

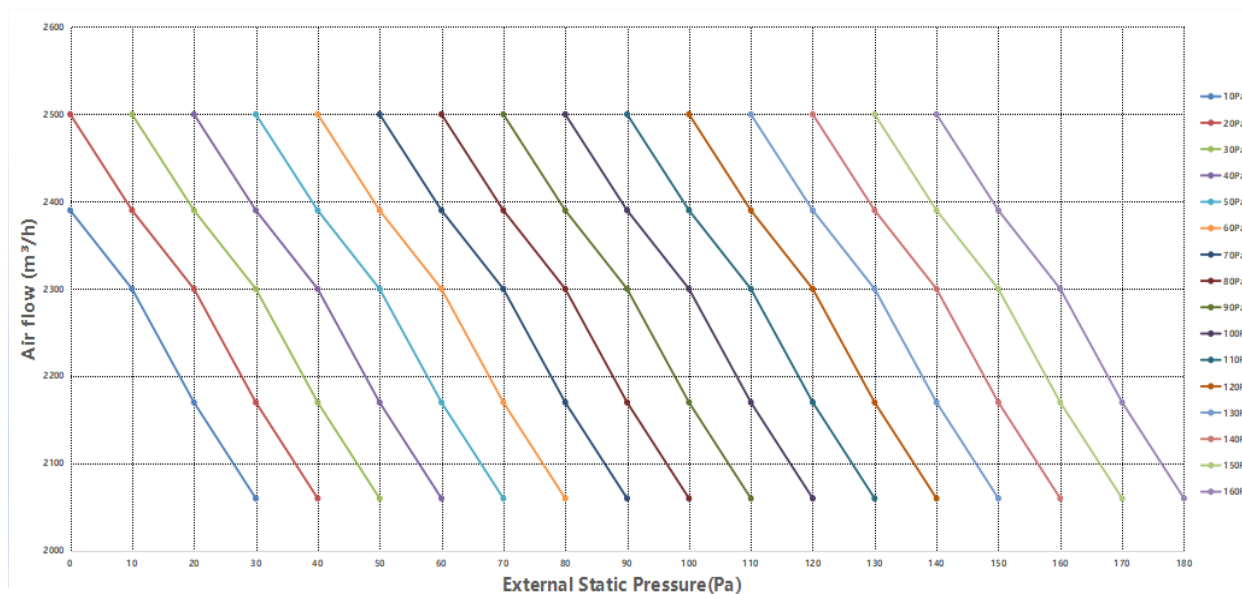


Static Pressure Curve

5. 42K-3N





6. 48K-3N/60K-3N

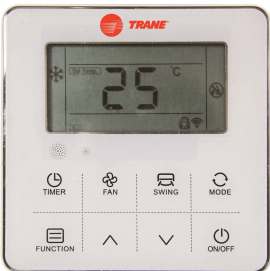


Control

1. Controller

| IDU type | Controller | |
|----------|---|--|
| | Standard | Optional |
| Duct |  |  |
| | XK05-DY(AUX)120 11222020000038 | XK-04 11222020000034 |

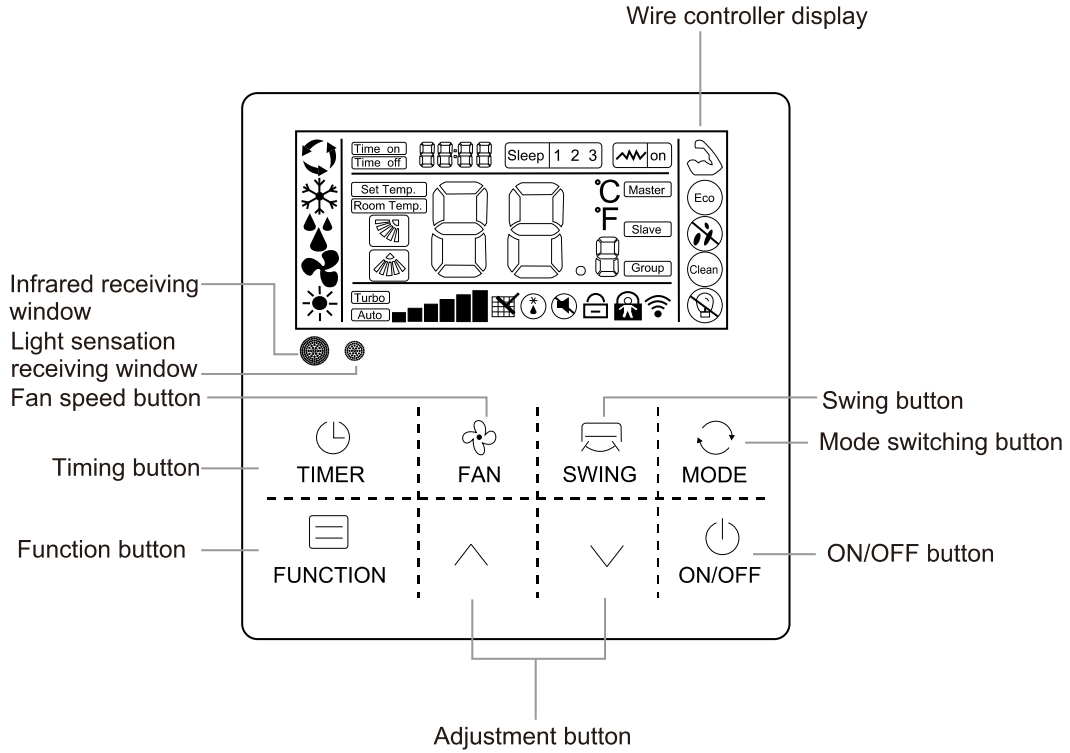
1.1 Wired Controller XK-05/XK-04

| XK-05 | Features |
|---|---|
|  | <p>Technical indicator</p> <ol style="list-style-type: none"> 1. Power source:voltage DC 12V; 2. Work temperature range of PCB:(-10~+70)°C; 3. Work humidity range of PCB:RH20%~RH90%; 4. Button: Touch button 5.Dimensions(W*H*D):120*120*20mm |
| | <p>Main functions</p> <ol style="list-style-type: none"> 1. 8-keytouch button input 2. Buzzer prompt tone function 3. LCD+ white backlight 4. Display the failure of main controller 5. Ambient temperature detection sensor 6. Receive the signal of wireless remote controller |

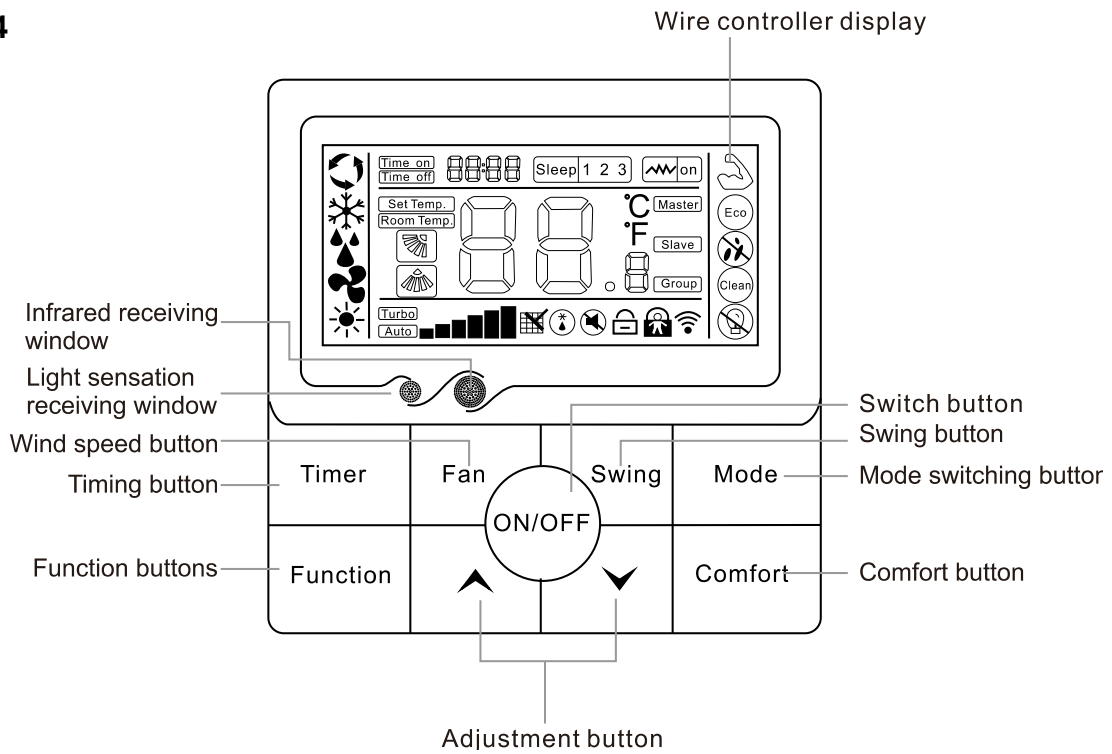
2.2 Outdoor Unit

Control

XK-05



XK-04





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