

# GREE

making better air conditioners

TECHNICAL SALES GUIDE/50Hz



8.4~125.3 kW



18.2 ~492.4 kW

## Horizontal/vertical Mounting Package AHU


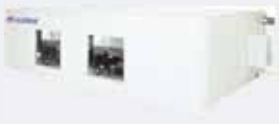



The photos of products on the cover are for reference only, the actual appearance of certain product may be different.

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## 1 MODELS LIST

| Type                            | Air Flow (m³/h)    | Cooling Capacity (KW) | Heating Capacity (KW) | External Static Pressure (Pa) | Power Supply | Appearance  |   |
|---------------------------------|--------------------|-----------------------|-----------------------|-------------------------------|--------------|---|---|
| Horizontal Mounting Package AHU | 3000<br>~<br>30000 | 18.2<br>~<br>492.4    | 28.2<br>~<br>510.1    | 50 ~ 560                      | 380V         |  |   |
| Vertical Mounting Package AHU   | B Series           | 1500<br>~<br>8000     | 8.4<br>~<br>125.3     | 13.7<br>~<br>130.6            | 40 ~ 200     | 3N~<br>50Hz   |    |
|                                 | D Series           | 1500<br>~<br>12000    | 8.4<br>~<br>175.6     | 13.7<br>~<br>170.3            | 40 ~ 400     |   |  |

## 2 NOMENCLATURE

|   |   |     |   |   |   |   |   |   |   |
|---|---|-----|---|---|---|---|---|---|---|
| G | - | 1.5 | W | D | X | I | Y | / | D |
| 1 |   | 2   | 3 | 4 | 5 | 6 | 7 |   | 8 |

| NO. | Description               | Options   |
|-----|---------------------------|---|
| 1   | Symbol of unit            | Cabinet fan coil air handling units             |
| 2   | Air Flow                  | the number×1000m³/h                             |
| 3   | Form of structure         | Default=stand form<br>W=horizontal              |
| 4   | Form of setting           | Default=fall to the ground<br>D=suspend install |
| 5   | Unit function             | Default=return air<br>X=fresh air               |
| 6   | The row number of coil    | Default=four rows<br>I=six rows                 |
| 7   | Pipe connection direction | Default=left<br>Y=right                         |
| 8   | Design Serial Number      | B:the thin unit<br>D: Dseries                   |

## HORIZONTAL MOUNTING PACKAGE AHU

### 3 FEATURES

#### ➔ 3.1 Description

GREE G series Air Handling Unit is the AHU of center air condition system, The units of this series are made up of the cooling coil, fan motor, filter and heat insulation cabinet etc. The units handle the indoor air through heat exchange between chilled (or hot) water and indoor circulating air (or outdoor fresh air) for cooling (heating), according to the requirement of cooling or heating, dehumidifying and purifying etc. and the processed air distributed to each district by the duct and diffuser.

#### ➔ 3.2 Standard Features

- ◆ Highly efficient heating exchanger: the high efficient double flange of the aluminum fin made by imported special equipment and tooling proceed is closely combined with cooper pipe by mechanical expanding, plus different cooling coil flow design and air flow speed design can ensure high efficiency of whole unit.
- ◆ High efficiency of the fan and motor: The unit uses high - quality motor and low - noise and high - performance centrifugal fans to make it work in the stable region by optimized design.
- ◆ Cooling coil anti-freezing design: The new type of supper-high efficient and antifreezing heat exchanger, make use of gravitational and heat transfer principles to ensure higher heat exchange efficiency and meanwhile to prevent freezing in winter by draining the water fully.
- ◆ Belt transmission: It is easier to debug the project and reduce the cost.
- ◆ Supper rust-proof and anti-cold bridge design: The cabinet is made up of aluminum alloy frame and double-wall polyamine resin vesicant panel. The outer panel adopts the electro-galvanized plate spray made by special process, and the inner panel uses the high corrosion resistance of hot galvanized sheet, between them is the well thermal resistant polyamine resin vesicant material, thus the unit has a superior anti-corrosion and anti-cold bridge capacity.
- ◆ maintain facility: emovable panel (maintenance doors are available for models G-20 and above) and adjustable motor mounting makes maintenance work more convenient.

## 4 PRODUCT DATA

➔ Product Data on Rated Conditions

| Model:               |                                   | G-3               | G-4  | G-5     | G-6     | G-8     | G-10    | G-12    |         |  |
|----------------------|-----------------------------------|-------------------|--|---------|---------|---------|---------|---------|---------|--|
| Air Flow             |                                   | m <sup>3</sup> /h | 3000   | 4000    | 5000    | 6000    | 8000    | 10000   | 12000   |  |
| 4-Row                | Cooling                           | kW                | 18.2   | 23.5    | 32.2    | 36.4    | 48.5    | 60.1    | 72.1    |  |
|                      | Heating                           | kW                | 28.2   | 40.2    | 50.2    | 58.2    | 75.8    | 92.3    | 112.8   |  |
|                      | Water Flow                        | L/s               | 0.87   | 1.13    | 1.54    | 1.74    | 2.32    | 2.87    | 3.44    |  |
|                      | Loss of Pressure                  | kPa               | 9.15   | 11.9    | 16      | 21.2    | 30.9    | 57.1    | 12      |  |
|                      | External Static Pressure          | Pa                | 50   | 65      | 65      | 75      | 90      | 90      | 100     |  |
|                      | Optional external Static pressure | Pa                | 120/300  | 120/300 | 120/350 | 120/400 | 180/400 | 180/450 | 180/450 |  |
|                      | Weight                            | kg                | 215  | 260     | 305     | 340     | 390     | 450     | 503     |  |
| 6-Row                | Cooling                           | kW                | 26.5   | 35.1    | 44.1    | 52.5    | 66.1    | 84.1    | 96.5    |  |
|                      | Heating                           | kW                | 35.3   | 46.5    | 58.4    | 68.9    | 88.8    | 112.3   | 133.5   |  |
|                      | Water Flow                        | L/s               | 1.27   | 1.68    | 2.1     | 2.51    | 3.16    | 4.02    | 4.61    |  |
|                      | Loss of Pressure                  | kPa               | 12.9   | 14.6    | 15      | 16.1    | 20.8    | 23.2    | 25.6    |  |
|                      | External Static Pressure          | Pa                | 50   | 65      | 65      | 75      | 90      | 90      | 100     |  |
|                      | Optional external Static pressure | Pa                | 120/260  | 120/260 | 120/310 | 120/360 | 180/360 | 180/410 | 180/410 |  |
|                      | Weight                            | kg                | 240  | 295     | 330     | 375     | 435     | 485     | 535     |  |
| Power Supply         |                                   | 380V 3N~ 50Hz     |  |         |         |         |         |         |         |  |
| Wiring Connections   | Quantity                          |                   | 3  |         |         |         |         |         |         |  |
|                      | Area                              | mm <sup>2</sup>   | 1.0  | 1.0     | 1.5     | 1.5     | 1.5     | 1.5     | 2.5     |  |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                        |         |         |         |         |         |         |  |
|                      | Operating Pressure                |                   | ≤ 1.6 Mpa  |         |         |         |         |         |         |  |
| Fan                  | Type                              |                   | Forward direction, muly-vane and low-noise centrifugal fan |         |         |         |         |         |         |  |
|                      | Drive                             |                   | Belt drive   |         |         |         |         |         |         |  |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor            |         |         |         |         |         |         |  |
|                      | Motor Output                      | kW                | 0.55   | 1.1     | 1.1     | 1.5     | 2.2     | 2.2     | 3.0     |  |
| Sound Pressure Level |                                   | dB(A)             | ≤56  | ≤56     | ≤57     | ≤58     | ≤59     | ≤59     | ≤61     |  |
| Coil Connection      |                                   |                   | DN40   | DN40    | DN50    | DN65    | DN65    | DN65    | DN65    |  |
| Drain Connection     |                                   |                   | DN25   | DN25    | DN25    | DN25    | DN40    | DN40    | DN40    |  |

| Model:               |                                   |                   | G-14  | G-16    | G-18    | G-20    | G-22    | G-25    | G-30    |
|----------------------|-----------------------------------|-------------------|---|---------|---------|---------|---------|---------|---------|
| Air Flow             |                                   | m <sup>3</sup> /h | 14000   | 16000   | 18000   | 20000   | 22000   | 25000   | 30000   |
| 4-Row                | Cooling                           | kW                | 82.1  | 91.1    | 106.2   | 121.5   | 133.5   | 152.3   | 175.5   |
|                      | Heating                           | kW                | 129.5   | 143.3   | 161.5   | 178.4   | 207.2   | 226.3   | 271.4   |
|                      | Water Flow                        | L/s               | 3.92  | 4.35    | 5.07    | 5.81    | 6.38    | 7.28    | 8.39    |
|                      | Loss of Pressure                  | kPa               | 22.05   | 23      | 25      | 25      | 20      | 29      | 23      |
|                      | External Static Pressure          | Pa                | 100   | 120     | 120     | 140     | 170     | 170     | 220     |
|                      | Optional external Static pressure | Pa                | 180/450   | 200/500 | 200/500 | 250/550 | 250/550 | 350/550 | 400/600 |
|                      | Weight                            | kg                | 545   | 745     | 790     | 815     | 865     | 910     | 1015    |
| 6-Row                | Cooling                           | kW                | 111.6   | 123     | 143.8   | 165     | 179     | 195     | 233     |
|                      | Heating                           | kW                | 155.4   | 173.2   | 198.2   | 224     | 245.6   | 278.5   | 335     |
|                      | Water Flow                        | L/s               | 5.34  | 5.88    | 6.87    | 7.89    | 8.56    | 9.32    | 11.14   |
|                      | Loss of Pressure                  | kPa               | 28.01   | 32.1    | 35.2    | 38.5    | 32.1    | 36      | 38      |
|                      | External Static Pressure          | Pa                | 100   | 120     | 120     | 140     | 170     | 170     | 220     |
|                      | Optional external Static pressure | Pa                | 180/410   | 200/460 | 200/460 | 250/510 | 250/510 | 350/510 | 400/560 |
|                      | Weight                            | kg                | 580   | 780     | 840     | 860     | 915     | 960     | 1250    |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |         |         |         |         |         |         |
| Wiring Connections   | Quantity                          |                   | 3   |         |         |         |         |         |         |
|                      | Area                              | mm <sup>2</sup>   | 2.5   | 2.5     | 2.5     | 2.5     | 2.5     | 4.0     | 6.0     |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |         |         |         |         |         |         |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |         |         |         |         |         |         |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |         |         |         |         |         |         |
|                      | Drive                             |                   | Belt drive  |         |         |         |         |         |         |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |         |         |         |         |         |         |
|                      | Motor Output                      | kW                | 3.0   | 4.0     | 5.5     | 5.5     | 5.5     | 7.5     | 11      |
| Sound Pressure Level |                                   | dB(A)             | ≤63.5   | ≤63.5   | ≤65.5   | ≤67     | ≤68     | ≤68     | ≤71     |
| Coil Connection      |                                   |                   | DN65  | DN65    | DN65    | DN80    | DN80    | DN80    | DN80    |
| Drain Connection     |                                   |                   | DN40  | DN40    | DN40    | DN40    | DN40    | DN40    | DN40    |

**Note:**

- The performances are based on the following conditions:  
 Entering Air Conditions DB:27°C WB:19.5°C  
 Entering Chilled Water Conditions:7°C ; Leaving Chilled Water Conditions:12°C  
 Entering Air Conditions DB:21°C ; Entering Water Conditions:60°C
- Operating weight of the unit is about 1.2 times of normal weight of the unit.(water's weight is excluded).
- The value of the motor power input and noise in the table may be variable with the selected static pressure, so each parameter of the units should refer to the nameplate.

# Horizontal/Vertical Mounting Package AHU Technical Sales Guide

| Model:               |                                   |                   | G-3X  | G-4X    | G-5X    | G-6X    | G-8X    | G-10X   | G-12X   |
|----------------------|-----------------------------------|-------------------|---|---------|---------|---------|---------|---------|---------|
| Air Flow             |                                   | m <sup>3</sup> /h | 3000  | 4000    | 5000    | 6000    | 8000    | 10000   | 12000   |
| 4-Row                | Cooling                           | kW                | 43.8  | 58.5    | 73.1    | 88.2    | 116.5   | 145.8   | 172.6   |
|                      | Heating                           | kW                | 47.3  | 63.2    | 78.5    | 95.2    | 125.8   | 157.4   | 184.4   |
|                      | Water Flow                        | L/s               | 2.1   | 2.8     | 3.49    | 4.21    | 5.59    | 6.98    | 8.27    |
|                      | Loss of Pressure                  | kPa               | 17.4  | 20.1    | 12.2    | 14.1    | 18.4    | 24      | 34.6    |
|                      | External Static Pressure          | Pa                | 50  | 65      | 65      | 75      | 90      | 90      | 100     |
|                      | Optional external Static pressure | Pa                | 120/300   | 120/300 | 120/350 | 120/400 | 180/400 | 180/450 | 180/450 |
|                      | Weight                            | kg                | 215   | 260     | 305     | 340     | 390     | 450     | 503     |
| 6-Row                | Cooling                           | kW                | 53.5  | 73.1    | 91.1    | 105.5   | 151.6   | 182.3   | 215.5   |
|                      | Heating                           | kW                | 57.2  | 78.2    | 97.5    | 112.8   | 162.2   | 195.1   | 228.4   |
|                      | Water Flow                        | L/s               | 2.58  | 3.49    | 4.35    | 5.04    | 6.98    | 8.7     | 10.37   |
|                      | Loss of Pressure                  | kPa               | 23.5  | 30.5    | 28.8    | 25.8    | 29.8    | 35.2    | 41.2    |
|                      | External Static Pressure          | Pa                | 50  | 65      | 65      | 75      | 90      | 90      | 100     |
|                      | Optional external Static pressure | Pa                | 120/260   | 120/260 | 120/310 | 120/360 | 180/360 | 180/410 | 180/410 |
|                      | Weight                            | kg                | 240   | 295     | 330     | 375     | 435     | 485     | 535     |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |         |         |         |         |         |         |
| Wiring Connections   | Quantity                          |                   | 3   |         |         |         |         |         |         |
|                      | Area                              | mm <sup>2</sup>   | 1.0   | 1.0     | 1.0     | 1.0     | 1.5     | 1.5     | 2.5     |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |         |         |         |         |         |         |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |         |         |         |         |         |         |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |         |         |         |         |         |         |
|                      | Drive                             |                   | Belt drive  |         |         |         |         |         |         |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |         |         |         |         |         |         |
|                      | Motor Output                      | kW                | 0.55  | 1.1     | 1.1     | 1.5     | 2.2     | 2.2     | 3.0     |
| Sound Pressure Level |                                   | dB(A)             | ≤63.5   | ≤63.5   | ≤65.5   | ≤67     | ≤68     | ≤68     | ≤71     |
| Coil Connection      |                                   |                   | DN40  | DN40    | DN50    | DN65    | DN65    | DN65    | DN65    |
| Drain Connection     |                                   |                   | DN25  | DN25    | DN25    | DN25    | DN40    | DN40    | DN40    |

| Model:               |                                   |                   | G-14X   | G-16X   | G-18X   | G-20X   | G-22X   | G-25X   | G-30X   |
|----------------------|-----------------------------------|-------------------|---|---------|---------|---------|---------|---------|---------|
| Air Flow             |                                   | m <sup>3</sup> /h | 14000   | 16000   | 18000   | 20000   | 22000   | 25000   | 30000   |
| 4-Row                | Cooling                           | kW                | 197.6   | 212.1   | 239.6   | 290.8   | 316.4   | 344.5   | 414.5   |
|                      | Heating                           | kW                | 210.4   | 225.8   | 255.4   | 308.2   | 335.3   | 364.7   | 435.2   |
|                      | Water Flow                        | L/s               | 9.46  | 10.13   | 11.45   | 13.9    | 15.12   | 16.46   | 19.98   |
|                      | Loss of Pressure                  | kPa               | 22.05   | 26.6    | 25      | 25      | 20      | 29      | 23      |
|                      | External Static Pressure          | Pa                | 100   | 120     | 120     | 140     | 170     | 170     | 220     |
|                      | Optional external Static pressure | Pa                | 180/450   | 200/500 | 200/500 | 250/550 | 250/550 | 350/550 | 400/600 |
|                      | Weight                            | kg                | 545   | 745     | 790     | 815     | 865     | 910     | 1015    |
| 6-Row                | Cooling                           | kW                | 240.7   | 252.1   | 291.1   | 320.5   | 370.3   | 407.7   | 492.4   |
|                      | Heating                           | kW                | 249.6   | 261.5   | 301.7   | 332.4   | 385.2   | 422.1   | 510.1   |
|                      | Water Flow                        | L/s               | 12.09   | 12.66   | 14.62   | 16.1    | 18.65   | 20.48   | 24.73   |
|                      | Loss of Pressure                  | kPa               | 33.8  | 40.2    | 38.2    | 36.5    | 32.1    | 38      | 38      |
|                      | External Static Pressure          | Pa                | 100   | 120     | 120     | 140     | 170     | 170     | 220     |
|                      | Optional external Static pressure | Pa                | 180/410   | 200/460 | 200/460 | 250/510 | 250/510 | 350/510 | 400/560 |
|                      | Weight                            | kg                | 580   | 780     | 840     | 860     | 915     | 960     | 1250    |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |         |         |         |         |         |         |
| Wiring Connections   | Quantity                          |                   | 3   |         |         |         |         |         |         |
|                      | Area                              | mm <sup>2</sup>   | 2.5   | 2.5     | 2.5     | 2.5     | 2.5     | 4.0     | 6.0     |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |         |         |         |         |         |         |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |         |         |         |         |         |         |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |         |         |         |         |         |         |
|                      | Drive                             |                   | Belt drive  |         |         |         |         |         |         |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |         |         |         |         |         |         |
|                      | Motor Output                      | kW                | 3.0   | 4.0     | 5.5     | 5.5     | 5.5     | 7.5     | 11      |
| Sound Pressure Level |                                   | dB(A)             | ≤63.5   | ≤63.5   | ≤65.5   | ≤67     | ≤68     | ≤68     | ≤71     |
| Coil Connection      |                                   |                   | DN65  | DN65    | DN65    | DN80    | DN80    | DN80    | DN80    |
| Drain Connection     |                                   |                   | DN40  | DN40    | DN40    | DN40    | DN40    | DN40    | DN40    |

**Note:**

- The performances are based on the following conditions:  
 Entering Air Conditions DB:35°C WB:28°C  
 Entering Chilled Water Conditions:7°C ; Leaving Chilled Water Conditions:12°C  
 Entering Air Conditions DB:7°C ; Entering Water Conditions:60°C
- Operating weight of the unit is about 1.2 times of normal weight of the unit.(water's weight is excluded).
- The value of the motor power input and noise in the table may be variable with the selected static pressure, so each parameter of the units should refer to the nameplate.





## Performance Correction

Return air condition cooling capacity correction rate

| Enter water <sup>°C</sup>                | 5 <sup>°C</sup> | 6 <sup>°C</sup> | 7 <sup>°C</sup> | 8 <sup>°C</sup> | 9 <sup>°C</sup> | 10 <sup>°C</sup> |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Enter wind <sup>°C</sup>                 |                 |                 |                 |                 |                 |                  |
| Db24 <sup>°C</sup> ,Wb17 <sup>°C</sup>   | 0.88            | 0.78            | 0.74            | 0.71            | 0.615           | 0.44             |
| Db25 <sup>°C</sup> ,Wb18 <sup>°C</sup>   | 1.01            | 0.905           | 0.835           | 0.784           | 0.736           | 0.512            |
| Db27 <sup>°C</sup> ,WB19.5 <sup>°C</sup> | 1.214           | 1.112           | 1.00            | 0.894           | 0.786           | 0.685            |
| Db28 <sup>°C</sup> ,Wb21 <sup>°C</sup>   | 1.425           | 1.323           | 1.214           | 1.102           | 0.982           | 0.876            |
| Db29 <sup>°C</sup> ,Wb22 <sup>°C</sup>   | 1.582           | 1.476           | 1.36            | 1.243           | 1.135           | 1.012            |
| Db30 <sup>°C</sup> ,Wb23 <sup>°C</sup>   | 1.742           | 1.633           | 1.514           | 1.40            | 1.284           | 1.165            |

Return air condition heating capacity correction rate

| Enter water <sup>°C</sup> | 65 <sup>°C</sup> | 60 <sup>°C</sup> | 55 <sup>°C</sup> | 50 <sup>°C</sup> | 45 <sup>°C</sup> | 40 <sup>°C</sup> |
|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Enter wind <sup>°C</sup>  |                  |                  |                  |                  |                  |                  |
| 13 <sup>°C</sup>          | 1.507            | 1.34             | 1.208            | 1.04             | 0.885            | 0.73             |
| 15 <sup>°C</sup>          | 1.376            | 1.20             | 1.089            | 0.91             | 0.75             | 0.61             |
| 17 <sup>°C</sup>          | 1.364            | 1.19             | 1.06             | 0.89             | 0.73             | 0.60             |
| 19 <sup>°C</sup>          | 1.25             | 1.08             | 0.96             | 0.825            | 0.682            | 0.50             |
| 21 <sup>°C</sup>          | 1.16             | 1.00             | 0.873            | 0.75             | 0.61             | 0.43             |
| 23 <sup>°C</sup>          | 1.09             | 0.97             | 0.80             | 0.68             | 0.54             | 0.37             |

Fresh air condition cooling capacity correction rate

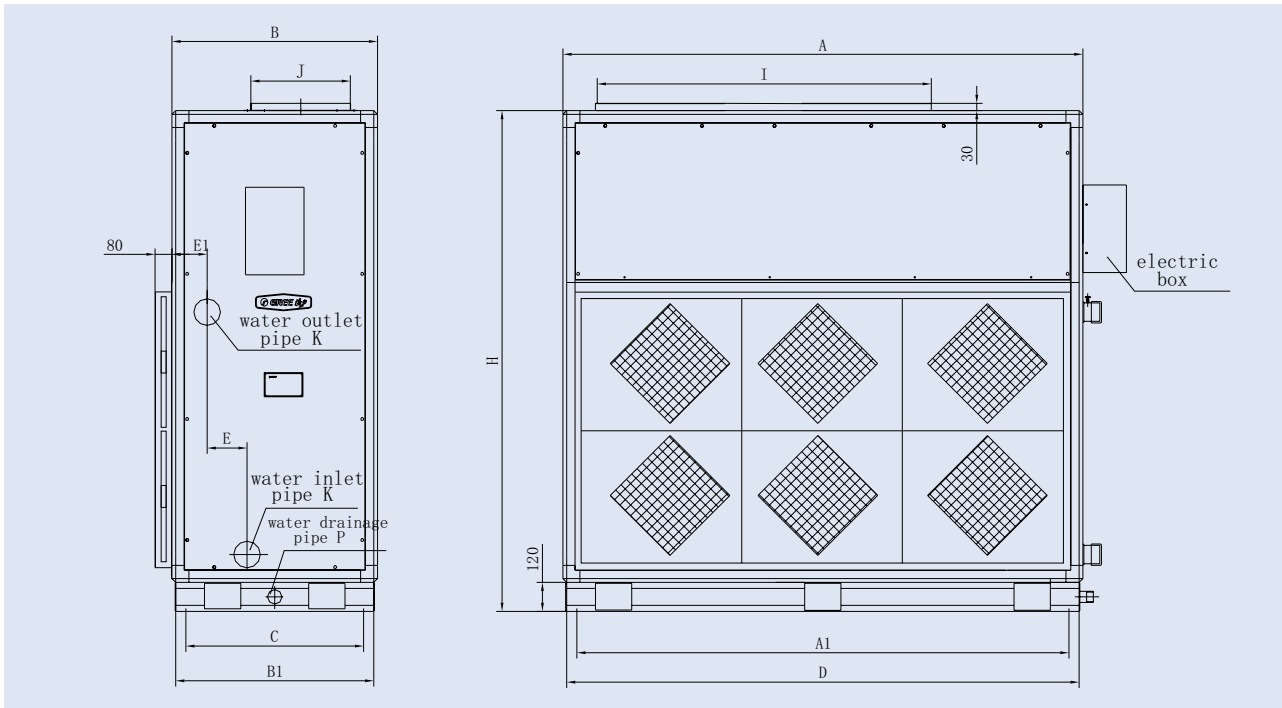
| Enter water <sup>°C</sup>              | 5 <sup>°C</sup> | 6 <sup>°C</sup> | 7 <sup>°C</sup> | 8 <sup>°C</sup> | 9 <sup>°C</sup> | 10 <sup>°C</sup> |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Enter wind <sup>°C</sup>               |                 |                 |                 |                 |                 |                  |
| Db31 <sup>°C</sup> ,Wb25 <sup>°C</sup> | 0.862           | 0.811           | 0.763           | 0.712           | 0.664           | 0.611            |
| Db32 <sup>°C</sup> ,Wb26 <sup>°C</sup> | 0.942           | 0.891           | 0.842           | 0.793           | 0.744           | 0.692            |
| Db33 <sup>°C</sup> ,Wb27 <sup>°C</sup> | 1.022           | 0.971           | 0.922           | 0.871           | 0.813           | 0.764            |
| Db35 <sup>°C</sup> ,Wb28 <sup>°C</sup> | 1.101           | 1.052           | 1.00            | 0.952           | 0.903           | 0.842            |
| Db36 <sup>°C</sup> ,Wb29 <sup>°C</sup> | 1.193           | 1.141           | 1.091           | 1.033           | 0.982           | 0.934            |
| Db37 <sup>°C</sup> ,Wb30 <sup>°C</sup> | 1.282           | 1.234           | 1.182           | 1.123           | 1.071           | 1.012            |

Fresh air condition heating capacity correction rate

| Enter water <sup>°C</sup> | 65 <sup>°C</sup> | 60 <sup>°C</sup> | 55 <sup>°C</sup> | 50 <sup>°C</sup> | 45 <sup>°C</sup> | 40 <sup>°C</sup> |
|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Enter wind <sup>°C</sup>  |                  |                  |                  |                  |                  |                  |
| 10 <sup>°C</sup>          | 1.081            | 0.972            | 0.883            | 0.771            | 0.672            | 0.571            |
| 7 <sup>°C</sup>           | 1.102            | 1.00             | 0.912            | 0.813            | 0.712            | 0.611            |
| 4 <sup>°C</sup>           | 1.143            | 1.041            | 0.952            | 0.851            | 0.753            | 0.652            |
| 1 <sup>°C</sup>           | 1.212            | 1.111            | 1.022            | 0.921            | 0.823            | 0.724            |
| -2 <sup>°C</sup>          | 1.292            | 1.183            | 1.091            | 0.994            | 0.892            | 0.791            |
| -5 <sup>°C</sup>          | 1.364            | 1.256            | 1.164            | 1.063            | 0.961            | 0.863            |

## 5 CLOTHES CLOSET INSTALLATION

### Dimension

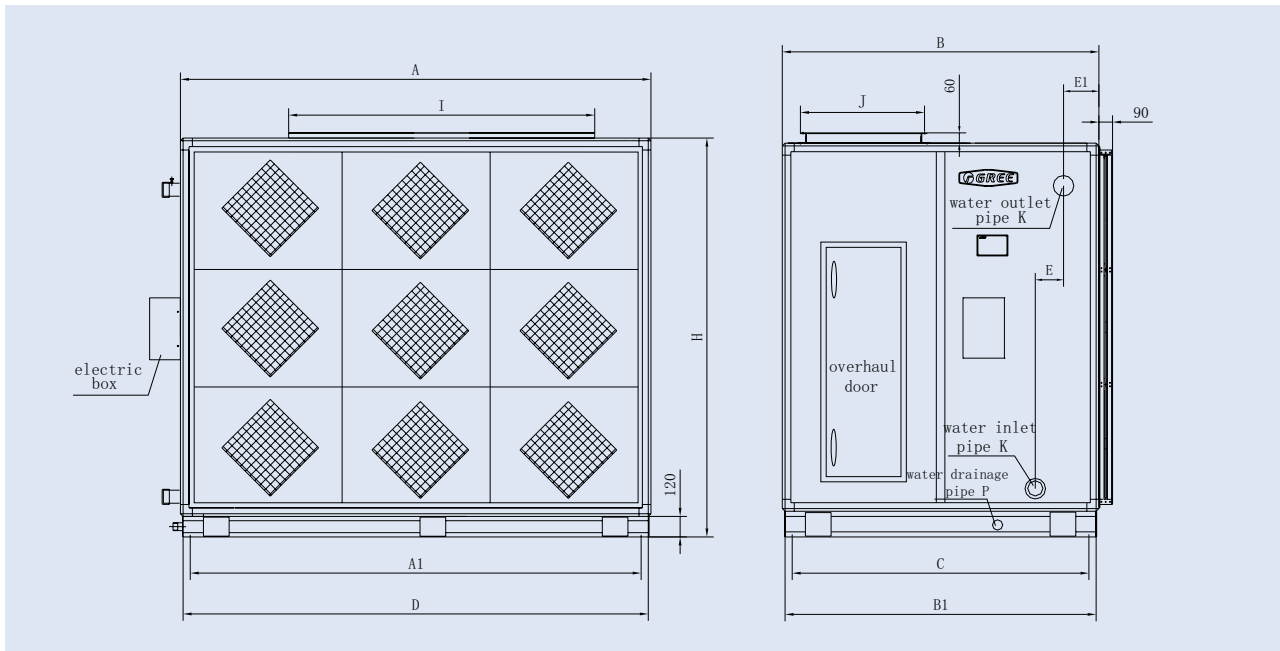


| Model | G-3<br>G-3X | G-4<br>G-4X | G-5<br>G-5X | G-6<br>G-6X | G-8<br>G-8X | G-10<br>G-10X | G-12<br>G-12X | G-14<br>G-14X | G-16<br>G-16X | G-18<br>G-18X |
|-------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|
| A     | 1050        | 1050        | 1250        | 1250        | 1650        | 1850          | 1850          | 2150          | 2150          | 2150          |
| B     | 650         | 650         | 750         | 750         | 750         | 750           | 750           | 850           | 850           | 850           |
| H     | 1270        | 1370        | 1370        | 1570        | 1770        | 1770          | 1870          | 2070          | 2070          | 2070          |
| C     | 520         | 520         | 520         | 520         | 620         | 620           | 620           | 720           | 720           | 720           |
| D     | 1018        | 1018        | 1018        | 1118        | 1618        | 1818          | 1818          | 2118          | 2118          | 2118          |
| A1    | 966         | 966         | 966         | 1066        | 1566        | 1766          | 1766          | 2066          | 2066          | 2066          |
| B1    | 618         | 618         | 718         | 718         | 718         | 718           | 718           | 818           | 818           | 818           |
| E1    | 100         | 100         | 140         | 140         | 100         | 100           | 100           | 100           | 100           | 100           |
| E     | 99/165      | 99/165      | 99/165      | 99/165      | 99/165      | 99/165        | 99/165        | 99/165        | 99/165        | 99/165        |
| I     | 340         | 340         | 320         | 320         | 475         | 1125          | 1125          | 1330          | 1330          | 1330          |
| J     | 300         | 300         | 350         | 350         | 410         | 350           | 350           | 410           | 410           | 410           |
| K(in) | 1.5         | 1.5         | 2           | 2.5         | 2.5         | 2.5           | 2.5           | 2.5           | 2.5           | 3             |
| P(in) | 1           | 1           | 1           | 1           | 1           | 1             | 1             | 1             | 1.5           | 1.5           |

Note:

"E" is the size when the coil four rows or six rows;  
Consumer can speak for the coil of eight rows, "E" is 231.

# Horizontal/Vertical Mounting Package AHU Technical Sales Guide



| Model | G-20<br>G-20X | G-22<br>G-22X | G-25<br>G-25X | G-30<br>G-30X |
|-------|---------------|---------------|---------------|---------------|
| A     | 1850          | 2150          | 2150          | 2150          |
| B     | 1350          | 1550          | 1550          | 1550          |
| H     | 1870          | 1970          | 1970          | 2270          |
| C     | 1220          | 1420          | 1420          | 1420          |
| D     | 1818          | 2118          | 2118          | 2118          |
| A1    | 1766          | 2066          | 2066          | 2066          |
| B1    | 1318          | 1518          | 1518          | 1518          |
| E1    | 145           | 145           | 145           | 160           |
| E     | 99/165        | 99/165        | 99/165        | 99/165        |
| I     | 1380          | 1650          | 1650          | 1650          |
| J     | 450           | 630           | 630           | 630           |
| K(in) | 3             | 3             | 3             | 3             |
| P(in) | 1.5           | 1.5           | 1.5           | 1.5           |

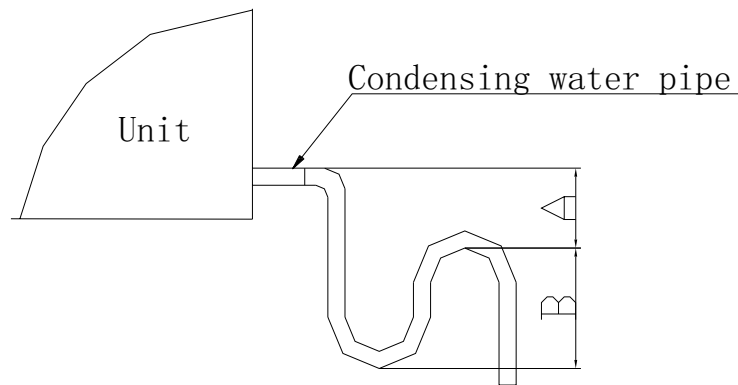
## Units Install

Please select the right type, which meet the required cooling (heating) capacity, noise, and local criterion and standard of the air conditioning industry, to design the air duct and muffler, to satisfy with your requirements. Make sure for the correct selection and maintenance of the unit in operating, should obey the following requirements in the following:

- ◆ Units air inlet and outlet vents and air duct connection should adopt the flexible connection, and the weight of air duct which is connected with the unit should not be supported by the unit. The units cannot be installed in the places where there is flammable, explosive, corrosive gas, heavy greasy, salty atmosphere.
- ◆ Flexible connector should be applied to the pipeline of the water inlet and outlet pipes, the 60 holes/inch<sup>2</sup> mesh filter to the water inlet pipe also should be installed.
- ◆ The condensing water drainage hose should be inclined.
- ◆ The condensing water drainage hose should be inclined.

$$A=B \geq (P/10) + 20\text{mm}$$

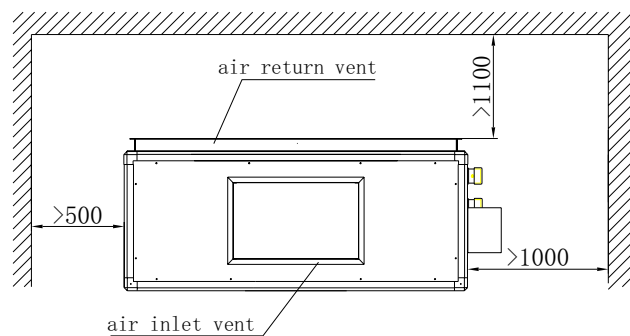
P— Working pressure of this section in the equipment, Unit Pa



Condensing water drainage pipe trap

The unit should be installed fall to the ground, the differences of the top corners should be less than 5mm or the gradient should be  $\leq 1:500$ .

There should be enough spaces for the care and maintenance and the air return duct installation.





## Maintenance Inspection

### ◆ Check before start-up

1. Some parts might get loose in transportation. After the installation is completed, please check the tightness of all bolts, especially the parts of transmission (such as the trap pulley, bearing etc).
2. To rotate the impeller by hands, make sure the impeller can rotate free.
3. Examine the lubrication for fan motor, to make sure it is normal.
4. Check there is no obstruction in the duct, and the air inlet, outlet should not be blocked.
5. Check all the electric connection, make sure the fan motor rotate direction is correct.
6. Check the safety device of control equipment, make sure it is normal.
7. Examine whether the water and air run smooth.

### ◆ Start-up

After the above checking up, please start the units and carry out the following check up and adjustment.

1. Test the motor voltage and current, compare the testing data with the data on the nameplate of the unit, and make sure the motor doesn't overload.
2. Test the air volume and air pressure, if they are not correspond with the nameplate, could adjust the air valve or trap pulley.

### ◆ The notices for daily use

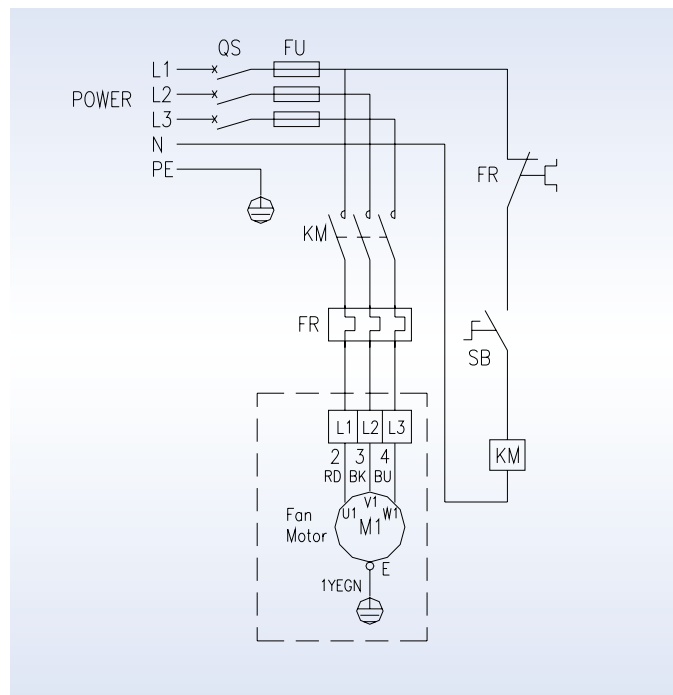
The equipment use 7℃ chilled water (the lowest temperature should be 5℃) in summer, hot water 60℃ (the highest temperature should be 65℃) in winter, the water quality should meet the requirement. The medium in floor standing type fan coil unit is water, if the unit is used in winter, the antifreeze should be added in the water, when the unit is not in use in winter, the water in heat-exchanger should be drained out, to avoid the freezing, if the water cannot be drained out from the pipeline, that the antifreeze should be charged in the pipeline system: Glycol, the filling ratio should be carried out according to this manual;

Glycol liquor concentration – freezing point table

| Concentration<br>% | freezing point<br>℃ | Concentration<br>% | Freezing point<br>℃ | Concentration<br>% | Freezing point<br>℃ |
|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
| 4.60               | -2                  | 19.08              | -10                 | 35.00              | -21                 |
| 8.40               | -4                  | 23.60              | -13                 | 38.80              | -26                 |
| 12.20              | -5                  | 27.40              | -15                 | 42.06              | -29                 |
| 16.00              | -7                  | 31.20              | -17                 | 46.40              | -33                 |

The concentration of glycol in the table is mass concentration

## 6 WIRING DIAGRAM



Note:

the controlling cabinet should be supplied by user,  
the wiring of cable which is out of dotted frame is for reference only.  
Please make adjustment due to actual requirement of the motor.

## VERTICAL MOUNTING PACKAGE AHU

## 7 FEATURES



### Description

GREE G series Fan Coil Air Handling Unit is the AHU of center air condition system end, The units of this series are made up of the cooling coil, fan motor, filter and heat insulation cabinet etc. The units handle the indoor air through heat exchange between chilled (or heat) water and indoor circulating air (or outdoor fresh air) for cooling (heating), according to the requirement of cooling or heating, dehumidifying and purifying etc. and the processed air distributed to each district by the duct and vent.



### Standard Features

- ◆ Thinner design: the body would be thinner through the optimal design, so as to save the height of the mechanical floor and the cost.
- ◆ Stronger rust-proof: Cabinet panel and frame adopts the two-sided coating of the galvanized sheet or hot-galvanizing steel which is made by special technology to ensure that the unit with superior anti-corrosion ability. □
- ◆ Convenient maintenance: removable panel and adjustable motor mounting make the maintenance work more convenient.

## 8 PRODUCT DATA

### Product Data on Rated Conditions

◆ B Series

| Model:               |                                   |                   | G-1.5WD/B   | G-2WD/B | G-2.5WD/B | G-3WD/B | G-4WD/B |
|----------------------|-----------------------------------|-------------------|---|---------|-----------|---------|---------|
| Air Flow             |                                   | m <sup>3</sup> /h | 1500  | 2000    | 2500      | 3000    | 4000    |
| 4-Row                | Cooling                           | kW                | 8.4   | 11.03   | 14.1      | 17.94   | 22.5    |
|                      | Heating                           | kW                | 13.7  | 17.96   | 22.27     | 27.8    | 34.55   |
|                      | Water Flow                        | L/s               | 0.41  | 0.53    | 0.67      | 0.86    | 1.08    |
|                      | Loss of Pressure                  | kPa               | 5   | 8       | 7         | 11      | 13      |
|                      | External Static Pressure          | Pa                | 40  | 40      | 50        | 50      | 65      |
|                      | Optional external Static pressure | Pa                | 80/120  | 80/120  | 80/120    | 80/120  | 90/120  |
|                      | Weight                            | kg                | 133   | 138     | 146       | 167     | 186     |
| 6-Row                | Cooling                           | kW                | 12.03   | 13.50   | 18.42     | 21.53   | 28.78   |
|                      | Heating                           | kW                | 17.28   | 19.58   | 27.2      | 30.13   | 42.79   |
|                      | Water Flow                        | L/s               | 0.57  | 0.65    | 0.88      | 1.03    | 1.38    |
|                      | Loss of Pressure                  | kPa               | 7   | 9       | 11        | 13      | 16      |
|                      | External Static Pressure          | Pa                | 40  | 40      | 50        | 50      | 65      |
|                      | Optional external Static pressure | Pa                | 70/100  | 70/100  | 75/100    | 75/100  | 80/100  |
|                      | Weight                            | kg                | 140   | 150     | 160       | 180     | 200     |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |         |           |         |         |
| Wiring Connections   | Quantity                          |                   | 3   |         |           |         |         |
|                      | Area                              | mm <sup>2</sup>   | 1.0   | 1.0     | 1.0       | 1.0     | 1.0     |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |         |           |         |         |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |         |           |         |         |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |         |           |         |         |
|                      | Drive                             |                   | Belt drive  |         |           |         |         |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |         |           |         |         |
|                      | Motor Output                      | kW                | 0.55  | 0.55    | 0.55      | 0.55    | 0.75    |
| Sound Pressure Level |                                   | dB(A)             | ≤51.5   | ≤53     | ≤56       | ≤58     | ≤58     |
| Coil Connection      |                                   |                   | DN40  | DN40    | DN40      | DN40    | DN40    |
| Drain Connection     |                                   |                   | DN25  |         |           |         |         |

| Model:               |                                   |                   | G-5WD/B   | G-6WD/B | G-7WD/B | G-8WD/B |
|----------------------|-----------------------------------|-------------------|---|---------|---------|---------|
| Air Flow             |                                   | m <sup>3</sup> /h | 5000  | 6000    | 7000    | 8000    |
| 4-Row                | Cooling                           | kW                | 28.69   | 35.2    | 42.1    | 48.8    |
|                      | Heating                           | kW                | 43.4  | 54.7    | 67.4    | 73.4    |
|                      | Water Flow                        | L/s               | 1.37  | 1.68    | 2.01    | 2.33    |
|                      | Loss of Pressure                  | kPa               | 16  | 15.8    | 17      | 18      |
|                      | External Static Pressure          | Pa                | 65  | 75      | 75      | 90      |
|                      | Optional external Static pressure | Pa                | 90/120  | 100/150 | 120/180 | 150/200 |
|                      | Weight                            | kg                | 205   | 235     | 280     | 325     |
| 6-Row                | Cooling                           | kW                | 36.19   | 43.52   | 53.22   | 59.7    |
|                      | Heating                           | kW                | 53.9  | 63.4    | 77.17   | 87.56   |
|                      | Water Flow                        | L/s               | 1.73  | 2.08    | 2.54    | 2.85    |
|                      | Loss of Pressure                  | kPa               | 19  | 20.8    | 21      | 22      |
|                      | External Static Pressure          | Pa                | 65  | 75      | 75      | 90      |
|                      | Optional external Static pressure | Pa                | 80/100  | 100/130 | 120/160 | 150/180 |
|                      | Weight                            | kg                | 220   | 250     | 300     | 350     |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |         |         |         |
| Wiring Connections   | Quantity                          |                   | 3   |         |         |         |
|                      | Area                              | mm <sup>2</sup>   | 1.5   | 1.5     | 1.5     | 1.5     |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |         |         |         |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |         |         |         |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |         |         |         |
|                      | Drive                             |                   | Belt drive  |         |         |         |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |         |         |         |
|                      | Motor Output                      | kW                | 1.1   | 1.1     | 1.5     | 1.5     |
| Sound Pressure Level |                                   | dB(A)             | ≤58   | ≤58     | ≤58     | ≤60     |
| Coil Connection      |                                   |                   | DN50  | DN50    | DN50    | DN50    |
| Drain Connection     |                                   |                   | DN25  |         |         |         |

**Note:**

- The performances are based on the following conditions:  
 Entering Air Conditions DB:27°C WB:19.5°C  
 Entering Chilled Water Conditions:7°C ; Leaving Chilled Water Conditions:12°C  
 Entering Air Conditions DB:27°C ; Entering Water Conditions:60°C
- Operating weight of the unit is about 1.2 times of normal weight of the unit.(water's weight is excluded).
- The value of the motor power input and noise in the table may be variable with the selected static pressure, so each parameter of the units should refer to the nameplate.



# Horizontal/Vertical Mounting Package AHU Technical Sales Guide

| Model:               |                                   |                   | G-1.5WDX/B  | G-2WDX/B | G-2.5WDX/B | G-3WDX/B | G-4WDX/B |
|----------------------|-----------------------------------|-------------------|---|----------|------------|----------|----------|
| Air Flow             |                                   | m <sup>3</sup> /h | 1500  | 2000     | 2500       | 3000     | 4000     |
| 4-Row                | Cooling                           | kW                | 20.85   | 25.71    | 35.48      | 40.60    | 48.74    |
|                      | Heating                           | kW                | 22.58   | 28.26    | 37.64      | 43.44    | 56.64    |
|                      | Water Flow                        | L/s               | 1.00  | 1.23     | 1.69       | 1.94     | 2.33     |
|                      | Loss of Pressure                  | kPa               | 10.74   | 15.60    | 30.81      | 39.15    | 6.50     |
|                      | External Static Pressure          | Pa                | 40  | 40       | 50         | 50       | 65       |
|                      | Optional external Static pressure | Pa                | 80/120  | 80/120   | 80/120     | 80/120   | 90/120   |
|                      | Weight                            | kg                | 133   | 138      | 146        | 167      | 186      |
| 6-Row                | Cooling                           | kW                | 23.49   | 31.32    | 39.15      | 46.99    | 62.64    |
|                      | Heating                           | kW                | 26.19   | 33.21    | 42.91      | 49.83    | 64.22    |
|                      | Water Flow                        | L/s               | 1.25  | 1.59     | 2.05       | 2.38     | 3.07     |
|                      | Loss of Pressure                  | kPa               | 21.05   | 32.19    | 20.99      | 27.45    | 13.40    |
|                      | External Static Pressure          | Pa                | 40  | 40       | 50         | 50       | 65       |
|                      | Optional external Static pressure | Pa                | 70/100  | 70/100   | 75/100     | 75/100   | 80/100   |
|                      | Weight                            | kg                | 140   | 150      | 160        | 180      | 200      |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |          |            |          |          |
| Wiring Connections   | Quantity                          |                   | 3   |          |            |          |          |
|                      | Area                              | mm <sup>2</sup>   | 1.0   | 1.0      | 1.0        | 1.0      | 1.0      |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |          |            |          |          |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |          |            |          |          |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |          |            |          |          |
|                      | Drive                             |                   | Belt drive  |          |            |          |          |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |          |            |          |          |
|                      | Motor Output                      | kW                | 0.55  | 0.55     | 0.55       | 0.55     | 0.75     |
| Sound Pressure Level |                                   | dB(A)             | ≤51.5   | ≤53      | ≤56        | ≤58      | ≤58      |
| Coil Connection      |                                   |                   | DN40  | DN40     | DN40       | DN40     | DN40     |
| Drain Connection     |                                   |                   | DN25  |          |            |          |          |

| Model:               |                                   |                   | G-5WDX/B  | G-6WDX/B | G-7WDX/B | G-8WDX/B |
|----------------------|-----------------------------------|-------------------|---|----------|----------|----------|
| Air Flow             |                                   | m <sup>3</sup> /h | 5000  | 6000     | 7000     | 8000     |
| 4-Row                | Cooling                           | kW                | 60.87   | 73.21    | 91.62    | 100.82   |
|                      | Heating                           | kW                | 67.72   | 81.27    | 99.12    | 110.00   |
|                      | Water Flow                        | L/s               | 2.91  | 3.50     | 4.38     | 4.82     |
|                      | Loss of Pressure                  | kPa               | 10.10   | 10.10    | 16.40    | 19.40    |
|                      | External Static Pressure          | Pa                | 65  | 75       | 75       | 90       |
|                      | Optional external Static pressure | Pa                | 90/120  | 100/150  | 120/180  | 150/200  |
|                      | Weight                            | kg                | 205   | 235      | 280      | 325      |
| 6-Row                | Cooling                           | kW                | 78.31   | 93.97    | 109.63   | 125.29   |
|                      | Heating                           | kW                | 80.11   | 96.20    | 117.14   | 130.58   |
|                      | Water Flow                        | L/s               | 3.83  | 4.60     | 5.60     | 6.24     |
|                      | Loss of Pressure                  | kPa               | 20.70   | 20.70    | 32.40    | 39.30    |
|                      | External Static Pressure          | Pa                | 65  | 75       | 75       | 90       |
|                      | Optional external Static pressure | Pa                | 80/100  | 100/130  | 120/160  | 150/180  |
|                      | Weight                            | kg                | 220   | 250      | 300      | 350      |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |          |          |          |
| Wiring Connections   | Quantity                          |                   | 3   |          |          |          |
|                      | Area                              | mm <sup>2</sup>   | 1.5   | 1.5      | 1.5      | 1.5      |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |          |          |          |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |          |          |          |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |          |          |          |
|                      | Drive                             |                   | Belt drive  |          |          |          |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |          |          |          |
|                      | Motor Output                      | kW                | 1.1   | 1.1      | 1.5      | 1.5      |
| Sound Pressure Level |                                   | dB(A)             | ≤58   | ≤58      | ≤58      | ≤60      |
| Coil Connection      |                                   |                   | DN50  | DN50     | DN50     | DN50     |
| Drain Connection     |                                   |                   | DN25  |          |          |          |

**Note:**

- The performances are based on the following conditions:  
 Entering Air Conditions DB:35°C WB:28°C  
 Entering Chilled Water Conditions:7°C ; Leaving Chilled Water Conditions:12°C  
 Entering Air Conditions DB:7 °C ; Entering Water Conditions:60°C
- Operating weight of the unit is about 1.2 times of normal weight of the unit.(water's weight is excluded).
- The value of the motor power input and noise in the table may be variable with the selected static pressure, so each parameter of the units should refer to the nameplate.

# Horizontal/Vertical Mounting Package AHU Technical Sales Guide

## ◆ D Series

| Model:               |                                   |                   | G-1.5WD/DG-2WD/DG-2.5WD/DG-3WD/DG-4WD/DG-5WD/D              |         |         |         |         |         |
|----------------------|-----------------------------------|-------------------|---|---------|---------|---------|---------|---------|
| Air Flow             |                                   | m <sup>3</sup> /h | 1500  | 2000    | 2500    | 3000    | 4000    | 5000    |
| 4-Row                | Cooling                           | kW                | 8.4   | 11.03   | 14.1    | 17.94   | 22.5    | 28.69   |
|                      | Heating                           | kW                | 13.7  | 17.96   | 22.27   | 27.8    | 34.55   | 43.4    |
|                      | Water Flow                        | L/s               | 0.41  | 0.53    | 0.67    | 0.86    | 1.08    | 1.37    |
|                      | Loss of Pressure                  | kPa               | 2.40  | 3.44    | 7.27    | 9.15    | 11.90   | 16.00   |
|                      | External Static Pressure          | Pa                | 40  | 40      | 50      | 50      | 65      | 65      |
|                      | Optional external Static pressure | Pa                | 120/200   | 120/200 | 120/210 | 120/210 | 120/280 | 120/280 |
|                      | Weight                            | kg                | 85  | 85      | 100     | 110     | 150     | 160     |
| 6-Row                | Cooling                           | kW                | 12.03   | 13.50   | 18.42   | 21.53   | 28.78   | 36.19   |
|                      | Heating                           | kW                | 17.28   | 19.58   | 27.2    | 30.13   | 42.79   | 53.9    |
|                      | Water Flow                        | L/s               | 0.57  | 0.65    | 0.88    | 1.03    | 1.38    | 1.73    |
|                      | Loss of Pressure                  | kPa               | 5.25  | 7.85    | 15.40   | 19.92   | 24.60   | 34.00   |
|                      | External Static Pressure          | Pa                | 40  | 40      | 50      | 50      | 65      | 65      |
|                      | Optional external Static pressure | Pa                | 120/200   | 120/200 | 120/210 | 120/210 | 120/280 | 120/280 |
|                      | Weight                            | kg                | 95  | 95      | 115     | 125     | 167     | 180     |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |         |         |         |         |         |
| Wiring Connections   | Quantity                          |                   | 3   |         |         |         |         |         |
|                      | Area                              | mm <sup>2</sup>   | 1.0   | 1.0     | 1.0     | 1.0     | 1.0     | 1.5     |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |         |         |         |         |         |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |         |         |         |         |         |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |         |         |         |         |         |
|                      | Drive                             |                   | Belt drive  |         |         |         |         |         |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |         |         |         |         |         |
|                      | Motor Output                      | kW                | 0.55  | 0.55    | 0.55    | 0.75    | 0.75    | 1.1     |
| Sound Pressure Level |                                   | dB(A)             | ≤51.5   | ≤53     | ≤56     | ≤58     | ≤58     | ≤58     |
| Coil Connection      |                                   |                   | DN40  | DN40    | DN40    | DN40    | DN40    | DN40    |
| Drain Connection     |                                   |                   | DN25  |         |         |         |         |         |

| Model:               |                                   | G-6WD/D           | G-7WD/D   | G-8WD/D | G-9WD/D | G-10WD/D | G-12WD/D |         |  |
|----------------------|-----------------------------------|-------------------|---|---------|---------|----------|----------|---------|--|
| Air Flow             |                                   | m <sup>3</sup> /h | 6000  | 7000    | 8000    | 9000     | 10000    | 12000   |  |
| 4-Row                | Cooling                           | kW                | 35.2  | 42.1    | 46.8    | 49.1     | 54.5     | 65.4    |  |
|                      | Heating                           | kW                | 54.7  | 67.4    | 73.4    | 78.45    | 88.2     | 108.3   |  |
|                      | Water Flow                        | L/s               | 1.68  | 2.01    | 2.33    | 2.51     | 2.78     | 3.37    |  |
|                      | Loss of Pressure                  | kPa               | 15.80   | 25.90   | 30.90   | 6.70     | 7.70     | 12.00   |  |
|                      | External Static Pressure          | Pa                | 75  | 75      | 90      | 90       | 90       | 100     |  |
|                      | Optional external Static pressure | Pa                | 120/300   | 150/300 | 180/350 | 180/350  | 180/400  | 180/400 |  |
|                      | Weight                            | kg                | 230   | 240     | 260     | 300      | 320      | 360     |  |
| 6-Row                | Cooling                           | kW                | 43.52   | 53.22   | 59.7    | 65.37    | 69.13    | 87.9    |  |
|                      | Heating                           | kW                | 63.4  | 77.17   | 87.56   | 93.47    | 120.5    | 129.93  |  |
|                      | Water Flow                        | L/s               | 2.08  | 2.54    | 2.85    | 3.10     | 3.31     | 4.21    |  |
|                      | Loss of Pressure                  | kPa               | 34.10   | 17.30   | 20.80   | 14.30    | 16.50    | 25.60   |  |
|                      | External Static Pressure          | Pa                | 75  | 75      | 90      | 90       | 90       | 100     |  |
|                      | Optional external Static pressure | Pa                | 120/300   | 150/300 | 180/350 | 180/350  | 180/400  | 180/400 |  |
|                      | Weight                            | kg                | 250   | 260     | 280     | 330      | 350      | 390     |  |
| Power Supply         |                                   | 380V 3N~50Hz      |   |         |         |          |          |         |  |
| Wiring Connections   | Quantity                          |                   | 3   |         |         |          |          |         |  |
|                      | Area                              | mm <sup>2</sup>   | 1.5   | 1.5     | 1.5     | 1.5      | 1.5      | 2.5     |  |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |         |         |          |          |         |  |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |         |         |          |          |         |  |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |         |         |          |          |         |  |
|                      | Drive                             |                   | Belt drive  |         |         |          |          |         |  |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |         |         |          |          |         |  |
|                      | Motor Output                      | kW                | 1.5   | 1.5     | 2.2     | 2.2      | 2.2      | 3       |  |
| Sound Pressure Level |                                   | dB(A)             | ≤58   | ≤58     | ≤62     | ≤64      | ≤64      | ≤65     |  |
| Coil Connection      |                                   |                   | DN50  | DN50    | DN50    | DN50     | DN50     | DN50    |  |
| Drain Connection     |                                   |                   | DN25  |         |         |          |          |         |  |

**Note:**

- The performances are based on the following conditions:  
 Entering Air Conditions DB:27°C WB:19.5°C  
 Entering Chilled Water Conditions:7°C ;Leaving Chilled Water Conditions:12°C  
 Entering Air Conditions DB:21°C ;Entering Water Conditions:60°C
- Operating weight of the unit is about 1.2 times of normal weight of the unit.(water's weight is excluded).
- The value of the motor power input and noise in the table may be variable with the selected static pressure, so each parameter of the units should refer to the nameplate.

# Horizontal/Vertical Mounting Package AHU Technical Sales Guide

| Model:               |                                   |                   | G-1.5WDX/DG   | G-2WDX/DG | G-2.5WDX/DG | G-3WDX/DG | G-4WDX/DG | G-5WDX/DG |
|----------------------|-----------------------------------|-------------------|---|-----------|-------------|-----------|-----------|-----------|
| Air Flow             |                                   | m <sup>3</sup> /h | 1500  | 2000      | 2500        | 3000      | 4000      | 5000      |
| 4-Row                | Cooling                           | kW                | 20.85   | 25.71     | 35.48       | 40.60     | 48.74     | 60.87     |
|                      | Heating                           | kW                | 22.58   | 28.26     | 37.64       | 43.44     | 56.64     | 67.72     |
|                      | Water Flow                        | L/s               | 1.00  | 1.23      | 1.69        | 1.94      | 2.33      | 2.91      |
|                      | Loss of Pressure                  | kPa               | 10.74   | 15.60     | 30.81       | 39.15     | 6.50      | 10.10     |
|                      | External Static Pressure          | Pa                | 40  | 40        | 50          | 50        | 65        | 65        |
|                      | Optional external Static pressure | Pa                | 120/200   | 120/200   | 120/210     | 120/210   | 120/280   | 120/280   |
|                      | Weight                            | kg                | 85  | 85        | 100         | 110       | 150       | 160       |
| 6-Row                | Cooling                           | kW                | 23.49   | 31.32     | 39.15       | 46.99     | 62.64     | 78.31     |
|                      | Heating                           | kW                | 26.19   | 33.21     | 42.91       | 49.83     | 64.22     | 80.11     |
|                      | Water Flow                        | L/s               | 1.13  | 1.49      | 1.87        | 2.24      | 2.99      | 3.74      |
|                      | Loss of Pressure                  | kPa               | 21.05   | 32.19     | 20.99       | 27.45     | 13.40     | 20.70     |
|                      | External Static Pressure          | Pa                | 40  | 40        | 50          | 50        | 65        | 65        |
|                      | Optional external Static pressure | Pa                | 120/200   | 120/200   | 120/210     | 120/210   | 120/280   | 120/280   |
|                      | Weight                            | kg                | 95  | 95        | 115         | 125       | 167       | 180       |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |           |             |           |           |           |
| Wiring Connections   | Quantity                          |                   | 3   |           |             |           |           |           |
|                      | Area                              | mm <sup>2</sup>   | 1.0   | 1.0       | 1.0         | 1.0       | 1.0       | 1.5       |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |           |             |           |           |           |
|                      | Operating Pressure                |                   | ≤1.6Mpa   |           |             |           |           |           |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |           |             |           |           |           |
|                      | Drive                             |                   | Belt drive  |           |             |           |           |           |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |           |             |           |           |           |
|                      | Motor Output                      | kW                | 0.55  | 0.55      | 0.55        | 0.75      | 0.75      | 1.1       |
| Sound Pressure Level |                                   | dB(A)             | ≤51.5   | ≤53       | ≤56         | ≤58       | ≤58       | ≤58       |
| Coil Connection      |                                   |                   | DN40  | DN40      | DN40        | DN40      | DN40      | DN40      |
| Drain Connection     |                                   |                   | DN25  |           |             |           |           |           |

| Model:               |                                   |                   | G-6WDX/D  | G-7WDX/D | G-8WDX/D | G-9WDX/DG | 10WDX/D | G-12WDX/D |
|----------------------|-----------------------------------|-------------------|---|----------|----------|-----------|---------|-----------|
| Air Flow             |                                   | m <sup>3</sup> /h | 6000  | 7000     | 8000     | 9000      | 10000   | 12000     |
| 4-Row                | Cooling                           | kW                | 73.21   | 91.62    | 100.82   | 119.86    | 129.06  | 157.30    |
|                      | Heating                           | kW                | 81.27   | 99.12    | 110.00   | 128.49    | 139.26  | 168.52    |
|                      | Water Flow                        | L/s               | 3.50  | 4.38     | 4.82     | 5.73      | 6.17    | 7.52      |
|                      | Loss of Pressure                  | kPa               | 10.10   | 16.40    | 19.40    | 32.70     | 28.60   | 50.00     |
|                      | External Static Pressure          | Pa                | 75  | 75       | 90       | 90        | 90      | 100       |
|                      | Optional external Static pressure | Pa                | 120/300   | 150/300  | 180/350  | 180/350   | 180/400 | 180/400   |
|                      | Weight                            | kg                | 230   | 240      | 260      | 300       | 320     | 360       |
| 6-Row                | Cooling                           | kW                | 93.97   | 109.63   | 125.29   | 142.5     | 160.7   | 175.6     |
|                      | Heating                           | kW                | 96.20   | 117.14   | 130.58   | 138.7     | 151.5   | 170.3     |
|                      | Water Flow                        | L/s               | 4.49  | 5.24     | 5.99     | 6.64      | 7.05    | 8.2       |
|                      | Loss of Pressure                  | kPa               | 20.70   | 32.40    | 39.30    | 46.5      | 50      | 55        |
|                      | External Static Pressure          | Pa                | 75  | 75       | 90       | 90        | 90      | 100       |
|                      | Optional external Static pressure | Pa                | 120/300   | 150/300  | 180/350  | 180/350   | 180/400 | 180/400   |
|                      | Weight                            | kg                | 250   | 260      | 280      | 330       | 350     | 390       |
| Power Supply         |                                   |                   | 380V 3N~50Hz  |          |          |           |         |           |
| Wiring Connections   | Quantity                          |                   | 3   |          |          |           |         |           |
|                      | Area                              | mm <sup>2</sup>   | 1.5   | 1.5      | 1.5      | 1.5       | 1.5     | 2.5       |
| Coil                 | Type                              |                   | High efficient cooper pipe with fin                         |          |          |           |         |           |
|                      | Operating Pressure                | Pa                | ≤1.6Mpa   |          |          |           |         |           |
| Fan                  | Type                              |                   | Forward direction, multi-vane and low-noise centrifugal fan |          |          |           |         |           |
|                      | Drive                             |                   | Belt drive  |          |          |           |         |           |
| Motor                | Type                              |                   | Isolation F Capacitor startup three-speed Motor             |          |          |           |         |           |
|                      | Motor Output                      | kW                | 1.5   | 1.5      | 2.2      | 2.2       | 2.2     | 3         |
| Sound Pressure Level |                                   | dB(A)             | ≤58   | ≤58      | ≤62      | ≤64       | ≤64     | ≤65       |
| Coil Connection      |                                   |                   | DN50  | DN50     | DN50     | DN50      | DN50    | DN50      |
| Drain Connection     |                                   |                   | DN25  |          |          |           |         |           |

**Note:**

- The performances are based on the following conditions:  
 Entering Air Conditions DB:35°C WB:28°C  
 Entering Chilled Water Conditions:7°C ; Leaving Chilled Water Conditions:12°C  
 Entering Air Conditions DB:7 °C ; Entering Water Conditions:60°C
- Operating weight of the unit is about 1.2 times of normal weight of the unit.(water's weight is excluded).
- The value of the motor power input and noise in the table may be variable with the selected static pressure, so each parameter of the units should refer to the nameplate.



## Performance Correction

### Return air condition cooling capacity correction rate

| Enter water <sup>°C</sup>                | 5 <sup>°C</sup> | 6 <sup>°C</sup> | 7 <sup>°C</sup> | 8 <sup>°C</sup> | 9 <sup>°C</sup> | 10 <sup>°C</sup> |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Enter wind <sup>°C</sup>                 |                 |                 |                 |                 |                 |                  |
| Db24 <sup>°C</sup> ,Wb17 <sup>°C</sup>   | 0.88            | 0.78            | 0.74            | 0.71            | 0.615           | 0.44             |
| Db25 <sup>°C</sup> ,Wb18 <sup>°C</sup>   | 1.01            | 0.905           | 0.835           | 0.784           | 0.736           | 0.512            |
| Db27 <sup>°C</sup> ,WB19.5 <sup>°C</sup> | 1.214           | 1.112           | 1.00            | 0.894           | 0.786           | 0.685            |
| Db28 <sup>°C</sup> ,Wb21 <sup>°C</sup>   | 1.425           | 1.323           | 1.214           | 1.102           | 0.982           | 0.876            |
| Db29 <sup>°C</sup> ,Wb22 <sup>°C</sup>   | 1.582           | 1.476           | 1.36            | 1.243           | 1.135           | 1.012            |
| Db30 <sup>°C</sup> ,Wb23 <sup>°C</sup>   | 1.742           | 1.633           | 1.514           | 1.40            | 1.284           | 1.165            |

### Return air condition heating capacity correction rate

| Enter water <sup>°C</sup> | 65 <sup>°C</sup> | 60 <sup>°C</sup> | 55 <sup>°C</sup> | 50 <sup>°C</sup> | 45 <sup>°C</sup> | 40 <sup>°C</sup> |
|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Enter wind <sup>°C</sup>  |                  |                  |                  |                  |                  |                  |
| 13 <sup>°C</sup>          | 1.507            | 1.34             | 1.208            | 1.04             | 0.885            | 0.73             |
| 15 <sup>°C</sup>          | 1.376            | 1.20             | 1.089            | 0.91             | 0.75             | 0.61             |
| 17 <sup>°C</sup>          | 1.364            | 1.19             | 1.06             | 0.89             | 0.73             | 0.60             |
| 19 <sup>°C</sup>          | 1.25             | 1.08             | 0.96             | 0.825            | 0.682            | 0.50             |
| 21 <sup>°C</sup>          | 1.16             | 1.00             | 0.873            | 0.75             | 0.61             | 0.43             |
| 23 <sup>°C</sup>          | 1.09             | 0.97             | 0.80             | 0.68             | 0.54             | 0.37             |

### Fresh air condition cooling capacity correction rate

| Enter water <sup>°C</sup>              | 5 <sup>°C</sup> | 6 <sup>°C</sup> | 7 <sup>°C</sup> | 8 <sup>°C</sup> | 9 <sup>°C</sup> | 10 <sup>°C</sup> |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Enter wind <sup>°C</sup>               |                 |                 |                 |                 |                 |                  |
| Db31 <sup>°C</sup> ,Wb25 <sup>°C</sup> | 0.862           | 0.811           | 0.763           | 0.712           | 0.664           | 0.611            |
| Db32 <sup>°C</sup> ,Wb26 <sup>°C</sup> | 0.942           | 0.891           | 0.842           | 0.793           | 0.744           | 0.692            |
| Db33 <sup>°C</sup> ,Wb27 <sup>°C</sup> | 1.022           | 0.971           | 0.922           | 0.871           | 0.813           | 0.764            |
| Db35 <sup>°C</sup> ,Wb28 <sup>°C</sup> | 1.101           | 1.052           | 1.00            | 0.952           | 0.903           | 0.842            |
| Db36 <sup>°C</sup> ,Wb29 <sup>°C</sup> | 1.193           | 1.141           | 1.091           | 1.033           | 0.982           | 0.934            |
| Db37 <sup>°C</sup> ,Wb30 <sup>°C</sup> | 1.282           | 1.234           | 1.182           | 1.123           | 1.071           | 1.012            |

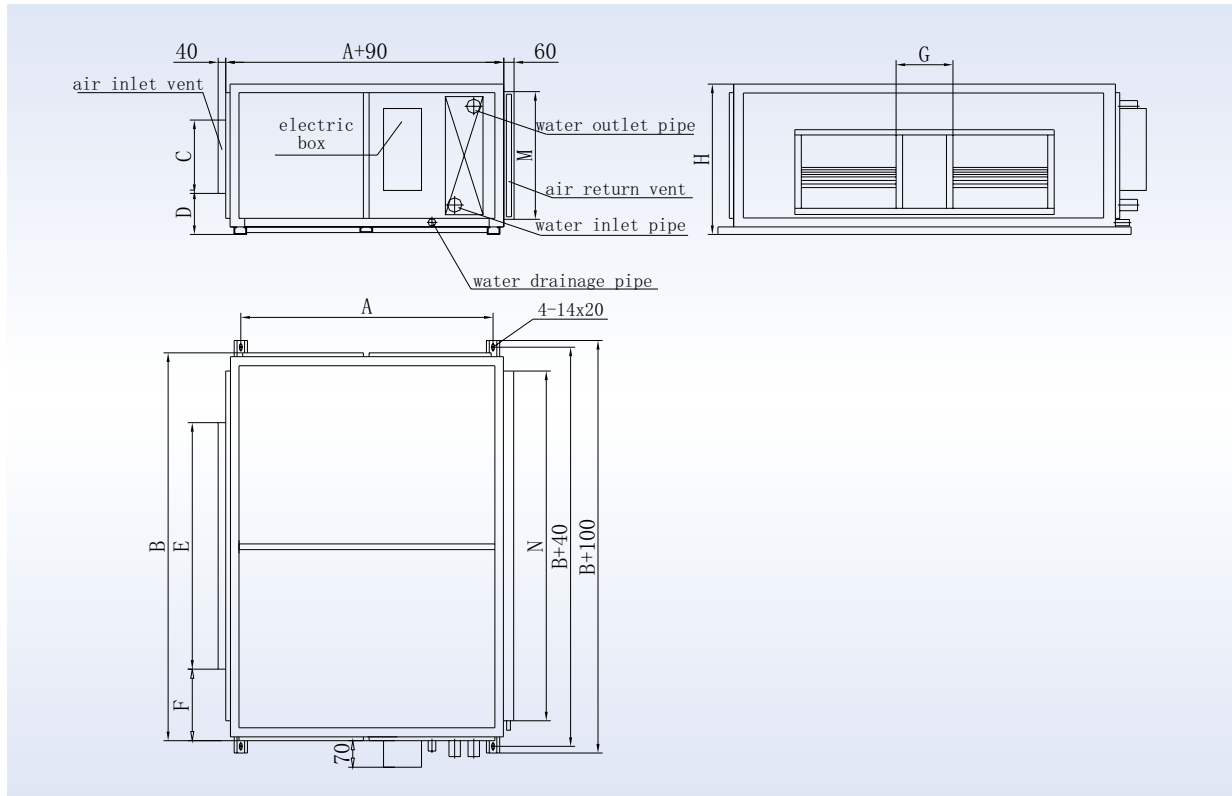
### Fresh air condition heating capacity correction rate

| Enter water <sup>°C</sup> | 65 <sup>°C</sup> | 60 <sup>°C</sup> | 55 <sup>°C</sup> | 50 <sup>°C</sup> | 45 <sup>°C</sup> | 40 <sup>°C</sup> |
|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Enter wind <sup>°C</sup>  |                  |                  |                  |                  |                  |                  |
| 10 <sup>°C</sup>          | 1.081            | 0.972            | 0.883            | 0.771            | 0.672            | 0.571            |
| 7 <sup>°C</sup>           | 1.102            | 1.00             | 0.912            | 0.813            | 0.712            | 0.611            |
| 4 <sup>°C</sup>           | 1.143            | 1.041            | 0.952            | 0.851            | 0.753            | 0.652            |
| 1 <sup>°C</sup>           | 1.212            | 1.111            | 1.022            | 0.921            | 0.823            | 0.724            |
| -2 <sup>°C</sup>          | 1.292            | 1.183            | 1.091            | 0.994            | 0.892            | 0.791            |
| -5 <sup>°C</sup>          | 1.364            | 1.256            | 1.164            | 1.063            | 0.961            | 0.863            |

# 9 INSTALLATION

## Dimension

### ◆ B Series

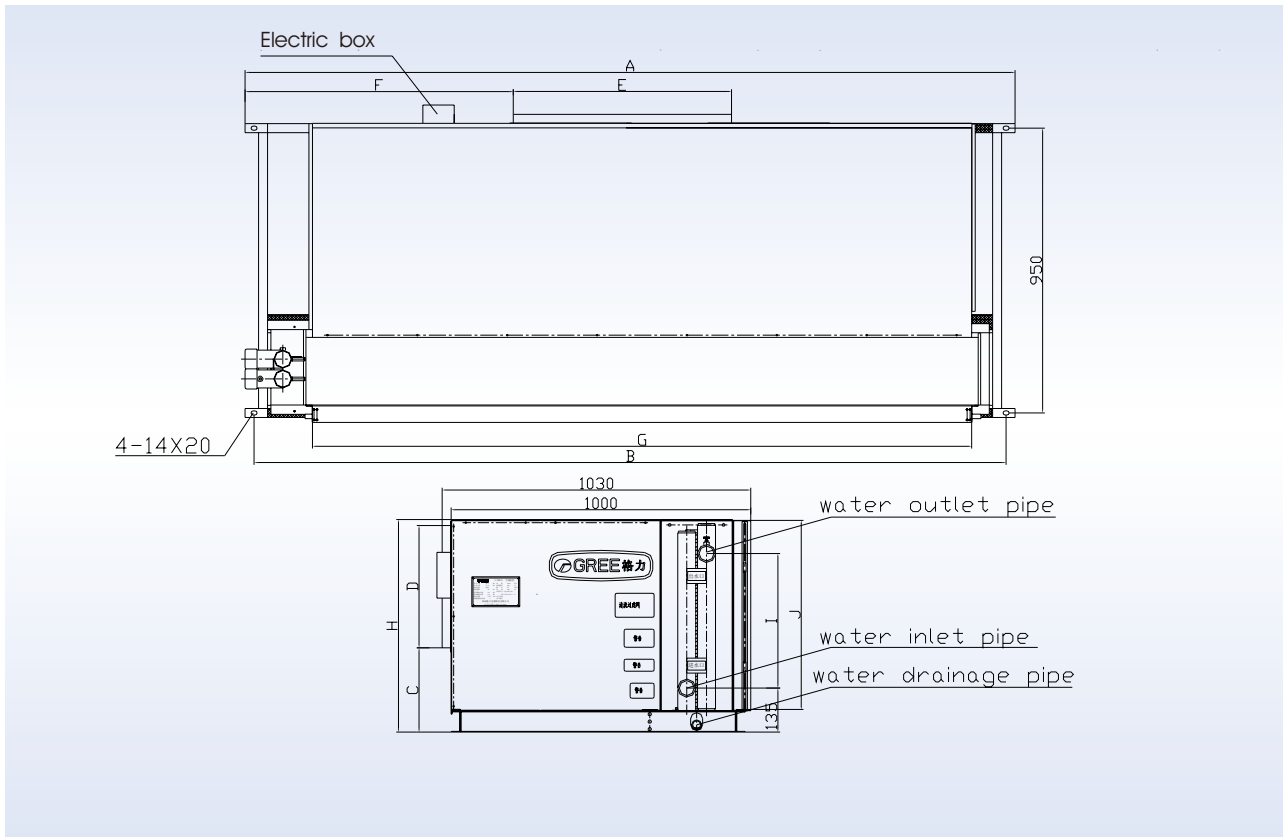


Units: mm

| Model          | A    | B    | H   | C   | D   | E    | F   | G   | M   | N    |
|----------------|------|------|-----|-----|-----|------|-----|-----|-----|------|
| G-1.5WD (X) /B | 830  | 1000 | 440 | 220 | 100 | 260  | 420 | —   | 310 | 860  |
| G-2WD (X) /B   | 930  | 1000 | 460 | 260 | 90  | 300  | 422 | —   | 330 | 860  |
| G-2,5WD (X) /B | 930  | 1300 | 460 | 260 | 90  | 300  | 500 | —   | 330 | 1160 |
| G-3WD (X) /B   | 930  | 1500 | 460 | 220 | 100 | 680  | 510 | 160 | 330 | 1360 |
| G-4WD (X) /B   | 930  | 1900 | 460 | 260 | 90  | 800  | 550 | 200 | 330 | 1760 |
| G-5ED (X) /B   | 930  | 2100 | 460 | 260 | 90  | 800  | 650 | 200 | 330 | 1960 |
| G-6WD (X) /B   | 1130 | 2000 | 560 | 300 | 105 | 960  | 520 | 240 | 430 | 1860 |
| G-7WD (X) /B   | 1130 | 2200 | 560 | 300 | 105 | 960  | 620 | 240 | 430 | 2060 |
| G-8ED (X) /B   | 1130 | 2200 | 660 | 360 | 110 | 1140 | 530 | 300 | 520 | 2060 |

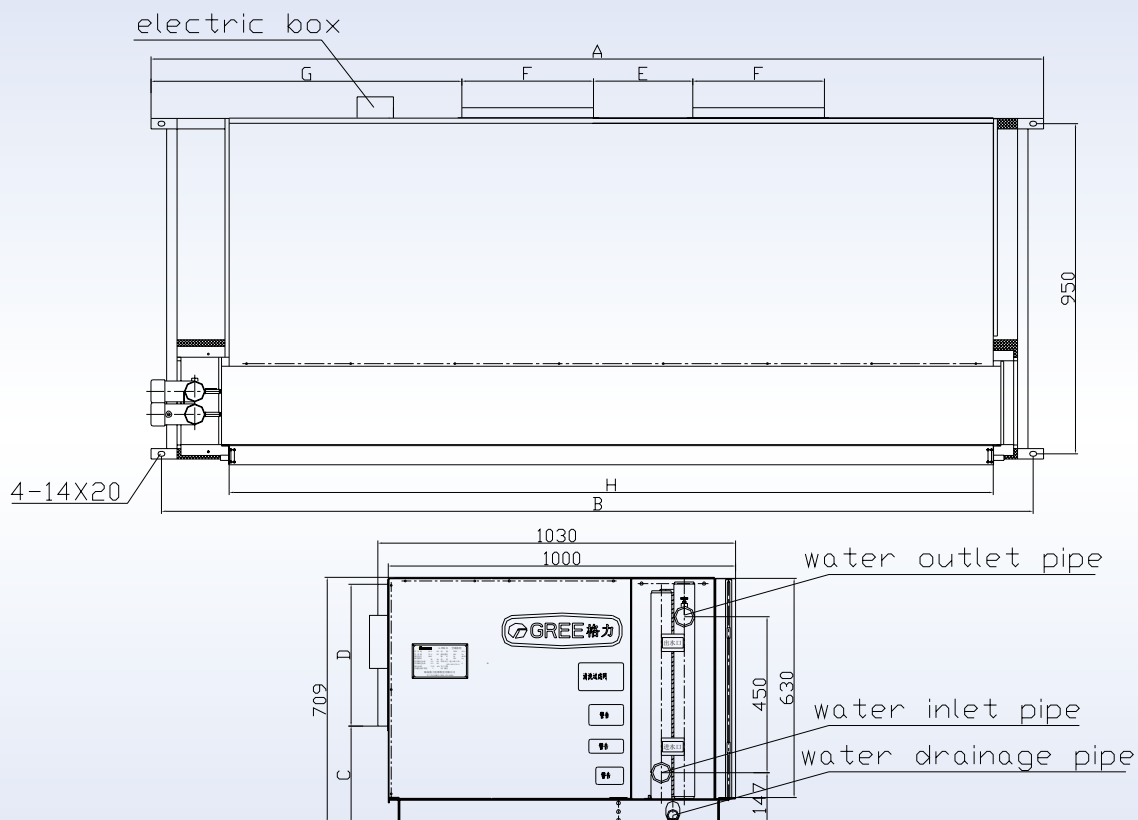


## ◆ D Series



Units: mm

| Model           | A    | B    | C   | D   | E   | F   | G    | H   | I   | J   |
|-----------------|------|------|-----|-----|-----|-----|------|-----|-----|-----|
| G-1.5WD (X) /D  | 1070 | 1010 | 177 | 260 | 290 | 430 | 700  | 452 | 182 | 380 |
| G-1.5WDI (X) /D |      |      |     |     |     |     |      |     |     |     |
| G-2WD (X) /D    | 1070 | 1010 | 177 | 260 | 290 | 430 | 700  | 452 | 182 | 380 |
| G-2WDI (X) /D   |      |      |     |     |     |     |      |     |     |     |
| G-2.5WD (X) /D  | 1270 | 1210 | 177 | 260 | 290 | 530 | 900  | 452 | 182 | 380 |
| G-2.5WDI (X) /D |      |      |     |     |     |     |      |     |     |     |
| G-3WD (X) /D    | 1070 | 1010 | 182 | 260 | 290 | 430 | 700  | 630 | 348 | 558 |
| G-3WDI (X) /D   |      |      |     |     |     |     |      |     |     |     |
| G-4WD (X) /D    | 1270 | 1210 | 255 | 345 | 313 | 647 | 900  | 630 | 348 | 558 |
| G-4WDI (X) /D   |      |      |     |     |     |     |      |     |     |     |
| G-5WD (X) /D    | 1450 | 1390 | 255 | 345 | 400 | 663 | 1080 | 630 | 348 | 558 |
| G-5WDI (X) /D   |      |      |     |     |     |     |      |     |     |     |



Units: mm

| Model          | A    | B    | C   | D   | E   | F   | G   | H    |
|----------------|------|------|-----|-----|-----|-----|-----|------|
| G-6WD (X) /D   | 1500 | 1440 | 284 | 408 | —   | 477 | 696 | 1130 |
| G-6WDI (X) /D  |      |      |     |     |     |     |     |      |
| G-7WD (X) /D   | 1670 | 1610 | 284 | 408 | —   | 477 | 850 | 1300 |
| G-7WDI (X) /D  |      |      |     |     |     |     |     |      |
| G-8WD (X) /D   | 1870 | 1810 | 284 | 408 | —   | 477 | 950 | 1500 |
| G-8WDI (X) /D  |      |      |     |     |     |     |     |      |
| G-9WD (X) /D   | 2050 | 1990 | 255 | 346 | 238 | 315 | 802 | 1680 |
| G-9WDI (X) /D  |      |      |     |     |     |     |     |      |
| G-10WD (X) /D  | 2220 | 2160 | 255 | 346 | 238 | 315 | 887 | 1850 |
| G-10WDI (X) /D |      |      |     |     |     |     |     |      |
| G-12WD (X) /D  | 2570 | 2510 | 284 | 408 | 286 | 379 | 895 | 2200 |
| G-12WDI (X) /D |      |      |     |     |     |     |     |      |

## Units Install

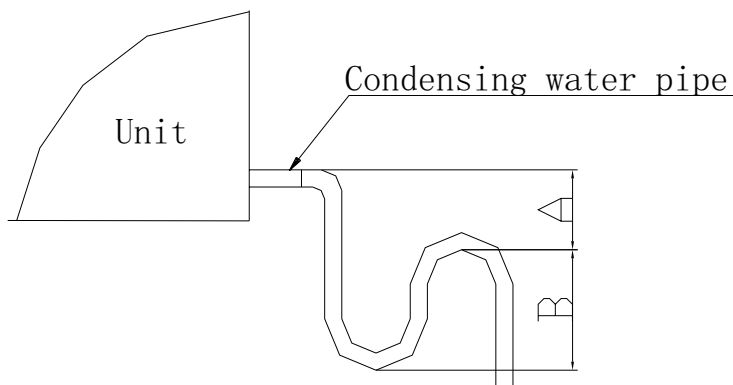
Please select the right type, which meet the required cooling (heating) capacity, noise, and local criterion and standard of the air conditioning industry, to design the air duct and muffler, to satisfy with your requirements.

Make sure for the correct selection and maintenance of the unit in operating, should obey the following requirements in the following:

- ◆ Units air inlet and outlet vents and air duct connection should adopt the flexible connection, and the weight of air duct which is connected with the unit should not be supported by the unit.
- ◆ The units cannot be installed in the places where there is flammable, explosive, corrosive gas, heavy greasy, salty atmosphere.
- ◆ Flexible connector should be applied to the pipeline of the water inlet and outlet pipes, the 60 holes/inch<sup>2</sup> mesh filter to the water inlet pipe also should be installed.
- ◆ The condensing water drainage hose should be inclined.

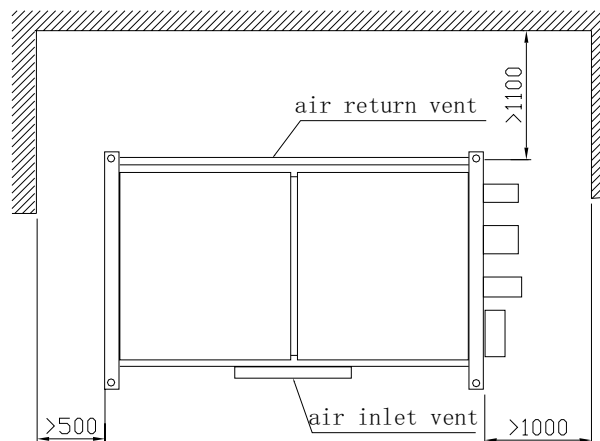
$$A=B \geq (P/10) + 20 \text{ mm}$$

P— Working pressure of this section in the equipment, Unit Pa



Condensing water drainage pipe trap

- ◆ The unit should be installed horizontally, the differences of the top corners should be less than 5mm or the gradient should be  $\leq 1:500$ .
- ◆ There should be enough spaces for the care and maintenance and the air return duct installation.



## Matters need Attention

### ◆ Check before start-up

1. Some parts might get loose in transportation. After the installation is completed, please check the tightness of all bolts, especially the parts of transmission (such as the trap pulley, bearing etc).
2. To rotate the impeller by hands, make sure the impeller can rotate free.
3. Examine the lubrication for fan motor, to make sure it is normal.
4. Check there is no obstruction in the duct, and the air inlet, outlet should not be blocked.
5. Check all the electric connection, make sure the fan motor rotate direction is correct.
6. Check the safety device of control equipment, make sure it is normal.
7. Examine whether the water and air run smooth.

### ◆ Start-up

After the above checking up, please start the units and carry out the following check up and adjustment.

1. Test the motor voltage and current, compare the testing data with the data on the nameplate of the unit, and make sure the motor doesn't overload.
2. Test the air volume and air pressure, if they are not correspond with the nameplate, could adjust the air valve or trap pulley.

### ◆ The notices for daily use

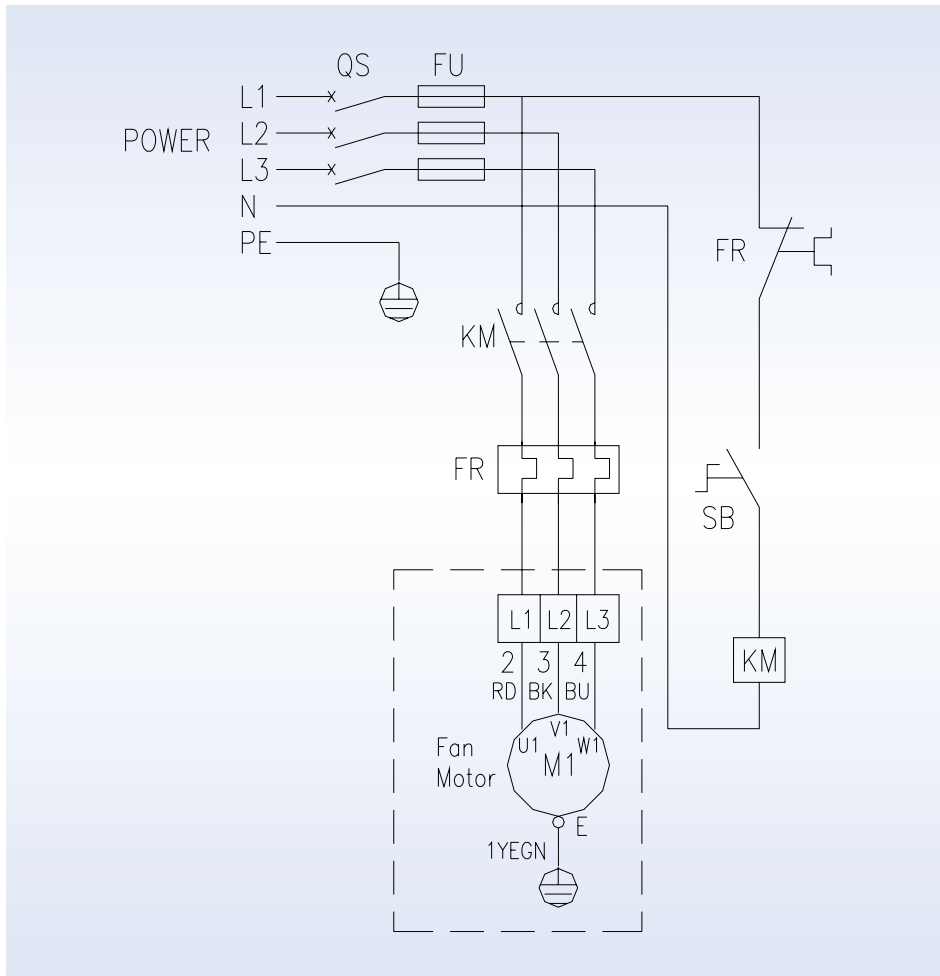
1. The equipment use 7°C chilled water (the lowest temperature should be 5°C) in summer, hot water 60°C (the highest temperature should be 65°C) in winter, the water quality should meet the requirement.
2. The medium in floor standing type fan coil unit is water, if the unit is used in winter, the antifreeze should be added in the water, when the unit is not in use in winter, the water in heat-exchanger should be drained out, to avoid the freezing, if the water cannot be drained out from the pipeline, that the antifreeze should be charged in the pipeline system: Glycol, the filling ratio should be carried out according to this manual;

Glycol liquor concentration – freezing point table

| Concentration | freezing point | Concentration | Freezing point | Concentration | Freezing point |
|---------------|----------------|---------------|----------------|---------------|----------------|
| 4.60          | -2             | 19.08         | -10            | 35.00         | -21            |
| 8.40          | -4             | 23.60         | -13            | 38.80         | -26            |
| 12.20         | -5             | 27.40         | -15            | 42.06         | -29            |
| 16.00         | -7             | 31.20         | -17            | 46.40         | -33            |

The concentration of glycol in the table is mass concentration

# 10 WIRING DIAGRAM



**Note:**

the controlling cabinet should be supplied by user, the wiring of cable which is out of dotted frame is for reference only. Please make adjustment due to actual requirement of the motor.

# GREE

making better air conditioners



Gree Electric Appliances, Inc. of Zhuhai ("Gree") is the largest specialized air conditioner enterprise in the world.

Gree has now become a renowned multinational enterprise that possessing 4 production bases located in Zhuhai, Chongqing, Brazil and Hefei, and five subsidiary companies, totally 37,800 employees. Annual production capacity of us is over 25 million sets of home air conditioners and annual output value of 716 million USD from commercial air conditioners.

We are always paying much attention on technical innovation. Till now, we had registered nearly 1500 patents at home or abroad. The high-end technologies we have successfully developed include the GMV multi VRF system, centrifugal chiller and, in particular, central air conditioners using ultra-low temperature heat pump, which is the first of its kind in the world and an internationally-advanced technology that has filled in a gap of China and broken the technical monopoly of the refrigeration magnates in the United States and Japan, winning widespread reputation and influence in the world refrigeration industry.

With the installation of Gree commercial air conditioners in important projects at home and abroad like Media Village for 2008 Beijing Olympic Game, Stadiums for 2010 World Cup in South Africa, as well as Indian Telecom base station, Gree commercial air conditioners are ready to develop steadily to every corner in the world, to present a more comfortable and harmony working environment and family atmosphere.



## **GREE ELECTRIC APPLIANCES ,INC.OF ZHUHAI**

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