

RX+DDP (05)

Ducted Mini Split System



50Hz

R-410A
REFRIGERANT



1.5 TR to 5 TR
(5.3 kW to 18 kW)



علامة الجودة الإماراتية
Emirates Quality Mark



EWA
هيئة الكهرباء والماء
Electricity & Water Authority
Kingdom of Bahrain



شهادة المطابقة الخليجية

Made in UAE صنع في الامارات

Contents

| | | | |
|---------------------------|---|---|----|
| Introduction..... | 2 | Thermostat | 10 |
| Legend..... | 2 | Fan Performance..... | 10 |
| Nomenclature | 3 | Recommended Suction and Liquid Line length..... | 13 |
| Features | 4 | Typical Wiring Diagram..... | 14 |
| Specification | 5 | Dimensional Data | 18 |
| Combination Ratings | 7 | Guide Specification..... | 22 |
| Electrical Data | 9 | | |
| Operation Range | 9 | | |

Legend

The following legends are used throughout this manual:

| | |
|-------------------------------------|---|
| AFR Air Flow Rate | EER..... Energy Efficiency Ratio |
| cfm Cubic feet per minute | lbs Pounds weight (British units) |
| dB Decibels | l/s Liters per second |
| DB Dry Bulb Temperature | Mbh 1000 Btuh |
| WB Wet Bulb Temperature | OD Outside Diameter |
| Hz Hertz | Ph Phase |
| kW Kilowatts | Pa Pascals |
| kg Kilograms | SC Sensible Capacity |
| kPa Kilo Pascals | TC Total Capacity |
| PSI..... Pounds Per Square Inch | TR Tons of refrigeration = 12 MBH |
| COP..... Coefficient of Performance | V Volts |



SKM reserves the right to change, in part or in whole the specifications of its Air Conditioning Equipment at any time in order to add the latest technology. Therefore, the enclosed information may change without any prior notice.

Introduction

The Ducted Split system from SKM consists of RX (a high efficiency - Side Discharge Air Cooled Condensing Unit); matching with DDP (a low noise, ceiling suspended indoor fan coil unit).

This split systems are ideally suited for apartments, houses, offices, shops, small residences, and in small commercial establishments.

SKM ducted split system are available in different models covering 1.5 TR to 5 TR (5.3 kW to 18 kW) at nominal AHRI condition, which make them ideally suited for a very small foot print for space saving and a pleasant exterior appearance.

SKM ducted split system are designed in accordance with G.C.C regulations. SKM ducted split system are designed to conform to ASHRAE-15, AHRI 340/360 standard, AHRI 210, ESMA, QCC, QSASO, EWA and G-Mark standards.

SKM ducted split units are suitable to operate in a wide range of ambient temperature. (Minimum outdoor operating ambient in cooling mode is 63°F (17°C), maximum is 131°F (55°C).

SKM ducted split units are internally wired and all that required to be done on site is ducting, refrigerant piping, power supply and suitable room thermostat installation and field wiring, which reduces the installation work and consequently keeps to a minimum cost.

SKM ducted split units are made in UAE and SKM provides qualified service and stock of replacement parts in all major cities of the G.C.C. countries, Egypt, Jordan, and Pakistan.

S.K.M Air Conditioning LLC

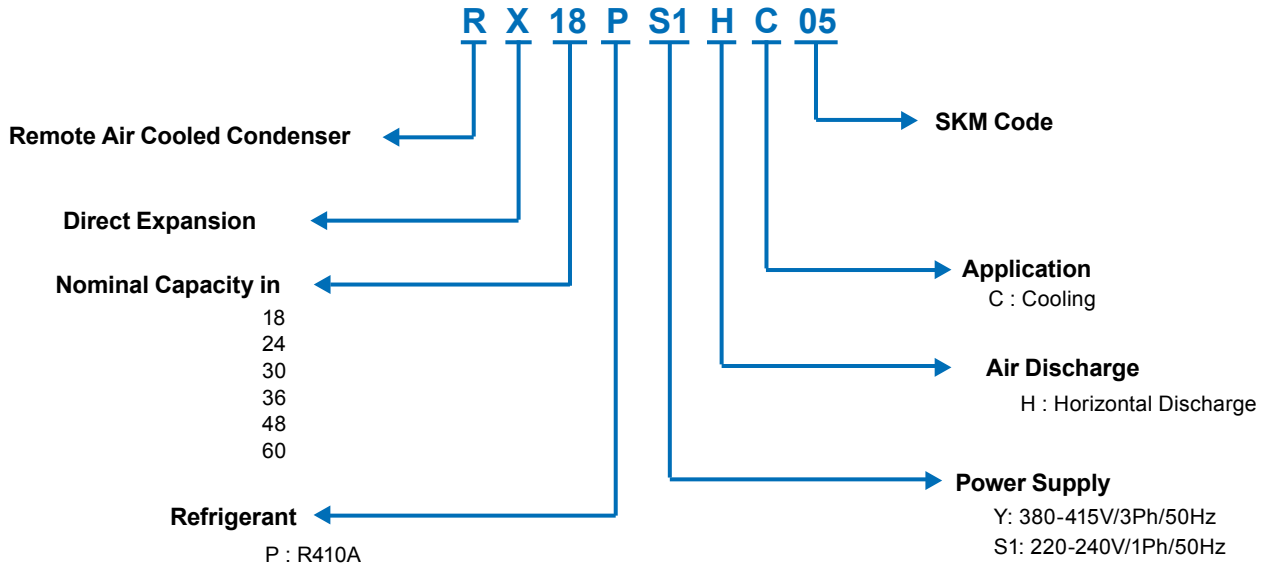


You name it.... We cool it

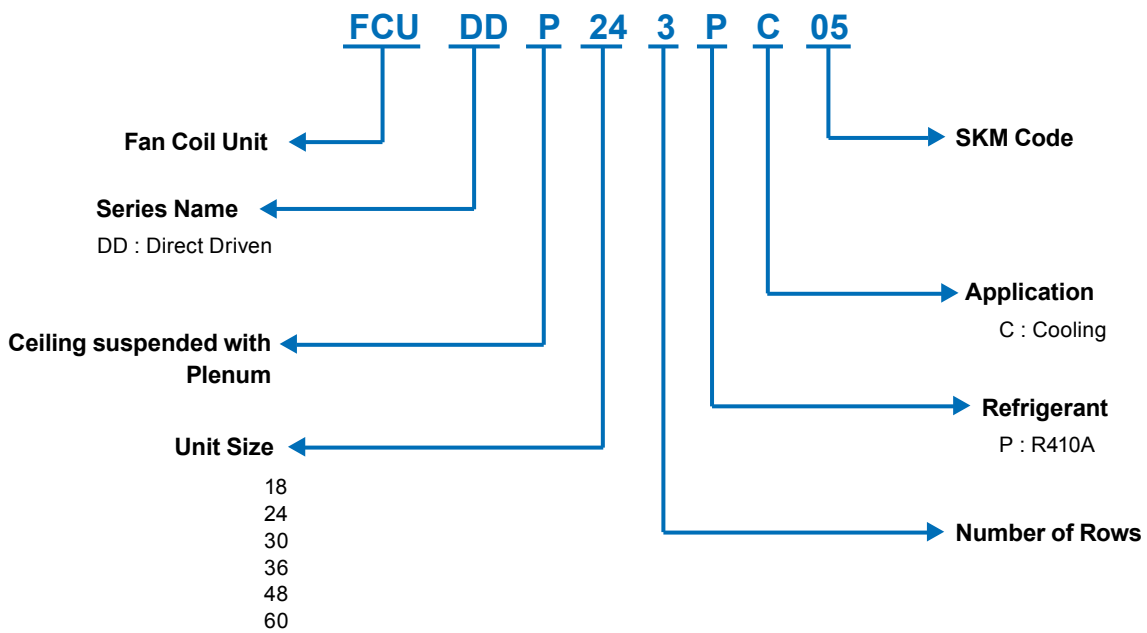


Nomenclature

Ducted Mini Split Nomenclature Outdoor



Ducted Mini Split Nomenclature Indoor



Features

Outdoor Unit Design Features: (Air Cooled units up to 5 Tons of Refrigeration)

- **High Efficiency Hydrophilic Aluminum Fins**

As with all SKM air conditioning units, the RX-DDP Series Outdoor Units are available with Pre Coated Blue Aluminum Fins for the Condenser Coil as a Standard feature.

- **Cooling at High Ambient Temperature**

Enjoy excellent performance even under High ambient temperature up to (55°C).



- **Double Anti-Corrosion**

The housing of outdoor unit is made of galvanized metal, then enhance its corrosion resistance through the powder spraying technology, which can improve its Anti-Corrosion ability 3 times in coastal regions.

- **Auto-restart Function**

Recover the former operation state when power is restored, no need to restart the unit manually.

- **System Protection**

The unit have high and low pressure protection, High temperature protection, Compressor overloading protection, phase sequence protection.



Indoor Unit Design Features

- **Flexible Air Intake**

Air intake from rear as standard, from bottom as optional. The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirement.

- **Service Friendly Design**

Both left and right side drainage pipe connection are available, service friendly.

- **Many sections Filter**

The filter is make up of many sections, it helps us easy to disassembly and easy to clean.



Standard Features



Wired Control



3D Air Flow



Auto Restart Function



Long-term Filter



Hydrophilic Aluminum



Intelligent Defrosting



Fast Cooling/Heating



Low Ambient Cooling

Special Features



WIFI Control



Touch Controller



Aluminum Filter



Outdoor Specification (Cooling Only)

| Model | RX | 18 | 24 | 30 | 36 | 48 | 60 | |
|--------------------------------|-------------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Power Supply | V-.Hz,Ph | 240-220V/1ph/50Hz | 240-220V/1ph/50Hz | 240-220V/1ph/50Hz | 240-220V/1ph/50Hz | 415-380V/3ph/50Hz | 415-380V/3ph/50Hz | |
| Max. Input Consumption | W | 2050 | 2800 | 3750 | 4200 | 5600 | 6200 | |
| Max. Current | A | 11.2 | 14.5 | 19.4 | 22.5 | 11.5 | 12 | |
| Compressor | Type | ROTARY | | ROTARY | ROTARY | SCROLL | SCROLL | SCROLL |
| | Input | W | 1480 | 1900 | 2370 | 2887 | 3925 | 4150 |
| | Rated Current (RLA) | A | 6.6 | 8.6 | 10.75 | 12.3 | 6.8 | 6.8 |
| | Locked Rotor Amp (LRA) | A | 33.7 | 48 | 62.5 | 95 | 63 | 63 |
| | Thermal Protection temp. | °C | Inside E class 115°C | Inside E class 115°C | Inside E class 115°C | Inside B class 135°C | Inside B class 135°C | Inside B class 135°C |
| | Capacitor | µF | 55 | 55 | 60 | 70 | - | - |
| Outdoor fan motor | Refrigerant Oil | ml | 700 | 480 | 950 | 1360 | 1360 | 1360 |
| | Output Power | W | 30 | 85 | 100 | 60 | 60 | 60 |
| | Fan quantity | | 1 | 1 | 1 | 2 | 2 | 2 |
| | Capacitor | µF | 2.5 | 4 | / | 3.5 | 3.5 | 3.5 |
| Air Flow Volume | Speed | r/min | 900 | 840 | 840 | 770 | 770 | 770 |
| | Fin Material | | Hydrophilic aluminum fin | Hydrophilic aluminum fin | Hydrophilic aluminum fin | Hydrophilic aluminum fin | Hydrophilic aluminum fin | Hydrophilic aluminum fin |
| | Tube Outside Dia.And Material | mm | φ7.0 , Inner grooved | φ7.0 , Inner grooved | φ7.0 , Inner grooved | φ7. Inner grooved | φ7.94 , Inner grooved | φ7.94 , Inner grooved |
| | Coil Length x Height x Width | mm | 853×506×25.4 | 888×660×25.4 | 888×660×38.1 | 984×1320×38.1 | 973×1320×57.15 | 973×1320×57.15 |
| | Heat Exchanging Area | m ² | 12.83 | 17.82 | 22.92 | 65.12 | 72.8 | 72.8 |
| Air Flow Volume | CFM | 1529 | 2059 | 2059 | 3765 | 3765 | 3765 | |
| Noise Level | dB(A) | 56 | 58 | 58 | 58 | 60 | 60 | |
| Dimension | Net | mm | 800×286×530 | 888×318×699 | 888×318×699 | 940×368×1366 | 940×368×1366 | 940×368×1366 |
| (W×D×H) | Packing | mm | 920×400×620 | 1020×430×770 | 1020×430×770 | 1080×460×1500 | 1080×460×1500 | 1080×460×1500 |
| Weight | Net | kg | 39 | 49 | 56 | 100 | 104 | 105 |
| | Gross | kg | 42 | 53 | 60 | 112 | 116 | 121 |
| Refrigerant type/Quantity | Type | | R410a | R410a | R410a | R410a | R410a | R410a |
| | Charged Volume | g | 1200 | 1750 | 2100 | 3500 | 4100 | 4400 |
| Design Pressure | MPa | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | |
| Refrigerant Pipe | Liquid Side | mm | 6.35 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas Side | mm | 12.7 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 |
| Operation Temperature Range | °C | 32-16 | 32-16 | 32-16 | 32-16 | 32-16 | 32-16 | |
| Ambient Temp (Cooling/Heating) | °C | 55-17 | 55-17 | 55-17 | 55-17 | 55-17 | 55-17 | |
| Connection Wiring | Power Wiring (Indoor) | mm ² | 3×2.5mm ² | / | / | / | / | / |
| | Power Wiring (Outdoor) | mm ² | 3×2.5mm ² | 3×2.5mm ² | 3×6mm ² | 3×6mm ² | 5×4mm ² | 5×4mm ² |
| | Signal Wiring | mm ² | 2×0.75mm ² | 5×0.75mm ² | 5×1mm ² | 5×1mm ² | 5×1mm ² | 5×1mm ² |

Table 1

Notes:

1. The above design and specifications are subject to change without prior notice for product improvement.
2. The values given in the table for the noise level reflect the levels in anechoic chamber.
3. Parameters above are all measured when the connecting pipe is 5 meters

Indoor Specification (Cooling Only)

| Indoor Model | | FCU | DDP183PC05 | DDP243PC05 | DDP303PC05 | DDP363PC05 | DDP483PC05 | DDP603PC05 |
|-----------------------------|---------------------------------|-------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|
| Power Supply | | V~,Hz,Ph | 220-240,50,1 | 220-240,50,1 | 220-240,50,1 | 220-240,50,1 | 220-240,50,1 | 220-240,50,1 |
| Indoor Fan Motor | Model | | YSK100-4 | YSK160-4 | YSK160-4 | YSK180-4 | FP240A | FP250A |
| | Output Power | W | 100 | 160 | 160 | 180 | 240 | 280 |
| | Capacitor | µF | 3.5 | 3.5 | 3.5 | 8 | 12 | 12 |
| | Speed (Hi/Mi./Lo) | r/min | 880/780/720 | 1080/980/880 | 1080/980/880 | 1200/1100/1000 | 1385/1240/1160 | 1385/1240/1160 |
| Indoor Coil | Number Of Row | | 3 | 3 | 3 | 3 | 3 | 3 |
| | Tube Pitch(a)x Row Pitch(b) | mm | 20.5x12.7 | 20.5x12.7 | 22x19.05 | 22x19.05 | 22x19.05 | 22x19.05 |
| | Fin Pitch | mm | 1.6 | 1.6 | 1.6 | 1.6 | 1.4 | 1.4 |
| | Fin Material | | Hydrophilic Aluminum | Hydrophilic Aluminum | Hydrophilic Aluminum | Hydrophilic Aluminum | Hydrophilic Aluminum | Hydrophilic Aluminum |
| | Tube Outside Dia. And Material | mm | Φ7, Inner grooved | Φ7, Inner grooved | φ7.94, Inner grooved | φ7.94, Inner grooved | φ7.94, Inner grooved | φ7.94, Inner grooved |
| | Coil Length x Height x Width | mm | 670x369x38.1 | 670x369x38.1 | 985x352x57.15 | 985x352x57.15 | 985x396x57.15 | 1135x484x57.15 |
| | Heat Exchanging Area | m ² | 10.58 | 10.58 | 22.65 | 22.65 | 28.92 | 40.73 |
| Indoor Unit | Indoor Air Flow (Hi/Mi./Lo) | m ³ /h | 1000/800/700 | 1400/1250/1050 | 1650/1450/1250 | 2200/1850/1600 | 2600/2300/1950 | 3100/2600/2200 |
| | Noise Level(Hi/Mi./Lo) | dB(A) | 43/41/40 | 45/43/41 | 45/41/39 | 47/43/40 | 49/45/43 | 53/50/47 |
| | External Static Pressure | Pa | 25 | 25 | 37 | 37 | 50 | 50 |
| | External Static Pressure(Range) | Pa | 0-60 | 0-60 | 0-80 | 0-100 | 0-150 | 0-150 |
| | Net Dimension (W*D*H) | mm | 890x735x290 | 890x735x290 | 1250x735x290 | 1250x735x290 | 1250x735x320 | 1400x820x380 |
| | Packing Dimension (W*D*H) | mm | 1070x800x360 | 1070x800x360 | 1430x800x360 | 1430x800x360 | 1430x800x390 | 1580x880x450 |
| | Net Weight | Kg | 32 | 33 | 44 | 44 | 47 | 51.5 |
| | Gross Weight | Kg | 35.5 | 36.5 | 50 | 50 | 53 | 58.5 |
| Refrigerant Pipe | Liquid Side | mm | Φ6.35 (1/4") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") |
| | Gas Side | mm | Φ12.7 (1/2") | 15.88 (5/8") | 15.88 (5/8") | 19.05 (3/4") | 19.05 (3/4") | 19.05 (3/4") |
| Operation Temperature Range | | °C | 16-32 | 16-32 | 16-32 | 16-32 | 16-32 | 16-32 |
| Application Area | | m ² | 21-35 | 28-47 | 36-60 | 42-70 | 56-93 | 63-100 |
| Connection Wiring | Power Wiring (Indoor) | mm ² | 3x2.5mm ² | / | / | / | / | / |
| | Power Wiring (Outdoor) | mm ² | 3x2.5mm ² | 3x2.5mm ² | 3x6mm ² | 3x6mm ² | 5x4mm ² | 5x4mm ² |
| | Signal Wiring | mm ² | 2x0.75mm ² | 5x0.75mm ² | 5x1mm ² | 5x1mm ² | 5x1mm ² | 5x1mm ² |
| Wired Controller | | | XK04-G/Q-SYE-20°C | XK04-G/Q-SYE-20°C | XK04-G/Q-SYE-20°C | XK04-G/Q-SYE-20°C | XK04-G/Q-SYE-20°C | XK04-G/Q-SYE-20°C |

Table 2

Notes:

1. The above design and specifications are subject to change without prior notice for product improvement.
2. The values given in the table for the noise level reflect the levels in anechoic chamber.
3. Parameters above are all measured when the connecting pipe is 5 meters



Performance Table

| Model | Indoor | FCU | DDP183PC05 | DDP243PC05 | DDP303PC05 | DDP363PC05 | DDP483PC05 | DDP603PC05 |
|---------------|-------------------|-----------|------------|------------|------------|------------|------------|------------|
| Capacity | Cooling(T1) | Btu/h | 17500 | 23500 | 28000 | 34500 | 48000 | 52000 |
| | | TR | 1.5 | 2.0 | 2.3 | 2.9 | 4.0 | 4.3 |
| | | kW | 5.13 | 6.89 | 8.21 | 10.11 | 14.07 | 15.24 |
| | Cooling(T3) | Btu/h | 15200 | 20500 | 24500 | 30500 | 42000 | 45500 |
| | | TR | 1.3 | 1.7 | 2.0 | 2.5 | 3.5 | 3.8 |
| | | kW | 4.45 | 6.01 | 7.18 | 8.94 | 12.31 | 13.33 |
| Performance | EER(T1) | W/W | 3.47 | 3.51 | 3.42 | 3.51 | 3.52 | 3.46 |
| | | (Btu/h)/W | 11.82 | 11.99 | 11.67 | 11.98 | 12.00 | 11.82 |
| | EER(T3) | W/W | 2.50 | 2.56 | 2.48 | 2.55 | 2.56 | 2.55 |
| | | (Btu/h)/W | 8.54 | 8.72 | 8.45 | 8.71 | 8.75 | 8.70 |
| Electric Data | Rated PI (T1) | kW | 1.48 | 1.96 | 2.40 | 2.88 | 4.00 | 4.40 |
| | Rated Current(T1) | A | 6.55 | 8.68 | 10.72 | 12.75 | 6.70 | 7.40 |
| | Rated PI (T3) | kW | 1.78 | 2.35 | 2.90 | 3.50 | 4.80 | 5.23 |
| | Rated Current(T3) | A | 7.85 | 10.33 | 12.85 | 15.50 | 8.10 | 8.80 |

Table 3

Notes:

The design conditions are based as per AHRI standards 210/240:

- The evaporator air entering of 80°F/67°F (26.7°C/19.4°C) db/wb temperature and at 95°F outside air dry bulb for T1 conditions.
- The evaporator entering air conditions of 84.2°F/66.2°F(29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F(46°C) dry bulb for T3 conditions.

High Speed - Combination Ratings - DDP with RX Units (Cooling Only)

| Models RX + DDP | Air Flow Rate CFM (L/s) | ESP (Pa) | Indoor Air Temperature | | Outdoor Air Temperature - DB - °F (°C) | | | | | | | | | |
|--------------------|----------------------------|-------------|------------------------|-----------|--|-------|------------------------|-------|------|---------------------|-------|------------------------|-------|------|
| | | | | | 95 °F (35 °C) | | | | | 109.4 °F (43 °C) | | | | |
| | | | WB / DB | | Total Capacity (TC) | | Sensible Capacity (SC) | | PI | Total Capacity (TC) | | Sensible Capacity (SC) | | PI |
| | | | °F (°C) | °F (°C) | kBtu/h | kW | kBtu/h | kW | kW | kBtu/h | kW | kBtu/h | kW | kW |
| RX18 + DDP18 | 588 (278) | 25 | 57.2 (14) | 68 (20) | 12.8 | 3.75 | 11.1 | 3.25 | 1.41 | 12 | 3.52 | 10.6 | 3.11 | 1.55 |
| | | | 60.8 (16) | 71.6 (22) | 15 | 4.40 | 12.5 | 3.66 | 1.43 | 14 | 4.10 | 11.9 | 3.49 | 1.58 |
| | | | 63 (17) | 76 (24.4) | 15.9 | 4.66 | 12.7 | 3.73 | 1.44 | 14.9 | 4.37 | 13.0 | 3.80 | 1.59 |
| | | | 64.4 (18) | 77 (25) | 16.7 | 4.89 | 13.6 | 3.99 | 1.46 | 15.6 | 4.57 | 12.9 | 3.78 | 1.60 |
| | | | 66.2 (19) | 80.6 (27) | 17.5 | 5.13 | 14 | 4.10 | 1.48 | 16.3 | 4.78 | 13.3 | 3.90 | 1.63 |
| | | | 66.2 (19) | 84.2 (29) | 18.4 | 5.39 | 14.7 | 4.31 | 1.49 | 17.1 | 5.01 | 14.9 | 4.36 | 1.64 |
| | | | 71.6 (22) | 86 (30) | 19.2 | 5.63 | 14.8 | 4.34 | 1.50 | 17.9 | 5.25 | 14 | 4.10 | 1.65 |
| | | | 75.2 (24) | 89.6 (32) | 19.9 | 5.83 | 15 | 4.40 | 1.52 | 18.6 | 5.45 | 14.2 | 4.16 | 1.67 |
| RX24 + DDP24 | 824 (389) | 25 | 57.2 (14) | 68 (20) | 17.2 | 5.04 | 14.7 | 4.31 | 1.87 | 16.6 | 4.87 | 14.4 | 4.22 | 1.99 |
| | | | 60.8 (16) | 71.6 (22) | 20.1 | 5.89 | 16.6 | 4.87 | 1.90 | 19.4 | 5.69 | 16.2 | 4.75 | 2.02 |
| | | | 63 (17) | 76 (24.4) | 21.2 | 6.21 | 17.2 | 5.03 | 1.92 | 20.1 | 5.89 | 16.5 | 4.83 | 2.03 |
| | | | 64.4 (18) | 77 (25) | 22.5 | 6.59 | 18 | 5.28 | 1.93 | 21.6 | 6.33 | 17.5 | 5.13 | 2.05 |
| | | | 66.2 (19) | 80.6 (27) | 23.5 | 6.89 | 18.6 | 5.45 | 1.96 | 22.6 | 6.62 | 18.1 | 5.30 | 2.08 |
| | | | 66.2 (19) | 84.2 (29) | 24.6 | 7.21 | 19.1 | 5.59 | 1.97 | 23.7 | 6.95 | 18.5 | 5.42 | 2.10 |
| | | | 71.6 (22) | 86 (30) | 25.8 | 7.56 | 19.6 | 5.74 | 1.99 | 24.8 | 7.27 | 19.1 | 5.60 | 2.11 |
| | | | 75.2 (24) | 89.6 (32) | 26.8 | 7.85 | 19.9 | 5.83 | 2.01 | 25.8 | 7.56 | 19.3 | 5.66 | 2.14 |
| RX30 + DDP30 | 971 (458) | 37 | 57.2 (14) | 68 (20) | 20.5 | 6.01 | 16.6 | 4.87 | 2.29 | 19.1 | 5.60 | 15.9 | 4.66 | 2.52 |
| | | | 60.8 (16) | 71.6 (22) | 24 | 7.03 | 18.8 | 5.51 | 2.32 | 22.3 | 6.54 | 17.9 | 5.25 | 2.55 |
| | | | 63 (17) | 76 (24.4) | 25.2 | 7.39 | 19.4 | 5.69 | 2.34 | 23.5 | 6.89 | 18.6 | 5.44 | 2.57 |
| | | | 64.4 (18) | 77 (25) | 26.8 | 7.85 | 20.3 | 5.95 | 2.36 | 24.9 | 7.30 | 19.3 | 5.66 | 2.59 |
| | | | 66.2 (19) | 80.6 (27) | 28 | 8.21 | 21 | 6.15 | 2.40 | 26.1 | 7.65 | 19.9 | 5.83 | 2.64 |
| | | | 66.2 (19) | 84.2 (29) | 29.4 | 8.62 | 21.5 | 6.29 | 2.41 | 27.2 | 7.97 | 20.4 | 5.98 | 2.65 |
| | | | 71.6 (22) | 86 (30) | 30.7 | 9.00 | 22.2 | 6.51 | 2.43 | 28.6 | 8.38 | 21 | 6.15 | 2.67 |
| | | | 75.2 (24) | 89.6 (32) | 31.9 | 9.35 | 22.5 | 6.59 | 2.47 | 29.7 | 8.70 | 21.2 | 6.21 | 2.71 |
| RX36 + DDP36 | 1294 (611) | 37 | 57.2 (14) | 68 (20) | 25.3 | 7.42 | 21.8 | 6.39 | 2.75 | 23.6 | 6.92 | 20.8 | 6.10 | 3.02 |
| | | | 60.8 (16) | 71.6 (22) | 29.5 | 8.65 | 24.7 | 7.24 | 2.79 | 27.5 | 8.06 | 23.5 | 6.89 | 3.07 |
| | | | 63 (17) | 76 (24.4) | 31.6 | 9.26 | 25.9 | 7.59 | 2.81 | 29.1 | 8.53 | 24.4 | 7.16 | 3.10 |
| | | | 64.4 (18) | 77 (25) | 33 | 9.67 | 26.7 | 7.83 | 2.83 | 30.7 | 9.00 | 25.4 | 7.44 | 3.11 |
| | | | 66.2 (19) | 80.6 (27) | 34.5 | 10.11 | 27.6 | 8.09 | 2.88 | 32.1 | 9.41 | 26.2 | 7.68 | 3.16 |
| | | | 66.2 (19) | 84.2 (29) | 36.2 | 10.61 | 28.2 | 8.28 | 2.91 | 33.9 | 9.94 | 27.1 | 7.95 | 3.19 |
| | | | 71.6 (22) | 86 (30) | 37.9 | 11.11 | 29.1 | 8.53 | 2.92 | 35.3 | 10.35 | 27.6 | 8.09 | 3.21 |
| | | | 75.2 (24) | 89.6 (32) | 39.3 | 11.52 | 29.5 | 8.65 | 2.96 | 36.6 | 10.73 | 27.9 | 8.18 | 3.25 |
| RX48 + DDP48 | 1530 (723) | 50 | 57.2 (14) | 68 (20) | 35.2 | 10.32 | 29.6 | 8.68 | 3.82 | 32.8 | 9.61 | 28.3 | 8.29 | 4.19 |
| | | | 60.8 (16) | 71.6 (22) | 41.1 | 12.05 | 33.5 | 9.82 | 3.87 | 38.3 | 11.23 | 31.9 | 9.35 | 4.26 |
| | | | 63 (17) | 76 (24.4) | 43.2 | 12.66 | 34.6 | 10.13 | 3.89 | 40.6 | 11.90 | 33.3 | 9.76 | 4.30 |
| | | | 64.4 (18) | 77 (25) | 45.9 | 13.45 | 36.3 | 10.64 | 3.93 | 42.7 | 12.51 | 34.5 | 10.11 | 4.32 |
| | | | 66.2 (19) | 80.6 (27) | 48 | 14.07 | 37.4 | 10.96 | 4.00 | 44.7 | 13.10 | 35.5 | 10.40 | 4.4 |
| | | | 66.2 (19) | 84.2 (29) | 50.1 | 14.68 | 38.1 | 11.16 | 4.02 | 47.5 | 13.92 | 37.1 | 10.86 | 4.42 |
| | | | 71.6 (22) | 86 (30) | 52.7 | 15.45 | 39.5 | 11.58 | 4.05 | 49.1 | 14.39 | 37.4 | 10.96 | 4.45 |
| | | | 75.2 (24) | 89.6 (32) | 54.7 | 16.03 | 40.1 | 11.75 | 4.11 | 50.9 | 14.92 | 37.8 | 11.08 | 4.52 |
| RX60 + DDP60 | 1824 (861) | 50 | 57.2 (14) | 68 (20) | 38.2 | 11.20 | 32.1 | 9.41 | 4.20 | 35.5 | 10.40 | 30.6 | 8.97 | 4.61 |
| | | | 60.8 (16) | 71.6 (22) | 44.5 | 13.04 | 36.3 | 10.64 | 4.26 | 41.5 | 12.16 | 34.5 | 10.11 | 4.68 |
| | | | 63 (17) | 76 (24.4) | 47 | 13.77 | 37.6 | 11.02 | 4.29 | 43.9 | 12.87 | 36.0 | 10.55 | 4.71 |
| | | | 64.4 (18) | 77 (25) | 49.7 | 14.57 | 39.3 | 11.52 | 4.33 | 46.3 | 13.57 | 37.3 | 10.93 | 4.75 |
| | | | 66.2 (19) | 80.6 (27) | 52 | 15.24 | 40.6 | 11.90 | 4.40 | 48.4 | 14.19 | 38.5 | 11.28 | 4.83 |
| | | | 66.2 (19) | 84.2 (29) | 54.3 | 15.91 | 41.3 | 12.09 | 4.42 | 50.6 | 14.83 | 39.5 | 11.57 | 4.86 |
| | | | 71.6 (22) | 86 (30) | 57.1 | 16.74 | 42.8 | 12.54 | 4.46 | 53.1 | 15.56 | 40.5 | 11.87 | 4.9 |
| | | | 75.2 (24) | 89.6 (32) | 59.2 | 17.35 | 43.4 | 12.72 | 4.52 | 55.2 | 16.18 | 41 | 12.02 | 4.97 |

Table 4

Notes:

- For matched conditions, at entering condition other than shown; consult SKM.
- Direct interpolation is permissible but extrapolation is prohibited.
- Cooling capacities listed do not include a deduction for fan motor heat.
- TC - total cooling capacity in Mbh (1000 Btu/h)
SC - sensible cooling capacity in Mbh (1000 Btu/h)
PI - Power input in kW.
- The design conditions as per AHRI standards 210/240:
 - The evaporator air entering of 80°F/67°F (26.7°C/19.4°C) db/wb temperature and at 95°F outside air dry bulb for T1 conditions.
 - The evaporator entering air conditions of 84.2°F/66.2°F (29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb for T3

* Power input mentioned in this page should not be used for cable or fuse selection.



High Speed - Combination Ratings - DDP with RX Units (Cooling Only)

| Models | AFR | ESP | Outdoor Air Temperature - DB - °F (°C) | | | | | | | | | | | |
|--------------|------------|-----|--|---------------------|------------------------|--------|------|---------------------|------------------------|--------|-------|------|--------|------|
| | | | Temperature | | 114.8 °F (46 °C) | | | | 125 °F (52 °C) | | | | | |
| | | | WB / DB | Total Capacity (TC) | Sensible Capacity (SC) | | PI | Total Capacity (TC) | Sensible Capacity (SC) | | PI | | | |
| | | | | | °F (°C) | kBtu/h | | | kW | kBtu/h | | kW | kBtu/h | kW |
| RX18 + DDP18 | 588 (278) | 25 | 57.2 (14) | 68 (20) | 11.2 | 3.28 | 10.4 | 3.05 | 1.70 | 10.4 | 3.05 | 10.1 | 2.96 | 1.74 |
| | | | 60.8 (16) | 71.6 (22) | 13 | 3.81 | 11.8 | 3.46 | 1.72 | 12.1 | 3.55 | 11.4 | 3.34 | 1.76 |
| | | | 63 (17) | 76 (24.4) | 13.8 | 4.04 | 12.4 | 3.64 | 1.68 | 12.9 | 3.78 | 12.0 | 3.52 | 1.78 |
| | | | 64.4 (18) | 77 (25) | 14.6 | 4.28 | 12.8 | 3.75 | 1.75 | 13.5 | 3.96 | 12.3 | 3.60 | 1.79 |
| | | | 66.2 (19) | 84.6 (29) | 15.2 | 4.45 | 13.2 | 3.87 | 1.78 | 14.1 | 4.13 | 12.7 | 3.72 | 1.82 |
| | | | 71.6 (22) | 86 (30) | 16.7 | 4.89 | 13.9 | 4.07 | 1.80 | 15.5 | 4.54 | 13.4 | 3.93 | 1.84 |
| | | | 75.2 (24) | 89.6 (32) | 17.3 | 5.07 | 14.1 | 4.13 | 1.83 | 16 | 4.69 | 13.6 | 3.99 | 1.87 |
| RX24 + DDP24 | 824 (389) | 25 | 57.2 (14) | 68 (20) | 15.1 | 4.43 | 13.8 | 4.04 | 2.24 | 14 | 4.10 | 13.3 | 3.90 | 2.36 |
| | | | 60.8 (16) | 71.6 (22) | 17.5 | 5.13 | 15.6 | 4.57 | 2.28 | 16.3 | 4.78 | 15.1 | 4.43 | 2.40 |
| | | | 63 (17) | 76 (24.4) | 18.5 | 5.42 | 16.1 | 4.72 | 2.30 | 17.4 | 5.10 | 15.8 | 4.64 | 2.42 |
| | | | 64.4 (18) | 77 (25) | 19.7 | 5.77 | 16.9 | 4.95 | 2.31 | 18.3 | 5.36 | 16.4 | 4.81 | 2.44 |
| | | | 66.2 (19) | 84.6 (29) | 20.5 | 6.01 | 17.5 | 5.13 | 2.35 | 19 | 5.57 | 16.9 | 4.95 | 2.48 |
| | | | 71.6 (22) | 86 (30) | 22.5 | 6.59 | 18.5 | 5.42 | 2.38 | 20.9 | 6.13 | 17.8 | 5.22 | 2.51 |
| | | | 75.2 (24) | 89.6 (32) | 23.3 | 6.83 | 18.7 | 5.48 | 2.41 | 21.6 | 6.33 | 18.1 | 5.30 | 2.54 |
| RX30 + DDP30 | 971 (458) | 37 | 57.2 (14) | 68 (20) | 18.1 | 5.30 | 15.6 | 4.57 | 2.77 | 16.7 | 4.89 | 15.1 | 4.43 | 2.83 |
| | | | 60.8 (16) | 71.6 (22) | 21 | 6.15 | 17.7 | 5.19 | 2.81 | 19.4 | 5.69 | 17.1 | 5.01 | 2.87 |
| | | | 63 (17) | 76 (24.4) | 22.1 | 6.48 | 18.3 | 5.38 | 2.83 | 20.6 | 6.04 | 17.7 | 5.19 | 2.89 |
| | | | 64.4 (18) | 77 (25) | 23.5 | 6.89 | 19.2 | 5.63 | 2.85 | 21.8 | 6.39 | 18.5 | 5.42 | 2.91 |
| | | | 66.2 (19) | 84.6 (29) | 24.5 | 7.18 | 19.8 | 7.18 | 2.90 | 22.7 | 6.65 | 19.1 | 5.60 | 2.96 |
| | | | 71.6 (22) | 86 (30) | 26.9 | 7.88 | 20.9 | 6.13 | 2.94 | 25 | 7.33 | 20.2 | 5.92 | 3.00 |
| | | | 75.2 (24) | 89.6 (32) | 27.9 | 8.18 | 21.2 | 6.21 | 2.98 | 25.9 | 7.59 | 20.4 | 5.98 | 3.04 |
| RX36 + DDP36 | 1294 (611) | 37 | 57.2 (14) | 68 (20) | 22.5 | 6.59 | 20.5 | 6.01 | 3.34 | 20.8 | 6.10 | 19.8 | 5.80 | 3.41 |
| | | | 60.8 (16) | 71.6 (22) | 26.1 | 7.65 | 23.2 | 6.80 | 3.39 | 24.2 | 7.09 | 22.4 | 6.57 | 3.46 |
| | | | 63 (17) | 76 (24.4) | 27.6 | 8.09 | 24.0 | 7.04 | 3.41 | 25.9 | 7.59 | 23.6 | 6.91 | 3.48 |
| | | | 64.4 (18) | 77 (25) | 29.3 | 8.59 | 25.2 | 7.39 | 3.44 | 27.2 | 7.97 | 24.3 | 7.12 | 3.51 |
| | | | 66.2 (19) | 84.6 (29) | 30.5 | 8.94 | 26 | 7.62 | 3.50 | 28.3 | 8.29 | 25.1 | 7.36 | 3.57 |
| | | | 71.6 (22) | 86 (30) | 33.5 | 9.82 | 27.4 | 8.03 | 3.55 | 31.1 | 9.11 | 26.5 | 7.77 | 3.62 |
| | | | 75.2 (24) | 89.6 (32) | 34.7 | 10.17 | 27.8 | 8.15 | 3.59 | 32.2 | 9.44 | 26.9 | 7.88 | 3.67 |
| RX48 + DDP48 | 1530 (723) | 50 | 57.2 (14) | 68 (20) | 30.9 | 9.06 | 27.9 | 8.18 | 4.58 | 28.7 | 8.41 | 26.9 | 7.88 | 4.68 |
| | | | 60.8 (16) | 71.6 (22) | 35.9 | 10.52 | 31.5 | 9.23 | 4.65 | 33.3 | 9.76 | 30.4 | 8.91 | 4.75 |
| | | | 63 (17) | 76 (24.4) | 38.1 | 11.17 | 33.1 | 9.71 | 4.68 | 35.2 | 10.32 | 31.7 | 9.28 | 4.78 |
| | | | 64.4 (18) | 77 (25) | 40.3 | 11.81 | 34.1 | 9.99 | 4.71 | 37.4 | 10.96 | 33 | 9.67 | 4.81 |
| | | | 66.2 (19) | 84.6 (29) | 42 | 12.31 | 35.2 | 10.32 | 4.80 | 39 | 11.43 | 34 | 9.96 | 4.97 |
| | | | 71.6 (22) | 86 (30) | 46.1 | 13.51 | 37.2 | 10.90 | 4.86 | 42.8 | 12.54 | 35.9 | 10.52 | 4.99 |
| | | | 75.2 (24) | 89.6 (32) | 47.8 | 14.01 | 37.7 | 11.05 | 4.93 | 44.3 | 12.98 | 36.4 | 10.67 | 5.03 |
| RX60 + DDP60 | 1824 (861) | 50 | 57.2 (14) | 68 (20) | 33.5 | 9.82 | 30.2 | 8.85 | 4.99 | 31.1 | 9.11 | 29.1 | 8.53 | 5.10 |
| | | | 60.8 (16) | 71.6 (22) | 38.9 | 11.40 | 34.1 | 9.99 | 5.07 | 36.1 | 10.58 | 33 | 9.67 | 5.17 |
| | | | 63 (17) | 76 (24.4) | 41.2 | 12.08 | 35.8 | 10.51 | 5.10 | 38.1 | 11.17 | 34.3 | 10.05 | 5.20 |
| | | | 64.4 (18) | 77 (25) | 43.7 | 12.81 | 37 | 10.84 | 5.14 | 40.5 | 11.87 | 35.7 | 10.46 | 5.25 |
| | | | 66.2 (19) | 84.6 (29) | 45.5 | 13.34 | 38.2 | 11.20 | 5.23 | 42.2 | 12.37 | 36.9 | 10.81 | 5.34 |
| | | | 71.6 (22) | 86 (30) | 50 | 14.65 | 40.3 | 11.81 | 5.30 | 46.4 | 13.60 | 38.9 | 11.40 | 5.41 |
| | | | 75.2 (24) | 89.6 (32) | 51.8 | 15.18 | 40.9 | 11.99 | 5.37 | 48 | 14.07 | 39.5 | 11.58 | 5.49 |

Table 5

Notes:

- For matched conditions, at entering condition other than shown; consult SKM.
- Direct interpolation is permissible but extrapolation is prohibited.
- Cooling capacities listed do not include a deduction for fan motor heat.
- TC - total cooling capacity in Mbh (1000 Btu/h)
SC - sensible cooling capacity in Mbh (1000 Btu/h)
PI - Power input in kW.
- The design conditions as per AHRI standards 210/240:
 - The evaporator air entering of 80°F/67°F (26.7°C/19.4°C) db/wb temperature and at 95°F outside air dry bulb for T1 conditions.
 - The evaporator entering air conditions of 84.2°F/66.2°F (29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb for T3

* Power input mentioned in this page should not be used for cable or fuse selection.

Medium Speed - Combination Ratings - DDP with RX Units (Cooling Only)

| Models | AFR | ESP | Outdoor Air Temperature - DB - °F (°C) | | | | | | | | | | | | | | | | |
|--------------|------------|-----|--|---------------------|---------------|------------------------|------|-------|---------------------|------------------|------------------------|------|-------|---------------------|----------------|------------------------|------|-------|------|
| | | | Temperature | | 95 °F (35 °C) | | | | | 114.8 °F (46 °C) | | | | | 125 °F (52 °C) | | | | |
| | | | WB / DB | Total Capacity (TC) | | Sensible Capacity (SC) | | PI | Total Capacity (TC) | | Sensible Capacity (SC) | | PI | Total Capacity (TC) | | Sensible Capacity (SC) | | PI | |
| | | | °F (°C) | kBtu/h | kW | kBtu/h | kW | kW | kBtu/h | kW | kBtu/h | kW | kW | kBtu/h | kW | kBtu/h | kW | kW | |
| RX18 + DDP18 | 528 (249) | 25 | 57.2 (14) | 68 (20) | 13 | 3.81 | 13.2 | 3.87 | 3.59 | 11.4 | 3.34 | 11.5 | 3.37 | 1.7 | 10.5 | 3.08 | 10.6 | 3.11 | 1.73 |
| | | | 60.8 (16) | 71.6 (22) | 15.2 | 4.45 | 15.3 | 4.48 | 3.65 | 13.2 | 3.87 | 13.3 | 3.90 | 1.72 | 12.2 | 3.58 | 12.3 | 3.60 | 1.76 |
| | | | 64.4 (18) | 77 (25) | 17 | 4.98 | 17.1 | 5.01 | 3.7 | 14.8 | 4.34 | 15 | 4.40 | 1.75 | 13.7 | 4.02 | 13.9 | 4.07 | 1.78 |
| | | | 66.2 (19) | 80.6 (27) | 17.8 | 5.22 | 14.2 | 4.16 | 3.75 | 15.4 | 4.51 | 13.3 | 3.90 | 1.78 | 14.3 | 4.19 | 12.9 | 3.78 | 1.81 |
| | | | 71.6 (22) | 86 (30) | 19.5 | 5.72 | 14.9 | 4.37 | 3.8 | 17 | 4.98 | 14.1 | 4.13 | 1.8 | 15.7 | 4.60 | 13.6 | 3.99 | 1.84 |
| | | | 75.2 (24) | 89.6 (32) | 20.2 | 5.92 | 15.2 | 4.45 | 3.86 | 17.6 | 5.16 | 14.3 | 4.19 | 1.83 | 16.3 | 4.78 | 13.8 | 4.04 | 1.86 |
| RX24 + DDP24 | 737 (348) | 25 | 57.2 (14) | 68 (20) | 17.5 | 5.13 | 17.7 | 5.19 | 3.59 | 15.3 | 4.48 | 15.5 | 4.54 | 2.24 | 14.2 | 4.16 | 14.3 | 4.19 | 2.29 |
| | | | 60.8 (16) | 71.6 (22) | 20.4 | 5.98 | 20.6 | 6.04 | 3.65 | 17.8 | 5.22 | 18 | 5.28 | 2.28 | 16.5 | 4.84 | 16.7 | 4.89 | 2.32 |
| | | | 64.4 (18) | 77 (25) | 22.8 | 6.68 | 23 | 6.74 | 3.7 | 20 | 5.86 | 20.2 | 5.92 | 2.31 | 18.5 | 5.42 | 18.7 | 5.48 | 2.36 |
| | | | 66.2 (19) | 80.6 (27) | 23.9 | 7.00 | 18.8 | 5.51 | 1.96 | 20.8 | 6.10 | 17.7 | 5.19 | 2.35 | 19.3 | 5.66 | 17.1 | 5.01 | 2.4 |
| | | | 71.6 (22) | 86 (30) | 26.2 | 7.68 | 19.8 | 5.80 | 1.98 | 22.9 | 6.71 | 18.7 | 5.48 | 2.38 | 21.2 | 6.21 | 18 | 5.28 | 2.43 |
| | | | 75.2 (24) | 89.6 (32) | 27.2 | 7.97 | 20.1 | 5.89 | 2.01 | 23.7 | 6.95 | 18.9 | 5.54 | 2.41 | 22 | 6.45 | 18.3 | 5.36 | 2.46 |
| RX30 + DDP30 | 802 (378) | 37 | 57.2 (14) | 68 (20) | 20.5 | 6.01 | 20.5 | 6.01 | 3.58 | 18.1 | 5.30 | 18.1 | 5.30 | 2.76 | 16.7 | 4.89 | 16.7 | 4.89 | 2.82 |
| | | | 60.8 (16) | 71.6 (22) | 24 | 7.03 | 24 | 7.03 | 3.63 | 21 | 6.15 | 21 | 6.15 | 2.8 | 19.4 | 5.69 | 19.4 | 5.69 | 2.86 |
| | | | 64.4 (18) | 77 (25) | 26.8 | 7.85 | 26.8 | 7.85 | 3.69 | 23.5 | 6.89 | 23.5 | 6.89 | 2.84 | 21.8 | 6.39 | 21.8 | 6.39 | 2.9 |
| | | | 66.2 (19) | 80.6 (27) | 28 | 8.21 | 20.7 | 6.07 | 2.4 | 24.5 | 7.18 | 19.5 | 5.72 | 2.89 | 22.7 | 6.65 | 18.8 | 5.51 | 2.95 |
| | | | 71.6 (22) | 86 (30) | 30.7 | 9.00 | 21.9 | 6.42 | 2.43 | 26.9 | 7.88 | 20.6 | 6.04 | 2.93 | 25 | 7.33 | 19.9 | 5.83 | 2.99 |
| | | | 75.2 (24) | 89.6 (32) | 31.9 | 9.35 | 22.2 | 6.51 | 2.47 | 27.9 | 8.18 | 20.9 | 6.13 | 2.97 | 25.9 | 7.59 | 20.2 | 5.92 | 3.03 |
| RX36 + DDP36 | 1088 (513) | 37 | 57.2 (14) | 68 (20) | 25.7 | 7.53 | 25.9 | 7.59 | 3.59 | 22.8 | 6.68 | 23 | 6.74 | 3.36 | 21.2 | 6.21 | 21.3 | 6.24 | 3.43 |
| | | | 60.8 (16) | 71.6 (22) | 30 | 8.79 | 30.3 | 8.88 | 3.65 | 26.5 | 7.77 | 26.7 | 7.83 | 3.4 | 24.6 | 7.21 | 24.8 | 7.27 | 3.48 |
| | | | 64.4 (18) | 77 (25) | 33.5 | 9.82 | 33.8 | 9.91 | 3.7 | 29.7 | 8.70 | 30 | 8.79 | 3.45 | 27.6 | 8.09 | 27.8 | 8.15 | 3.52 |
| | | | 66.2 (19) | 80.6 (27) | 35 | 10.26 | 27.9 | 8.18 | 2.88 | 31 | 9.09 | 26.3 | 7.71 | 3.51 | 28.7 | 8.41 | 25.4 | 7.44 | 3.59 |
| | | | 71.6 (22) | 86 (30) | 38.4 | 11.25 | 29.5 | 8.65 | 2.92 | 34 | 9.96 | 27.7 | 8.12 | 3.56 | 31.5 | 9.23 | 26.8 | 7.85 | 3.64 |
| | | | 75.2 (24) | 89.6 (32) | 39.9 | 11.69 | 29.9 | 8.76 | 2.96 | 35.2 | 10.32 | 28.1 | 8.24 | 3.61 | 32.7 | 9.58 | 27.2 | 7.97 | 3.69 |
| RX48 + DDP48 | 1351 (637) | 50 | 57.2 (14) | 68 (20) | 35.8 | 10.49 | 36.1 | 10.58 | 3.59 | 31.4 | 9.20 | 31.7 | 9.29 | 4.77 | 29.1 | 8.53 | 29.4 | 8.62 | 4.87 |
| | | | 60.8 (16) | 71.6 (22) | 41.7 | 12.22 | 42.1 | 12.34 | 3.65 | 36.5 | 10.70 | 36.8 | 10.79 | 4.83 | 33.8 | 9.91 | 34.1 | 9.99 | 4.94 |
| | | | 64.4 (18) | 77 (25) | 46.6 | 13.66 | 47 | 13.77 | 3.7 | 40.9 | 11.99 | 41.3 | 12.10 | 4.9 | 38 | 11.14 | 38.3 | 11.23 | 5 |
| | | | 66.2 (19) | 80.6 (27) | 48.7 | 14.27 | 37.8 | 11.08 | 4.01 | 42.6 | 12.49 | 35.6 | 10.43 | 4.99 | 39.5 | 11.58 | 34.4 | 10.08 | 5.1 |
| | | | 71.6 (22) | 86 (30) | 53.5 | 15.68 | 40 | 11.72 | 4.06 | 46.8 | 13.72 | 37.6 | 11.02 | 5.06 | 43.4 | 12.72 | 36.3 | 10.64 | 5.16 |
| | | | 75.2 (24) | 89.6 (32) | 55.5 | 16.27 | 40.5 | 11.87 | 4.12 | 48.5 | 14.21 | 38.1 | 11.17 | 5.12 | 45 | 13.19 | 36.8 | 10.79 | 5.23 |
| RX60 + DDP60 | 1608 (759) | 50 | 57.2 (14) | 68 (20) | 38.7 | 11.34 | 38.1 | 11.16 | 3.59 | 34 | 9.96 | 34.3 | 10.05 | 5 | 31.6 | 9.26 | 31.8 | 9.32 | 5.11 |
| | | | 60.8 (16) | 71.6 (22) | 45.2 | 13.25 | 43.6 | 12.77 | 3.65 | 39.5 | 11.58 | 39.8 | 11.66 | 5.08 | 36.6 | 10.73 | 37 | 10.84 | 5.18 |
| | | | 64.4 (18) | 77 (25) | 50.4 | 14.77 | 50.0 | 14.65 | 3.7 | 44.4 | 13.01 | 44.8 | 13.13 | 5.15 | 41.1 | 12.05 | 41.5 | 12.16 | 5.26 |
| | | | 66.2 (19) | 80.6 (27) | 52.8 | 15.47 | 41 | 12.02 | 4.41 | 46.2 | 13.54 | 38.6 | 11.31 | 5.24 | 42.8 | 12.54 | 37.3 | 10.93 | 5.35 |
| | | | 71.6 (22) | 86 (30) | 57.9 | 16.97 | 43.3 | 12.69 | 4.46 | 50.7 | 14.86 | 40.7 | 11.93 | 5.31 | 47.1 | 13.80 | 39.4 | 11.55 | 5.42 |
| | | | 75.2 (24) | 89.6 (32) | 60.1 | 17.61 | 43.9 | 12.87 | 4.53 | 52.6 | 15.42 | 41.3 | 12.10 | 5.38 | 48.8 | 14.30 | 39.9 | 11.69 | 5.5 |

Table 6

Notes:

- For matched conditions, at entering condition other than shown; consult SKM.
- Direct interpolation is permissible but extrapolation is prohibited.
- Cooling capacities listed do not include a deduction for fan motor heat.
- TC - total cooling capacity in Mbh (1000 Btu/h)
SC - sensible cooling capacity in Mbh (1000 Btu/h)
PI - Power input in kW.
- The design conditions as per AHRI standards 210/240:
 - The evaporator air entering of 80°F/67°F (26.7°C/19.4°C) db/wb temperature and at 95°F outside air dry bulb for T1 conditions.
 - The evaporator entering air conditions of 84.2°F/66.2°F (29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb for T3

* Power input mentioned in this page should not be used for cable or fuse selection.



Electrical Data - RX & DDP

Indoor Unit

| Model | Power Supply | Fan Motor FLA | Fuse/Breaker Capacity | Min. Power Supply Cord |
|-------|--------------|---------------|-----------------------|------------------------|
| | V/Ph/Hz | A | A | mm ² |
| DDP18 | 220-240/1/50 | 0.42 | 6 | 1 |
| DDP24 | | 0.57 | 6 | 1 |
| DDP30 | | 0.86 | 6 | 1 |
| DDP36 | | 0.86 | 6 | 1 |
| DDP48 | | 1.08 | 6 | 1 |
| DDP60 | | 0.42 | 6 | 1 |

Table 6

Outdoor Unit

| Model | Compressor | | | Fan Motor FLA | Fuse/Breaker Capacity | Min. Power Supply Cord |
|-------|--------------|-------|-----|---------------|-----------------------|------------------------|
| | Power Supply | RLA | LRA | | | |
| | V/Ph/Hz | A | A | | | |
| RX18 | 220-240,1,50 | 6.35 | 34 | 0.32 | 16 | 2.5 |
| RX24 | | 8.7 | 48 | 0.53 | 20 | 4 |
| RX30 | | 10.55 | 63 | 0.53 | 25 | 4 |
| RX36 | | 12.3 | 95 | 1.52 | 25 | 4 |
| RX48 | 380-415,3,50 | 7 | 63 | 1.42 | 25 | 4 |
| RX60 | | 7.2 | 63 | 1.42 | 25 | 4 |

Table 7

Notes:

1. The specifications of the breaker and power cable listed in the table above are determined based on the Maximum Power (Maximum Amps) of the unit.
2. The specifications of the power cable are applied to the conduit-guarded multiwire copper cable (like, YJV copper cable, consisting of PE insulated wires and a PVC cable jacket) used at 40°C and resistible to 90°C (see IEC 60364-5-52). If the working condition changes, they should be modified according to the related national standard.
3. The working temperature of the breaker listed in the table are 40°C. If the working condition changes, they should be modified according to the related national standard.

Operation Range - RX & DDP

| Cooling capacity (Btu/h) | 18K | 24K | 30K | 36K | 48K | 60K |
|-----------------------------|-------------------------|-----|-----|-------------------------|-----|-----|
| Power supply | 220 - 240V / 1ph / 50Hz | | | 380 - 415V / 3ph / 50Hz | | |
| Voltage | 207 - 253 V | | | 360 - 440 V | | |
| Room temperature | 16 - 35 °C | | | | | |
| Outdoor ambient temperature | 17 - 55 °C | | | | | |

Table 8

Thermostat

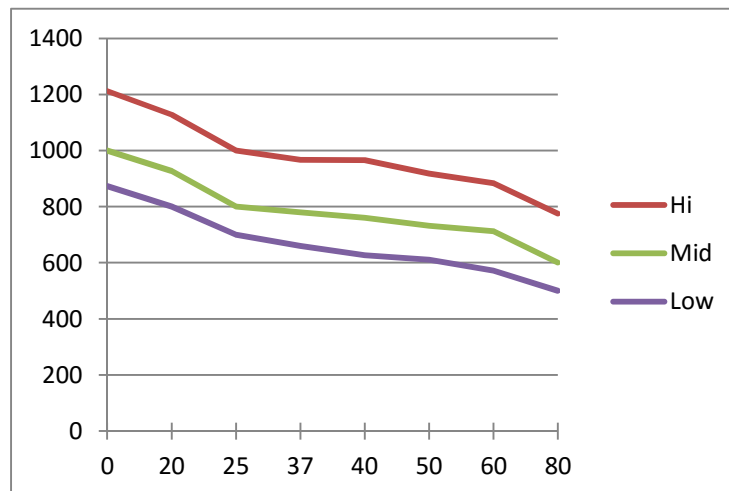
SKM Wired Controller is a wall mounted decorative type controller, with large LCD and back light. The touch buttons are provided for power on/off, fan speed selection, cooling or heating mode selection, set point adjustment, sleep mode function, air swing mode and timer function for the comfort of the user. Apart from that the large display provides the user icons of the functions that is currently active for easy reference.



Fan Performance (Cooling Only)

DDP 18

AFR (m³/h)



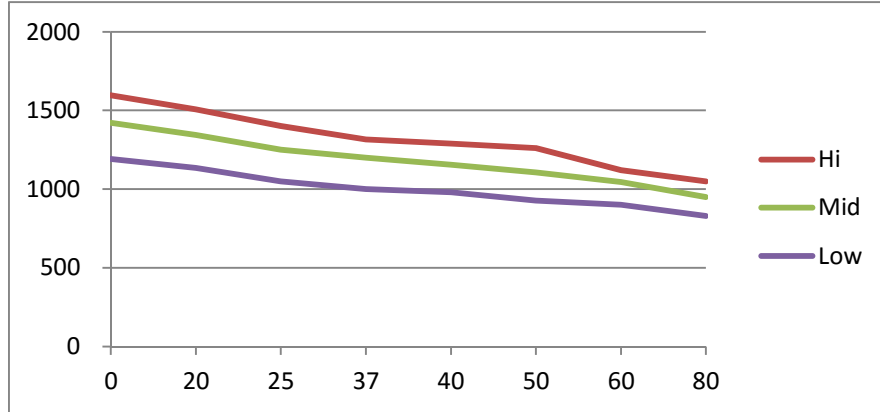
ESP (Pa)



Fan Performance (Cooling Only)

DDP 24

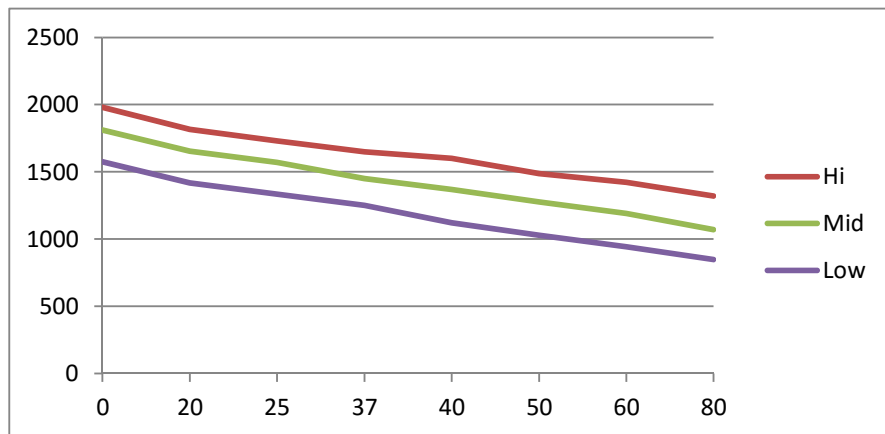
AFR (m³/h)



ESP (Pa)

DDP 30

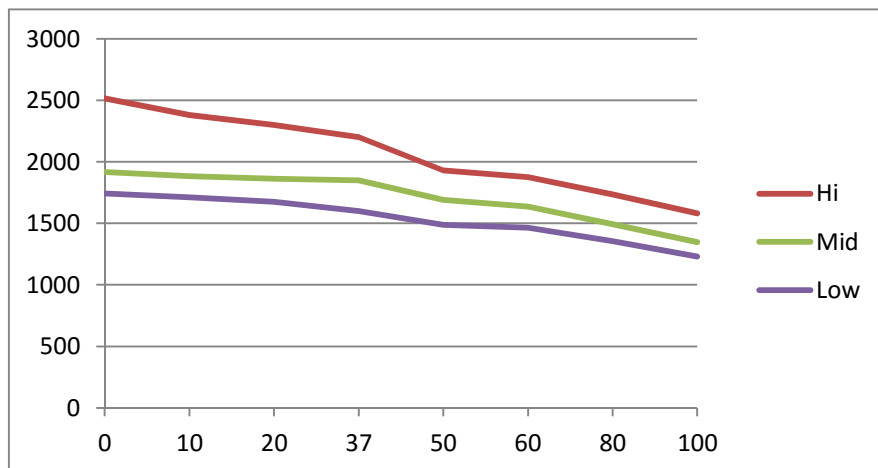
AFR (m³/h)



ESP (Pa)

DDP 36

AFR (m³/h)

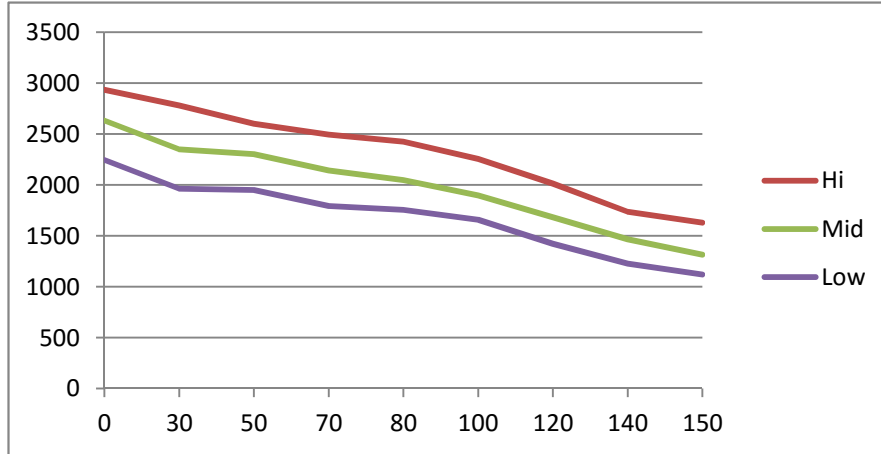


ESP (Pa)

Fan Performance (Cooling Only)

DDP 48

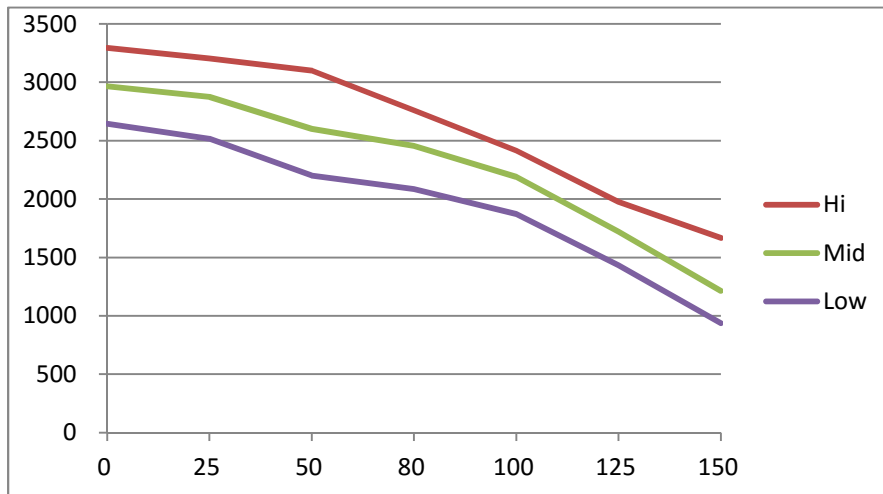
AFR (m³/h)



ESP (Pa)

DDP 60

AFR (m³/h)



ESP (Pa)



Recommended Suction and Liquid Line length

| Model | Max. Length | Max. Height |
|-------|-------------|-------------|
| RX | meter | |
| 18 | 30 | 15 |
| 24 | 30 | 15 |
| 30 | 30 | 15 |
| 36 | 50 | 30 |
| 48 | 50 | 30 |
| 60 | 50 | 30 |

Table 7

Refrigerant Piping

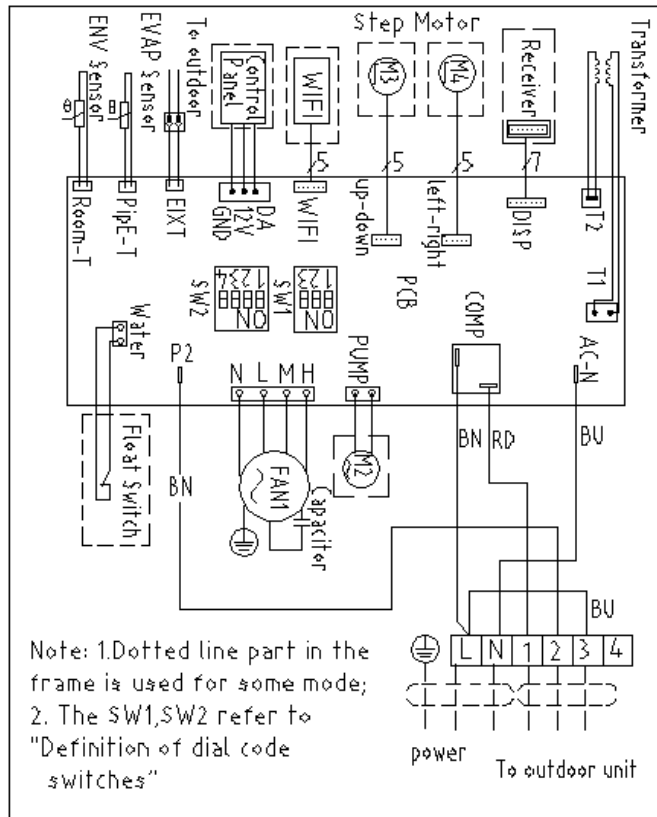
Correct design and size of refrigerant piping is necessary for proper operation. The refrigerant piping generally should be designed to accomplish the following:

- a. To ensure proper refrigerant feed to the evaporator.
- b. To provide practical refrigerant line sizes without excessive pressure drop.
- c. To maintain uniform return of lubricating oil to the compressor.
- d. To prevent refrigerant from entering the compressor and causing compressor damage due to "slugging".

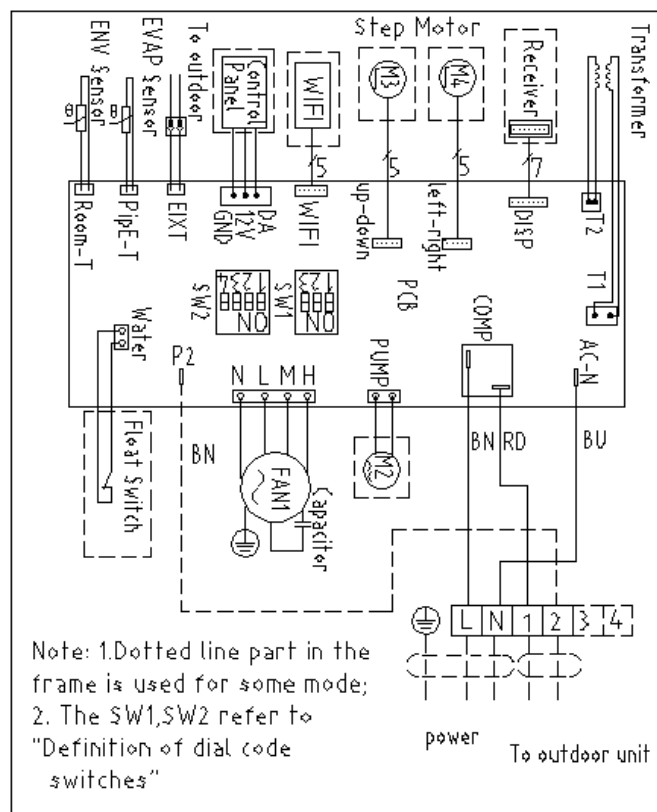
Typical Wiring Diagram :

RX - DDP (05) / Indoor Unit:

DDP 18



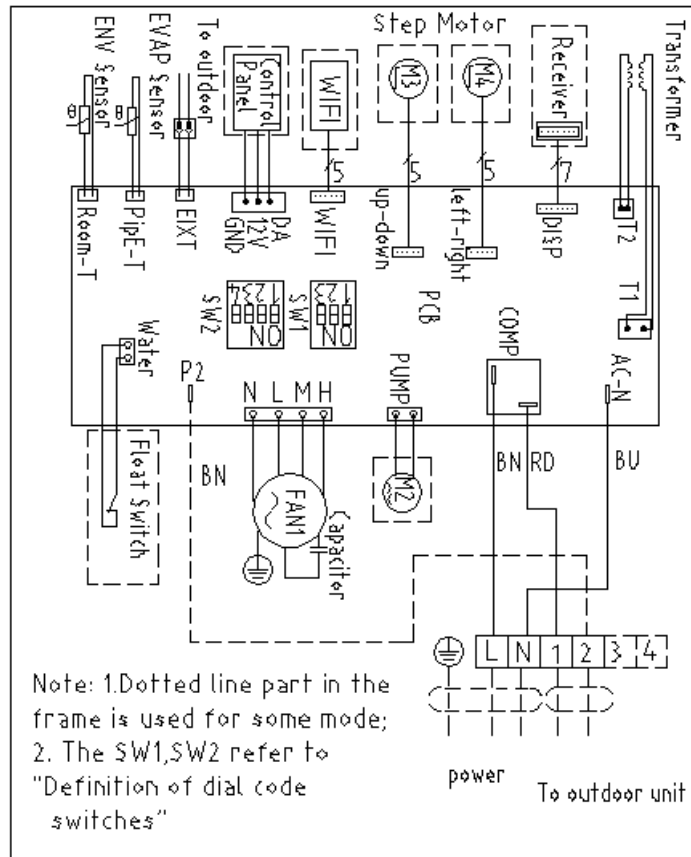
DDP 24



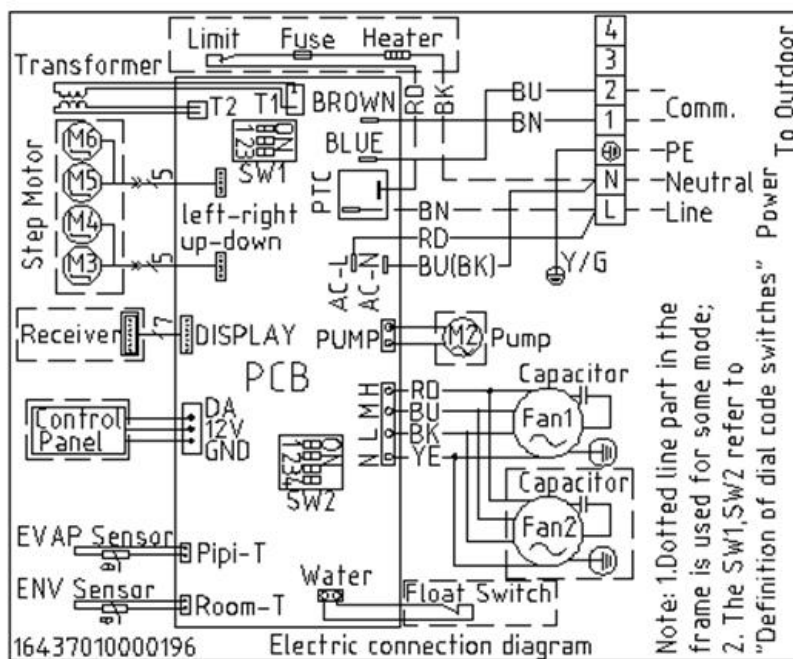


Typical Wiring Diagram :

DDP 30



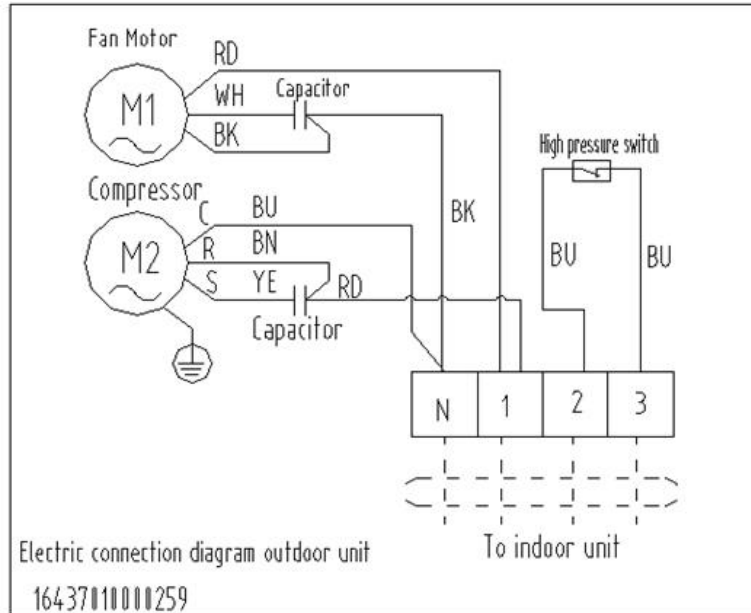
DDP 36, DDP 48 & DDP 60



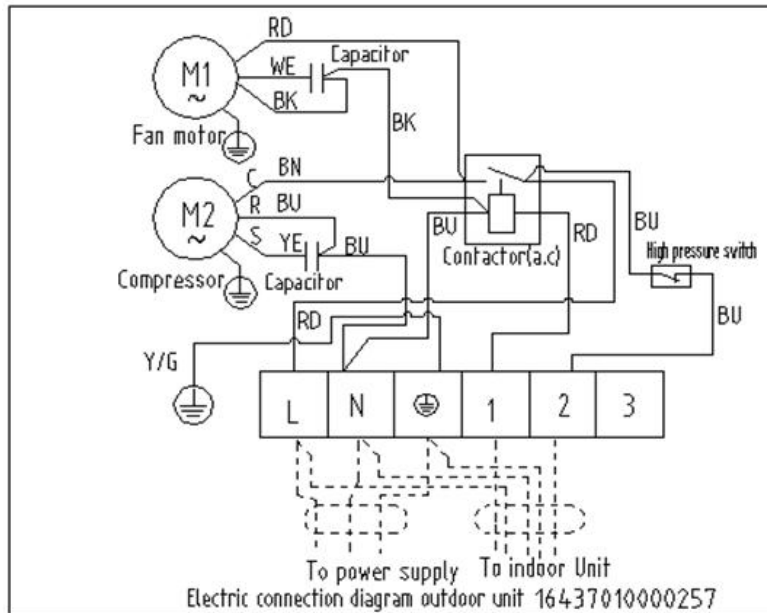
Typical Wiring Diagram :

RX-DDP (05) OUTDOOR UNIT

RX 18



RX 24 & RX 30

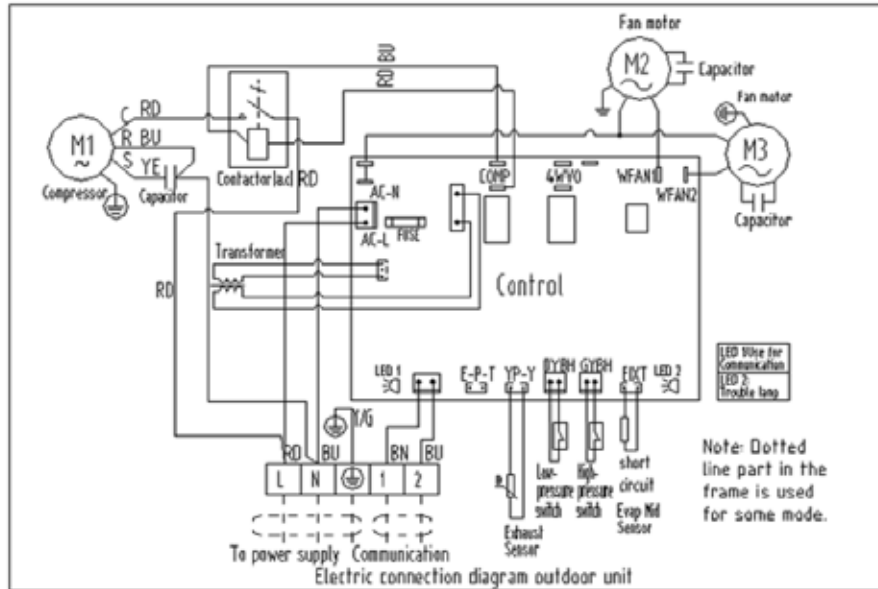




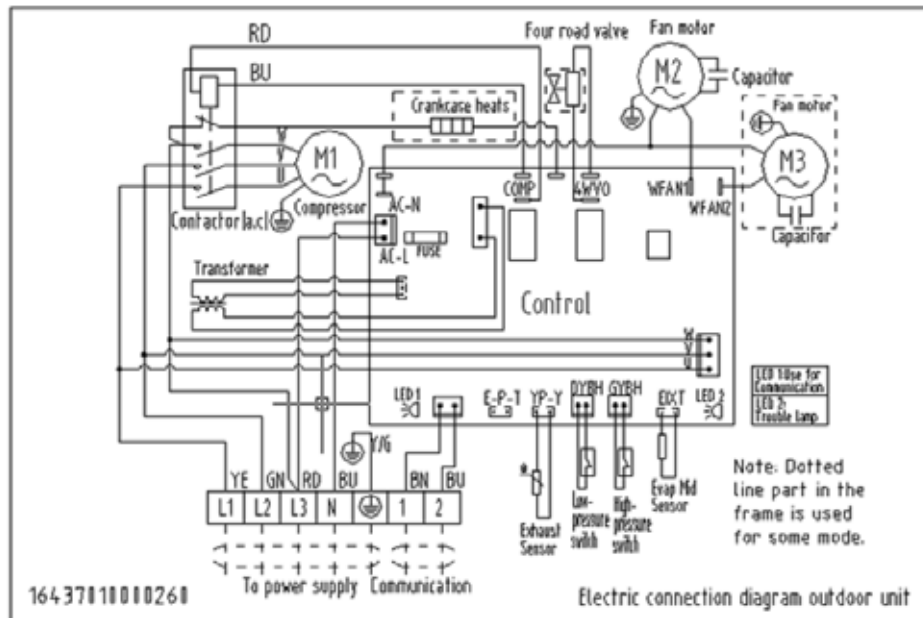
Typical Wiring Diagram :

RX-DDP (05) OUTDOOR UNIT

RX 36



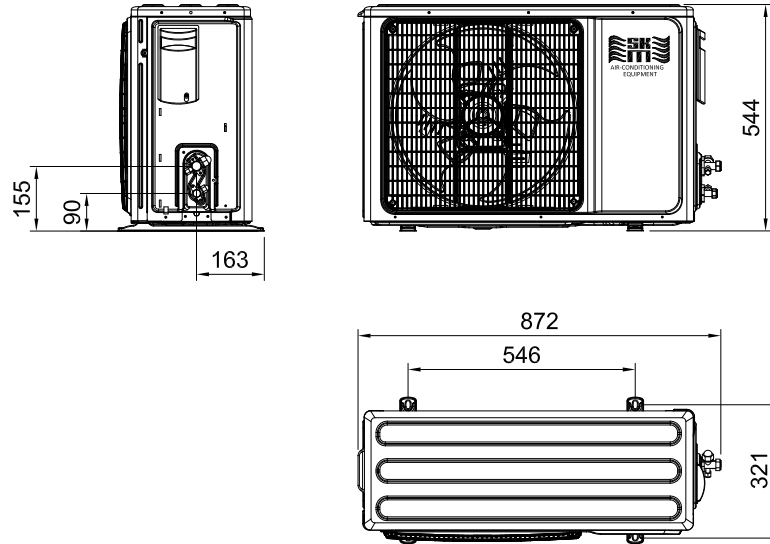
RX 48, RX 60



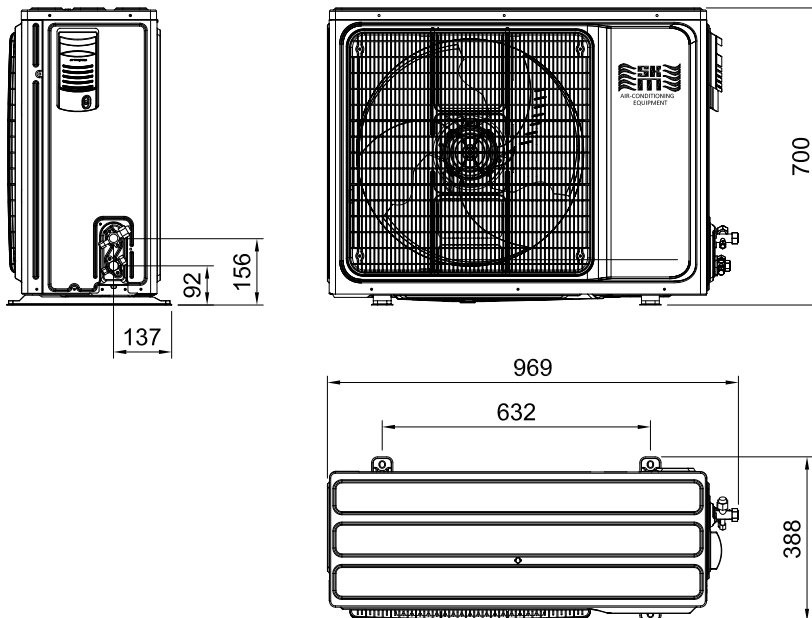
Dimensional Data

OUTDOOR UNITS

RX 18



OUTDOOR UNITS - RX 24 & RX 30

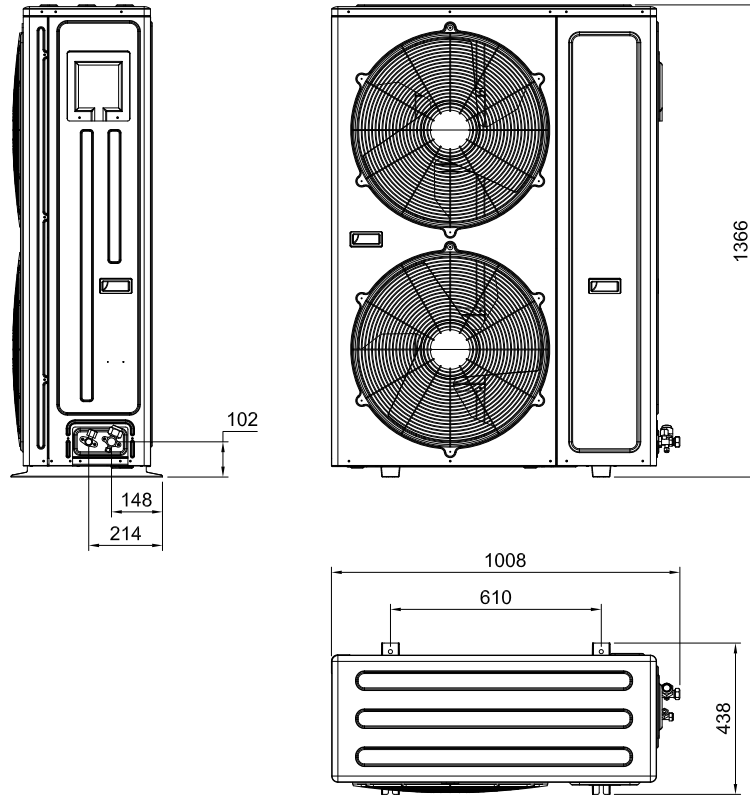




Dimensional Data

OUTDOOR UNITS

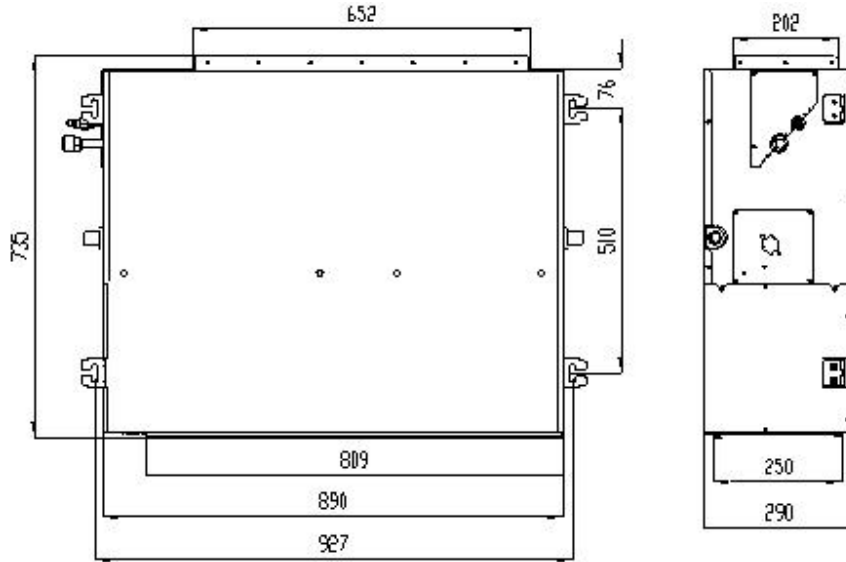
RX 36, RX 48 & RX 60



Dimensional Data

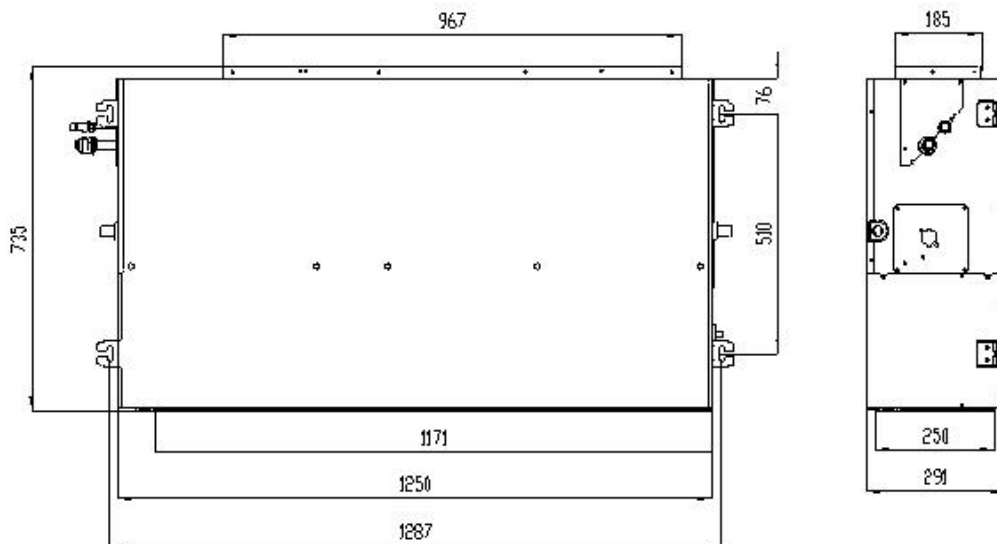
INDOOR UNITS

DDP 18 & DDP 24



INDOOR UNITS

DDP 30 & DDP 36

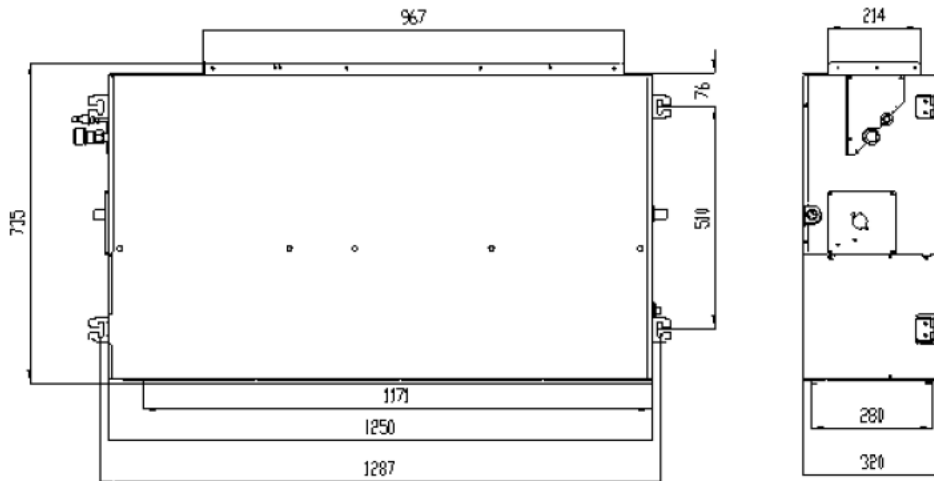




Dimensional Data

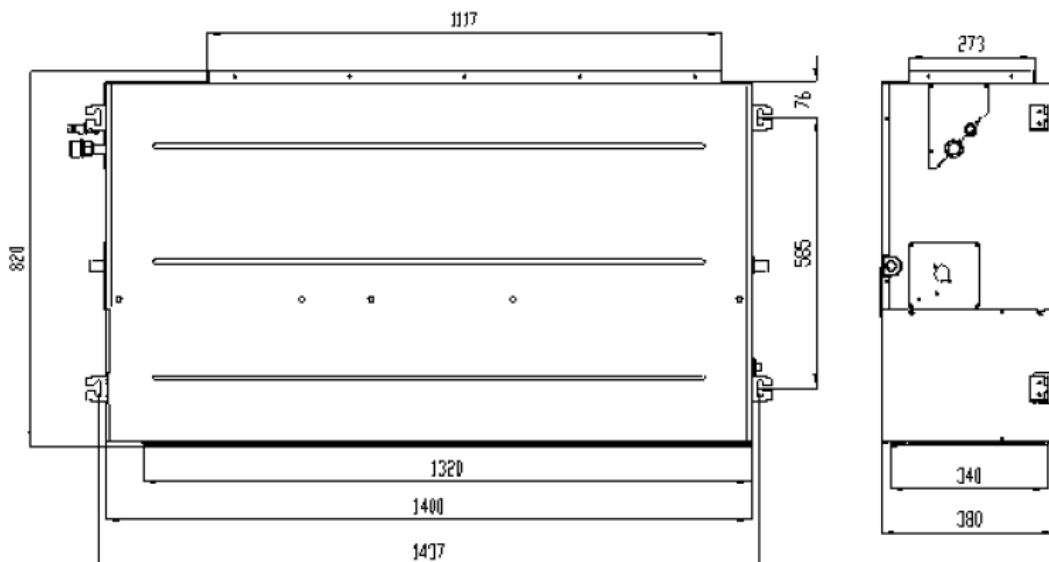
INDOOR UNITS

DDP 48



INDOOR UNITS

DDP 60



GUIDE SPECIFICATIONS

Ducted mini split Air Conditioning system shall be composed of a compact design indoor fan coil unit and floor or Rooftop mounted outside air cooled condensing unit, rated with AHRI standards 210/240.

CONDENSING UNIT:

The condensing unit shall be composed of compressor, condenser, coil, condenser fan, motor and the metering device.

CONDENSER COIL

The condenser coil shall be air cooled constructed of high efficiency inner grooved copper tube mechanically expanded into high efficiency pre coated Aluminum fins and tested against leakage by high pressure under water.

COMPRESSOR

Compressor shall be hermetic Rotary & Scroll types, refrigerant gas cooled, furnished with internal high temperature motor overload protection device.

CONDENSER FAN

For Side discharge air delivery, the fan shall be equipped with statically and dynamically balanced hard plastic blades, and inherent corrosion resistant shaft. Complete fan assembly is mounted Sideward on the strong plastic fan guard.

INDOOR UNIT:

The indoor unit shall be composed of evaporator coil, fan motor assembly.

EVAPORATOR COIL

Evaporator coil shall be constructed of high efficiency copper tubes, mechanically bonded to Aluminum fins.

EVAPORATOR FAN

Fan shall be double inlet, double width, direct driven with centrifugal type wheel. Fan wheel shall be with multi forward curved blades.

MOTOR

Motor shall be single phase, 3 speed permanent split capacitor type, suitable for 220-240V/1Ph/50-60Hz. Highly efficient with integral thermal protection.

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