

RUIDONG

CEILING TYPE AIR HANDLING UNIT



RUIDONG GROUP

www.ruidonggroup.com



Ruidong Group Co., Ltd is one modern large-scale enterprise integrating design, production, sales and installation of central air-conditioning products.

Ruidong is located in Dezhou City, Shandong Province. The Beijing-Shanghai High-speed Railway and Beijing-Shanghai Expressway passing through the city, make Dezhou become a key coordinate of the national economic artery. The registered capital of the group is one hundred fifty five and a half million yuan, covering an area of 300,000 square meters and construction area of 180,000 square meters.

Main business coverage:

1. Host series:

- Water cooled series: centrifugal cold (hot) water unit, screw type cold water unit, screw type water (ground) source cooling and heating unit, scroll type water (ground) source cooling and heating unit.
- Air cooled series: screw type cold (hot) water unit, modular type cold (hot) water unit, mini type cold (hot) water unit, VRV series unit.
- Packaged Unitary unit: constant temperature and humidity unit, air (water) cooled unitary unit, dehumidification unit.

2. Direct expansion series: Rooftop packaged unit, ducted split unit.

3. Terminal series: Purification air handling unit, combined air handling unit, fresh air unit, fan coil unit series.



ENTERPRISE PROFILE

4. **Ventilation series:** Fire exhaust fan, roof fan, axial fan, diagonal fan, centrifugal fan, etc.
5. **Engine room equipment:** cyclone sand remover, water separator (separator), decontamination device, demineralized water device, plate heat exchange unit, constant pressure equipment, etc.
6. **Air conditioning accessories:** All kinds of fire valves, regulating valves, tuyere series.
7. **Other products:** Low-temperature industrial chillers, air-conditioning equipment for planting and breeding industries.

The R & D team composed of high-tech talents will continue to introduce new products, advanced production equipment and adopt the international ISO9001 quality management system as a strong guarantee for product quality. Precision testing equipment and rigorous testing methods are the fundamental insurance of quality and are timely and thoughtful. After-sales service solves the problems that may arise in use for you.

The company has established a complete sales and service system. Set up offices in 18 cities including Beijing, Tianjin, Shanghai, Xi'an, Shenyang, Chengdu and other cities to provide users with timely, efficient and high-quality pre-sales, sales and after-sales services.

Ruidong Air Conditioning wishes you: Cooling air for propitious summer, spring returns with warm air from Ruidong.

CERTIFICATIONS

Ruidong group always takes "create first-class quality, offer sincere service" as the quality concept, builds customer-oriented quality management system, focuses on teamwork and insists on continuous innovation.



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1. BRIEF INTRODUCTION

There are 3 types of air handling unit:

D: Ceiling type
W: Horizontal type
V: Vertical type

There are 2 drive type:

Z: Motor directly driven external rotor fan
J: Belt indirect driven fan

The horizontal unit is divided into type I, type II and type III according to the filter type and return air method.

Type I unit is with primary filter, but without fresh air inlet.
Type II unit is with primary filter, with return air and fresh air inlet
Type III unit is with primary filter + secondary filter, with return air and fresh air inlet.

The unit's primary filter adopts plate type, and the filter material adopts nylon concave-convex net, which can be washed repeatedly. The medium-efficiency filter device is a bag-type non-woven fabric filter device.

The heat exchange system adopts high-quality copper tube with hydrophilic aluminum foil and is processed by a fully mechanical tube expansion process to ensure that there is no gap between the pipe and foil. All heat exchangers have undergone a 2.5MPa tightness test to ensure no leakage.

The air supply system adopts low-noise double-inlet centrifugal fan, which has undergone strict dynamic and static balance tests to ensure stable operation and low noise. Fan bearings are all internationally renowned brand products.

The unit adopts non-cold bridge aluminum alloy structure with special cast aluminum fittings for insertion, high strength, light weight, corrosion resistance, high accuracy and long service life.

The shell of the unit adopts double-sided color steel plate, filled with high-density polyurethane foam insulation material, which has better thermal insulation performance than glass fiber material and higher strength. Its good thermal insulation performance prevents condensation in the unit under any climatic conditions. The overhaul surface of the unit adopts the locking technology with self-tightening function, which has high air tightness, low air leakage rate and easy disassembly and assembly.

This series of units has the characteristics of superior refrigeration performance, compact structure, light weight, good rigidity and corrosion resistance.

4. RFPD/4H SERIES RETURN AIR CONDITION (Z TYPE, J TYPE)

| Model RFPD/4H | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Motor power kW | Dimension | | | Weight kg | Noise dB(A) | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|----------------------|-----------|------|-----|--------------|----------------|---------------------|---------------------|
| | | | | | | | | L | W | H | | | | |
| 010 | 1000 | 5.1 | 10.2 | 0.88 | 4.2 | 60 | 0.25 | 850 | 600 | 520 | 56 | 57 | 32 | 25 |
| 015 | 1500 | 8.4 | 15.2 | 1.44 | 9 | 60 | 0.25 | 950 | 650 | 570 | 63 | 57 | 40 | 25 |
| 020 | 2000 | 11.7 | 21.4 | 2.01 | 10.8 | 60 | 0.25 | 1100 | 750 | 570 | 81 | 58 | 40 | 25 |
| 025 | 2500 | 14.7 | 25.4 | 2.53 | 17.6 | 90 | 0.37 | 1100 | 850 | 570 | 83 | 59 | 40 | 25 |
| 030 | 3000 | 17.9 | 31.5 | 3.08 | 32 | 150 | 0.55 | 1100 | 1000 | 570 | 102 | 60 | 40 | 25 |
| 040 | 4000 | 23.6 | 41.1 | 4.06 | 60 | 180 | 0.75 | 1100 | 1280 | 620 | 106 | 60 | 40 | 25 |
| 050 | 5000 | 28.6 | 51.3 | 4.92 | 40 | 200 | 0.45X2 | 1100 | 1500 | 620 | 132 | 61 | 40 | 25 |
| 060 | 6000 | 35 | 62 | 6.02 | 42 | 200 | 0.55X2 | 1100 | 1630 | 620 | 152 | 62 | 50 | 25 |
| 070 | 7000 | 41 | 71 | 7.05 | 56 | 250 | 0.75X2 | 1100 | 1730 | 680 | 210 | 63 | 50 | 25 |
| 080 | 8000 | 45.5 | 84.3 | 7.83 | 32 | 250 | 0.75X2 | 1100 | 1730 | 740 | 251 | 63 | 50 | 25 |
| 090 | 9000 | 53 | 92.5 | 9.12 | 36 | 250 | 0.75X2 | 1100 | 1830 | 740 | 282 | 65 | 50 | 25 |
| 105 | 10500 | 62.1 | 110 | 10.68 | 48 | 280 | 1.1X2 | 1200 | 2130 | 740 | 302 | 67 | 50 | 25 |
| 120 | 12000 | 71 | 133 | 12.21 | 62 | 280 | 1.1X2 | 1200 | 2130 | 840 | 307 | 67 | 50 | 25 |
| 135 | 13500 | 77 | 148 | 13.24 | 25.4 | 320 | 1.8X2 | 1200 | 2130 | 900 | 375 | 69 | 65 | 25 |
| 150 | 15000 | 86.5 | 153.5 | 14.88 | 26.4 | 320 | 2.2X2 | 1200 | 2130 | 970 | 386 | 70 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB27°C, WB19.5°C, inlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air DB21°C, inlet water temperature 60°C/50°C.
 3. The above external static pressure and motor power are for reference only
 4. If the actual operating conditions are different from the standard operating conditions, please refer to the correction coefficient table data in the sample for correction. Correction method: actual cooling (heat) amount = rated cooling (heat) amount x working condition correction coefficient.

5. RFPD/4X SERIES FRESH AIR CONDITION (Z TYPE, J TYPE)

| Model RFPD/4X | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Motor power kW | Dimension | | | Weight kg | Noise dB(A) | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|----------------------|-----------|------|-----|--------------|----------------|---------------------|---------------------|
| | | | | | | | | L | W | H | | | | |
| 010 | 1000 | 14 | 13.5 | 2.41 | 16.3 | 60 | 0.25 | 850 | 600 | 520 | 56 | 57 | 32 | 25 |
| 015 | 1500 | 20.2 | 19.8 | 3.47 | 34 | 60 | 0.25 | 950 | 650 | 570 | 63 | 57 | 40 | 25 |
| 020 | 2000 | 27 | 26.6 | 6.64 | 45 | 60 | 0.25 | 1100 | 750 | 570 | 81 | 58 | 40 | 25 |
| 025 | 2500 | 31 | 31.6 | 5.33 | 26 | 90 | 0.37 | 1100 | 850 | 570 | 83 | 59 | 40 | 25 |
| 030 | 3000 | 40 | 41.8 | 6.88 | 47 | 150 | 0.55 | 1100 | 1000 | 570 | 102 | 60 | 40 | 25 |
| 040 | 4000 | 50 | 52 | 8.6 | 31 | 180 | 0.75 | 1100 | 1280 | 620 | 106 | 60 | 40 | 25 |
| 050 | 5000 | 65 | 64 | 11.18 | 63 | 200 | 0.45X2 | 1100 | 1500 | 620 | 132 | 61 | 40 | 25 |
| 060 | 6000 | 73 | 74.2 | 12.56 | 12 | 200 | 0.55X2 | 1100 | 1630 | 620 | 152 | 62 | 50 | 25 |
| 070 | 7000 | 84 | 85.5 | 14.45 | 16 | 250 | 0.75X2 | 1100 | 1730 | 680 | 210 | 63 | 50 | 25 |
| 080 | 8000 | 101 | 102.2 | 17.37 | 14.5 | 250 | 0.75X2 | 1100 | 1730 | 740 | 251 | 63 | 50 | 25 |
| 090 | 9000 | 113 | 114.2 | 19.44 | 18.6 | 250 | 0.75X2 | 1100 | 1830 | 740 | 282 | 65 | 50 | 25 |
| 105 | 10500 | 135 | 136 | 23.22 | 29 | 280 | 1.1X2 | 1200 | 2130 | 740 | 302 | 67 | 50 | 25 |
| 120 | 12000 | 151 | 154 | 25.97 | 19.6 | 280 | 1.1X2 | 1200 | 2130 | 840 | 307 | 67 | 50 | 25 |
| 135 | 13500 | 166 | 179 | 28.55 | 16.3 | 320 | 1.8X2 | 1200 | 2130 | 900 | 375 | 69 | 65 | 25 |
| 150 | 15000 | 185 | 202 | 31.82 | 18.2 | 320 | 2.2X2 | 1200 | 2130 | 970 | 386 | 70 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB35°C, WB28°C, inlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air DB15°C, inlet water temperature 60°C/50°C.
 3. The above external static pressure and motor power are for reference only
 4. If the actual operating conditions are different from the standard operating conditions, please refer to the correction coefficient table data in the sample for correction. Correction method: actual cooling (heat) amount = rated cooling (heat) amount x working condition correction coefficient.

6. RFPD/6H SERIES RETURN AIR CONDITION (Z TYPE, J TYPE)

| Model RFPD/6H | Air flow m³/h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m³/h | Water D.P. kPa | ESP Pa | Motor power kW | Dimension | | | Weight kg | Noise dB(A) | Water pipe DN | Drain pipe DN |
|------------------|------------------|-----------------------------|-----------------------------|--------------------|-------------------|-----------|-------------------|-----------|------|-----|--------------|----------------|------------------|------------------|
| | | | | | | | | L | W | H | | | | |
| 010 | 1000 | 7.5 | 12.9 | 1.29 | 9 | 60 | 0.25 | 850 | 600 | 520 | 56 | 57 | 32 | 25 |
| 015 | 1500 | 11.3 | 20.6 | 1.94 | 18.6 | 60 | 0.25 | 950 | 650 | 570 | 63 | 57 | 40 | 25 |
| 020 | 2000 | 15.1 | 26.7 | 2.60 | 26.3 | 60 | 0.25 | 1100 | 750 | 570 | 81 | 58 | 40 | 25 |
| 025 | 2500 | 18.6 | 31.6 | 3.20 | 37.6 | 90 | 0.37 | 1100 | 850 | 570 | 83 | 59 | 40 | 25 |
| 030 | 3000 | 22.3 | 38.5 | 3.84 | 25 | 150 | 0.55 | 1100 | 1000 | 570 | 102 | 60 | 40 | 25 |
| 040 | 4000 | 31.1 | 50.2 | 5.35 | 49.1 | 180 | 0.75 | 1100 | 1280 | 620 | 106 | 60 | 50 | 25 |
| 050 | 5000 | 36.2 | 62.3 | 6.23 | 32.6 | 200 | 0.55X2 | 1100 | 1500 | 620 | 132 | 61 | 50 | 25 |
| 060 | 6000 | 44.6 | 74 | 7.67 | 45.1 | 200 | 0.55X2 | 1100 | 1630 | 620 | 152 | 62 | 50 | 25 |
| 070 | 7000 | 50.4 | 85 | 8.67 | 60.3 | 250 | 0.75X2 | 1100 | 1730 | 680 | 210 | 63 | 50 | 25 |
| 080 | 8000 | 58.9 | 99.2 | 10.13 | 55.6 | 250 | 0.75X2 | 1100 | 1730 | 740 | 251 | 63 | 50 | 25 |
| 090 | 9000 | 65.3 | 112.6 | 11.23 | 24.5 | 250 | 1.1X2 | 1100 | 1830 | 740 | 282 | 65 | 50 | 25 |
| 105 | 10500 | 75.8 | 137.1 | 13.04 | 22 | 280 | 1.1X2 | 1200 | 2130 | 740 | 302 | 67 | 65 | 25 |
| 120 | 12000 | 86.8 | 162 | 14.93 | 24 | 280 | 1.5X2 | 1200 | 2130 | 840 | 307 | 67 | 65 | 25 |
| 135 | 13500 | 103.4 | 175.8 | 17.78 | 60 | 320 | 2.2X2 | 1200 | 2130 | 900 | 375 | 69 | 65 | 25 |
| 150 | 15000 | 109.1 | 186.2 | 18.77 | 62 | 320 | 2.2X2 | 1200 | 2130 | 970 | 386 | 70 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB27°C, WB19.5°C, inlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air DB21°C, inlet water temperature 60°C/50°C.
 3. The above external static pressure and motor power are for reference only
 4. If the actual operating conditions are different from the standard operating conditions, please refer to the correction coefficient table data in the sample for correction. Correction method: actual cooling (heat) amount = rated cooling (heat) amount x working condition correction coefficient.

7. RFPD/6X SERIES FRESH AIR CONDITION (Z TYPE, J TYPE)

| Model RFPD/6X | Air flow m³/h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m³/h | Water D.P. kPa | ESP Pa | Motor power kW | Dimension | | | Weight kg | Noise dB(A) | Water pipe DN | Drain pipe DN |
|------------------|------------------|-----------------------------|-----------------------------|--------------------|-------------------|-----------|-------------------|-----------|------|-----|--------------|----------------|------------------|------------------|
| | | | | | | | | L | W | H | | | | |
| 010 | 1000 | 16 | 15.6 | 2.75 | 19 | 60 | 0.25 | 850 | 600 | 520 | 56 | 57 | 32 | 25 |
| 015 | 1500 | 25 | 24.8 | 4.30 | 51 | 60 | 0.25 | 950 | 650 | 570 | 63 | 57 | 40 | 25 |
| 020 | 2000 | 32 | 32.3 | 5.50 | 51 | 60 | 0.25 | 1100 | 750 | 570 | 81 | 58 | 40 | 25 |
| 025 | 2500 | 41 | 41.3 | 7.05 | 37 | 90 | 0.37 | 1100 | 850 | 570 | 83 | 59 | 40 | 25 |
| 030 | 3000 | 46 | 45.2 | 7.91 | 51 | 150 | 0.55 | 1100 | 1000 | 570 | 102 | 60 | 40 | 25 |
| 040 | 4000 | 64 | 62 | 11.01 | 56 | 180 | 0.75 | 1100 | 1280 | 620 | 106 | 60 | 50 | 25 |
| 050 | 5000 | 75 | 76 | 12.9 | 38 | 200 | 0.55X2 | 1100 | 1500 | 620 | 132 | 61 | 50 | 25 |
| 060 | 6000 | 93 | 92 | 16.00 | 26 | 200 | 0.55X2 | 1100 | 1630 | 620 | 152 | 62 | 50 | 25 |
| 070 | 7000 | 106 | 105 | 18.23 | 36 | 250 | 0.75X2 | 1100 | 1730 | 680 | 210 | 63 | 50 | 25 |
| 080 | 8000 | 121 | 120 | 20.81 | 40 | 250 | 0.75X2 | 1100 | 1730 | 740 | 251 | 63 | 50 | 25 |
| 090 | 9000 | 138 | 136 | 23.74 | 56 | 250 | 1.1X2 | 1100 | 1830 | 740 | 282 | 65 | 50 | 25 |
| 105 | 10500 | 160 | 159 | 27.52 | 77 | 280 | 1.1X2 | 1200 | 2130 | 740 | 302 | 67 | 65 | 25 |
| 120 | 12000 | 182 | 182 | 31.82 | 85 | 280 | 1.5X2 | 1200 | 2130 | 840 | 307 | 67 | 65 | 25 |
| 135 | 13500 | 223 | 216 | 38.36 | 71 | 320 | 2.2X2 | 1200 | 2130 | 900 | 375 | 69 | 65 | 25 |
| 150 | 15000 | 245 | 241 | 42.14 | 93 | 320 | 2.2X2 | 1200 | 2130 | 970 | 386 | 70 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB35°C, WB28°C, inlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air DB15°C, inlet water temperature 60°C/50°C.
 3. The above external static pressure and motor power are for reference only
 4. If the actual operating conditions are different from the standard operating conditions, please refer to the correction coefficient table data in the sample for correction. Correction method: actual cooling (heat) amount = rated cooling (heat) amount x working condition correction coefficient.

8. RFPD/8H SERIES RETURN AIR CONDITION (Z TYPE, J TYPE)

| Model RFPD/8H | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Motor power kW | Dimension | | | Weight kg | Noise dB(A) | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|----------------------|-----------|------|-----|--------------|----------------|---------------------|---------------------|
| | | | | | | | | L | W | H | | | | |
| 010 | 1000 | 8.2 | 13.9 | 1.41 | 9 | 60 | 0.32 | 850 | 600 | 520 | 56 | 57 | 32 | 25 |
| 015 | 1500 | 13 | 21 | 2.24 | 18.6 | 60 | 0.32 | 950 | 650 | 570 | 63 | 57 | 40 | 25 |
| 020 | 2000 | 17 | 28 | 2.92 | 26.3 | 60 | 0.32 | 1100 | 750 | 570 | 81 | 58 | 40 | 25 |
| 025 | 2500 | 21 | 35 | 3.61 | 47 | 90 | 0.37 | 1100 | 850 | 570 | 83 | 59 | 40 | 25 |
| 030 | 3000 | 25 | 41 | 4.30 | 34 | 150 | 0.55 | 1100 | 1000 | 570 | 102 | 60 | 40 | 25 |
| 040 | 4000 | 35 | 55.3 | 6.02 | 65 | 180 | 0.75 | 1100 | 1280 | 620 | 106 | 60 | 50 | 25 |
| 050 | 5000 | 42 | 70 | 7.22 | 42 | 200 | 0.55X2 | 1100 | 1500 | 620 | 132 | 61 | 50 | 25 |
| 060 | 6000 | 50 | 83 | 8.60 | 30.6 | 200 | 0.75X2 | 1100 | 1630 | 620 | 152 | 62 | 50 | 25 |
| 070 | 7000 | 57 | 96 | 9.80 | 44 | 250 | 1.1X2 | 1100 | 1730 | 680 | 210 | 63 | 50 | 25 |
| 080 | 8000 | 63 | 107 | 10.84 | 46 | 250 | 1.1X2 | 1100 | 1730 | 740 | 251 | 63 | 50 | 25 |
| 090 | 9000 | 76 | 124 | 13.07 | 33 | 250 | 1.1X2 | 1100 | 1830 | 740 | 282 | 65 | 50 | 25 |
| 105 | 10500 | 84 | 142 | 14.45 | 42 | 280 | 1.5X2 | 1200 | 2130 | 740 | 302 | 67 | 65 | 25 |
| 120 | 12000 | 92 | 162 | 15.82 | 16 | 280 | 1.8X2 | 1200 | 2130 | 840 | 307 | 67 | 65 | 25 |
| 135 | 13500 | 116 | 190 | 19.95 | 45 | 320 | 2.2X2 | 1200 | 2130 | 900 | 375 | 69 | 65 | 25 |
| 150 | 15000 | 125 | 206 | 21.50 | 45 | 320 | 3X2 | 1200 | 2130 | 970 | 386 | 70 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB27°C, WB19.5°C, inlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air DB21°C, inlet water temperature 60°C/50°C.
 3. The above external static pressure and motor power are for reference only
 4. If the actual operating conditions are different from the standard operating conditions, please refer to the correction coefficient table data in the sample for correction. Correction method: actual cooling (heat) amount = rated cooling (heat) amount x working condition correction coefficient.

9. RFPD/8X SERIES FRESH AIR CONDITION (Z TYPE, J TYPE)

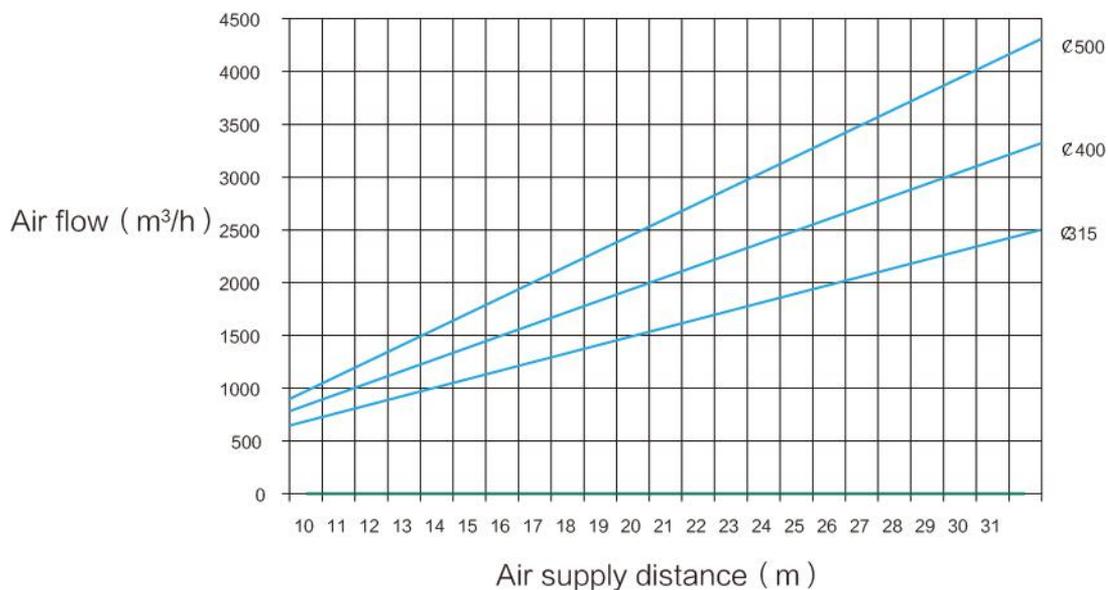
| Model RFPD/4X | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Motor power kW | Dimension | | | Weight kg | Noise dB(A) | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|----------------------|-----------|------|-----|--------------|----------------|---------------------|---------------------|
| | | | | | | | | L | W | H | | | | |
| 010 | 1000 | 18.2 | 17.2 | 3.13 | 30 | 60 | 0.32 | 850 | 600 | 520 | 56 | 57 | 32 | 25 |
| 015 | 1500 | 27.2 | 26.1 | 4.68 | 46 | 60 | 0.32 | 950 | 650 | 570 | 63 | 57 | 40 | 25 |
| 020 | 2000 | 36.3 | 35.1 | 6.24 | 49 | 60 | 0.32 | 1100 | 750 | 570 | 81 | 58 | 40 | 25 |
| 025 | 2500 | 45.2 | 42.8 | 7.77 | 30 | 90 | 0.37 | 1100 | 850 | 570 | 83 | 59 | 40 | 25 |
| 030 | 3000 | 55.2 | 49.1 | 9.49 | 43 | 150 | 0.55 | 1100 | 1000 | 570 | 102 | 60 | 40 | 25 |
| 040 | 4000 | 71 | 65 | 12.21 | 46 | 180 | 0.75 | 1100 | 1280 | 620 | 106 | 60 | 50 | 25 |
| 050 | 5000 | 84.5 | 80.3 | 14.53 | 26 | 200 | 0.55X2 | 1100 | 1500 | 620 | 132 | 61 | 50 | 25 |
| 060 | 6000 | 106.1 | 99.2 | 18.25 | 27.2 | 200 | 0.75X2 | 1100 | 1630 | 620 | 152 | 62 | 50 | 25 |
| 070 | 7000 | 120.1 | 115.3 | 20.66 | 32.2 | 250 | 1.1X2 | 1100 | 1730 | 680 | 210 | 63 | 50 | 25 |
| 080 | 8000 | 138 | 131.4 | 23.74 | 36 | 250 | 1.1X2 | 1100 | 1730 | 740 | 251 | 63 | 50 | 25 |
| 090 | 9000 | 163 | 150 | 28.04 | 43 | 250 | 1.1X2 | 1100 | 1830 | 740 | 282 | 65 | 50 | 25 |
| 105 | 10500 | 185 | 171 | 31.82 | 55 | 280 | 1.5X2 | 1200 | 2130 | 740 | 302 | 67 | 65 | 25 |
| 120 | 12000 | 211 | 194 | 36.29 | 62 | 280 | 1.8X2 | 1200 | 2130 | 840 | 307 | 67 | 65 | 25 |
| 135 | 13500 | 252 | 231 | 43.34 | 58 | 320 | 2.2X2 | 1200 | 2130 | 900 | 375 | 69 | 65 | 25 |
| 150 | 15000 | 262 | 245 | 45.06 | 60 | 320 | 3X2 | 1200 | 2130 | 970 | 386 | 70 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB35°C, WB28°C, inlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air DB15°C, inlet water temperature 60°C/50°C.
 3. The above external static pressure and motor power are for reference only
 4. If the actual operating conditions are different from the standard operating conditions, please refer to the correction coefficient table data in the sample for correction. Correction method: actual cooling (heat) amount = rated cooling (heat) amount x working condition correction coefficient.

10. RFPD SERIES HEATING COIL SPECIFICATION (Z TYPE, J TYPE)

| Model RFPD | Air flow m ³ /h | Return air condition | | | | | | | Fresh air condition | | | | | | | | |
|------------|----------------------------|-----------------------|------------------------------|----------------|-----------------------|------------------------------|----------------|-----------------------|---------------------|------------------------------|----------------|-----------------------|------------------------------|----------------|----|--|---------------|
| | | 1 row heating coil | | | 2 rows heating coil | | | | Water pipe DN | 1 row heating coil | | | 2 rows heating coil | | | | Water pipe DN |
| | | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | Rated heating cap. kW | | Water flow m ³ /h | Water D.P. kPa | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | | | |
| 010 | 1000 | 3.0 | 0.52 | 0.2 | 6.3 | 1.05 | 1.0 | 32 | 4.5 | 0.77 | 0.6 | 7.6 | 1.31 | 0.8 | 32 | | |
| 015 | 1500 | 4.4 | 0.76 | 0.2 | 10.2 | 1.75 | 2.2 | 40 | 6.1 | 1.05 | 0.7 | 11.9 | 2.05 | 2.3 | 40 | | |
| 020 | 2000 | 6.8 | 1.17 | 0.6 | 14.4 | 2.48 | 2.9 | 40 | 9.2 | 1.58 | 1.2 | 17.5 | 3.01 | 4.2 | 40 | | |
| 025 | 2500 | 8.5 | 1.46 | 0.8 | 17.8 | 3.06 | 3.1 | 40 | 11.3 | 1.94 | 1.2 | 22.1 | 3.80 | 4.7 | 40 | | |
| 030 | 3000 | 11.1 | 1.91 | 1.3 | 21.1 | 3.63 | 5.2 | 40 | 14.2 | 2.44 | 2.1 | 26.8 | 4.61 | 8.8 | 40 | | |
| 040 | 4000 | 15.1 | 2.60 | 1.4 | 28.0 | 4.82 | 6.8 | 40 | 19.1 | 3.29 | 2.3 | 34.7 | 5.97 | 10.1 | 40 | | |
| 050 | 5000 | 19.5 | 3.35 | 2.4 | 36.5 | 6.28 | 12 | 40 | 25.3 | 4.35 | 5.1 | 43.2 | 7.43 | 15.2 | 40 | | |
| 060 | 6000 | 23.3 | 4.01 | 3.1 | 42 | 7.22 | 14.9 | 40 | 31.1 | 5.35 | 5.1 | 51.8 | 8.91 | 18.8 | 40 | | |
| 070 | 7000 | 28.2 | 4.85 | 4.2 | 48.8 | 8.39 | 18.2 | 40 | 34.2 | 5.88 | 6.2 | 62.2 | 10.70 | 28.2 | 40 | | |
| 080 | 8000 | 32.1 | 5.52 | 3.8 | 56.7 | 9.75 | 18.6 | 40 | 41.1 | 7.07 | 7.4 | 71.4 | 12.28 | 26.1 | 40 | | |
| 090 | 9000 | 37.7 | 6.48 | 5.2 | 65.4 | 11.25 | 25.6 | 40 | 46.2 | 7.95 | 9.5 | 79.3 | 13.64 | 32.8 | 40 | | |
| 105 | 10500 | 44.2 | 7.60 | 8.5 | 78.1 | 13.43 | 33.4 | 40 | 53.3 | 9.17 | 12.8 | 95.2 | 16.37 | 42.3 | 40 | | |
| 120 | 12000 | 51.3 | 8.82 | 9.8 | 89.6 | 15.41 | 37.2 | 40 | 61.1 | 10.51 | 14.1 | 110.1 | 18.94 | 49.2 | 40 | | |
| 135 | 13500 | 57.2 | 9.84 | 9.8 | 99.7 | 17.15 | 38.2 | 40 | 68.2 | 11.73 | 15.4 | 121.5 | 20.90 | 49.6 | 40 | | |
| 150 | 15000 | 62.8 | 10.80 | 10.1 | 109.2 | 18.78 | 39.6 | 40 | 73.9 | 12.71 | 17.2 | 131.4 | 22.60 | 51.4 | 40 | | |

11. JET AIR OUTLET SELECTION TABLE



In the figure, the air volume is the air volume of a single tuyere, and the range refers to the horizontal distance between the position and the tuyere when the axial wind speed is 0.5m/s.

12. RECOMMENDATION TABLE FOR RANGE SELECTION

Comprehensively considering the performance parameters of the unit and the spherical nozzle, the following table shows the recommended selection range for the horizontal air supply of each jet type unit.

| Model(FPD/S) | 010S | 015S | 020S | 030S | 040S | 050S | 060S | 070S | 080S | 090S | 105S | 120S | 135S | 150S |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Range (M) | 14 | 20 | 21 | 21 | 21 | 25 | 25 | 27 | 30 | 30 | 31 | 31 | 33 | 33 |
| Air supply distance (M) | 20 | 23 | 27 | 27 | 27 | 31 | 32 | 34 | 36 | 36 | 38 | 38 | 38 | 38 |

The diffusion coefficient of the jet type unit is 0.4, and the airflow diffusion angle should be considered when the unit is arranged. The distance should not be too large. The unit can be arranged unilaterally or oppositely. When the range is not enough, the induction fan can be used to continuously transmit the airflow. The longitudinal spacing is 4-6 meters, and the horizontal spacing is 7-10 meters.

13. DESCRIPTION OF SELECTION OF JET UNIT

Jet type air handling unit adopts spherical nozzles as the air supply method, and its design and calculation are the same as the thermal performance calculation method of conventional ceiling-mounted units, and its design selection is mainly air group design.

For specific project, after the installation height, air supply temperature, air flow and air supply distance of the selected unit are determined, the cold and hot air flow sent by the unit must meet the following conditions.

Using condition

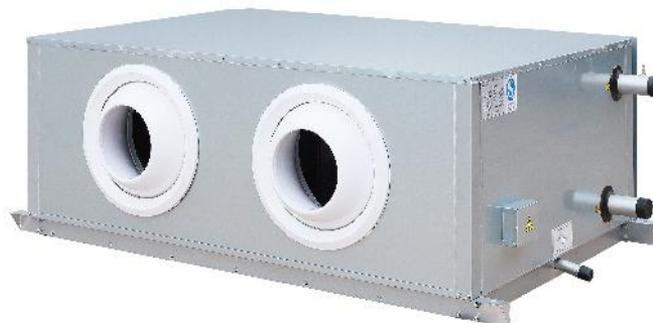
1. To send cold or hot air to a predetermined location.
2. The temperature difference meets the design requirements.
3. Satisfy the use requirements, especially the hot air should reach to the distance and position.
4. The cold or hot air flow will not fall halfway, causing discomfort to the human body.

If multiple units are working together, the mutual influence and interaction between multiple units should be considered.

The diffusion width of the jet type unit is about 0.4 times the range, so the arrangement density of the unit should be slightly smaller than the diffusion width.

When the unit is installed close to the ceiling, the influence of the air flow should be considered.

The air supply distance of the attached air flow is 1.4 times of the general air flow.



Relationship between air pressure and power of RFPD series units

| FPD | Rated air flow | Cooling coil rows | External static pressure Pa | | | | | | | | | | | | | | |
|-----|----------------|-------------------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| | | | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 | | |
| 010 | 1000 | 4 | 0.18 | 0.25 | 0.25 | 0.32 | 0.32 | 0.32 | / | / | / | / | / | / | / | / | / |
| | | 6 | 0.25 | 0.25 | 0.32 | 0.32 | 0.32 | / | / | / | / | / | / | / | / | / | / |
| | | 8 | 0.25 | 0.32 | 0.32 | 0.32 | / | / | / | / | / | / | / | / | / | / | / |
| 015 | 1500 | 4 | 0.18 | 0.25 | 0.25 | 0.32 | 0.32 | 0.32 | 0.32 | 0.55 | 0.55 | / | / | / | / | / | / |
| | | 6 | 0.25 | 0.25 | 0.32 | 0.32 | 0.32 | 0.32 | 0.55 | 0.55 | / | / | / | / | / | / | / |
| | | 8 | 0.25 | 0.32 | 0.32 | 0.32 | 0.32 | 0.55 | 0.55 | / | / | / | / | / | / | / | / |
| 020 | 2000 | 4 | 0.25 | 0.25 | 0.25 | 0.32 | 0.37 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | / | / | / | / | / |
| | | 6 | 0.25 | 0.25 | 0.32 | 0.37 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | / | / | / | / | / |
| | | 8 | 0.25 | 0.32 | 0.37 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | / | / | / | / | / | / | / |
| 025 | 2500 | 4 | 0.25 | 0.25 | 0.37 | 0.37 | 0.45 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | / | / | / | / | / |
| | | 6 | 0.25 | 0.37 | 0.37 | 0.45 | 0.55 | 0.5 | 0.55 | 0.55 | 0.55 | 0.55 | / | / | / | / | / |
| | | 8 | 0.37 | 0.37 | 0.45 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | / | / | / | / | / | / | / |
| 030 | 3000 | 4 | 0.25 | 0.25 | 0.55 | 0.55 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | / | / | / | / |
| | | 6 | 0.25 | 0.55 | 0.55 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | / | / | / | / | / |
| | | 8 | 0.55 | 0.55 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | / | / | / | / | / | / |
| 040 | 4000 | 4 | / | / | / | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | / | / | / | / |
| | | 6 | / | / | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | / | / | / | / | / |
| | | 8 | / | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | / | / | / | / | / | / |
| 050 | 5000 | 4 | 0.25*2 | 0.25*2 | 0.37*2 | 0.37*2 | 0.45*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55* | / | / | / | / |
| | | 6 | 0.25*2 | 0.37*2 | 0.37*2 | 0.45*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | / | / | / | / | / |
| | | 8 | 0.37*2 | 0.37*2 | 0.45*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | / | / | / | / | / | / |
| 060 | 6000 | 4 | 0.25*2 | 0.25*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | / | / | / | / |
| | | 6 | 0.25*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | / | / | / | / | / |
| | | 8 | 0.55*2 | 0.55*2 | 0.55*2 | 0.55*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | / | / | / | / | / | / |
| 070 | 7000 | 4 | / | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | / | / | / | / |
| | | 6 | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | / | / | / | / | / |
| | | 8 | / | 0.75*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | / | / | / | / | / | / |
| 080 | 8000 | 4 | / | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | / | / | / | / |
| | | 6 | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | / | / | / | / | / |
| | | 8 | / | 0.75*2 | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | / | / | / | / | / | / |
| 090 | 9000 | 4 | / | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.5*2 | 1.5*2 | 1.5*2 | 1.5*2 | / |
| | | 6 | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.5*2 | 1.5*2 | 1.5*2 | 1.5*2 | 1.5*2 | / |
| | | 8 | / | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.1*2 | 1.5*2 | 1.5*2 | 1.5*2 | 1.5*2 | 1.5*2 | 1.8*2 | 1.8*2 | / |
| 105 | 10500 | 4 | / | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.5*2 | 1.8*2 | 1.8*2 | 1.8*2 | 1.8*2 | 2.2*2 | 2.2*2 |
| | | 6 | / | / | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.5*2 | 1.8*2 | 1.8*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | / |
| | | 8 | / | 0.75*2 | 0.75*2 | 0.75*2 | 1.1*2 | 1.1*2 | 1.5*2 | 1.8*2 | 1.8*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | 3*2 | / |
| 120 | 12000 | 4 | / | / | / | / | / | 1.1*2 | 1.1*2 | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | / |
| | | 6 | / | / | / | / | 1.1*2 | 1.1*2 | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | / |
| | | 8 | / | / | 1.1*2 | 1.1*2 | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 3*2 | / |
| 135 | 13500 | 4 | / | / | / | / | / | 1.5*2 | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 3*2 | / |
| | | 6 | / | / | / | / | 1.5*2 | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 3*2 | 3*2 | / |
| | | 8 | / | / | 1.5*2 | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 2.2*2 | 3*2 | 3*2 | 4*2 | / | |
| 150 | 15000 | 4 | / | / | / | / | / | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 3*2 | 3*2 | 3*2 | 4*2 | 4*2 | / |
| | | 6 | / | / | / | / | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 3*2 | 3*2 | 3*2 | 4*2 | 4*2 | / | |
| | | 8 | / | / | 1.5*2 | 1.8*2 | 2.2*2 | 2.2*2 | 3*2 | 3*2 | 3*2 | 4*2 | 4*2 | 5.5*2 | / | | |

14.RFPD/4SH SERIES RETURN AIR CONDITION (Z TYPE, J TYPE)

| Model FPD/4SH | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Dimension | | | Weight kg | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|-----------|------|-----|--------------|---------------------|---------------------|
| | | | | | | | L | W | H | | | |
| 010 | 1000 | 5.1 | 10.2 | 0.88 | 3.0 | 0.18 | 1600 | 1000 | 630 | 76 | 40 | 25 |
| 015 | 1500 | 8.4 | 15.2 | 1.44 | 8.6 | 0.18 | 1600 | 1000 | 630 | 87 | 40 | 25 |
| 020 | 2000 | 11.7 | 21.4 | 2.01 | 10.8 | 0.32 | 1600 | 1200 | 650 | 102 | 40 | 25 |
| 025 | 2500 | 14.7 | 25.4 | 2.53 | 17.6 | 0.55 | 1600 | 1200 | 650 | 113 | 40 | 25 |
| 030 | 3000 | 17.9 | 31.5 | 3.08 | 32.0 | 1.1 | 1800 | 1400 | 650 | 120 | 40 | 25 |
| 040 | 4000 | 23.6 | 41.1 | 4.06 | 60.0 | 1.1 | 1800 | 1500 | 650 | 138 | 40 | 25 |
| 050 | 5000 | 28.6 | 51.3 | 4.92 | 40.0 | 1.5 | 1800 | 1800 | 680 | 166 | 40 | 25 |
| 060 | 6000 | 35 | 62 | 6.02 | 42.0 | 1.5 | 1800 | 1900 | 780 | 182 | 50 | 25 |
| 070 | 7000 | 41 | 71 | 7.05 | 56.0 | 1.5 | 1800 | 2000 | 780 | 240 | 50 | 25 |
| 080 | 8000 | 45.5 | 84.3 | 7.83 | 25.0 | 2.2 | 1800 | 2000 | 830 | 280 | 50 | 25 |
| 090 | 9000 | 53 | 92.5 | 9.12 | 34.0 | 2.2 | 1800 | 2500 | 830 | 325 | 50 | 25 |
| 105 | 10500 | 62.1 | 110 | 10.68 | 50.0 | 2.2 | 1900 | 2500 | 830 | 342 | 50 | 25 |
| 120 | 12000 | 71 | 133 | 12.21 | 28.0 | 4.0 | 1900 | 2500 | 880 | 357 | 50 | 25 |

- Note:**
1. Cooling conditions: inlet air DB temperature 27°C, WB temperature 19.5°C, inlet and outlet water temperature 7°C/12°C.
 2. Heating conditions: the inlet air DB temperature is 15°C, the hot water inlet temperature is 60°C, and the water flow is the same as the cooling.
 3. There is no residual pressure at the outlet of the equipment. If an external return air duct is required, please specify when ordering.
 4. The motor power is for reference only.

15.RFPD/4SX SERIES FRESH AIR CONDITION (Z TYPE, J TYPE)

| Model FPD/4SX | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Dimension | | | Weight kg | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|-----------|------|-----|--------------|---------------------|---------------------|
| | | | | | | | L | W | H | | | |
| 010 | 1000 | 14.2 | 14.3 | 2.44 | 3.0 | 0.18 | 1600 | 1000 | 630 | 76 | 40 | 25 |
| 015 | 1500 | 20.2 | 21.1 | 3.47 | 8.6 | 0.18 | 1600 | 1000 | 630 | 87 | 40 | 25 |
| 020 | 2000 | 27.7 | 28.8 | 4.76 | 10.8 | 0.32 | 1600 | 1200 | 650 | 102 | 40 | 25 |
| 025 | 2500 | 36.2 | 37.6 | 6.23 | 17.6 | 0.55 | 1600 | 1200 | 650 | 113 | 40 | 25 |
| 030 | 3000 | 41.1 | 42.6 | 7.07 | 32.0 | 1.1 | 1800 | 1400 | 650 | 120 | 40 | 25 |
| 040 | 4000 | 51.1 | 53.4 | 8.79 | 60.0 | 1.1 | 1800 | 1500 | 650 | 138 | 40 | 25 |
| 050 | 5000 | 65.5 | 66.2 | 11.27 | 40.0 | 1.5 | 1800 | 1800 | 680 | 166 | 40 | 25 |
| 060 | 6000 | 73.6 | 78.8 | 12.66 | 42.0 | 1.5 | 1800 | 1900 | 780 | 182 | 50 | 25 |
| 070 | 7000 | 85.2 | 89.6 | 14.65 | 56.0 | 1.5 | 1800 | 2000 | 780 | 240 | 50 | 25 |
| 080 | 8000 | 102.3 | 105.5 | 17.60 | 25.0 | 2.2 | 1800 | 2000 | 830 | 280 | 50 | 25 |
| 090 | 9000 | 116.2 | 115.4 | 19.99 | 34.0 | 2.2 | 1800 | 2500 | 830 | 325 | 50 | 25 |
| 105 | 10500 | 131.2 | 132.1 | 22.57 | 50.0 | 2.2 | 1900 | 2500 | 830 | 342 | 50 | 25 |
| 120 | 12000 | 150.6 | 157.6 | 25.90 | 28.0 | 4.0 | 1900 | 2500 | 880 | 357 | 50 | 25 |

- Note:**
1. Cooling conditions: inlet air DB temperature 35°C, WB temperature 28°C, inlet and outlet water temperature 7°C/12°C.
 2. Heating conditions: the inlet air DB temperature is 15°C, the hot water inlet temperature is 60°C, and the water flow is the same as the cooling.
 3. There is no residual pressure at the outlet of the equipment. If an external return air duct is required, please specify when ordering.
 4. The motor power is for reference only.

16.RFPD/6SH SERIES RETURN AIR CONDITION (Z TYPE, J TYPE)

| Model FPD/6SH | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Dimension | | | Weight kg | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|-----------|------|-----|--------------|---------------------|---------------------|
| | | | | | | | L | W | H | | | |
| 010 | 1000 | 7.2 | 13.2 | 1.24 | 3.0 | 0.25 | 1600 | 1000 | 630 | 83 | 40 | 25 |
| 015 | 1500 | 12.2 | 22.9 | 2.10 | 8.6 | 0.25 | 1600 | 1000 | 630 | 96 | 40 | 25 |
| 020 | 2000 | 15 | 27.6 | 2.58 | 10.8 | 0.45 | 1600 | 1200 | 650 | 112 | 40 | 25 |
| 025 | 2500 | 19.2 | 33.7 | 3.30 | 17.6 | 0.45 | 1600 | 1200 | 650 | 126 | 40 | 25 |
| 030 | 3000 | 23.3 | 38.3 | 4.01 | 32.0 | 1.1 | 1800 | 1400 | 650 | 131 | 40 | 25 |
| 040 | 4000 | 31.3 | 51.1 | 5.38 | 60.0 | 1.1 | 1800 | 1500 | 650 | 150 | 50 | 25 |
| 050 | 5000 | 36.1 | 63.2 | 6.21 | 40.0 | 1.5 | 1800 | 1800 | 680 | 179 | 50 | 25 |
| 060 | 6000 | 44.6 | 75.5 | 7.67 | 42.0 | 2.2 | 1800 | 1900 | 780 | 204 | 50 | 25 |
| 070 | 7000 | 50.5 | 87.3 | 8.69 | 56.0 | 2.2 | 1800 | 2000 | 780 | 252 | 50 | 25 |
| 080 | 8000 | 58.3 | 101.1 | 10.08 | 25.0 | 3.0 | 1800 | 2000 | 830 | 304 | 50 | 25 |
| 090 | 9000 | 66.4 | 112.3 | 11.42 | 34.0 | 3.0 | 1800 | 2500 | 830 | 345 | 50 | 25 |
| 105 | 10500 | 76.8 | 137.2 | 13.21 | 50.0 | 3.0 | 1900 | 2500 | 830 | 356 | 65 | 25 |
| 120 | 12000 | 87.2 | 165.2 | 15.00 | 28.0 | 4.0 | 1900 | 2500 | 880 | 367 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB temperature 27°C, WB temperature 19.5°C, inlet and outlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air dry DB temperature is 15°C, the hot water inlet temperature is 60°C, and the water flow is the same as the cooling.
 3. There is no residual pressure at the outlet of the equipment. If an external return air duct is required, please specify when ordering.
 4. The motor power is for reference only.

17.RFPD/6SX SERIES FRESH AIR CONDITION (Z TYPE, J TYPE)

| Model FPD/6SX | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Dimension | | | Weight kg | Water pipe DN | Drain pipe DN |
|------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|-----------|------|-----|--------------|---------------------|---------------------|
| | | | | | | | L | W | H | | | |
| 010 | 1000 | 16.2 | 16.4 | 2.79 | 3.0 | 0.25 | 1600 | 1000 | 630 | 83 | 40 | 25 |
| 015 | 1500 | 21.3 | 22.9 | 3.66 | 8.6 | 0.25 | 1600 | 1000 | 630 | 96 | 40 | 25 |
| 020 | 2000 | 32 | 33.1 | 5.50 | 10.8 | 0.45 | 1600 | 1200 | 650 | 112 | 40 | 25 |
| 025 | 2500 | 38.7 | 39.2 | 6.66 | 17.6 | 0.45 | 1600 | 1200 | 650 | 126 | 40 | 25 |
| 030 | 3000 | 46.3 | 47 | 7.96 | 32.0 | 1.1 | 1800 | 1400 | 650 | 131 | 40 | 25 |
| 040 | 4000 | 65.3 | 66.1 | 11.23 | 60.0 | 1.1 | 1800 | 1500 | 650 | 150 | 50 | 25 |
| 050 | 5000 | 77.4 | 77.9 | 13.31 | 40.0 | 1.5 | 1800 | 1800 | 680 | 179 | 50 | 25 |
| 060 | 6000 | 93.3 | 92.2 | 16.05 | 42.0 | 2.2 | 1800 | 1900 | 780 | 204 | 50 | 25 |
| 070 | 7000 | 108.6 | 109.2 | 18.68 | 56.0 | 2.2 | 1800 | 2000 | 780 | 252 | 50 | 25 |
| 080 | 8000 | 122.6 | 122.2 | 21.09 | 25.0 | 3.0 | 1800 | 2000 | 830 | 304 | 50 | 25 |
| 090 | 9000 | 140.1 | 141.3 | 24.10 | 34.0 | 3.0 | 1800 | 2500 | 830 | 345 | 50 | 25 |
| 105 | 10500 | 163.2 | 162.4 | 28.07 | 50.0 | 3.0 | 1900 | 2500 | 830 | 356 | 65 | 25 |
| 120 | 12000 | 188.8 | 187.5 | 32.47 | 28.0 | 4.0 | 1900 | 2500 | 880 | 367 | 65 | 25 |

- Note:**
1. Cooling conditions: inlet air DB temperature 35°C, WB temperature 28°C, inlet and outlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air dry DB temperature is 15°C, the hot water inlet temperature is 60°C, and the water flow is the same as the cooling.
 3. There is no residual pressure at the outlet of the equipment. If an external return air duct is required, please specify when ordering.
 4. The motor power is for reference only.

18.RELATIONSHIP TABLE OF AIR PRESSURE AND POWER FOR RFPD SERIES UNIT (Z TYPE, J TYPE)

| FPD | Rated air flow | Coil rows | ESP Pa | | | | | | | | | | | | |
|-----|----------------|-----------|--------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| | | | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 |
| 030 | 3000 | 4 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | | | |
| | | 6 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | | | |
| | | 8 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | | | |
| 040 | 4000 | 4 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | | |
| | | 6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | |
| | | 8 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | | |
| 050 | 5000 | 4 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | | |
| | | 6 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | | |
| | | 8 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | | |
| 060 | 6000 | 4 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | | | |
| | | 6 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | | | |
| | | 8 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | | | |
| 070 | 7000 | 4 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | | | |
| | | 6 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | | | |
| | | 8 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| 080 | 8000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| | | 6 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | | | |
| | | 8 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | | |
| 090 | 9000 | 4 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| | | 6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| | | 8 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | | |
| 105 | 10500 | 4 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | | |
| | | 6 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | |
| | | 8 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | |
| 120 | 12000 | 4 | | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | |
| | | 6 | | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | | |
| | | 8 | | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | | |
| 135 | 13500 | 4 | | | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 |
| | | 6 | | | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 |
| | | 8 | | | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 150 | 15000 | 4 | | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | |
| | | 6 | | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | |
| | | 8 | | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | |

- Note:**
1. Cooling conditions: inlet air DB temperature 38°C, WB temperature 28°C, inlet and outlet water temperature 7°C/12°C.
 2. Heating conditions: inlet air DB temperature is 15°C, inlet and outlet hot water temperature 60°C/50°C.
 3. The motor power is for reference only.
 4. If the actual operating conditions are different from the standard operating conditions, please refer to the correction coefficient table data for correction. Correction method: Actual cooling (heating) capacity = Rated cooling (heating) capacity x correction coefficient.

19.RFPD/4TH VARIABLE SPEED SERIES RETURN AIR CONDITION

| Model RFPD/4TH | Air flow m³/h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m³/h | Water D.P. kPa | ESP Pa | Dimension mm | | | Water pipe DN | Drain pipe DN | Weight kg | Motor power kg | Noise dB(A) | Rated current A | Power supply |
|-------------------|------------------|--------------------------------|--------------------------------|-----------------------|----------------------|-----------|--------------|------|------|---------------------|---------------------|--------------|----------------------|----------------|-----------------------|-----------------|
| | | | | | | | L | W | H | | | | | | | |
| 010 | H | 1000 | 6.2 | 11.3 | 1.1 | 21.9 | 140 | 1050 | 1000 | 560 | 40 | 25 | 58 | 0.35 | 52 | 1.4 |
| | M | 850 | 5.1 | 9.1 | 0.9 | 16.9 | 110 | | | | | | | | | |
| | L | 580 | 4.4 | 6.9 | 0.8 | 13.0 | 90 | | | | | | | | | |
| 015 | H | 1500 | 8.4 | 15.2 | 1.4 | 42.7 | 140 | 1050 | 1000 | 560 | 40 | 25 | 60 | 0.45 | 52 | 1.7 |
| | M | 1300 | 6.9 | 13.1 | 1.2 | 32.9 | 110 | | | | | | | | | |
| | L | 860 | 5.7 | 10.2 | 1.0 | 25.3 | 90 | | | | | | | | | |
| 020 | H | 2000 | 12.9 | 22.3 | 2.2 | 47.7 | 140 | 1050 | 1100 | 620 | 40 | 25 | 80 | 0.5 | 54 | 3.2 |
| | M | 1800 | 11.1 | 19.6 | 1.9 | 36.7 | 110 | | | | | | | | | |
| | L | 1200 | 8.8 | 15.2 | 1.5 | 28.3 | 90 | | | | | | | | | |
| 025 | H | 2500 | 14.4 | 26.5 | 2.5 | 51.5 | 190 | 1200 | 1100 | 620 | 40 | 25 | 85 | 0.7 | 55 | 3.5 |
| | M | 2200 | 12.1 | 22.4 | 2.1 | 39.7 | 150 | | | | | | | | | |
| | L | 1520 | 10.1 | 17.1 | 1.7 | 30.5 | 120 | | | | | | | | | |
| 030 | H | 3000 | 16.8 | 30.2 | 2.9 | 13.1 | 190 | 1200 | 1250 | 620 | 40 | 25 | 95 | 0.7 | 57 | 3.5 |
| | M | 2600 | 14.0 | 26.1 | 2.4 | 10.1 | 150 | | | | | | | | | |
| | L | 1800 | 11.4 | 20.4 | 2.0 | 7.8 | 120 | | | | | | | | | |
| 040 | H | 4000 | 23.2 | 39.2 | 4.0 | 23.6 | 160 | 1200 | 1450 | 620 | 40 | 25 | 105 | 1.0 | 58 | 5.0 |
| | M | 3500 | 19.1 | 34.5 | 3.3 | 18.2 | 130 | | | | | | | | | |
| | L | 2400 | 16.1 | 25.9 | 2.8 | 14.0 | 100 | | | | | | | | | |
| 050 | H | 5000 | 31.2 | 51.2 | 5.4 | 43.5 | 160 | 1200 | 1800 | 620 | 40 | 25 | 136 | 1.4 | 60 | 7.0 |
| | M | 4300 | 26.1 | 43.2 | 4.5 | 33.5 | 130 | | | | | | | | | |
| | L | 3000 | 21.3 | 33.5 | 3.7 | 25.8 | 100 | | | | | | | | | |
| 060 | H | 6000 | 37.2 | 60.1 | 6.4 | 49.6 | 220 | 1200 | 1800 | 700 | 40 | 25 | 152 | 2.3 | 62 | 9.0 |
| | M | 5000 | 30.4 | 51.6 | 5.2 | 38.2 | 175 | | | | | | | | | |
| | L | 3500 | 25.1 | 39.4 | 4.3 | 29.4 | 140 | | | | | | | | | |
| 070 | H | 7000 | 43.3 | 71.6 | 7.4 | 47.7 | 260 | 1200 | 1900 | 800 | 50 | 25 | 158 | 2.7 | 62 | 12.0 |
| | M | 6000 | 36.7 | 62.8 | 6.3 | 36.7 | 210 | | | | | | | | | |
| | L | 4200 | 30.5 | 46.8 | 5.2 | 28.3 | 165 | | | | | | | | | |

Note: 1. Cooling conditions: inlet air DB temperature 27°C, WB temperature 19.5°C, inlet and outlet water temperature 7°C/12°C.
2. Heating conditions: inlet air DB temperature is 15°C, hot water inlet temperature is 60°C, and the water flow is the same as the cooling.

20.RFPD/4TX VARIABLE SPEED SERIES FRESH AIR CONDITION

| Model RFPD/4TX | Air flow m³/h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m³/h | Water D.P. kPa | ESP Pa | Dimension mm | | | Water pipe DN | Drain pipe DN | Weight kg | Motor power kg | Noise dB(A) | Rated current A | Power supply |
|-------------------|------------------|--------------------------------|--------------------------------|-----------------------|----------------------|-----------|--------------|------|------|---------------------|---------------------|--------------|----------------------|----------------|-----------------------|-----------------|
| | | | | | | | L | W | H | | | | | | | |
| 010 | H | 1000 | 14.7 | 12.9 | 2.5 | 20.0 | 140 | 1050 | 1000 | 560 | 50 | 25 | 58 | 0.35 | 52 | 1.4 |
| | M | 850 | 12.1 | 11.2 | 2.1 | 15.4 | 110 | | | | | | | | | |
| | L | 580 | 10.0 | 8.2 | 1.7 | 11.9 | 90 | | | | | | | | | |
| 015 | H | 1500 | 19.5 | 17.5 | 3.4 | 33.3 | 140 | 1050 | 1000 | 560 | 50 | 25 | 60 | 0.45 | 52 | 1.7 |
| | M | 1300 | 16.1 | 15.3 | 2.8 | 25.6 | 110 | | | | | | | | | |
| | L | 860 | 13.3 | 11.3 | 2.3 | 19.7 | 90 | | | | | | | | | |
| 020 | H | 2000 | 28.7 | 25.8 | 4.9 | 27.9 | 140 | 1050 | 1100 | 620 | 50 | 25 | 80 | 0.5 | 54 | 3.2 |
| | M | 1800 | 23.7 | 22.1 | 4.1 | 21.5 | 110 | | | | | | | | | |
| | L | 1200 | 19.5 | 16.3 | 3.4 | 16.5 | 90 | | | | | | | | | |
| 025 | H | 2500 | 33.8 | 30.5 | 5.8 | 39.2 | 190 | 1200 | 1100 | 620 | 50 | 25 | 85 | 0.7 | 55 | 3.5 |
| | M | 2200 | 27.9 | 26.4 | 4.8 | 30.2 | 150 | | | | | | | | | |
| | L | 1520 | 23.0 | 19.6 | 4.0 | 23.2 | 120 | | | | | | | | | |
| 030 | H | 3000 | 41.8 | 37.2 | 7.2 | 51.3 | 190 | 1200 | 1250 | 620 | 50 | 25 | 95 | 0.7 | 57 | 3.5 |
| | M | 2600 | 34.5 | 32.2 | 5.9 | 39.5 | 150 | | | | | | | | | |
| | L | 1800 | 28.5 | 23.8 | 4.9 | 30.4 | 120 | | | | | | | | | |
| 040 | H | 4000 | 49.9 | 47.0 | 8.6 | 15.7 | 160 | 1200 | 1450 | 620 | 50 | 25 | 105 | 1.0 | 58 | 5.0 |
| | M | 3500 | 41.2 | 40.8 | 7.1 | 12.1 | 130 | | | | | | | | | |
| | L | 2400 | 34.0 | 30.4 | 5.8 | 9.3 | 100 | | | | | | | | | |
| 050 | H | 5000 | 65.8 | 60.3 | 11.3 | 26.9 | 160 | 1200 | 1800 | 620 | 50 | 25 | 136 | 1.4 | 60 | 7.0 |
| | M | 4300 | 54.3 | 52.3 | 9.3 | 20.7 | 130 | | | | | | | | | |
| | L | 3000 | 44.8 | 38.8 | 7.7 | 15.9 | 100 | | | | | | | | | |
| 060 | H | 6000 | 78.0 | 71.5 | 13.4 | 30.8 | 220 | 1200 | 1800 | 700 | 50 | 25 | 152 | 2.3 | 62 | 9.0 |
| | M | 5000 | 64.4 | 62.0 | 11.1 | 23.7 | 175 | | | | | | | | | |
| | L | 3500 | 53.1 | 46.1 | 9.1 | 18.3 | 140 | | | | | | | | | |
| 070 | H | 7000 | 91.9 | 84.9 | 15.8 | 28.7 | 260 | 1200 | 1900 | 800 | 65 | 25 | 158 | 2.7 | 62 | 12 |
| | M | 6000 | 75.8 | 73.5 | 13.0 | 22.1 | 210 | | | | | | | | | |
| | L | 4200 | 62.5 | 54.6 | 10.8 | 17.0 | 165 | | | | | | | | | |

Note: 1. Cooling conditions: inlet air DB temperature 35°C, WB temperature 28°C, inlet and outlet water temperature 7°C/12°C.
2. Heating conditions: inlet air DB temperature is 7°C, hot water inlet temperature is 60°C, and the water flow is the same as the cooling.

21.RFPD/6TH VARIABLE SPEED SERIES RETURN AIR CONDITION

| Model RFPD/6TH | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Dimension mm | | | Water pipe DN | Drain pipe DN | Weight kg | Motor power kg | Noise dB(A) | Rated current A | Power supply | | | | | |
|-------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|--------------|------|-----|---------------------|---------------------|--------------|----------------------|----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----|
| | | | | | | | L | W | H | | | | | | | | | | | | |
| 010 | H | 1000 | 8.1 | 12.6 | 1.4 | 58.5 | 1050 | 1000 | 560 | 40 | 25 | 60 | 0.35 | 52 | 1.4 | AC220V 1φ/50Hz | | | | | |
| | M | 850 | 6.7 | 10.7 | 1.2 | 45.0 | | | | | | | | | | | 65 | | | | |
| | L | 580 | 5.5 | 7.7 | 0.9 | 34.7 | | | | | | | | | | | 50 | | | | |
| 015 | H | 1500 | 9.8 | 17.0 | 1.7 | 13.5 | 1050 | 1000 | 560 | 40 | 25 | 63 | 0.45 | 52 | 1.7 | | AC220V 1φ/50Hz | | | | |
| | M | 1300 | 8.1 | 14.6 | 1.4 | 10.4 | | | | | | | | | | | | 65 | | | |
| | L | 860 | 6.7 | 10.6 | 1.2 | 8.0 | | | | | | | | | | | | 50 | | | |
| 020 | H | 2000 | 14.6 | 24.4 | 2.5 | 13.3 | 1050 | 1100 | 620 | 40 | 25 | 85 | 0.5 | 54 | 3.2 | | | AC220V 1φ/50Hz | | | |
| | M | 1800 | 12.0 | 21.0 | 2.1 | 10.2 | | | | | | | | | | | | | 65 | | |
| | L | 1200 | 9.9 | 15.2 | 1.7 | 7.9 | | | | | | | | | | | | | 50 | | |
| 025 | H | 2500 | 17.4 | 29.2 | 3.0 | 18.2 | 1200 | 1100 | 620 | 40 | 25 | 88 | 0.7 | 55 | 3.5 | | | | AC220V 1φ/50Hz | | |
| | M | 2200 | 14.4 | 25.1 | 2.5 | 14.0 | | | | | | | | | | | | | | 105 | |
| | L | 1520 | 11.8 | 18.4 | 2.0 | 10.8 | | | | | | | | | | | | | | 85 | |
| 030 | H | 3000 | 22.0 | 35.9 | 3.8 | 30.5 | 1200 | 1250 | 620 | 40 | 25 | 100 | 0.7 | 57 | 3.5 | | | | | AC220V 1φ/50Hz | |
| | M | 2600 | 18.2 | 30.7 | 3.1 | 23.5 | | | | | | | | | | | | | | | 105 |
| | L | 1800 | 15.0 | 22.2 | 2.6 | 18.1 | | | | | | | | | | | | | | | 85 |
| 040 | H | 4000 | 29.3 | 47.0 | 5.0 | 55.7 | 1200 | 1450 | 620 | 40 | 25 | 108 | 1.0 | 58 | 5.0 | AC220V 1φ/50Hz | | | | | |
| | M | 3500 | 24.3 | 40.4 | 4.2 | 42.9 | | | | | | | | | | | | | | | 80 |
| | L | 2400 | 19.9 | 29.5 | 3.4 | 33.0 | | | | | | | | | | | | | | | 65 |
| 050 | H | 5000 | 36.6 | 59.2 | 6.3 | 33.3 | 1200 | 1800 | 620 | 40 | 25 | 140 | 1.4 | 60 | 7.0 | | AC220V 1φ/50Hz | | | | |
| | M | 4300 | 30.2 | 50.4 | 5.2 | 25.6 | | | | | | | | | | | | | | | 80 |
| | L | 3000 | 24.9 | 37.0 | 4.3 | 19.7 | | | | | | | | | | | | | | | 65 |
| 060 | H | 6000 | 43.7 | 70.2 | 7.5 | 45.3 | 1200 | 1800 | 700 | 40 | 25 | 155 | 2.3 | 62 | 9.0 | | | AC220V 1φ/50Hz | | | |
| | M | 5000 | 36.1 | 60.0 | 6.2 | 34.9 | | | | | | | | | | | | | | | 130 |
| | L | 3500 | 29.7 | 43.9 | 5.1 | 26.9 | | | | | | | | | | | | | | | 105 |
| 070 | H | 7000 | 50.1 | 82.8 | 8.6 | 32.9 | 1200 | 1900 | 800 | 50 | 25 | 163 | 2.7 | 62 | 12.0 | | | | AC220V 1φ/50Hz | | |
| | M | 6000 | 41.3 | 70.9 | 7.1 | 25.3 | | | | | | | | | | | | | | | 160 |
| | L | 4200 | 34.1 | 51.7 | 5.9 | 19.5 | | | | | | | | | | | | | | | 130 |

Note: 1. Cooling conditions: inlet air DB temperature 27°C, WB temperature 19.5°C, inlet and outlet water temperature 7°C/12°C.
2. Heating conditions: inlet air DB temperature is 15°C, hot water inlet temperature is 60°C, and the water flow is the same as the cooling.

22.RFPD/6TX VARIABLE SPEED SERIES FRESH AIR CONDITION

| Model RFPD/6TX | Air flow m ³ /h | Rated cooling cap. kW | Rated heating cap. kW | Water flow m ³ /h | Water D.P. kPa | ESP Pa | Dimension mm | | | Water pipe DN | Drain pipe DN | Weight kg | Motor power kg | Noise dB(A) | Rated current A | Power supply | | | | | |
|-------------------|-------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------------|-----------|--------------|------|-----|---------------------|---------------------|--------------|----------------------|----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----|
| | | | | | | | L | W | H | | | | | | | | | | | | |
| 010 | H | 1000 | 19.1 | 17.1 | 3.3 | 13.6 | 1050 | 1000 | 560 | 50 | 25 | 60 | 0.35 | 52 | 1.4 | AC220V 1φ/50Hz | | | | | |
| | M | 850 | 15.8 | 14.4 | 2.7 | 10.5 | | | | | | | | | | | 65 | | | | |
| | L | 580 | 13.0 | 10.0 | 2.2 | 8.1 | | | | | | | | | | | 50 | | | | |
| 015 | H | 1500 | 27.1 | 24.9 | 4.7 | 27.7 | 1050 | 1000 | 560 | 50 | 25 | 63 | 0.45 | 52 | 1.7 | | AC220V 1φ/50Hz | | | | |
| | M | 1300 | 22.4 | 21.0 | 3.9 | 21.3 | | | | | | | | | | | | 65 | | | |
| | L | 860 | 18.4 | 14.8 | 3.2 | 16.4 | | | | | | | | | | | | 50 | | | |
| 020 | H | 2000 | 35.7 | 32.3 | 6.1 | 34.8 | 1050 | 1100 | 620 | 50 | 25 | 85 | 0.5 | 54 | 3.2 | | | AC220V 1φ/50Hz | | | |
| | M | 1800 | 29.4 | 27.5 | 5.1 | 26.8 | | | | | | | | | | | | | 65 | | |
| | L | 1200 | 24.3 | 19.4 | 4.2 | 20.6 | | | | | | | | | | | | | 50 | | |
| 025 | H | 2500 | 43.4 | 39.3 | 7.5 | 47.4 | 1200 | 1100 | 620 | 50 | 25 | 88 | 0.7 | 55 | 3.5 | | | | AC220V 1φ/50Hz | | |
| | M | 2200 | 35.8 | 33.4 | 6.2 | 36.5 | | | | | | | | | | | | | | 105 | |
| | L | 1520 | 29.5 | 23.8 | 5.1 | 28.1 | | | | | | | | | | | | | | 85 | |
| 030 | H | 3000 | 51.2 | 47.4 | 8.8 | 56.1 | 1200 | 1250 | 620 | 50 | 25 | 100 | 0.7 | 57 | 3.5 | | | | | AC220V 1φ/50Hz | |
| | M | 2600 | 42.3 | 40.4 | 7.3 | 43.2 | | | | | | | | | | | | | | | 105 |
| | L | 1800 | 34.9 | 28.7 | 6.0 | 33.3 | | | | | | | | | | | | | | | 85 |
| 040 | H | 4000 | 67.4 | 63.5 | 11.6 | 54.5 | 1200 | 1450 | 620 | 50 | 25 | 108 | 1.0 | 58 | 5.0 | AC220V 1φ/50Hz | | | | | |
| | M | 3500 | 54.4 | 53.9 | 9.4 | 37.7 | | | | | | | | | | | | | | | 80 |
| | L | 2400 | 44.9 | 38.2 | 7.7 | 29.0 | | | | | | | | | | | | | | | 65 |
| 050 | H | 5000 | 81.5 | 80.0 | 14.0 | 47.2 | 1200 | 1800 | 620 | 50 | 25 | 140 | 1.4 | 60 | 7.0 | | AC220V 1φ/50Hz | | | | |
| | M | 4300 | 67.3 | 67.9 | 11.6 | 36.3 | | | | | | | | | | | | | | | 80 |
| | L | 3000 | 55.5 | 48.2 | 9.5 | 28.0 | | | | | | | | | | | | | | | 65 |
| 060 | H | 6000 | 97.5 | 95.3 | 16.8 | 36.9 | 1200 | 1800 | 700 | 50 | 25 | 155 | 2.3 | 62 | 9.0 | | | AC220V 1φ/50Hz | | | |
| | M | 5000 | 80.5 | 81.2 | 13.8 | 28.4 | | | | | | | | | | | | | | | 130 |
| | L | 3500 | 66.4 | 57.6 | 11.4 | 21.9 | | | | | | | | | | | | | | | 105 |
| 070 | H | 7000 | 113 | 110 | 19.5 | 40.7 | 1200 | 1900 | 800 | 65 | 25 | 163 | 2.7 | 62 | 12.0 | | | | AC220V 1φ/50Hz | | |
| | M | 6000 | 93.3 | 93.5 | 16.0 | 31.3 | | | | | | | | | | | | | | | 160 |
| | L | 4200 | 77.0 | 66.6 | 13.2 | 24.1 | | | | | | | | | | | | | | | 130 |

Note: 1. Cooling conditions: inlet air DB temperature 35°C, WB temperature 28°C, inlet and outlet water temperature 7°C/12°C.
2. Heating conditions: inlet air DB temperature is 7°C, hot water inlet temperature is 60°C, and the water flow is the same as the cooling.

23.RFPD/T SERIES 1 ROW HEATING COIL SPECIFICATION(HIGH PRESSURE TYPE)

| Model | Air flow | | Return air condition | | | Rated heating capacity | Water flow | Water P.D. | ESP | |
|-------|----------|------|------------------------|------------|------------|------------------------|------------|------------|------|-----|
| | | | Rated heating capacity | Water flow | Water P.D. | | | | | ESP |
| FPD/T | m³/h | | kW | m³/h | kPa | Pa | kW | m³/h | kPa | Pa |
| 010 | H | 1000 | 3.7 | 0.6 | 0.31 | 50 | 5.3 | 0.9 | 1.2 | 110 |
| | M | 850 | 3.6 | | | 32 | 5.2 | | | 80 |
| | L | 580 | 3.2 | | | 26 | 4.9 | | | 60 |
| 015 | H | 1500 | 4.6 | 0.8 | 0.54 | 50 | 6.5 | 1.1 | 2.0 | 110 |
| | M | 1300 | 4.3 | | | 32 | 5.9 | | | 80 |
| | L | 860 | 3.7 | | | 26 | 5.1 | | | 60 |
| 020 | H | 2000 | 7.9 | 1.4 | 0.84 | 50 | 10.1 | 1.7 | 3.2 | 110 |
| | M | 1800 | 7.3 | | | 32 | 9.2 | | | 80 |
| | L | 1200 | 6.4 | | | 26 | 7.9 | | | 60 |
| 025 | H | 2500 | 8.6 | 1.5 | 1.2 | 100 | 11.1 | 1.9 | 4.3 | 160 |
| | M | 2200 | 7.9 | | | 73 | 10.4 | | | 120 |
| | L | 1520 | 6.7 | | | 56 | 9.2 | | | 90 |
| 030 | H | 3000 | 11.3 | 1.9 | 2 | 100 | 14.2 | 2.4 | 7.1 | 160 |
| | M | 2600 | 10.4 | | | 73 | 13.1 | | | 120 |
| | L | 1800 | 9.2 | | | 56 | 11.2 | | | 90 |
| 040 | H | 4000 | 14.8 | 2.5 | 3.4 | 70 | 17.9 | 3.1 | 10.7 | 130 |
| | M | 3500 | 12.9 | | | 55 | 16.4 | | | 100 |
| | L | 2400 | 11.6 | | | 40 | 4.3 | | | 70 |
| 050 | H | 5000 | 19.1 | 3.3 | 6.5 | 70 | 23.6 | 4.1 | 20.6 | 130 |
| | M | 4300 | 17.5 | | | 55 | 21.7 | | | 100 |
| | L | 3000 | 14.6 | | | 40 | 18.1 | | | 70 |
| 060 | H | 6000 | 22.4 | 3.9 | 7.3 | 70 | 27.6 | 4.7 | 20.9 | 190 |
| | M | 5000 | 20.9 | | | 55 | 25.4 | | | 145 |
| | L | 3500 | 17.4 | | | 40 | 21.3 | | | 110 |
| 070 | H | 7000 | 26.7 | 4.6 | 8.6 | 165 | 32.8 | 5.6 | 21.5 | 230 |
| | M | 6000 | 24.1 | | | 180 | 29.4 | | | 180 |
| | L | 4200 | 20.1 | | | 135 | 24.3 | | | 135 |

Note: 1. Cooling conditions: inlet air DB temperature 27°C, WB temperature 19.5°C, inlet and outlet water temperature 7°C/12°C.
2. Heating conditions: inlet air DB temperature is 15°C, hot water inlet temperature is 60°C, and the water flow is the same as the cooling.

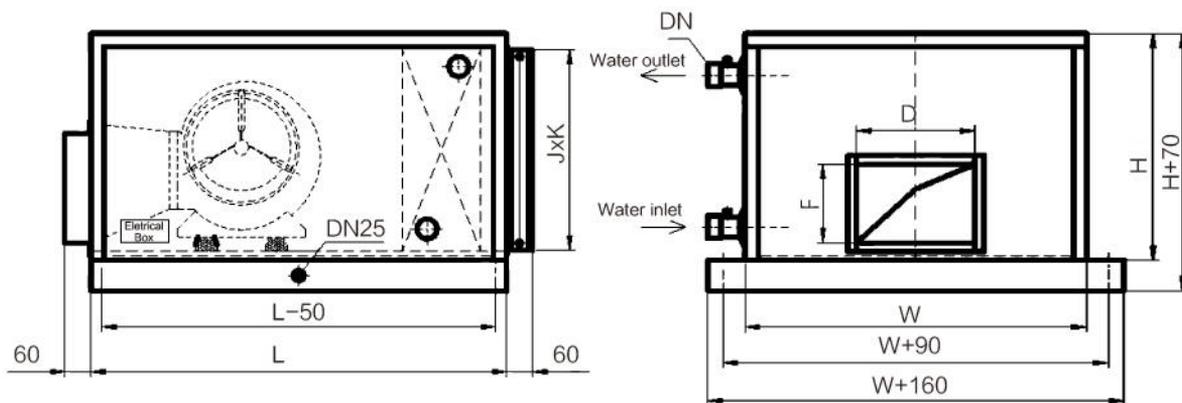
24.RFPD/T SERIES 1 ROW HEATING COIL SPECIFICATION(NORMAL PRESSURE TYPE)

| Model | Air flow | | Return air condition | | | Rated heating capacity | Water flow | Water P.D. | ESP | |
|-------|----------|------|------------------------|------------|------------|------------------------|------------|------------|------|-----|
| | | | Rated heating capacity | Water flow | Water P.D. | | | | | ESP |
| FPD/T | m³/h | | kW | m³/h | kPa | Pa | kW | m³/h | kPa | Pa |
| 010 | H | 1000 | 3.7 | 0.6 | 0.31 | 50 | 5.3 | 0.9 | 1.2 | 50 |
| | M | 850 | 3.6 | | | 32 | 5.2 | | | 32 |
| | L | 580 | 3.2 | | | 26 | 4.9 | | | 26 |
| 015 | H | 1500 | 4.6 | 0.8 | 0.54 | 50 | 6.5 | 1.1 | 2.0 | 50 |
| | M | 1300 | 4.3 | | | 32 | 5.9 | | | 32 |
| | L | 860 | 3.7 | | | 26 | 5.1 | | | 26 |
| 020 | H | 2000 | 7.9 | 1.4 | 0.84 | 50 | 10.1 | 1.7 | 3.2 | 50 |
| | M | 1800 | 7.3 | | | 32 | 9.2 | | | 32 |
| | L | 1200 | 6.4 | | | 26 | 7.9 | | | 26 |
| 025 | H | 2500 | 8.6 | 1.5 | 1.2 | 100 | 11.1 | 1.9 | 4.3 | 100 |
| | M | 2200 | 7.9 | | | 73 | 10.4 | | | 73 |
| | L | 1520 | 6.7 | | | 56 | 9.2 | | | 56 |
| 030 | H | 3000 | 11.3 | 1.9 | 2 | 100 | 14.2 | 2.4 | 7.1 | 100 |
| | M | 2600 | 10.4 | | | 73 | 13.1 | | | 73 |
| | L | 1800 | 9.2 | | | 56 | 11.2 | | | 56 |
| 040 | H | 4000 | 14.8 | 2.5 | 3.4 | 70 | 17.9 | 3.1 | 10.7 | 70 |
| | M | 3500 | 12.9 | | | 55 | 16.4 | | | 55 |
| | L | 2400 | 11.6 | | | 40 | 4.3 | | | 40 |
| 050 | H | 5000 | 19.1 | 3.3 | 6.5 | 70 | 23.6 | 4.1 | 20.6 | 70 |
| | M | 4300 | 17.5 | | | 55 | 21.7 | | | 55 |
| | L | 3000 | 14.6 | | | 40 | 18.1 | | | 40 |
| 060 | H | 6000 | 22.4 | 3.9 | 7.3 | 70 | 27.6 | 4.7 | 20.9 | 70 |
| | M | 5000 | 20.9 | | | 55 | 25.4 | | | 55 |
| | L | 3500 | 17.4 | | | 40 | 21.3 | | | 40 |
| 070 | H | 7000 | 26.7 | 4.6 | 8.6 | 165 | 32.8 | 5.6 | 21.5 | 165 |
| | M | 6000 | 24.8 | | | 125 | 30.1 | | | 125 |
| | L | 4200 | 20.7 | | | 110 | 25.4 | | | 110 |

Note: 1. Cooling conditions: inlet air DB temperature 27°C, WB temperature 19.5°C, inlet and outlet water temperature 7°C/12°C.
2. Heating conditions: inlet air DB temperature is 15°C, hot water inlet temperature is 60°C, and the water flow is the same as the cooling.

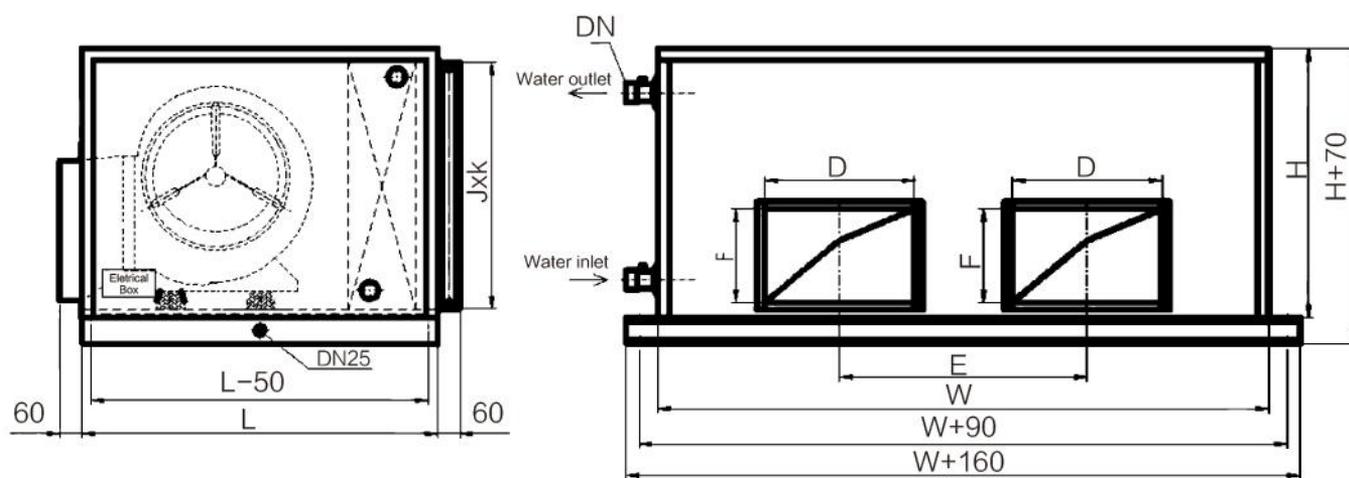
25. UNIT DIAGRAM

RFPD010-040



| Model | Dimension | | | | | | |
|----------|-----------|------|-----|-----|-----|------|-----|
| | L | W | H | D | F | J | K |
| RFPD 010 | 850 | 600 | 450 | 400 | 250 | 550 | 350 |
| 015 | 950 | 650 | 500 | 400 | 250 | 550 | 400 |
| 020 | 1100 | 750 | 500 | 400 | 250 | 650 | 400 |
| 025 | 1100 | 850 | 500 | 400 | 250 | 750 | 400 |
| 030 | 1100 | 1000 | 500 | 400 | 250 | 900 | 400 |
| 040 | 1100 | 1280 | 550 | 400 | 250 | 1180 | 450 |

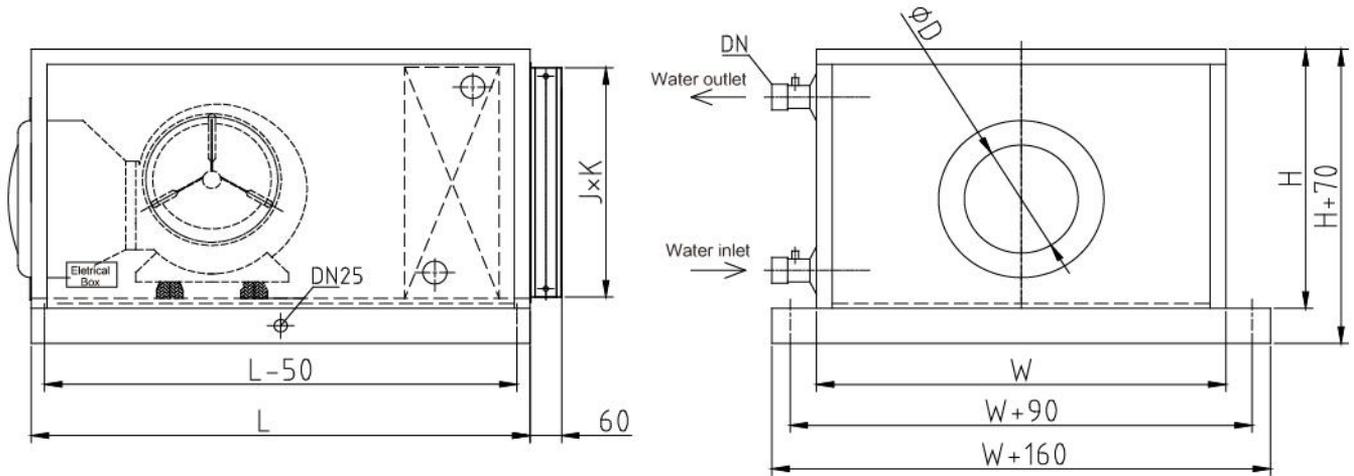
RFPD050-150



| Model | Dimension | | | | | | | |
|-------|-----------|------|-----|-----|-----|------|-----|-----|
| RFPD | L | W | H | D | F | J | K | E |
| 050 | 1100 | 1500 | 550 | 400 | 250 | 1400 | 450 | 660 |
| 060 | 1100 | 1630 | 550 | 400 | 320 | 1530 | 450 | 660 |
| 070 | 1100 | 1730 | 610 | 400 | 320 | 1630 | 510 | 750 |
| 080 | 1100 | 1730 | 670 | 400 | 320 | 1630 | 570 | 750 |
| 090 | 1100 | 1830 | 670 | 400 | 320 | 1730 | 570 | 800 |
| 105 | 1200 | 2130 | 670 | 400 | 320 | 2030 | 660 | 880 |
| 120 | 1200 | 2130 | 770 | 500 | 400 | 2030 | 670 | 880 |
| 135 | 1200 | 2130 | 830 | 500 | 400 | 2030 | 730 | 960 |
| 150 | 1200 | 2130 | 900 | 630 | 400 | 2030 | 800 | 960 |

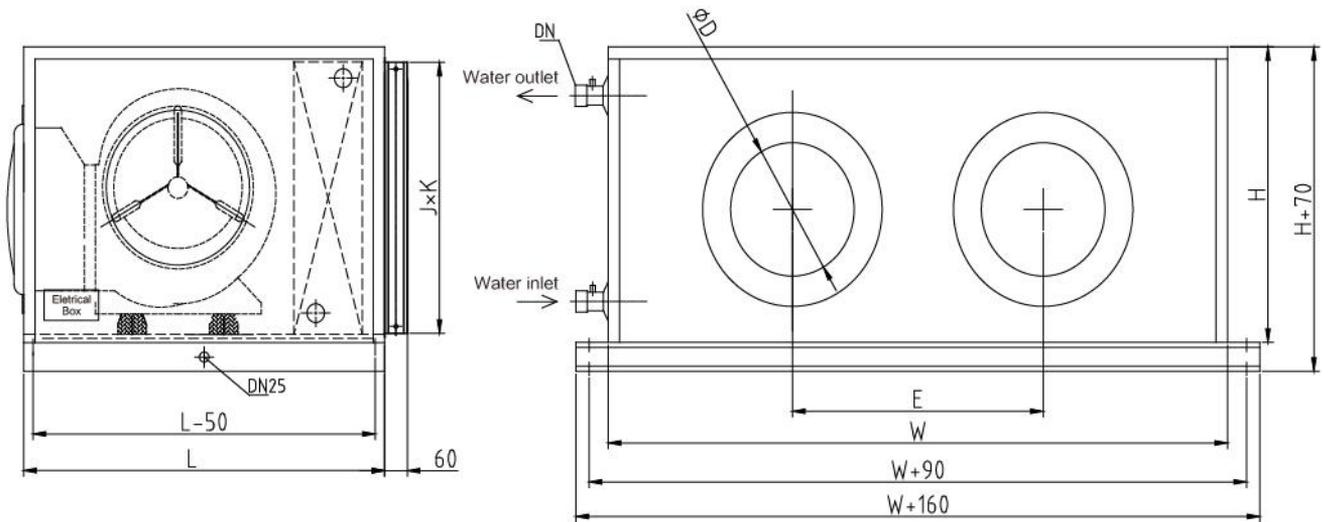
26.JET TYPE UNIT DIAGRAM

RFPD010-040



| Model | Dimension | | | | | |
|----------|-----------|------|-----|-----|------|-----|
| | L | W | H | D | J | K |
| RFPD 010 | 850 | 600 | 450 | 315 | 550 | 350 |
| 015 | 950 | 650 | 500 | 315 | 550 | 400 |
| 020 | 1100 | 750 | 500 | 400 | 650 | 400 |
| 025 | 1100 | 850 | 500 | 400 | 750 | 400 |
| 030 | 1100 | 1000 | 500 | 400 | 900 | 400 |
| 040 | 1100 | 1280 | 550 | 400 | 1180 | 400 |

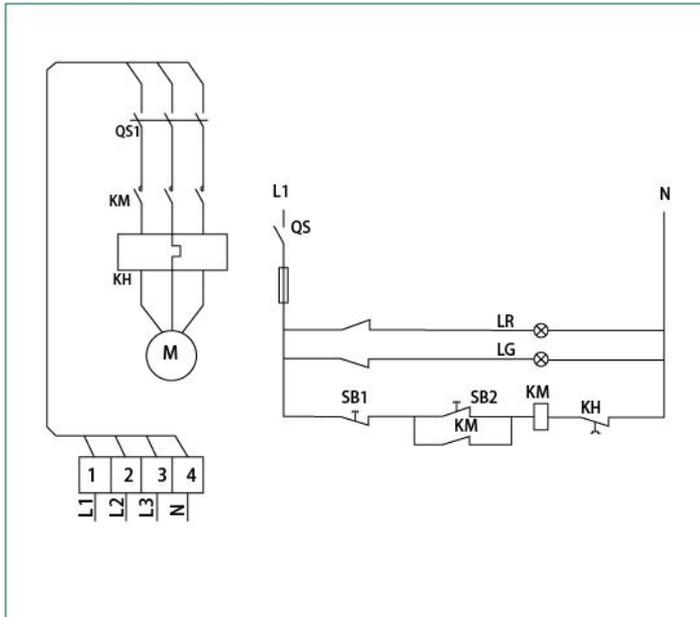
RFPD050-150



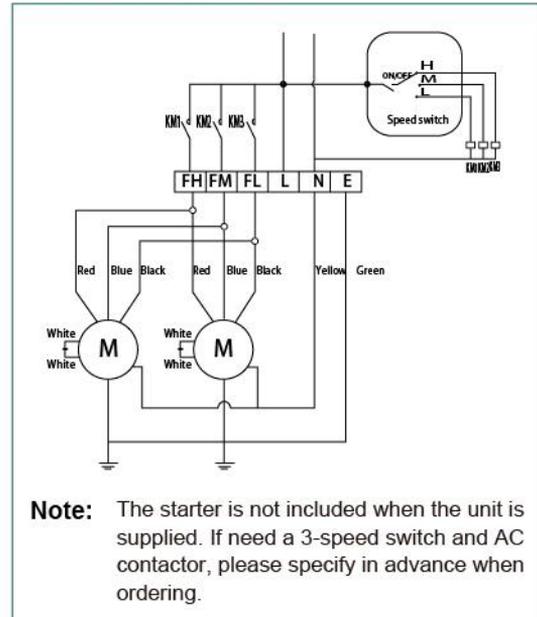
| Model | Dimension | | | | | | |
|-------|-----------|------|-----|-----|------|-----|-----|
| RFPD | L | W | H | D | J | K | E |
| 050 | 1100 | 1500 | 550 | 400 | 1400 | 450 | 660 |
| 060 | 1100 | 1630 | 550 | 500 | 1530 | 450 | 660 |
| 070 | 1100 | 1730 | 610 | 500 | 1630 | 510 | 750 |
| 080 | 1100 | 1730 | 670 | 500 | 1630 | 570 | 750 |
| 090 | 1100 | 1830 | 670 | 500 | 1730 | 570 | 800 |
| 105 | 1200 | 2130 | 670 | 500 | 2030 | 660 | 880 |
| 120 | 1200 | 2130 | 770 | 500 | 2030 | 670 | 880 |
| 135 | 1200 | 2130 | 830 | 500 | 2030 | 730 | 960 |
| 150 | 1200 | 2130 | 900 | 500 | 2030 | 800 | 960 |

27. ELECTRIC DIAGRAM

RFPD-Z/J/S series



RFPD-T series



28. INSTALLATION REQUIREMENT

- Before installing the unit, please check whether the packaging of the unit is intact, whether the equipment is damaged, whether the unit is bruised or severely deformed, whether the panel or casing of the unit is scratched, whether the fan or motor is loose, if the following problems occur, Please contact the dealer for repair or replacement.
- The unit can be hoisted and horizontally transported by crane or forklift. When hoisting, the lifting point should be firm and strong enough to bear the weight of the unit.
- When hoisting, the unit must be bound firmly, the rope must be intact and free of scars, and its lifting capacity must ensure sufficient strength during hoisting.
- The unit should be kept level during transportation and hoisting.
- Before connecting the unit to the power supply, please carefully check whether the power supply voltage, frequency and phase sequence are consistent with the unit nameplate. The power supply voltage should be kept within 10% of the rated voltage.
- Before starting the fan, manually rotate the fan impeller, and carefully check whether there is metal friction sound and whether there is any debris in the fan. Any abnormalities should be eliminated. Start the fan and check whether the direction of the fan is correct. When the direction of rotation is inconsistent with the direction of the arrow, you can change the phase sequence of the power supply line.
- In order to ensure the normal operation of the unit, it is recommended to install a static pressure box at the outlet of the unit, and install an air volume regulating valve and a fire damper in the air duct. If an electric

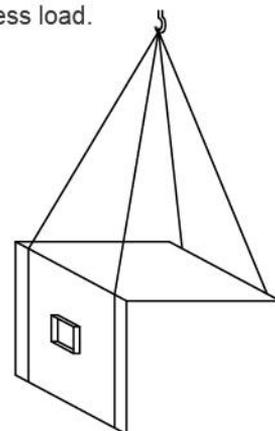
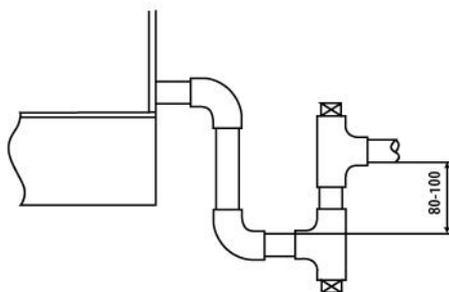
damper is installed on the air duct, the damper actuator should be started before the unit and closed after the unit.

- Before connecting the unit to the water pipe, it is recommended to clean the water pipe first. Please take over the hot and cold water inlet and outlet positions according to the unit's mark. The inlet and outlet pipes of the unit should be equipped with valves, and the inlet pipe should be equipped with a filter device to prevent debris from entering the unit and causing blockage.

- When installing the water pipe, pay attention not to use excessive force. To ensure that the heat exchanger header of the unit does not bear the torque during installation, a pipe clamp should be used to fix the water pipe. A soft connection device should be installed between the unit and the water pipe and air pipe to prevent the vibration of the unit from being transmitted through the water pipe and avoid the unit from being subjected to excess load.

- The condensate pipe of the unit should be equipped with a water seal to prevent the condensate from overflowing when the unit is under negative pressure.

- The unit should be grounded reliably to prevent leakage of electricity from hurting people. Electrical wiring should be performed by professionals.



29. MAINTENANCE

- During the use of the unit, check and clean the filter every month or so. The filter can be rinsed with clean water. If it is too dirty, it can be cleaned with neutral detergent. Do not rinse with overheated water to prevent damage to the nylon filter. It is not allowed to run the unit without a filter.

- Regularly check the cleanliness of the fin heat exchanger and clean it if necessary.

- Check the drain pan once a year for debris, dust deposits, clogged water pipes, and rust, and perform maintenance if necessary.

- Before operation every year, the insulation of the motor should be checked, and the insulation resistance must be greater than $1M\Omega$. When the insulation resistance is lower than the lower limit, the motor needs to be repaired.

30. ORDER INFORMATION

- When ordering, please specify the model and specifications of the unit, the left and right inlet and outlet pipes, the direction of filter extraction, and the operating conditions.

- The unit itself is not equipped with an electric control part. According to the special requirements of users, the unit can be equipped with additional electrical protection devices and variable air volume unit speed control devices (divided into ordinary three-speed control devices, frequency conversion control devices and thyristor control devices).

- If has special requirements for selection, it can provide the required non-standard products according to customer needs, such as adding humidification functions (wet film type, steam type, high-pressure spray humidification, electrode humidifier), electric (auxiliary) heater, medium Effective filter, muffler, etc.

- In addition to providing standard air volume and static pressure, it can also provide different air volume and external static pressure according to customer needs.

- For units with special requirements, please give details when ordering.

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Version number: 2021.04

The contents will be changed due to product updates without prior notice, please refer to the actual product.

This document has been proofread many times, but there may still be errors or omissions, please understand.