



## CASSETTE TYP FAN COIL UNIT SERVICE MANUAL

(GC201409-I)

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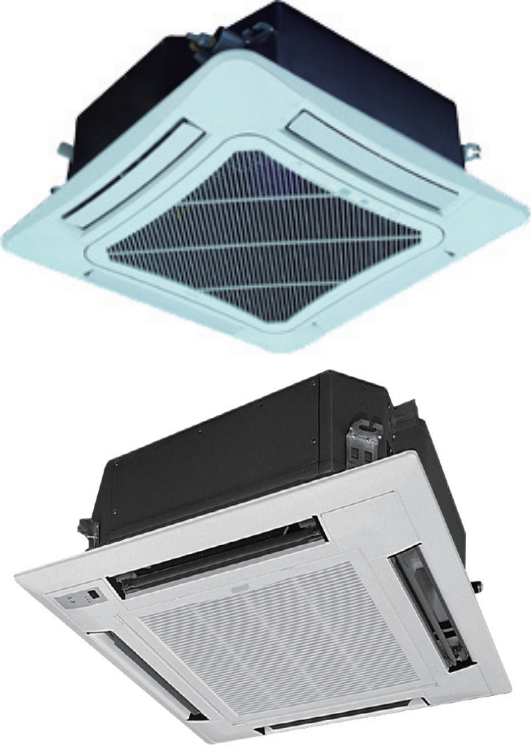
# PRODUCT

## PRODUCT

### 1. MODELS LIST

| Model Name    | Product Code | Cooling Capacity (W) | Air flow Volume (m <sup>3</sup> /h) | Power Supply (V, Ph, Hz) | Remarks                                                                              |
|---------------|--------------|----------------------|-------------------------------------|--------------------------|--------------------------------------------------------------------------------------|
| FP-8XD-E      | EM52000051   | 4600/7500            | 850                                 | 220-240V~ 50Hz           |    |
| FP-8XD/A-E    | EM5200045010 | 4640/7500            | 850                                 | 220-240V~ 50Hz           |                                                                                      |
| FP-10XD-E     | EM52000061   | 5400/9100            | 1020                                | 220-240V~ 50Hz           |                                                                                      |
| FP-10XD/A-E   | EM5200046010 | 5400/9100            | 1020                                | 220-240V~ 50Hz           |                                                                                      |
| FP-12.5XD-E   | EM52000031   | 6700/10500           | 1270                                | 220-240V~ 50Hz           |   |
| FP-12.5XD/A-E | EM5200047010 | 6700/10500           | 1250                                | 220-240V~ 50Hz           |                                                                                      |
| FP-14XD-E     | EM52000071   | 7700/11200           | 1560                                | 220-240V~ 50Hz           |                                                                                      |
| FP-14XD/A-E   | EM5200048010 | 7740/11200           | 1430                                | 220-240V~ 50Hz           |                                                                                      |
| FP-16XD-E     | EM52000081   | 8700/12900           | 1640                                | 220-240V~ 50Hz           |                                                                                      |
| FP-16XD/A-E   | EM5200049010 | 8700/12900           | 1640                                | 220-240V~ 50Hz           |                                                                                      |
| FP-18XD-E     | EM52000041   | 9600/14600           | 1850                                | 220-240V~ 50Hz           |                                                                                      |
| FP-18XD/A-E   | EM5200050010 | 9600/14600           | 1800                                | 220-240V~ 50Hz           |                                                                                      |
| FP-51XD-E     | EM52000011   | 3000/4000            | 510                                 | 220-240V~ 50Hz           |  |
| FP-68XD-E     | EM52000021   | 3500/5000            | 680                                 |                          |                                                                                      |



| Model Name    | Product Code | Cooling/Heating Capacity (W) | Air flow Volume (m <sup>3</sup> /h) | Power Supply (V, Ph, Hz) | Remarks                                                                             |
|---------------|--------------|------------------------------|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| FP-85XD/B-T   | EM520N0930   | 4150/5600                    | 800                                 | 220-240V~ 50Hz           |  |
|               | EM520N0940   | 4160/7800                    | 780                                 | 208-230V~ 60Hz           |                                                                                     |
| FP-102XD/B-T  | EM520N0910   | 500/6500                     | 1020                                | 220-240V~ 50Hz           |                                                                                     |
|               | EM520N0920   | 540/9000                     | 1020                                | 208-230V~ 60Hz           |                                                                                     |
| FP-125XD/B-T  | EM520N0890   | 6000/7800                    | 1180                                | 220-240V~ 50Hz           |                                                                                     |
|               | EM520N0900   | 6300/10000                   | 1130                                | 208-230V~ 60Hz           |                                                                                     |
| FP-140XD/B-T  | EM520N0870   | 8000/9000                    | 1400                                | 220-240V~ 50Hz           |                                                                                     |
|               | EM520N0880   | 8000/12000                   | 1350                                | 208-230V~ 60Hz           |                                                                                     |
| FP-160XD/B-T  | EM520N0850   | 8700/10000                   | 1550                                | 220-240V~ 50Hz           |                                                                                     |
|               | EM520N0860   | 9000/14000                   | 1550                                | 208-230V~ 60Hz           |                                                                                     |
| FP-180XD/B-T  | EM520N0830   | 9500/11000                   | 1800                                | 220-240V~ 50Hz           |                                                                                     |
|               | EM520N0840   | 10000/16000                  | 1800                                | 208-230V~ 60Hz           |                                                                                     |
| FP-200XD/B-T  | EM520N0810   | 1300/14600                   | 2000                                | 220-240V~ 50Hz           |                                                                                     |
|               | EM520N0820   | 1300/19000                   | 2000                                | 208-230V~ 60Hz           |                                                                                     |
| FP-68XDT/B-K  | EM520N0990   | 3500/6000                    | 680                                 | 220-240V~ 50Hz           |                                                                                     |
| FP-85XDT/B-K  | EM520N0960   | 4100/6800                    | 850                                 | 220-240V~ 50Hz           |                                                                                     |
| FP-125XDT/B-K | EM520N0970   | 6000/9500                    | 1250                                | 220-240V~ 50Hz           |                                                                                     |
| FP-180XDT/B-K | EM520N0980   | 8000/13000                   | 1800                                | 220-240V~ 50Hz           |                                                                                     |

## 2. NOMENCLATURE OF THE UNIT

|    |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|
| FP | - | □ | □ | □ | / | □ | - | □ |
| 1  |   | 2 | 3 | 4 |   | 5 |   | 6 |

| NO. | Description     | Options                                                                                           |
|-----|-----------------|---------------------------------------------------------------------------------------------------|
| 1   | Fan coil        | Fan coil unit                                                                                     |
| 2   | Air flow volume | Number×10 m <sup>3</sup> /h(FP-51XD-E;FP-68XD-E);Number×100 m <sup>3</sup> /h(8,10,12.5,14,16,18) |
| 3   | Structure type  | XD-Cassette Type                                                                                  |
| 4   | Pipes type      | Default- 2 pipes; T-4 pipes                                                                       |
| 5   | Design Sequence | Arranged by A, B,C...                                                                             |
| 6   | Power code      | E-220-240V~ 50Hz;T-220-240V~ 50Hz, 208-230V~ 60Hz; K-220-240V~ 50Hz                               |

## 3. FUNCTION

1. Novel pattern: the exposed skin plates of unit looks so elegant and luxurious that they can be taken as the indoor decorations.
2. Compact design: A large number of non-metallic materials have been used, so that the body of the unit is quite light-weight and thin, which makes the unit looks sensuous.
3. Low noise: Dynamic principles have been adopted for the design of the fan blades so as to make sure the air volume is enough and running noise is considerably low.
4. Durable filter screen: The durable filter screen shares a cleaning cycle 20 times longer than that of the conventional filter screen, needless to clean it frequently.
5. Microcomputer control: The unit is able to automatically adjust the fan speed in accordance with the indoor ambient temperature to meet a wide range of users' requirements.
6. Small height of the unit, saving much installation space
7. Large cooling (heating) capacity, low noise, three-speed motor which can adjust the air volume and meet a wide range of users' requirements.
8. Excellent material, stringent process control, which guarantee the hi-quality and long life of the unit.
9. Die-formed drain pan, entirely bonded insulating material, carefree about the condensate water.

## 4. PRODUCT DATA

| Model                      |                        |                   | FP-8XD/A-E               | FP-10XD/A-E              | FP-12.5XD/A-E            | FP-14XD/A-E              |
|----------------------------|------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code                       |                        |                   | EM5200045010             | EM5200046010             | EM5200047010             | EM5200048010             |
| Air flow volume            | High                   | CFM               | 500                      | 600                      | 735                      | 841                      |
|                            |                        | m <sup>3</sup> /h | 850                      | 1020                     | 1250                     | 1430                     |
|                            | Medium                 | CFM               | 375                      | 464                      | 606                      | 802                      |
|                            |                        | m <sup>3</sup> /h | 637                      | 789                      | 1030                     | 1363                     |
|                            | Low                    | CFM               | 303                      | 362                      | 538                      | 705                      |
|                            |                        | m <sup>3</sup> /h | 515                      | 615                      | 915                      | 1200                     |
| Capacity                   | Cooling                | W                 | 4640                     | 5400                     | 6700                     | 7740                     |
|                            | Heating                | W                 | 7500                     | 9100                     | 10500                    | 11200                    |
| Power system               | Type                   | V-Ph-Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           |
|                            | Input                  | W                 | 100                      | 100                      | 150                      | 140                      |
| Exterior static pressure   |                        | Pa                | 0                        | 0                        | 0                        | 0                        |
| Water system               | Water flow volume      | m <sup>3</sup> /h | 0.829                    | 0.964                    | 1.196                    | 1.382                    |
|                            | Pressure drop          | kPa               | 15                       | 25                       | 25                       | 30                       |
| Coil                       | Type                   | -                 | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                            | Operating pressure     | MPa               | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                      | Type                   | -                 | FN35B                    | FN35B                    | FN35B                    | FN50T                    |
|                            | Capacitor              | μF                | 2.5                      | 3.5                      | 3.5                      | 2.5                      |
|                            | Power output           | W                 | 35                       | 35                       | 35                       | 50                       |
| Sound pressure level       |                        | dB(A)             | 46                       | 46                       | 47                       | 52                       |
| Connection pipe size       | Water inlet & outlet   | inch              | G3/4"                    | G3/4"                    | G3/4"                    | G3/4"                    |
|                            | Condensing water drain | mm                | 32                       | 32                       | 32                       | 32                       |
| Outline dimension (W×D×H)  | Body                   | mm                | 840×840×240              | 840×840×240              | 840×840×240              | 840×840×320              |
|                            | Panel                  | mm                | 960×960×60               | 960×960×60               | 960×960×60               | 960×960×60               |
| Package dimension (W×D×H)  | Body                   | mm                | 960×960×310              | 960×960×310              | 960×960×310              | 960×960×394              |
|                            | Panel                  | mm                | 1040×1025×115            | 1040×1025×115            | 1040×1025×115            | 1040×1025×115            |
| Net weight                 | Body                   | kg                | 27                       | 27                       | 27                       | 33                       |
|                            | Panel                  | kg                | 6.5                      | 6.5                      | 6.5                      | 6.5                      |
| Gross weight               | Body                   | kg                | 35                       | 35                       | 35                       | 42                       |
|                            | Panel                  | kg                | 10                       | 10                       | 10                       | 10                       |
| Loading quantity           |                        | 20'GP             | 84                       | 84                       | 84                       | 72                       |
|                            |                        | 40'GP             | 168                      | 168                      | 168                      | 120                      |
|                            |                        | 40'HQ             | 192                      | 192                      | 192                      | 144                      |
| Wired remote controller    |                        |                   | Z5K351/Z4E351B           | Z5K351/Z4E351B           | Z5K351/Z4E351B           | Z5K351/Z4E351B           |
| Wireless remote controller |                        |                   | YB1F2(X-FAN)             | YB1F2(X-FAN)             | YB1F2(X-FAN)             | YB1F2(X-FAN)             |

| Model                        |                        |                   | FP-16XD/A-E              | FP-18XD/A-E              |
|------------------------------|------------------------|-------------------|--------------------------|--------------------------|
| Code                         |                        |                   | EM5200049010             | EM5200050010             |
| Air flow volume              | High                   | CFM               | 965                      | 1060                     |
|                              |                        | m <sup>3</sup> /h | 1640                     | 1800                     |
|                              | Medium                 | CFM               | 853                      | 1035                     |
|                              |                        | m <sup>3</sup> /h | 1460                     | 1760                     |
|                              | Low                    | CFM               | 781                      | 932                      |
|                              |                        | m <sup>3</sup> /h | 1327                     | 1584                     |
| Capacity                     | Cooling                | W                 | 8700                     | 9600                     |
|                              | Heating                | W                 | 12900                    | 14600                    |
| Power system                 | Type                   | V-Ph-Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           |
|                              | Input                  | W                 | 150                      | 155                      |
| Exterior static pressure     |                        | Pa                | 0                        | 0                        |
| Water system                 | Water flow volume      | m <sup>3</sup> /h | 1.554                    | 1.714                    |
|                              | Pressure drop          | kPa               | 30                       | 30                       |
| Coil                         | Type                   | -                 | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                              | Operating pressure     | MPa               | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                        | Type                   | -                 | FN50T                    | FN50T                    |
|                              | Capacitor              | μF                | 4.5                      | 4.5                      |
|                              | Power output           | W                 | 50                       | 50                       |
| Sound pressure level         |                        | dB(A)             | 53                       | 54                       |
| Connection pipe size         | Water inlet & outlet   | inch              | G3/4"                    | G3/4"                    |
|                              | Condensing water drain | mm                | 32                       | 32                       |
| Outline dimension<br>(W×D×H) | Body                   | mm                | 840×840×320              | 840×840×320              |
|                              | Panel                  | mm                | 960×960×60               | 960×960×60               |
| Package dimension<br>(W×D×H) | Body                   | mm                | 960×960×394              | 960×960×394              |
|                              | Panel                  | mm                | 1040×1025×115            | 1040×1025×115            |
| Net weight                   | Body                   | kg                | 33                       | 33                       |
|                              | Panel                  | kg                | 6.5                      | 6.5                      |
| Gross weight                 | Body                   | kg                | 42                       | 42                       |
|                              | Panel                  | kg                | 10                       | 10                       |
| Loading quantity             |                        | 20'GP             | 72                       | 72                       |
|                              |                        | 40'GP             | 120                      | 120                      |
|                              |                        | 40'HQ             | 144                      | 144                      |
| Wired remote controller      |                        |                   | Z5K351/Z4E351B           | Z5K351/Z4E351B           |
| Wireless remote controller   |                        |                   | YB1F2(X-FAN)             | YB1F2(X-FAN)             |

| Model                       |                        |         | FP-8XD-E                 | FP-10XD-E                | FP-12.5XD-E              | FP-14XD-E                |
|-----------------------------|------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code                        |                        |         | EM52000051               | EM52000061               | EM52000031               | EM52000071               |
| Power system                | Type                   | V-Ph-Hz | 220-240V~ 50Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           |
|                             | Input                  | W       | 100                      | 100                      | 150                      | 140                      |
| Air flow volume             | High                   | CFM     | 500                      | 600                      | 735                      | 840                      |
|                             |                        | m³/h    | 850                      | 1020                     | 1250                     | 1430                     |
|                             | Medium                 | CFM     | 375                      | 464                      | 606                      | 802                      |
|                             |                        | m³/h    | 638                      | 789                      | 1030                     | 1363                     |
|                             | Low                    | CFM     | 303                      | 363                      | 538                      | 705                      |
|                             |                        | m³/h    | 515                      | 617                      | 914                      | 1198                     |
| Capacity                    | Cooling                | W       | 4640                     | 5400                     | 6700                     | 7740                     |
|                             | Heating                | W       | 7500                     | 9100                     | 10500                    | 11200                    |
| Electric heater rated power |                        | W       | 1400                     | 1400                     | 1400                     | 1400                     |
| Water system                | Water flow volume      | m³/h    | 0.81                     | 0.95                     | 1.18                     | 1.36                     |
|                             | Pressure drop          | kPa     | 15                       | 25                       | 25                       | 25                       |
| Sound pressure level        |                        | dB(A)   | 46                       | 46                       | 47                       | 52                       |
| Coil                        | Type                   | -       | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                             | Operating pressure     | MPa     | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                       | Type                   | -       | FN35B                    | FN35B                    | FN35B                    | FN50T                    |
|                             | Capacitor              | μF      | 2.5                      | 3.5                      | 3.5                      | 2.5                      |
| Connection pipe size        | Water inlet & outlet   | inch    | G3/4"                    | G3/4"                    | G3/4"                    | G3/4"                    |
|                             | Condensing water drain | mm      | 32                       | 32                       | 32                       | 32                       |
| Outline dimension (W×D×H)   | Body                   | mm      | 840×840×240              | 840×840×240              | 840×840×240              | 840×840×320              |
|                             | Panel                  | mm      | 960×960×60               | 960×960×60               | 960×960×60               | 960×960×60               |
| Package dimension (W×D×H)   | Body                   | mm      | 960×960×310              | 960×960×310              | 960×960×310              | 960×960×394              |
|                             | Panel                  | mm      | 1040×1025×115            | 1040×1025×115            | 1040×1025×115            | 1040×1025×115            |
| Net weight                  | Body                   | kg      | 30                       | 30                       | 30                       | 38                       |
|                             | Panel                  | kg      | 6.5                      | 6.5                      | 6.5                      | 6.5                      |
| Gross weight                | Body                   | kg      | 38                       | 38                       | 38                       | 46                       |
|                             | Panel                  | kg      | 10                       | 10                       | 10                       | 10                       |
| Loading quantity            |                        | 20'GP   | 61                       | 61                       | 51                       | 51                       |
|                             |                        | 40'GP   | 116                      | 116                      | 116                      | 93                       |
|                             |                        | 40'HQ   | 133                      | 133                      | 133                      | 112                      |
| Wired remote controller     |                        |         | Z5K351/Z4E351B           | Z5K351/Z4E351B           | Z5K351/Z4E351B           | Z5K351/Z4E351B           |
| Wireless remote controller  |                        |         | YB1F2(X-FAN)             | YB1F2(X-FAN)             | YB1F2(X-FAN)             | YB1F2(X-FAN)             |

| Model                        |                        |                   | FP-16XD-E                | FP-18XD-E                |
|------------------------------|------------------------|-------------------|--------------------------|--------------------------|
| Code                         |                        |                   | EM52000081               | EM52000041               |
| Power system                 | Type                   | V-Ph-Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           |
|                              | Input                  | W                 | 160                      | 155                      |
| Air flow volume              | High                   | CFM               | 965                      | 1059                     |
|                              |                        | m <sup>3</sup> /h | 1640                     | 1800                     |
|                              | Medium                 | CFM               | 853                      | 1035                     |
|                              |                        | m <sup>3</sup> /h | 1450                     | 1760                     |
|                              | Low                    | CFM               | 781                      | 932                      |
|                              |                        | m <sup>3</sup> /h | 1328                     | 1584                     |
| Capacity                     | Cooling                | W                 | 8700                     | 9600                     |
|                              | Heating                | W                 | 12900                    | 14600                    |
| Electric heater rated power  |                        | W                 | 1400                     | 1400                     |
| Water system                 | Water flow volume      | m <sup>3</sup> /h | 1.53                     | 1.68                     |
|                              | Pressure drop          | kPa               | 27                       | 29                       |
| Sound pressure level         |                        | dB(A)             | 53                       | 54                       |
| Coil                         | Type                   | -                 | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                              | Operating pressure     | MPa               | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                        | Type                   | -                 | FN50T                    | FN50T                    |
|                              | Capacitor              | μF                | 4.5                      | 4.5                      |
| Connection pipe size         | Water inlet & outlet   | inch              | G3/4"                    | G3/4"                    |
|                              | Condensing water drain | mm                | 32                       | 32                       |
| Outline dimension<br>(W×D×H) | Body                   | mm                | 840×840×320              | 840×840×320              |
|                              | Panel                  | mm                | 960×960×60               | 960×960×60               |
| Package dimension<br>(W×D×H) | Body                   | mm                | 960×960×394              | 960×960×394              |
|                              | Panel                  | mm                | 1040×1025×115            | 1040×1025×115            |
| Net weight                   | Body                   | kg                | 38                       | 38                       |
|                              | Panel                  | kg                | 6.5                      | 6.5                      |
| Gross weight                 | Body                   | kg                | 46                       | 46                       |
|                              | Panel                  | kg                | 10                       | 10                       |
| Loading quantity             |                        | 20'GP             | 51                       | 51                       |
|                              |                        | 40'GP             | 93                       | 93                       |
|                              |                        | 40'HQ             | 112                      | 112                      |
| Wired remote controller      |                        |                   | Z5K351/Z4E351B           | Z5K351/Z4E351B           |
| Wireless remote controller   |                        |                   | YB1F2(X-FAN)             | YB1F2(X-FAN)             |

| Model                       |                        |                   | FP-51XD-E                | FP-68XD-E                |
|-----------------------------|------------------------|-------------------|--------------------------|--------------------------|
| Code                        |                        |                   | EM52000011               | EM52000021               |
| Power system                | Type                   | V-Ph-Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           |
|                             | Input                  | W                 | 49                       | 56                       |
| Air flow volume             | High                   | CFM               | 300                      | 371                      |
|                             |                        | m <sup>3</sup> /h | 510                      | 680                      |
|                             | Medium                 | CFM               | 247                      | 318                      |
|                             |                        | m <sup>3</sup> /h | 420                      | 540                      |
|                             | Low                    | CFM               | 206                      | 265                      |
|                             |                        | m <sup>3</sup> /h | 350                      | 450                      |
| Capacity                    | Cooling                | W                 | 3000                     | 3500                     |
|                             | Heating                | W                 | 4000                     | 5000                     |
| Electric heater rated power |                        | W                 | -                        | -                        |
| Water system                | Water flow volume      | m <sup>3</sup> /h | 0.49                     | 0.616                    |
|                             | Pressure drop          | kPa               | 5                        | 9                        |
| Sound pressure level        |                        | dB(A)             | 43                       | 48                       |
| Coil                        | Type                   | -                 | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                             | Operating pressure     | MPa               | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                       | Type                   | -                 | FN11T                    | FN11T                    |
|                             | Capacitor              | μF                | 1                        | 2.5                      |
| Connection pipe size        | Water inlet & outlet   | inch              | G3/4"                    | G3/4"                    |
|                             | Condensing water drain | mm                | 25                       | 25                       |
| Outline dimension (W×D×H)   | Body                   | mm                | 600×600×230              | 600×600×230              |
|                             | Panel                  | mm                | 650×650×50               | 650×650×50               |
| Package dimension (W×D×H)   | Body                   | mm                | 848×678×310              | 848×678×310              |
|                             | Panel                  | mm                | 730×670×102              | 730×670×102              |
| Net weight                  | Body                   | kg                | 19.3                     | 19.3                     |
|                             | Panel                  | kg                | 5                        | 5                        |
| Gross weight                | Body                   | kg                | 27                       | 27                       |
|                             | Panel                  | kg                | 6                        | 6                        |
| Loading quantity            |                        | 20'GP             | 114                      | 114                      |
|                             |                        | 40'GP             | 216                      | 216                      |
|                             |                        | 40'HQ             | 256                      | 256                      |
| Wired remote controller     |                        |                   | Z5K351                   | Z5K351                   |
| Wireless remote controller  |                        |                   | YB1F2(X-FAN)             | YB1F2(X-FAN)             |

**Notes:**

1. The water working temperature is from 7°C(44.6°F) to 60°C(140°F).
2. The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:
  - (1) Cooling efficiency: air 27°C(80.6°F) DB, 19.5°C(67.1°F) WB, water temperature in 7°C(44.6°F), water out 12°C(53.6°F).
  - (2) Heating capacity: air 21°C(69.8°F) DB, Water temperature intake 60°C(140°F), the water-flow volume is same as Cooling capacity.

| Model                       |                           |         | FP-85XD/B-T              | FP-85XD/B-T              | FP-102XD/B-T             | FP-102XD/B-T             |
|-----------------------------|---------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code                        |                           |         | EM520N0940               | EM520N0930               | EM520N0920               | EM520N0910               |
| Power system                | Type                      | V-Ph-Hz | 208-230V~ 60Hz           | 220-240V~ 50Hz           | 208-230V~ 60Hz           | 220-240V~ 50Hz           |
|                             | Input                     | W       | 70                       | 75                       | 130                      | 110                      |
| Air flow volume             | High                      | CFM     | 459                      | 471                      | 600                      | 600                      |
|                             |                           | m³/h    | 780                      | 800                      | 1020                     | 1020                     |
|                             | Medium                    | CFM     | 371                      | 382                      | 599                      | 599                      |
|                             |                           | m³/h    | 630                      | 650                      | 950                      | 950                      |
|                             | Low                       | CFM     | 324                      | 324                      | 529                      | 529                      |
|                             |                           | m³/h    | 550                      | 550                      | 900                      | 900                      |
| Capacity                    | Cooling                   | W       | 4600                     | 4500                     | 5400                     | 5000                     |
|                             | Heating                   | W       | 7800                     | 5600                     | 9000                     | 6500                     |
| Electric heater rated power |                           | W       | -                        | -                        | -                        | -                        |
| Water system                | Cooling water flow volume | l/s     | 0.22                     | 0.21                     | 0.26                     | 0.24                     |
|                             | Heating water flow volume | l/s     | 0.22                     | 0.13                     | 0.26                     | 0.17                     |
|                             | Cooling pressure drop     | kPa     | 27                       | 24                       | 48                       | 36                       |
|                             | Heating pressure drop     | kPa     | 24                       | 8                        | 47                       | 13                       |
| Sound pressure level        |                           | dB(A)   | 39                       | 39                       | 49                       | 49                       |
| Coil                        | Type                      | -       | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                             | Operating pressure        | MPa     | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                       | Type                      | -       | FN35D-1                  | FN35D-1                  | FN35D-1                  | FN35D-1                  |
|                             | Capacitor                 | μF      | 2.00                     | 2.00                     | 5.00                     | 5.00                     |
| Connection pipe size        | Water inlet &outlet       | inch    | G3/4"                    | G3/4"                    | G3/4"                    | G3/4"                    |
|                             | Condensing water drain    | mm      | 25                       | 25                       | 25                       | 25                       |
| Outline dimension (W×D×H)   | Body                      | mm      | 840×840×190              | 840×840×190              | 840×840×190              | 840×840×190              |
|                             | Panel T01                 | mm      | 950×950×60               | 950×950×60               | 950×950×60               | 950×950×60               |
|                             | Panel TB03                | mm      | 950×950×85               | 950×950×85               | 950×950×85               | 950×950×85               |
| Package dimension (W×D×H)   | Body                      | mm      | 963×963×272              | 963×963×272              | 963×963×272              | 963×963×272              |
|                             | Panel T01                 | mm      | 1028×1043×130            | 1028×1043×130            | 1028×1043×130            | 1028×1043×130            |
|                             | Panel TB03                | mm      | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            |
| Net weight                  | Body                      | kg      | 25.0                     | 25.0                     | 25.0                     | 25.0                     |
|                             | Panel T01                 | kg      | 3.0                      | 3.0                      | 3.0                      | 3.0                      |
|                             | Panel TB03                | kg      | 7                        | 7                        | 7                        | 7                        |
| Gross weight                | Body                      | kg      | 33.0                     | 33.0                     | 33.0                     | 33.0                     |
|                             | Panel T01                 | kg      | 5.0                      | 5.0                      | 5.0                      | 5.0                      |
|                             | Panel TB03                | kg      | 11                       | 11                       | 11                       | 11                       |
| Loading quantity            | 20'GP(with panel T01)     |         | 57                       | 57                       | 57                       | 57                       |
|                             | 40'GP (with panel T01)    |         | 133                      | 133                      | 133                      | 133                      |
|                             | 40'HQ (with panel T01)    |         | 149                      | 149                      | 149                      | 149                      |
|                             | 20'GP (with panel TB03)   |         | 56                       | 56                       | 56                       | 56                       |
|                             | 40'GP (with panel TB03)   |         | 131                      | 131                      | 131                      | 131                      |
|                             | 40'HQ (with panel TB03)   |         | 147                      | 147                      | 147                      | 147                      |
| Wired remote controller     |                           |         | Z4E351B                  | Z4E351B                  | Z4E351B                  | Z4E351B                  |
| Wireless remote controller  |                           |         | YB1FA(X-FAN)             | YB1FA(X-FAN)             | YB1FA(X-FAN)             | YB1FA(X-FAN)             |



| Model                       |                           |         | FP-125XD/B-T             | FP-125XD/B-T             | FP-140XD/B-T             | FP-140XD/B-T             |
|-----------------------------|---------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code                        |                           |         | EM520N0900               | EM520N0890               | EM520N0880               | EM520N0870               |
| Power system                | Type                      | V-Ph-Hz | 208-230V~ 60Hz           | 220-240V~ 50Hz           | 208-230V~ 60Hz           | 220-240V~ 50Hz           |
|                             | Input                     | W       | 130                      | 82                       | 140                      | 120                      |
| Air flow volume             | High                      | CFM     | 665                      | 694                      | 794                      | 824                      |
|                             |                           | m³/h    | 1130                     | 1180                     | 1350                     | 1400                     |
|                             | Medium                    | CFM     | 529                      | 588                      | 647                      | 735                      |
|                             |                           | m³/h    | 900                      | 1000                     | 1100                     | 1250                     |
|                             | Low                       | CFM     | 441                      | 529                      | 588                      | 676                      |
|                             |                           | m³/h    | 750                      | 900                      | 1000                     | 1150                     |
| Capacity                    | Cooling                   | W       | 6300                     | 6000                     | 8000                     | 8000                     |
|                             | Heating                   | W       | 10000                    | 7800                     | 12000                    | 9000                     |
| Electric heater rated power |                           | W       | -                        | -                        | -                        | -                        |
| Water system                | Cooling water flow volume | l/s     | 0.3                      | 0.29                     | 0.38                     | 0.38                     |
|                             | Heating water flow volume | l/s     | 0.3                      | 0.18                     | 0.38                     | 0.21                     |
|                             | Cooling pressure drop     | kPa     | 27                       | 24                       | 33                       | 30                       |
|                             | Heating pressure drop     | kPa     | 28                       | 9                        | 29                       | 10                       |
| Sound pressure level        |                           | dB(A)   | 43                       | 43                       | 48                       | 50                       |
| Coil                        | Type                      | -       | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                             | Operating pressure        | MPa     | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                       | Type                      | -       | FN35B-1                  | FN35B-1                  | FN35C                    | FN35C                    |
|                             | Capacitor                 | μF      | 2.00                     | 2.00                     | 4.00                     | 4.00                     |
| Connection pipe size        | Water inlet &outlet       | inch    | G3/4"                    | G3/4"                    | G3/4"                    | G3/4"                    |
|                             | Condensing water drain    | mm      | 25                       | 25                       | 25                       | 25                       |
| Outline dimension (W×D×H)   | Body                      | mm      | 840×840×240              | 840×840×240              | 840×840×240              | 840×840×240              |
|                             | Panel T01                 | mm      | 950×950×60               | 950×950×60               | 950×950×60               | 950×950×60               |
|                             | Panel TB03                | mm      | 950×950×85               | 950×950×85               | 950×950×85               | 950×950×85               |
| Package dimension (W×D×H)   | Body                      | mm      | 963×963×325              | 963×963×325              | 963×963×325              | 963×963×325              |
|                             | Panel T01                 | mm      | 1028×1043×130            | 1028×1043×130            | 1028×1043×130            | 1028×1043×130            |
|                             | Panel TB03                | mm      | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            |
| Net weight                  | Body                      | kg      | 27.0                     | 27.0                     | 27.0                     | 27.0                     |
|                             | Panel T01                 | kg      | 3.0                      | 3.0                      | 3.0                      | 3.0                      |
|                             | Panel TB03                | kg      | 7                        | 7                        | 7                        | 7                        |
| Gross weight                | Body                      | kg      | 34.0                     | 34.0                     | 35.0                     | 35.0                     |
|                             | Panel T01                 | kg      | 5.0                      | 5.0                      | 5.0                      | 5.0                      |
|                             | Panel TB03                | kg      | 11                       | 11                       | 11                       | 11                       |
| Loading quantity            | 20'GP(with panel T01)     |         | 50                       | 50                       | 50                       | 50                       |
|                             | 40'GP (with panel T01)    |         | 121                      | 121                      | 121                      | 121                      |
|                             | 40'HQ (with panel T01)    |         | 134                      | 134                      | 134                      | 134                      |
|                             | 20'GP (with panel TB03)   |         | 50                       | 50                       | 50                       | 50                       |
|                             | 40'GP (with panel TB03)   |         | 117                      | 117                      | 117                      | 117                      |
|                             | 40'HQ (with panel TB03)   |         | 133                      | 133                      | 133                      | 133                      |
| Wired remote controller     |                           |         | Z4E351B                  | Z4E351B                  | Z4E351B                  | Z4E351B                  |
| Wireless remote controller  |                           |         | YB1FA(X-FAN)             | YB1FA(X-FAN)             | YB1FA(X-FAN)             | YB1FA(X-FAN)             |

| Model                       |                           |         | FP-160XD/B-T             | FP-160XD/B-T             | FP-180XD/B-T             | FP-180XD/B-T             |
|-----------------------------|---------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code                        |                           |         | EM520N0860               | EM520N0850               | EM520N0840               | EM520N0830               |
| Power system                | Type                      | V-Ph-Hz | 208-230V~ 60Hz           | 220-240V~ 50Hz           | 208-230V~ 60Hz           | 220-240V~ 50Hz           |
|                             | Input                     | W       | 140                      | 125                      | 160                      | 160                      |
| Air flow volume             | High                      | CFM     | 912                      | 912                      | 1059                     | 1059                     |
|                             |                           | m³/h    | 1550                     | 1550                     | 1800                     | 1800                     |
|                             | Medium                    | CFM     | 765                      | 824                      | 824                      | 853                      |
|                             |                           | m³/h    | 1300                     | 1400                     | 1400                     | 1450                     |
|                             | Low                       | CFM     | 676                      | 765                      | 765                      | 794                      |
|                             |                           | m³/h    | 1150                     | 1300                     | 1300                     | 1350                     |
| Capacity                    | Cooling                   | W       | 9000                     | 8700                     | 10000                    | 9500                     |
|                             | Heating                   | W       | 14000                    | 10000                    | 16000                    | 11000                    |
| Electric heater rated power |                           | W       | -                        | -                        | -                        | -                        |
| Water system                | Cooling water flow volume | l/s     | 0.43                     | 0.42                     | 0.48                     | 0.45                     |
|                             | Heating water flow volume | l/s     | 0.43                     | 0.23                     | 0.48                     | 0.27                     |
|                             | Cooling pressure drop     | kPa     | 34                       | 30                       | 42                       | 34                       |
|                             | Heating pressure drop     | kPa     | 34                       | 11                       | 43                       | 12                       |
| Sound pressure level        |                           | dB(A)   | 51                       | 51                       | 50                       | 50                       |
| Coil                        | Type                      | -       | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                             | Operating pressure        | MPa     | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                       | Type                      | -       | FN35C                    | FN35C                    | FN50K-1                  | FN50K-1                  |
|                             | Capacitor                 | μF      | 5.00                     | 5.00                     | 3.50                     | 3.50                     |
| Connection pipe size        | Water inlet &outlet       | inch    | G3/4"                    | G3/4"                    | G3/4"                    | G3/4"                    |
|                             | Condensing water drain    | mm      | 25                       | 25                       | 25                       | 25                       |
| Outline dimension (W×D×H)   | Body                      | mm      | 840×840×240              | 840×840×240              | 840×840×320              | 840×840×320              |
|                             | Panel T01                 | mm      | 950×950×60               | 950×950×60               | 950×950×60               | 950×950×60               |
|                             | Panel TB03                | mm      | 950×950×85               | 950×950×85               | 950×950×85               | 950×950×85               |
| Package dimension (W×D×H)   | Body                      | mm      | 963×963×325              | 963×963×325              | 963×963×409              | 963×963×409              |
|                             | Panel T01                 | mm      | 1028×1043×130            | 1028×1043×130            | 1028×1043×130            | 1028×1043×130            |
|                             | Panel TB03                | mm      | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            |
| Net weight                  | Body                      | kg      | 27.0                     | 27.0                     | 32.0                     | 32.0                     |
|                             | Panel T01                 | kg      | 3.0                      | 3.0                      | 3.0                      | 3.0                      |
|                             | Panel TB03                | kg      | 7                        | 7                        | 7                        | 7                        |
| Gross weight                | Body                      | kg      | 35.0                     | 35.0                     | 41.0                     | 41.0                     |
|                             | Panel T01                 | kg      | 5.0                      | 5.0                      | 5.0                      | 5.0                      |
|                             | Panel TB03                | kg      | 11                       | 11                       | 11                       | 11                       |
| Loading quantity            | 20'GP(with panel T01)     |         | 50                       | 50                       | 42                       | 42                       |
|                             | 40'GP (with panel T01)    |         | 121                      | 121                      | 98                       | 98                       |
|                             | 40'HQ (with panel T01)    |         | 134                      | 134                      | 112                      | 112                      |
|                             | 20'GP (with panel TB03)   |         | 50                       | 50                       | 42                       | 42                       |
|                             | 40'GP (with panel TB03)   |         | 117                      | 117                      | 98                       | 98                       |
|                             | 40'HQ (with panel TB03)   |         | 133                      | 133                      | 112                      | 112                      |
| Wired remote controller     |                           |         | Z4E351B                  | Z4E351B                  | Z4E351B                  | Z4E351B                  |
| Wireless remote controller  |                           |         | YB1FA(X-FAN)             | YB1FA(X-FAN)             | YB1FA(X-FAN)             | YB1FA(X-FAN)             |

|                             |                           |         |                          |                          |
|-----------------------------|---------------------------|---------|--------------------------|--------------------------|
| Model                       |                           |         | FP-200XD/B-T             | FP-200XD/B-T             |
| Code                        |                           |         | EM520N0820               | EM520N0810               |
| Power system                | Type                      | V-Ph-Hz | 208-230V~ 60Hz           | 220-240V~ 50Hz           |
|                             | Input                     | W       | 230                      | 210                      |
| Air flow volume             | High                      | CFM     | 1176                     | 1176                     |
|                             |                           | m³/h    | 2000                     | 2000                     |
|                             | Medium                    | CFM     | 912                      | 1000                     |
|                             |                           | m³/h    | 1550                     | 1700                     |
|                             | Low                       | CFM     | 735                      | 853                      |
|                             |                           | m³/h    | 1250                     | 1450                     |
| Capacity                    | Cooling                   | W       | 13000                    | 13000                    |
|                             | Heating                   | W       | 19000                    | 14600                    |
| Electric heater rated power |                           | W       | -                        | -                        |
| Water system                | Cooling water flow volume | l/s     | 0.62                     | 0.62                     |
|                             | Heating water flow volume | l/s     | 0.62                     | 0.25                     |
|                             | Cooling pressure drop     | kPa     | 35                       | 34                       |
|                             | Heating pressure drop     | kPa     | 35                       | 30                       |
| Sound pressure level        |                           | dB(A)   | 55                       | 55                       |
| Coil                        | Type                      | -       | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                             | Operating pressure        | MPa     | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                       | Type                      | -       | FN50K-2                  | FN50K-2                  |
|                             | Capacitor                 | μF      | 5.00                     | 5.00                     |
| Connection pipe size        | Water inlet &outlet       | inch    | G3/4"                    | G3/4"                    |
|                             | Condensing water drain    | mm      | 25                       | 25                       |
| Outline dimension (W×D×H)   | Body                      | mm      | 840×840×320              | 840×840×320              |
|                             | Panel T01                 | mm      | 950×950×60               | 950×950×60               |
|                             | Panel TB03                | mm      | 950×950×85               | 950×950×85               |
| Package dimension (W×D×H)   | Body                      | mm      | 963×963×409              | 963×963×409              |
|                             | Panel T01                 | mm      | 1028×1043×130            | 1028×1043×130            |
|                             | Panel TB03                | mm      | 1033×1038×133            | 1033×1038×133            |
| Net weight                  | Body                      | kg      | 33.0                     | 33.0                     |
|                             | Panel T01                 | kg      | 3.0                      | 3.0                      |
|                             | Panel TB03                | kg      | 7                        | 7                        |
| Gross weight                | Body                      | kg      | 42.0                     | 42.0                     |
|                             | Panel T01                 | kg      | 5.0                      | 5.0                      |
|                             | Panel TB03                | kg      | 11                       | 11                       |
| Loading quantity            | 20'GP(with panel T01)     |         | 42                       | 42                       |
|                             | 40'GP (with panel T01)    |         | 98                       | 98                       |
|                             | 40'HQ (with panel T01)    |         | 112                      | 112                      |
|                             | 20'GP (with panel TB03)   |         | 42                       | 42                       |
|                             | 40'GP (with panel TB03)   |         | 98                       | 98                       |
|                             | 40'HQ (with panel TB03)   |         | 112                      | 112                      |
| Wired remote controller     |                           |         | Z4E351B                  | Z4E351B                  |
| Wireless remote controller  |                           |         | YB1FA(X-FAN)             | YB1FA(X-FAN)             |

| Model                       |                           |         | FP-68XDT/B-K             | FP-85XDT/B-K             | FP-125XDT/B-K            | FP-180XDT/B-K            |
|-----------------------------|---------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code                        |                           |         | EM520N0990               | EM520N0960               | EM520N0970               | EM520N0980               |
| Power system                | Type                      | V-Ph-Hz | 220-240V~ 50Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           | 220-240V~ 50Hz           |
|                             | Input                     | W       | 82                       | 82                       | 135                      | 191                      |
| Air flow volume             | High                      | CFM     | 400                      | 500                      | 736                      | 1059                     |
|                             |                           | m³/h    | 680                      | 850                      | 1250                     | 1800                     |
|                             | Medium                    | CFM     | 364                      | 450                      | 652                      | 897                      |
|                             |                           | m³/h    | 618                      | 764                      | 1108                     | 1525                     |
|                             | Low                       | CFM     | 336                      | 410                      | 597                      | 836                      |
|                             |                           | m³/h    | 571                      | 697                      | 1014                     | 1421                     |
| Capacity                    | Cooling                   | W       | 3500                     | 4100                     | 6000                     | 8000                     |
|                             | Heating                   | W       | 6000                     | 6800                     | 9500                     | 13000                    |
| Electric heater rated power |                           | W       | -                        | -                        | -                        | -                        |
| Water system                | Cooling water flow volume | l/s     | 0.21                     | 0.24                     | 0.29                     | 0.44                     |
|                             | Heating water flow volume | l/s     | 0.17                     | 0.19                     | 0.27                     | 0.36                     |
|                             | Cooling pressure drop     | kPa     | 34.14                    | 56.71                    | 43.07                    | 39.65                    |
|                             | Heating pressure drop     | kPa     | 76.44                    | 86.08                    | 91.94                    | 102.21                   |
| Sound pressure level        |                           | dB(A)   | 39                       | 40                       | 43                       | 50                       |
| Coil                        | Type                      | -       | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
|                             | Operating pressure        | MPa     | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  | ≤1.6MPa                  |
| Motor                       | Type                      | -       | FN35D-1                  | FN35D-1                  | FN35B-1                  | FN50K-1                  |
|                             | Capacitor                 | μF      | 2.0                      | 3.0                      | 4.0                      | 4.5                      |
| Connection pipe size        | Water inlet & outlet      | inch    | G3/4"                    | G3/4"                    | G3/4"                    | G3/4"                    |
|                             | Condensing water drain    | mm      | 25                       | 25                       | 25                       | 25                       |
| Outline dimension (W×D×H)   | Body                      | mm      | 840×840×190              | 840×840×190              | 840×840×240              | 840×840×320              |
|                             | Panel TB03                | mm      | 950×950×85               | 950×950×85               | 950×950×85               | 950×950×85               |
| Package dimension (W×D×H)   | Body                      | mm      | 960×960×257              | 960×960×257              | 960×960×310              | 960×960×394              |
|                             | Panel TB03                | mm      | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            | 1033×1038×133            |
| Net weight                  | Body                      | kg      | 25.0                     | 25.0                     | 27.0                     | 32.0                     |
|                             | Panel TB03                | kg      | 7                        | 7                        | 7                        | 7                        |
| Gross weight                | Body                      | kg      | 33.0                     | 33.0                     | 34.0                     | 41.0                     |
|                             | Panel TB03                | kg      | 11                       | 11                       | 11                       | 11                       |
| Loading quantity            | 20'GP (with panel TB03)   |         | 56                       | 56                       | 50                       | 42                       |
|                             | 40'GP (with panel TB03)   |         | 131                      | 131                      | 121                      | 98                       |
|                             | 40'HQ (with panel TB03)   |         | 147                      | 147                      | 134                      | 112                      |

Testing condition:

For 60Hz :

The FCU designed for installation indoor. The environmental temperature is from 5°C to 43°C, water working temperature is from 7°C to 60°C.

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

1). Cooling capacity: air 27°C DB, 19.5°C WB, water temperature: intake 7°C, outlet 12°C.

2). Heating capacity: air 21°C DB, Water temperature intake 60°C, the water-flow volume is same as Cooling capacity .

3). Freeze-up : air 27°C DB, 24°C WB, water temperature intake 6°C, outlet 9°C.

4). Sound power level according to ISO 5151. Sound pressure level are calculated at the below of air-outlet 1m and 1m distance. The noise are tested before leaving factory.

For 50 Hz :

The FCU designed for installation indoor. The environmental temperature is from 5°C to 43°C, water working temperature is from 7°C to 60°C.

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

1). Cooling capacity: air 27°C DB , 19°C WB, water temperature intake 7°C, outlet 12°C.

2). Heating capacity: air 20°C DB , Water temperature intake 50°C, outlet 40°C.

3). Freeze-up : air 27°C DB, 24°C WB , water temperature 6°C intake , 10°C outlet .

4). Sound power level according to ISO 5151. Sound pressure level are calculated at the below of air-outlet 1m and 1m distance. The noise are tested before leaving factory.

For 4 pipes:

The FCU designed for installation indoor. The environmental temperature is from 5°C to 43°C, water working temperature is from 7°C to 70°C.

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

1). Cooling capacity: air 27°C DB , 19°C WB, water temperature intake 7°C, outlet 12°C.

2). Heating capacity: air 20°C DB , Water temperature intake 70°C, outlet 60°C.

3). Freeze-up : air 27°C DB, 24°C WB , water temperature 6°C intake , 10°C outlet .

4). Sound power level according to ISO 5151. Sound pressure level are calculated at the below of air-outlet 1m and 1m distance. The noise are tested before leaving factory.



# CONTROL

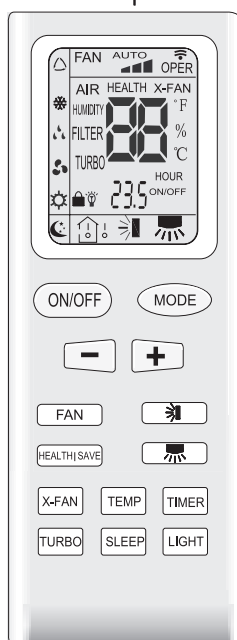
## CONTROL

### 1. WIRELESS REMOTE CONTROLLER

#### 1.1 YB1F2(X-FAN)

Note: Be sure that there are no obstructions between receiver and remote control; Don't drop or throw the remote control; Don't let any liquid in the remote control and put the remote control directly under the sunlight or any place where is very hot.

Signal transmitter



Remote control

ON/OFF

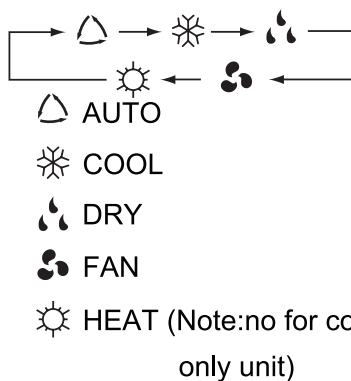
ON/OFF button

- Press this button, the unit will be started or stopped, which can clear the timer or sleeping function of last time.

MODE

Mode button

- Press this button, the running mode will change as below.



(+/-)

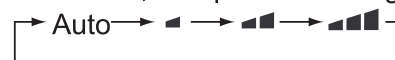
TEMP. (+/-) button

- When press +button, the setting temp. will be increased by 1°C, When press -button, the setting temp. will be decreased by 1 °C. The temp. will be changed quickly by pressing the button continuously and setting temp. range is 16~30°C.

FAN

FAN speed button

- Press this button once, fan speed will change as below:



Low speed Middle speed

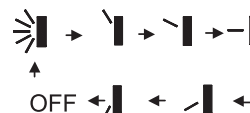
High speed

Note: Under the Dry mode, the fan speed isn't adjustable, low fan speed is imperative, but when operating this button, the wireless remote control will send this signal.



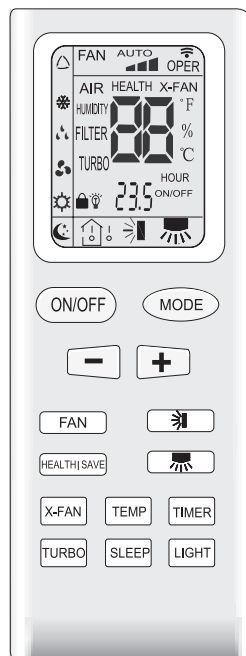
Swing up and down button

- Simplicity swing mode is defaulted for wireless remote control, in this mode, press this button, could turn on or turn off the Up and down swing function.
- When unit is turned off, synchronously press "+" and Up and down swing buttons, it could be switched between the simplicity swing mode and stationary swing mode, at this time, the button blinks 2 seconds.
- In Stationary swing mode, press this button, the angle for Up and down swing as show in below:



- When up and down swing louver is working, when turn off the unit, the swing louver will immediately stop at current position. The icon shows up and down swing louver swings back and forth as show in the above figure.

NOTE: This Remote control is universal, it could be used formany units, some buttons of this control which are not available to this unit will not be described below.



Remote control

HEALTH | SAVE

#### HEALTH | SAVE button

- HEALTH function: there is no this function for this unit. If press this key, the main unit will click, but it also runs under original status.
- Save energy function: this unit has no this function, press this button, the main unit will click, "SE" will be displayed on the LCD of wireless remote control, fan speed automatically rotates, when repress this button, the fan speed will run at previous setting fan speed.

TURBO

#### Turbo button

- Set turbo on or off (the characters of turbo will appear or disappear) by pressing this key under cooling or heating mode. Once energized, the unit will be defaulted to be turbo off. This function can not be set under auto, dehumidify or fan mode, and characters of turbo won't appear.

TIMER

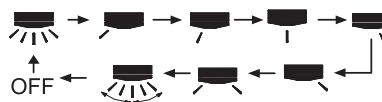
#### Timer button

- On the status of the unit on, press this button to set timer off. On the status of the unit off, press this button to set timer off. Press this key once, words Hour on(off) will appear and flicker. In which case, press +/- button to adjust time (press +/- button continuously to change timing value quickly), the setting time range is from 0.5 to 24 hr.; press this key once again to fix the time, then remote controller will send out the signal immediately and hour on/off will stop flickering. If the time of that no press timer button under flickering status is above 5s, the timer setting will quit. If the timer has been set, press this button once again to quit it.



#### Left and right swing button

- Simplicity swing mode is defaulted for wireless remote control, in this mode, press this button, could turn on or turn off the Left and right swing function
- When unit is turned off, synchronously press "+" and Left and right swing buttons, it could be switched between the simplicity swing mode and stationary swing mode, at this time, the fan icon blinks 2 seconds.
- In Stationary swing mode, press this button, the angle for Left and right swing as shown in below:

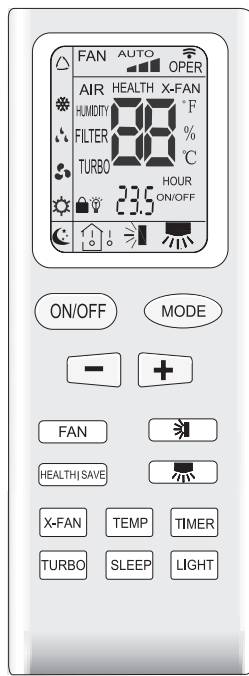


- When left and right swing louver is working, when turn off the unit, the swing louver will immediately stop at current position. The fan icon shows left and right swing louver swings back and forth as shown in the above figure.



NOTE: This remote control is universal, it could be used formany units, some buttons of this control which are not available to this unit will not be described below.

Remote control



SLEEP

Sleep button

- Press this button, enter into SLEEP state, when repressed, it will quit. The sleep function will be canceled with the stop of the unit. There is no SLEEP function under AUTO and FAN mode.  is the icon for sleep function.
- At COOL, X-FAN mode: the SLEEP mode runs after 1hour, the setting temp. will be increased by 1°C, 2 hour later, setting temp. will be increased by 2°C and then will run at this setting temperature.
- At HEAT mode: the SLEEP mode runs after 1hour, the setting temp will be decreased by 1°C, 2 hours later setting temp. will be decreased by 2°C, then it will run at setting temperature.

X-FAN

X-FAN button

- Pressing X-FAN button in COOL or DRY mode, the icon "X-FAN" is displayed and the indoor fan will continue operation for 10 minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN and HEAT mode.

Note: X-FAN is the alternative expression of BLOW for the purpose of understanding.

LIGHT

Light button

- Press this button to select LIGHT on or off in the displayer. When the LIGHT on is set, the icon  will be displayed and the indicator light in the displayer will be on. When the LIGHT off is set, the icon  will be displayed and the indicator light in the displayer will be off.

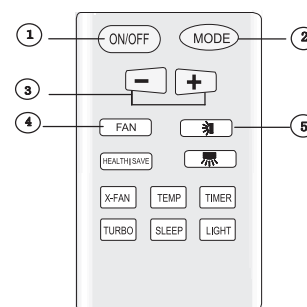
TEMP

Temp. display button

- After powered on, displaying presetting temperature is defaulted, (According to customer requirements to display, if there are no requirements, the presetting temperature displaying is defaulted, there is no signal display on the remote control). Press this button, (display ) , display the presetting temperature; (display ) , display indoor ambient temperature,  will not change current display status. If current display status is indoor ambient temp. when received other remote control signal, then will display presetting temp., 5s later return to ambient temp. display. Other models haven't this function. But pressing this button, the main unit will click and keep the original status.

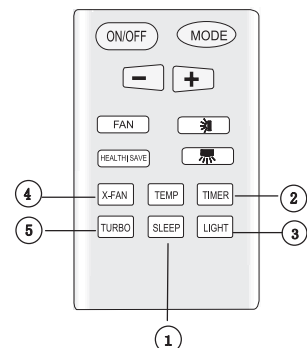
### 1.1.1 Guide for operation-general operation

- ① . Press ON/OFF button to start the unit after powering the main unit on. (Note: Power the unit on every time, the big-guide louver and small-guide louver will be closed firstly.)
- ② . Press MODE button to select desired running mode.
- ③ . Press +/- button to set the desired temperature. (It is unnecessary to set the temperature at AUTO mode)
- ④ . Press FAN button to set fan speed, the AUTO FAN, LOW, MID or HIGH could be selected.
- ⑤ . Press  and  button to set swing mode.



### 1.1.2 Guide for operation-optional operation

- ① . Press SLEEP button, set the sleep mode.
- ② . Press TIMER button, then press +/- button, to set the scheduled timer on or timer off.
- ③ . Press light button to control displayer light on or off.
- ④ . Press X-FAN button to set X-FAN function on or off.
- ⑤ . Press turbo button to set this function on or off.



### 1.1.3 Introduction for special function

#### ● About X-FAN function

This function indicates that moisture on evaporator of indoor unit will be blown after the unit About X-FAN function is stopped to avoid mould.

Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for about 10 min. at low speed. In this period, press X-FAN button to stop indoor fan directly.

2. Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

#### ● About AUTO RUN

When AUTO RUN mode is selected, the setting temperature will not be displayed on the LCD, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

#### ● About turbo function

If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temp. approaches the preset temp. as soon as possible.

#### ● About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controller is locked, the icon  will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

#### ● About switch between Fahrenheit and Centigrade

Under status of unit off, press MODE and - buttons simultaneously to switch °C and °F.

#### ● About new function of defrosting

It indicates: after starting this function by remote controller and the unit has been under defrost status, If turn off the unit by remote controller, the unit will not stop defrosting until it is finished; if change setting mode by remote controller, the function, which is set last time, won't be carried out until defrosting finished.

Operation of this function on or off: If remote controller is under off status, press mode button and X-FAN button simultaneously in order to enter or cancel this new function. If the unit is under defrost mode, dual eight position on remote controller will display H1. If switch to heat mode, the position will display H1, which flickers for 5s, in which case, press +/- button, H1 will disappear and setting temp. be displayed.

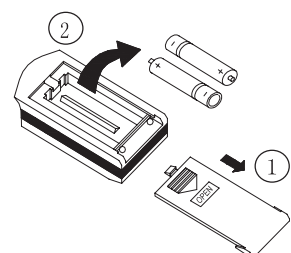
After remote controller is powered on, the new defrost function will be defaulted to be closed.

### 3.4 Changing batteries and notices

① . Slightly to press the place with  along the arrowhead direction to push the back cover of remote control. (As shown in Fig. ① )

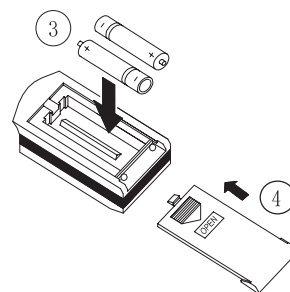
② . Take out the old batteries, insert two AAA alkaline cells. (AS shown in Fig ② ③ ).

③ . Attach the back cover of remote control. (Fig ④ )



NOTE:

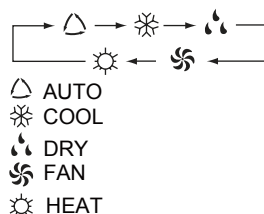
- ◆ When changing the batteries, do not use the old or different batteries, otherwise, it can cause the malfunction of the wireless remote control.
- ◆ If the wireless remote control will not be used for a long time, please take them out, and don't let the leakage liquid damage the wireless remote control.
- ◆ The operation should be in its receiving range.
- ◆ It should be placed where is 1m away from the TV set or stereo sound sets.
- ◆ If the remote control cannot operate normally, please take the batteries out, and then reinsert it 30s later; if it is also abnormal, please replace the batteries.
- ◆ If the main unit needs to be remote controlled, please aim remote control at the receiver of main unit in order to improve the receiving sensitivity of the main unit. When the remote control sends out signal, a mark will flicker for about 1s. The bell will ring if the main unit receives effective signal.
- ◆ When the remote control sends out signal, a mark  will flicker for about 1s. The bell will ring if the main unit receives effective signal.



## 1.2 YB1FA(X-FAN)

Note:

- ◆ Be sure that there are no obstructions between receiver and remote control; Don't drop or throw the remote control; Don't let any liquid drop into the remote control or leave the remote control under the sunlight or place where is very hot.
- ◆ This is a general remote control, it could be used for multiple types (functions) of air conditioners. For some models without the functions specified here, we preserve the right to not to inform exclusively.



- ON/OFF button

Press ON/OFF button to turn on/off the unit. When the unit is turned off, the Timer, Sleep function will not be retained in memory, but the time will be retained and is still displaying.

- MODE button

Press this button, Auto, Cool, Dry, Fan Heat mode can be selected circularly.

Auto mode is not available in this mode.

- SLEEP button

Press this button to select Sleep On/Sleep Off. If power is on, Sleep Off is default. If the unit is turned off, the Sleep function setting will be not retained in memory. If Sleep function is on, the mark of Sleep will display. In this mode, the time of timer can be adjusted. Under Fan and Auto modes, this function is not available.

- FAN button

Press this button, Auto, Low, Medium, High-speed can be circularly selected. After powered on, Auto fan speed is default. Under Dehumidify mode, Low fan speed is default.



- CLOCK button

- LIGHT button

- X-FAN button

The function is not available for this mode.

- - button

- + button

- TEMP button

- TURBO button

Note: This is a general remote control, it could be used for multiple types (functions) of air conditioners. some models without the functions specified here, we preserve the right to not to inform exclusively.

- SWING UP AND DOWN button

- TIMER ON button



TIMER ON again to cancel the setting.

TIMER OFF button

Press the TIMER OFF button to set the timed off. The procedures are similar as above.

### 1.2.1 Operation of wireless remote control

#### 1). Guide for operation – General operation

a. Press SLEEP button to set the sleep state.

b. Press TIME ON and TIME OFF button to scheduled the unit ON/OFF.

c. Press LIGHT button to control on and off the indicator board.(This function maybe not available for some units.)



#### 2). Guide for operation-Optional operation

a. After powered on, press ON/OFF button, the unit will start to run.

(Note: When it is powered off , the guide louver of main unit will close automatically.)

b. Press MODE button, select desired running mode ,or press COOL or HEAT mode to enter the corresponding operation directly.

c. Press + or - button to set the desired temperature.

d. Press FAN button to set fan speed from AUTOFAN , LOW , MID and HIGH.

e. Press SWING button to select SWING mode.

f. Press + and - buttons simultaneously to lock or unlock the wireless remote control. If it is locked, the mark will display; when pressing any button, the mark will blink for three times but the air conditioner has no response. If unlocked, the mark will disappear.

g. Switch between Fahrenheit and Centigrade.

When unit is under Off state, press MODE and – button simultaneously to switch between °C and °F.

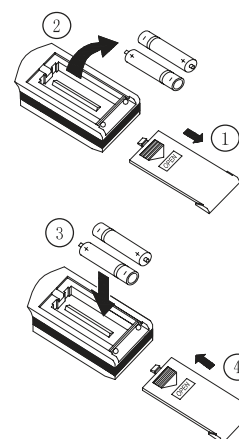
### 1.2.2 Changing batteries and notices.

Slightly to press the place with  , along the arrowhead direction to push the back cover of wireless remote control. (As show in figure)

Take out the old batteries. (As show in figure.)

Insert two new AAA1.5V dry batteries, and pay attention to the polarity. (As show in figure)

Attach the back cover of wireless remote control. (As show in figure)



Sketch map for  
changing batteries

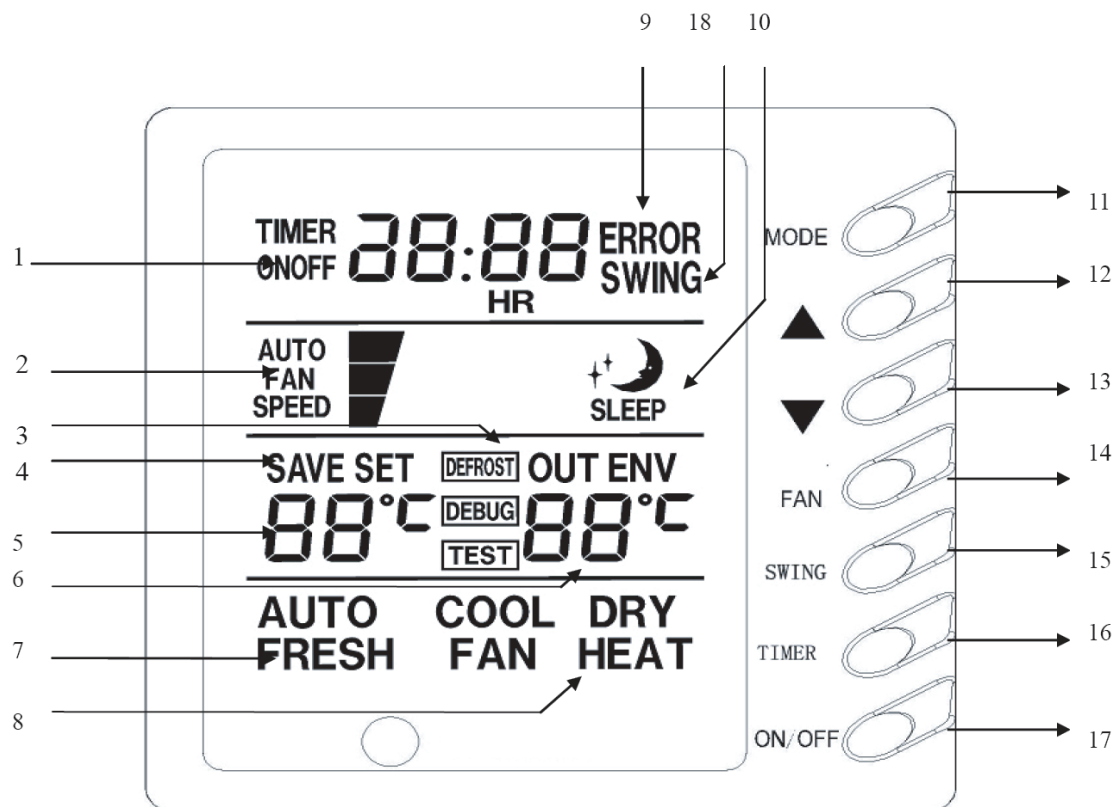
#### NOTE:

- ◆ The design of this unit conforms to the requirements of ISO5151 standard.
- ◆ The air volume is measured at the 0Pa external static pressure.
- ◆ Cooling (heating) capacity stated above is measured under nominal working conditions corresponding to 0Pa external static pressure. The parameters are subject to change with the improvement of products, in which case the values on the nameplate will prevail.

## 2. WIRED REMOTE CONTROLLER

### 2.1 Introduction to Z5K351(optional)

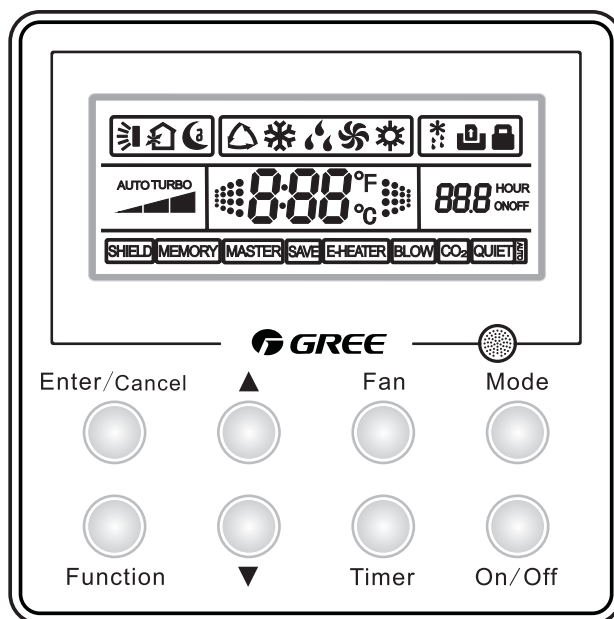
**NOTE:** Never install the wired remote controller in a place where there is water leakage.  
Avoid bumping, throwing, tossing or frequently opening the wired remote controller.



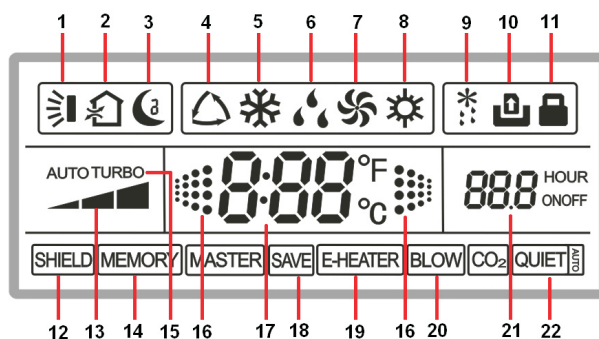
|   |                                            |    |                           |
|---|--------------------------------------------|----|---------------------------|
| 1 | Time display                               | 10 | Sleep display             |
| 2 | Fan speed display(Auto, High, Middle, Low) | 11 | MODE button               |
| 3 | Defrosting display                         | 12 | Button for temp. increase |
| 4 | Saving state display                       | 13 | Button for temp. decrease |
| 5 | Set temp. display                          | 14 | FAN button                |
| 6 | Ambient temp. display                      | 15 | SWING button              |
| 7 | Fresh air display                          | 16 | TIMER button              |
| 8 | Mode(COOL, DRY, FAN, AUTO)                 | 17 | ON/OFF button             |
| 9 | Malfunction display                        | 18 | Display of Swing state    |



## 2.2 Introduction to Z4E351B (optional)



### 2.2.1 Symbols on the LCD

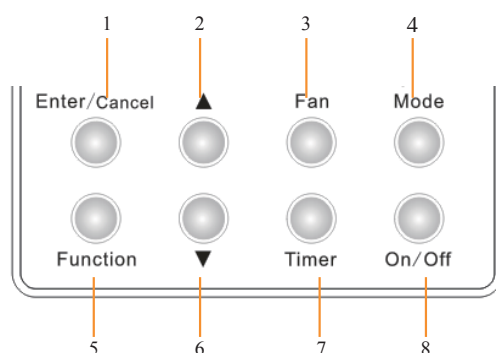


#### Introduction to the Symbols on the LCD.

| No. | Symbol | Function Description                                                                                                                                                                |
|-----|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   |        | It indicates the swing function.                                                                                                                                                    |
| 2   |        | It indicates the function of air exchange. (It is unavailable for this wired controller.)                                                                                           |
| 3   |        | It indicates the sleeping status.                                                                                                                                                   |
| 4   |        | It indicates each running mode of the indoor unit (AUTO mode). (It is unavailable for this wired controller. )                                                                      |
| 5   |        | It indicates the " <b>Cool</b> " mode.                                                                                                                                              |
| 6   |        | It indicates the " <b>Dry</b> " mode.                                                                                                                                               |
| 7   |        | It indicates the " <b>Fan</b> " mode.                                                                                                                                               |
| 8   |        | It indicates the " <b>Heat</b> " mode.                                                                                                                                              |
| 9   |        | It indicates the defrosting mode. (It is unavailable for this wired controller.)                                                                                                    |
| 10  |        | It indicates the gate control status.                                                                                                                                               |
| 11  |        | It indicates the locking status.                                                                                                                                                    |
| 12  |        | It indicates the shield status. (It appears when all functions, or the function "On/Off ", "Temp ", " Mode ", or " Save " is shielded through the Long-distance monitoring System.) |
| 13  |        | It indicates the current fan speed.                                                                                                                                                 |

|                                                                                                                     |       |                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|
| 14                                                                                                                  |       | It indicates the memory function is activated, that is, the unit will back to the previous set status after powered on again. |
| 15                                                                                                                  | TURBO | It indicates the turbo status.                                                                                                |
| 16                                                                                                                  |       | It flashes animatedly when the unit is started and the ambient temperature is displayed.                                      |
| 17                                                                                                                  |       | It indicates the ambient temperature/set temperature.                                                                         |
| 18                                                                                                                  |       | It indicates the energy saving status.                                                                                        |
| 19                                                                                                                  |       | It indicates that the auxiliary electric heater can be activated.                                                             |
| 20                                                                                                                  |       | It indicates the blow function is activated.                                                                                  |
| 21                                                                                                                  |       | It indicates the timer status.                                                                                                |
| 22                                                                                                                  |       | It indicates the quiet operation status. (including two statuses, “ Quiet ” and “ Auto Quiet ”. )                             |
| <b>Note:</b> Symbols “ MASTER ” and “ CO <sub>2</sub> ” will not displayed on the LCD of the wired controlled XK26. |       |                                                                                                                               |

## 2.2.2 Introduction to the Functions of the Press Keys



### Introduction to the Functions of the Press Keys.

| No.   | Press Bottoms                                                        | Function Description                                                                                                                                                                                                                                                                                                       |
|-------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Enter/Cancel                                                         | It is used to select the desired function or cancel the selected function.                                                                                                                                                                                                                                                 |
| 2     | ▲                                                                    | (1) It is used to adjust the running temperature of the indoor unit among 16~30℃ .<br>(2) It is used to adjust the temperature under the energy saving condition among 16~30℃ .<br>(3) It is used to adjust the timer among 0.5~24 hours.<br>(4) It is used to switch between the modes of “ Quiet ” and “ Auto Quiet ”.   |
| 6     | ▼                                                                    |                                                                                                                                                                                                                                                                                                                            |
| 3     | Fan                                                                  | There are four fan speed options, High, Medium, Low and Auto.                                                                                                                                                                                                                                                              |
| 4     | Mode                                                                 | (1) It is used to set the mode of “ Cool ”, “ Dry ”, “ Fan ”, and “ Heat ”.<br>(2) When the “ Save ” function is being set, it is used to switch between the mode options of “ Heat ” and “ Cool ”.<br>(3) When the “ Timer ” is being set, it is used to switch between the options of “ Unit On ” and “ Unit Off ”.      |
| 5     | Function                                                             | It is used to switch the functions of “ Swing ”, “ Sleep ”, “ Turbo ”, “ Save ”, “ E-Heater ”, “ Blow ”, “ Quiet ”, etc.                                                                                                                                                                                                   |
| 7     | Timer                                                                | It is used to set the timer.                                                                                                                                                                                                                                                                                               |
| 8     | On/Off                                                               | It is used to start/stop the indoor unit.                                                                                                                                                                                                                                                                                  |
| 4 + 2 | Mode + ▲<br>(MEMORY)                                                 | Under the “ Off ” status of the unit, press “ Mode ” and “ ▲ ” simultaneously for five seconds to activate or deactivate the “ MEMORY ” function. (once this function is activated, the unit with power failure will resume the previous set status after powered on again; otherwise it will go to the “ Off ” status.)   |
| 2 + 6 | ▲ + ▼<br>(LOCK)                                                      | Press “ ▲ ” and “ ▼ ” simultaneously for five seconds to go to the lock status, in which case the press on any other key will get no response. And another press on “ ▲ ” and “ ▼ ” for five seconds will quit this status.                                                                                                |
| 5 + 7 | Function + Timer<br>(Ambient Temperature Sensor; Anti Cold/ Hot Air) | Under the “ Off ” status of the unit, press “ Function ” and “ Timer ” simultaneously for five seconds to call out the debugging menu, after that press “ Mode ” to select the desired submenu and press “ ▲ ”/“ ▼ ” to set the parameter, finally press “ Enter/Cancel ” to save the setting and quit the setting status. |
| 4 + 6 | Mode + ▼                                                             | Under the “ Off ” status of the unit, press “ Mode ” and “ ▼ ” simultaneously for five seconds to switch the Celsius scale and Fahrenheit scale.                                                                                                                                                                           |



# INSTALLATION

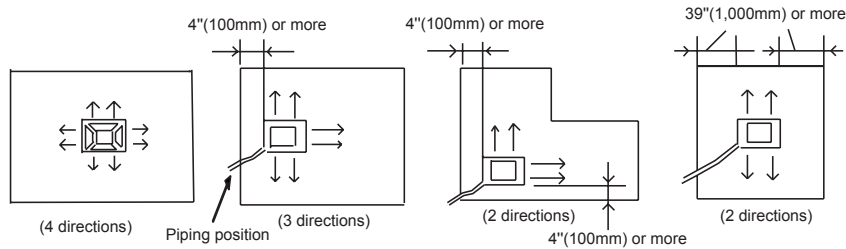
## INSTALLTION

### 1. SELECTION THE MOUNTING POSITION

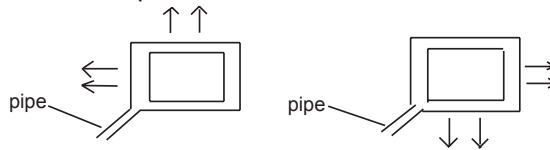
Especially, the installation place is very important for the fan coil unit because it is very difficult to move from place after the first installation.

Decide the mounting position together with the customer as follows:

The discharge direction can be selected as shown below.



Since 2-way outlet causes performance problems, do not set it.



Install the indoor unit on a place having a sufficient strength so that it with stands against the weight of the unit.

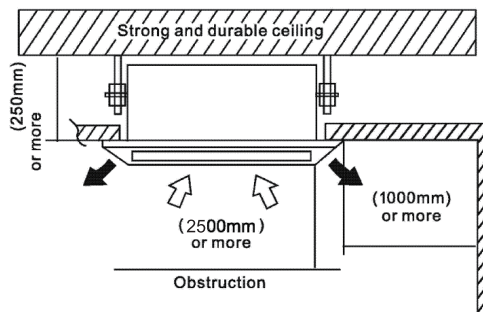
The inlet and outlet ports should not be obstructed; the air should be able to blow all over the room.

Leave the space required to service the air conditioner.

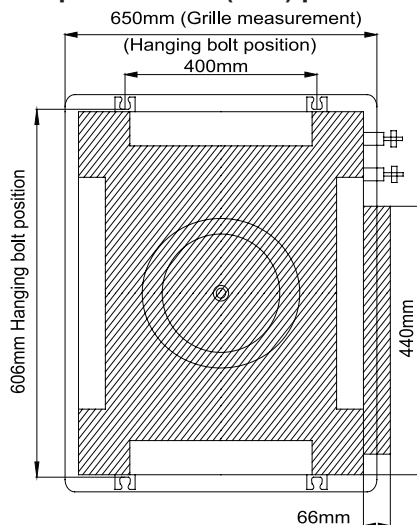
The ceiling rear height is 9-3/8 " inches(250mm) or more.

A place from where the air can be distributed evenly throughout the room by the unit.

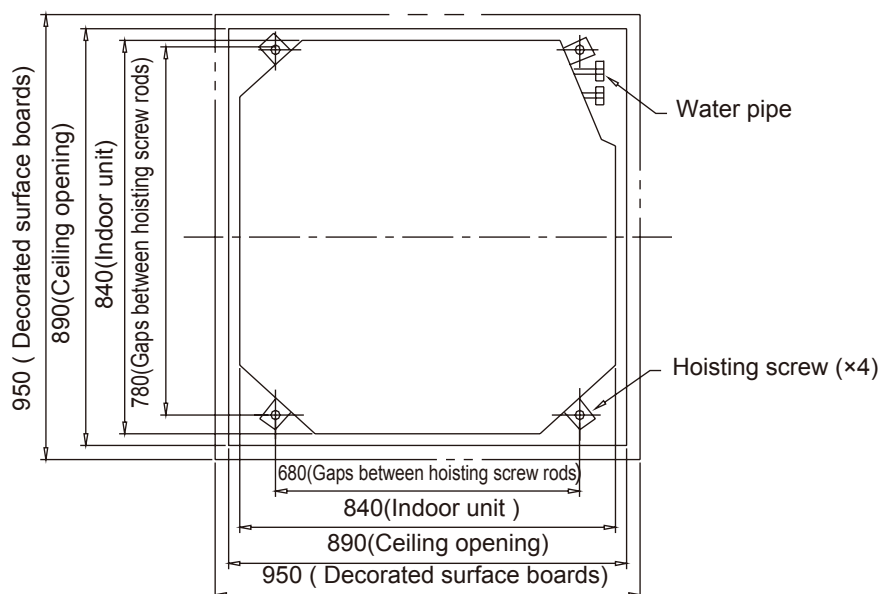
A place from where drainage can be extracted outdoor easily.



#### 1.1 Ceiling opening and suspension bolt (M 10) pitch flimension



Be suitable for:  
FP-51XD-E  
FP-68XD-E



Be suitable for:

P-85XD/B-T; FP-102XD/B-T; FP-125XD/B-T; FP-140XD/B-T; FP-160XD/B-T; FP-180XD/B-T; FP-200XD/B-T; FP-10XD-E; FP-12.5XD-E; FP-14XD-E; FP-16XD-E; FP-18XD-E; P-8XD/A-E; FP-10XD/A-E; FP-12.5XD/A-E; FP-14XD/A-E; FP-16XD/A-E; FP-18XD/A-E; FP-85XD/B-T; FP-102XD/B-T; FP-125XD/B-T; FP-140XD/B-T; FP-160XD/B-T; FP-180XD/B-T; FP-200XD/B-T; FP-68XDT/B-K; FP-85XDT/B-K; FP-125XDT/B-K; FP-180XDT/B-K;

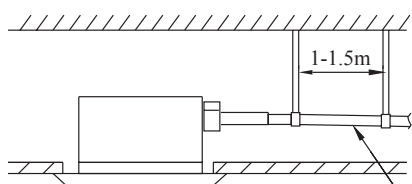
## 2. DRAINAGE PIPE

The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe [vinyl tube, pipe size: Outer diameter 25mm (outer dimension)].

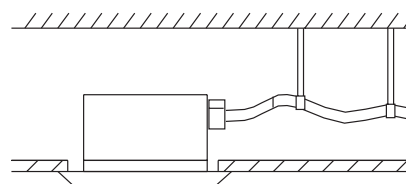
Keep the drainage pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming.

If the drainage hose cannot be sufficiently set on, add a drainage raising pipe.

To keep the drainage hose from sagging, keep space between hanging hooks at 1~1.5m.

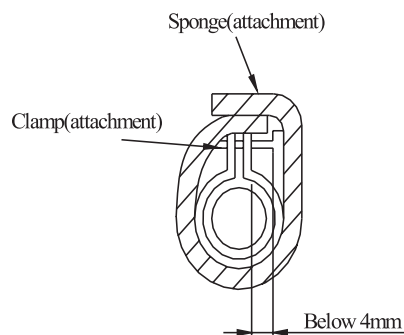
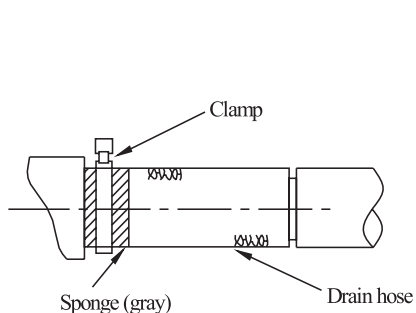


(Correct) 1/100 or more gradient



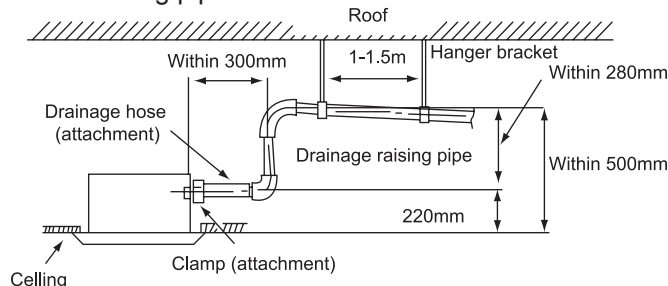
× (Wrong)

Use the drain hose and clamp attached. Insert the drain hose to the drain vent, and then tighten the clamp. Entwine the big sponge on the clamp of drain hose to insulate heat. Heat insulation should be done to indoor drain hose.

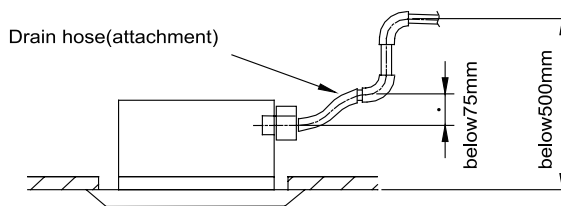


### 3. PRECAUTIONS FOR DRAINAGE RAISING PIPE

The install height of the drain raising pipe should less than 280mm.

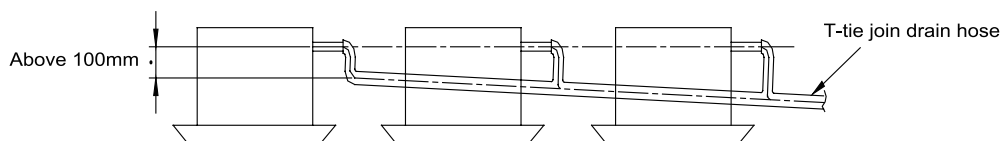


The drain raising pipe should form a upright angle with the unit, and distance to unit should not beyond 300mm.



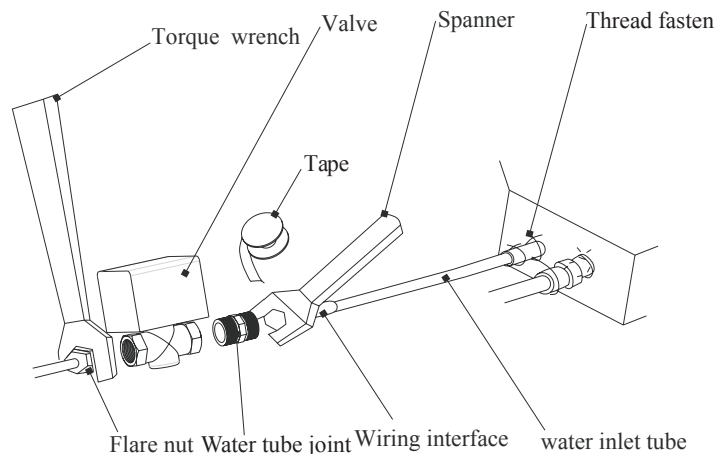
#### 3.1 Instruction

- ◆ The slant gradient of the attached drain hose should be within 75mm so that the drain hole doesn't has to endure the unnecessary outside force.
- ◆ Please install the drain hose according to the following process if several drain hoses join together.



The specs of the selected join drain hose should fits the running capacity of the unit

- ◆ The installation of the motorized valve should be done according as .Firstly connect one end of the tube joint with the water inlet tube of the unit, then connect the other end with the motorized valve, and lastly connect the motorized valve with the flare nut . During the installation, both the torque wrench and the spanner should be used and the moment of torque should be within 90 N.m. Besides, a secure connection should be guaranteed.

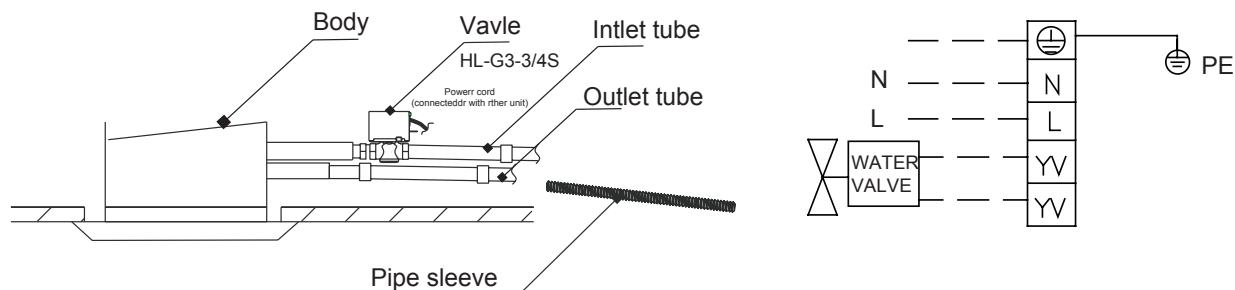


- ◆ Both the tube joint and the motorized valve are G3/4" threaded. Prior to the connection, it is recommended to wrap the tacky tape on the thread for two or three cycles for better sealing effects .
- ◆ After the tube joint, motorized valve, water inlet tube, water outlet tube are connected reliably, start the

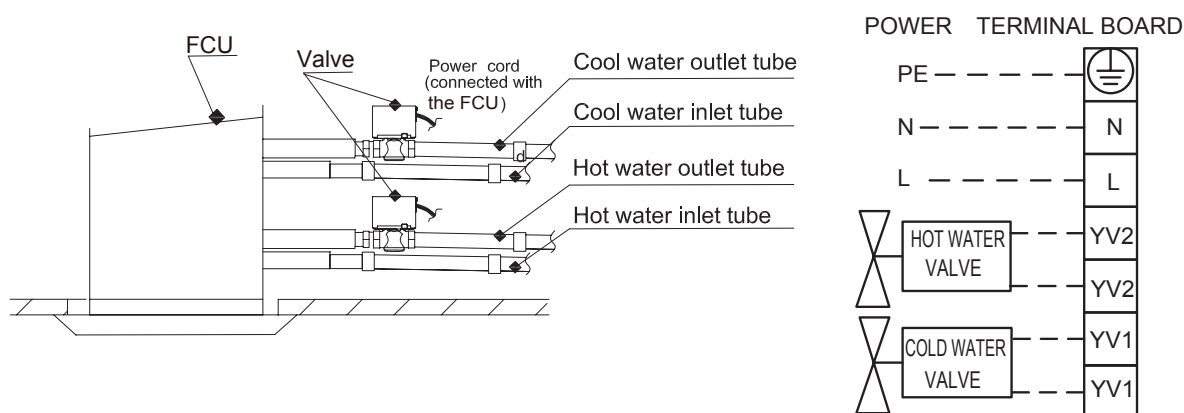
water pump of the outdoor unit to check if they leak or not.

◆ What should be done lastly is wrapping sponge around the motorized valve and the tube for heat insulation.

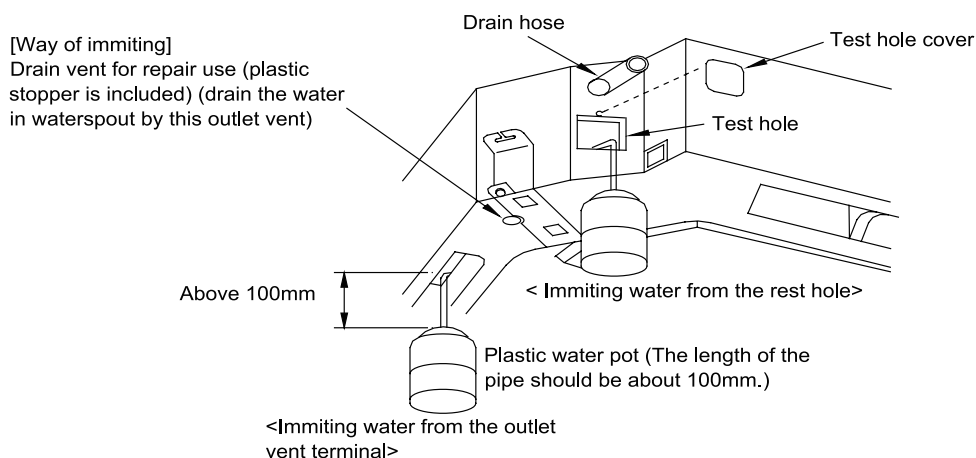
(1) For 2 pipes:



(2) For 4 pipes:



- ◆ Check the smoothness of drain after installation.
- ◆ Check the drain state by imitating 600cc water slowly from the outlet vent or test hole.
- ◆ Check the drain in the state of refrigerating after installation of the electric circuit.



**Warning:** Before obtaining access to terminals, all supply circuits must be disconnected.

## 4. ELECTRIC WIRING

1. All field supplied parts and materials must conform to local laws and regulations.
2. For electric wiring, refer to WIRING DIAGRAM attached to the unit body.
3. All wiring must be performed by a skilled technician.
4. A circuit breaker capable of shutting down power supply to the entire system and which have at least mm contact separation in each jole must be installed in the fixed wiring.
5. Earth properly.
6. Wiring must conform to national laws and regulations.
7. The fixed wiring must be installed with a protector with no more that 30 mA leakage current.
8. If the supply cord is damaged, it must be replaced by the manufactory or its service agents or a similarity qualified person in order to avoid a hazard.

### 4.1 Wiring of unit and the controller

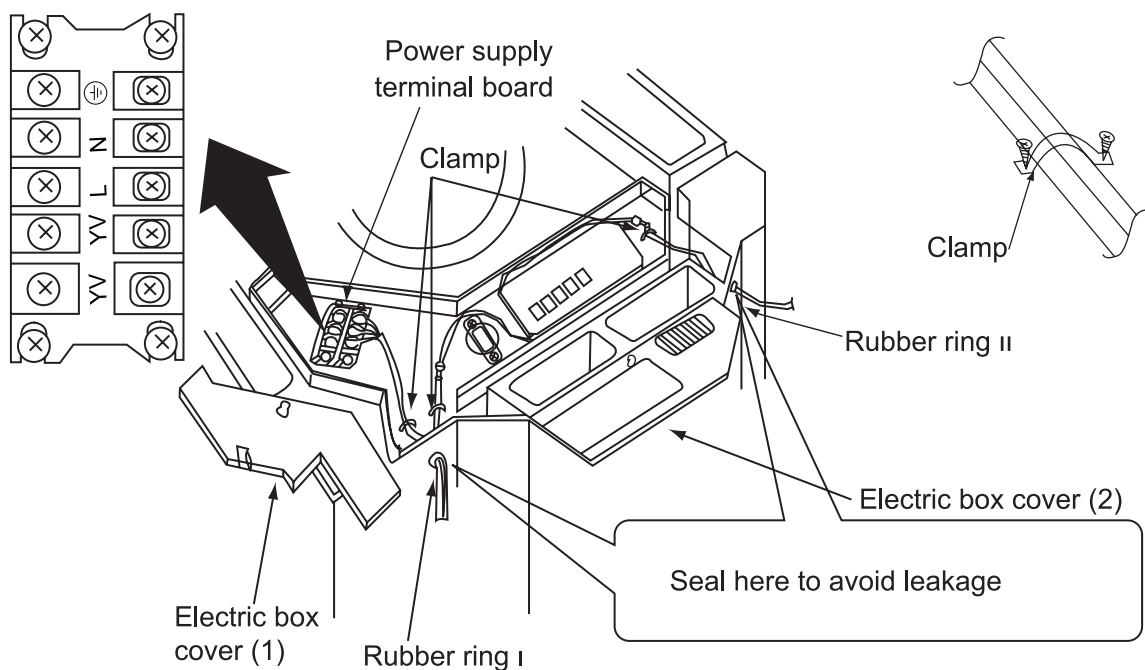
#### 4.1.1 Wiring of the unit

##### (1) For 2 pipes

Remove the control box lid, pull the wires inside through rubber bush and wiring according to the WIRING DIAGRAM, then tighten it with clamp.

##### Wiring of the controller

- ◆ Remove the control box lid, pull wires inside through rubber bush and connect to the controller.
- ◆ Wrap the wire with sealing pad.
- ◆ After wiring, tighten it with clamp and fix the control box lid.
- ◆ Heating and cooling: connect the rubber wire (5-cords) to the power supply terminal board in properly.
- ◆ Cooling: connect the rubber wire (3-cords) to the power supply terminal board properly.



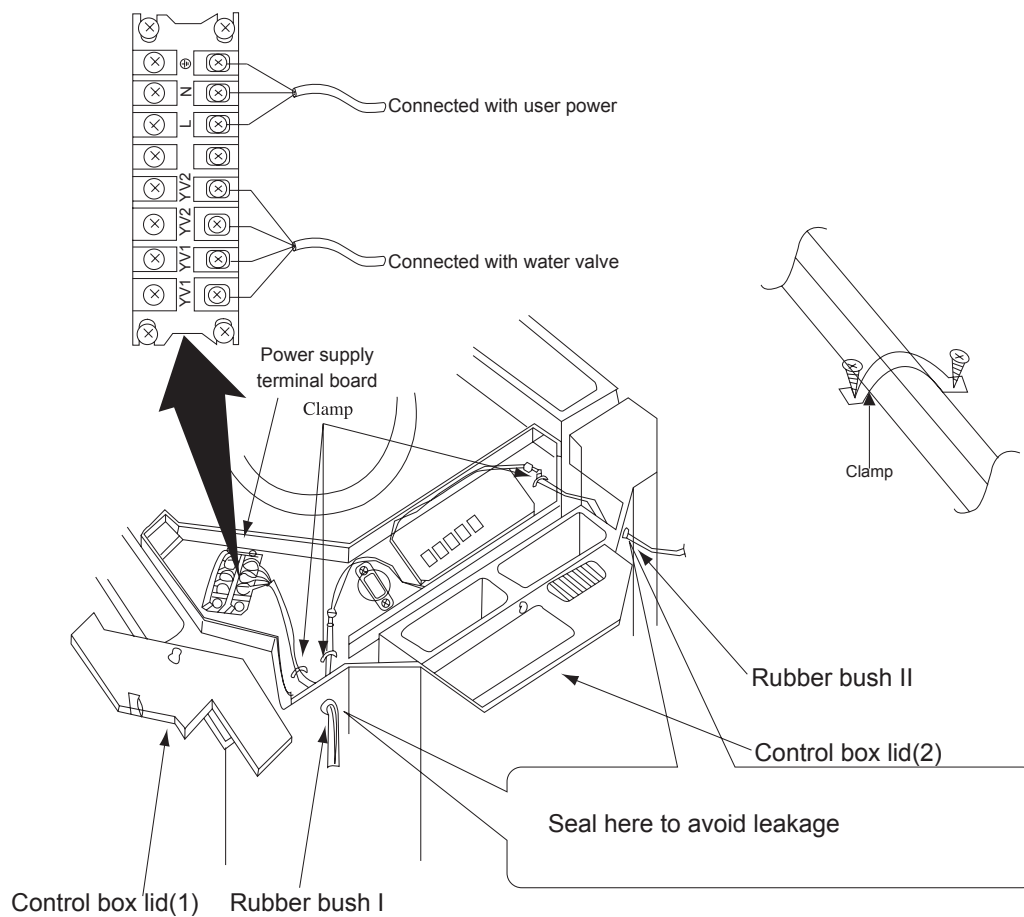
**Precautions:** Be sure to connect the unit at right poles.

##### (2) For 4 pipes

The "WIRING DIAGRAM" in the manual is reference. The correct wiring should agree with the "WIRING DIAGRAM" on controller box of the unit.

1) Remove the control box lid (1). Pull the wires inside through rubber bush I and wiring according to the "WIRING DIAGRAM", then tighten it with clamp. After wiring, tighten it with clamp and fix the control box lid (1). (2).

2) When the wiring is completed, take a careful check and then start the water pump and unit to see if the motorized valve works normally.

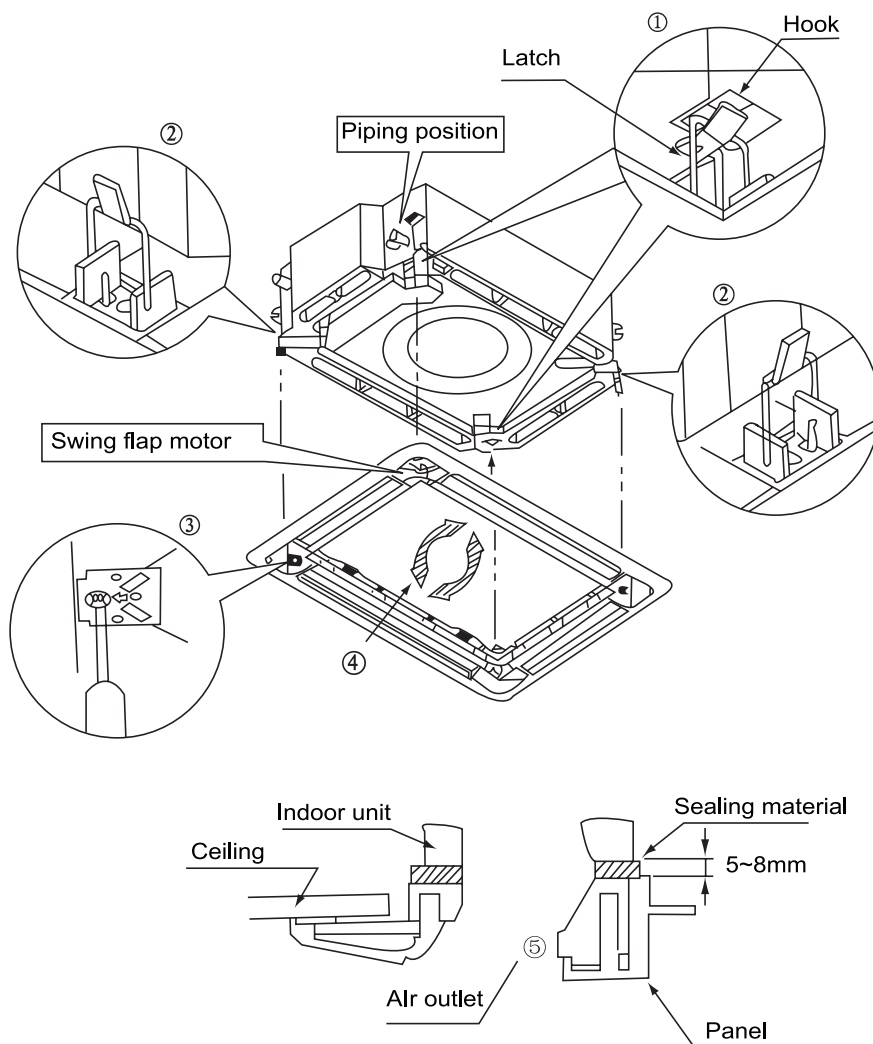


## 5. INSTALLATION OF PANEL

Set the panel to the unit body by matching the position of the swing flap motor of the decoration panel to the piping position of the indoor unit as shown as below.

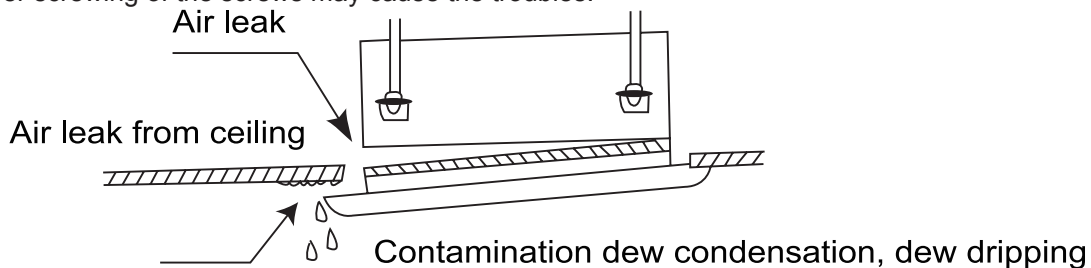
Install the decoration panel.

1. Hang the latch, which is located on the opposite side of the swing flap motor on the panel, temporarily to the hook of the unit. (2 Positions)
2. Temporarily hang the remaining 2 latches to the hooks on the sides of the unit. (be careful not to let the swing motor lead wire get caught in the sealing material.)
3. Screw all 4 hexagon head screws located right beneath the latches in approximately 15mm. (panel will rise)
4. Adjust the panel by turning it to the arrowed direction in Fig.4 so that the ceiling opening is completely covered.
5. Tighten the screws until the thickness of the sealing material between the panel and the unit.
6. Body is reduced to 5~8 mm.



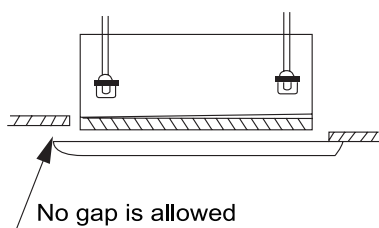
### 5.1 Precautions

Improper screwing of the screws may cause the troubles.

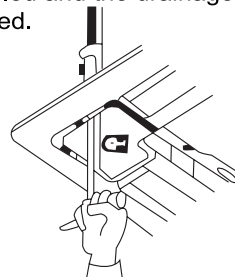




If gap is still left between the ceiling and the panel after screwing the screws, readjust the height of the unit body.



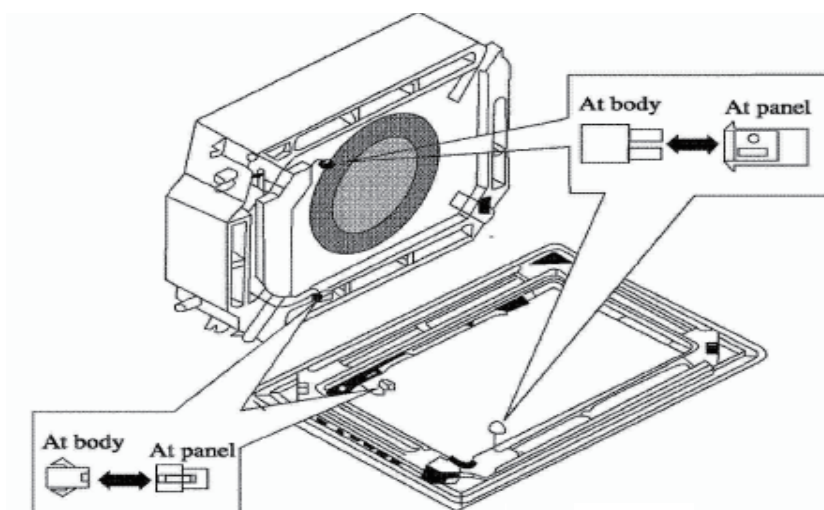
Adjustment of the indoor unit body from the holes in the corner of the panel is possible if the unit is kept leveled and the drainage pipe piping etc unaffected.



## 5.2 After fixing be sure no gap left between the ceiling and the panel

Wiring of the decoration panel.

Connect the joints for swing flap motor lead wire (at 2 places) installed on the panel.



# MAINTENANCE

## MAINTENANCE

### 1.TROUBLESHOOTING

Panel TB03 displaying the error code :

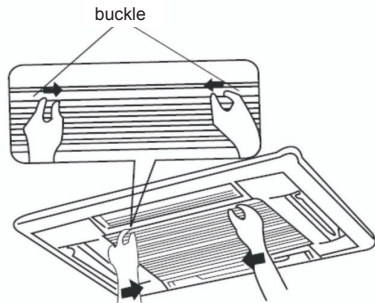
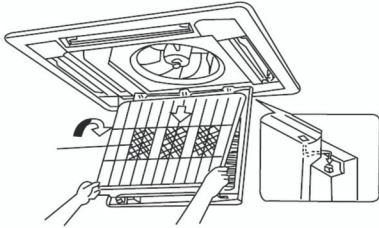
| Error code | Error                                                 |
|------------|-------------------------------------------------------|
| E0         | Water pump error                                      |
| E6         | Communications error                                  |
| F0         | temperature sensor error at the return air inlet      |
| F1         | Evaporator temp. sensor error                         |
| F5         | temperature sensor error at the wire controller       |
| E9         | Full water protection                                 |
| FE         | Entering cooling temp. sensor error of the evaporator |

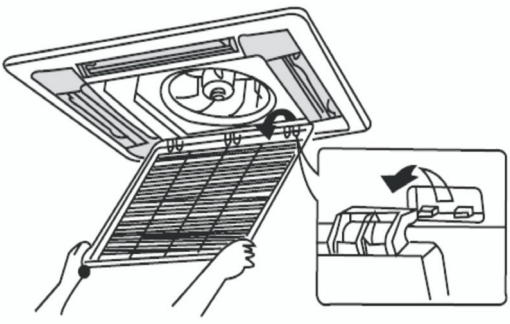
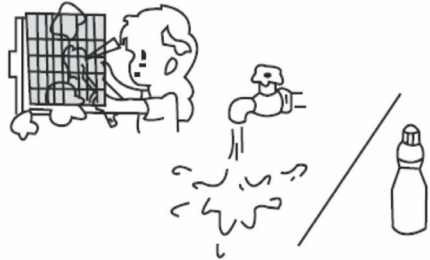
### 2.CARE AND MAINTENANCE

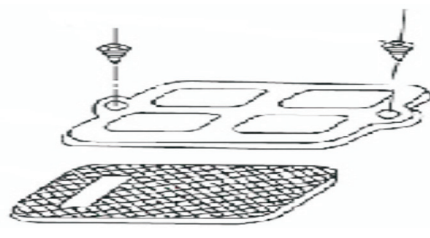
Please pull out the power plug after you used the air condition.

**Warning:**

1. Pull out the power plug before cleaning.
2. Do not splash water directly.

| How to clean the air filter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Open the suction grille.</li> <li>2. Slide both knobs simultaneously as shown and then pull them downward slowly.</li> </ol>                                                                                                                                                                                                                                                                                                                                                 |   |
| <ol style="list-style-type: none"> <li>1. Remove the air filters.</li> <li>2. Slide knobs on the back of the suction grille out ward and remove the air filter.</li> <li>3. Then remove three air cleaners on it.</li> </ol>                                                                                                                                                                                                                                                                                           |                                                                                       |
| <ul style="list-style-type: none"> <li>• Clean the filter</li> </ul> <p>Use vacuum or wash the air filter with water when the air filter is very dirty, use neutral detergent and water. Let the filter dry naturally at shady place.</p> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>1. Do not clean with hot water.</li> <li>2. Do not dry over fire.</li> <li>3. Do not run the air condition without the air filter.</li> <li>4. The suction grille must be opened by skilled personnel.</li> </ol> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <ul style="list-style-type: none"> <li>• Fix the air filters</li> </ul> <ol style="list-style-type: none"> <li>1. Fix three air-cleaner on the air filter and then fix the air filter to the suction grille by hanging it to the projected portion above suction grille.</li> <li>2. Set air filter by sliding the knob on the back of the suction grille inward.</li> </ol>                                                                                                                                           |  |
| Shut the suction grille.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Refer to step.1                                                                       |

| How to clean to the suction grille                                                                                                        |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. Open the suction grille                                                                                                                | See step 1 of "How to clean the air filter".                                       |
| 2. Remove the air filters                                                                                                                 | See step 2 of "How to clean the air filter".                                       |
| 3. Remove the suction grille<br>Open the suction grille at 45° and then lift.                                                             |  |
| 4. Wash with water.<br>When the suction grille is very dirty, use soft brush and neutral detergent. Shake water and dry in a shady place. |  |
| 5. Fix the suction grille.                                                                                                                | Refer to step 3.                                                                   |
| 6. Fix air filter.                                                                                                                        | See step 4 of "How to clean the air filter".                                       |
| 7. Close the suction grille.                                                                                                              | Refer to step 1.                                                                   |

| Changing air cleaner                                                                                                                                                                                                                                       |                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. Open the suction grille                                                                                                                                                                                                                                 | See step 1 of "How to clean the air filter"                                          |
| 2. Remove the air cleaner<br>Remove the air filter and remove the air cleaner after unscrewing.                                                                                                                                                            |  |
| 3. Take off packing bag and put in new static electricity fiber filter, then fix them on the air filter.                                                                                                                                                   |  |
| 4. Fix the air filter                                                                                                                                                                                                                                      | See step 4 of "How to clean the air filter"                                          |
| Air cleaner functions and service cycle time.                                                                                                                                                                                                              |                                                                                      |
| <p>Absorbs bad smell in air such as carbon monoxide carbon dioxide, benzyl, gasoline and so on.</p> <p>Absorbs harmful objects bigger than 1.0 um in air such as dust, germ, virus and so on.</p> <p>It can be used for about half a year to one year.</p> |                                                                                      |

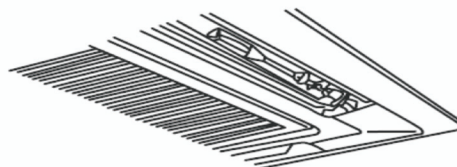
**How to clean the air outer and case.**

- Clean with soft cloth or use water and neutral detergent.
- Do not use gasoline, benzene, thinner, polishing powder, liquid insecticide, which may cause discoloring or warping.
- If the air flow flap is very dirty, you may remove it to clean as shown below.

**Detach and fix the flap.**

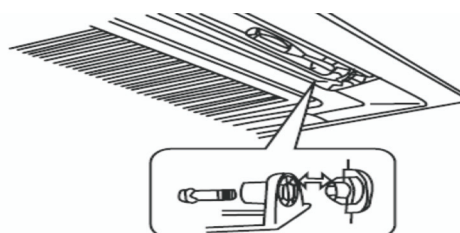
**1. Detach the flap**

Loosen the screws on the sides of the flap clean with soft cloth.



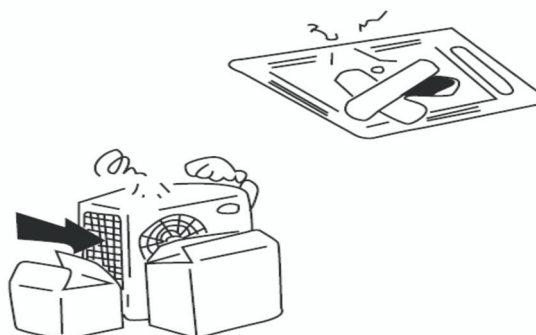
**2. Fix the flap**

Set the ribs on the sides of the air outlet to the slit of the flap and then screw together to fix the flap.



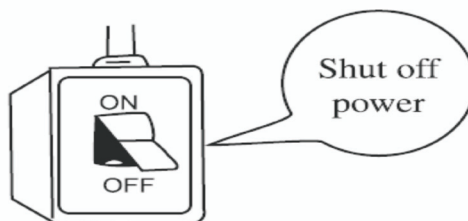
**Before starting the air conditioner for the first time in the season.**

1. Check to make sure no objects obstructing the intake and outlets parts on both the indoor and outdoor units.
2. Check to make sure ground wire is connected and that is not damaged.
3. Check to make sure air filter has been cleaned.
4. Turn on the power 6 hours before starting the air conditioner.



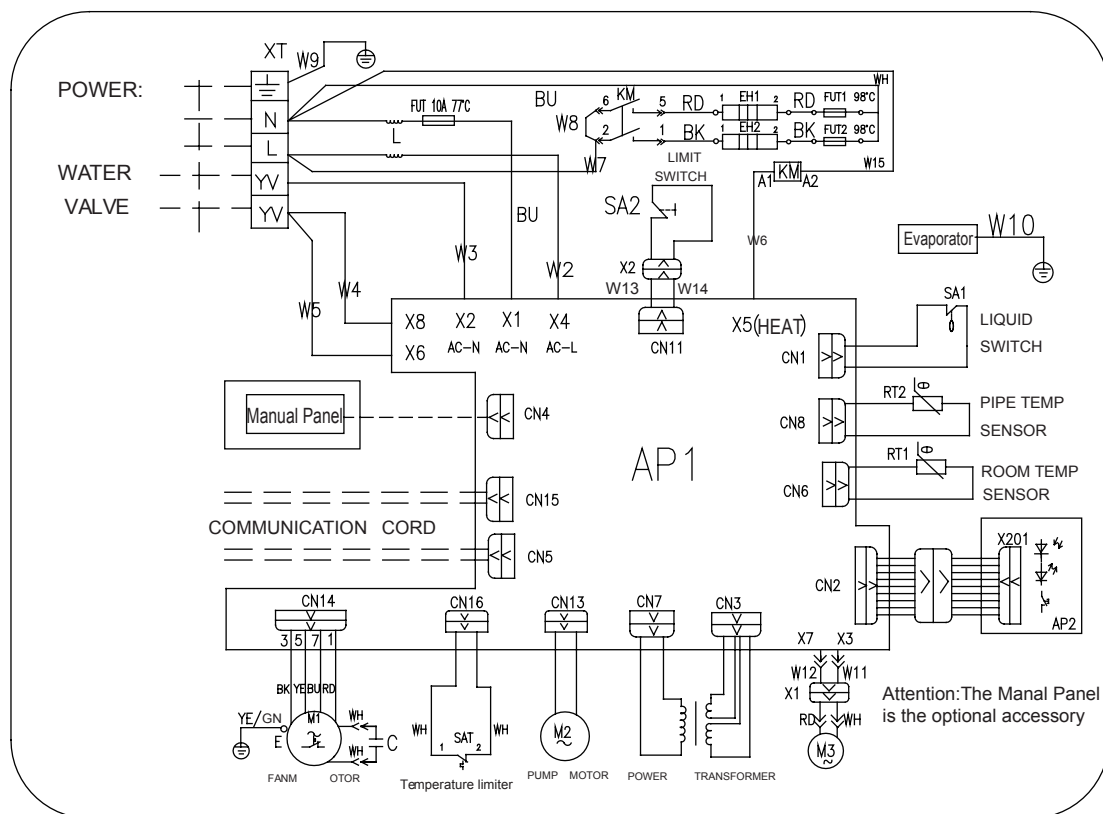
**End of season cleaning**

1. Clean the filter and the body of the unit.
2. Turn off power.
3. Clear outdoor of dust.
4. If there is any rust in the outdoor unit, this should be painted over to prevent the rust from spreading.

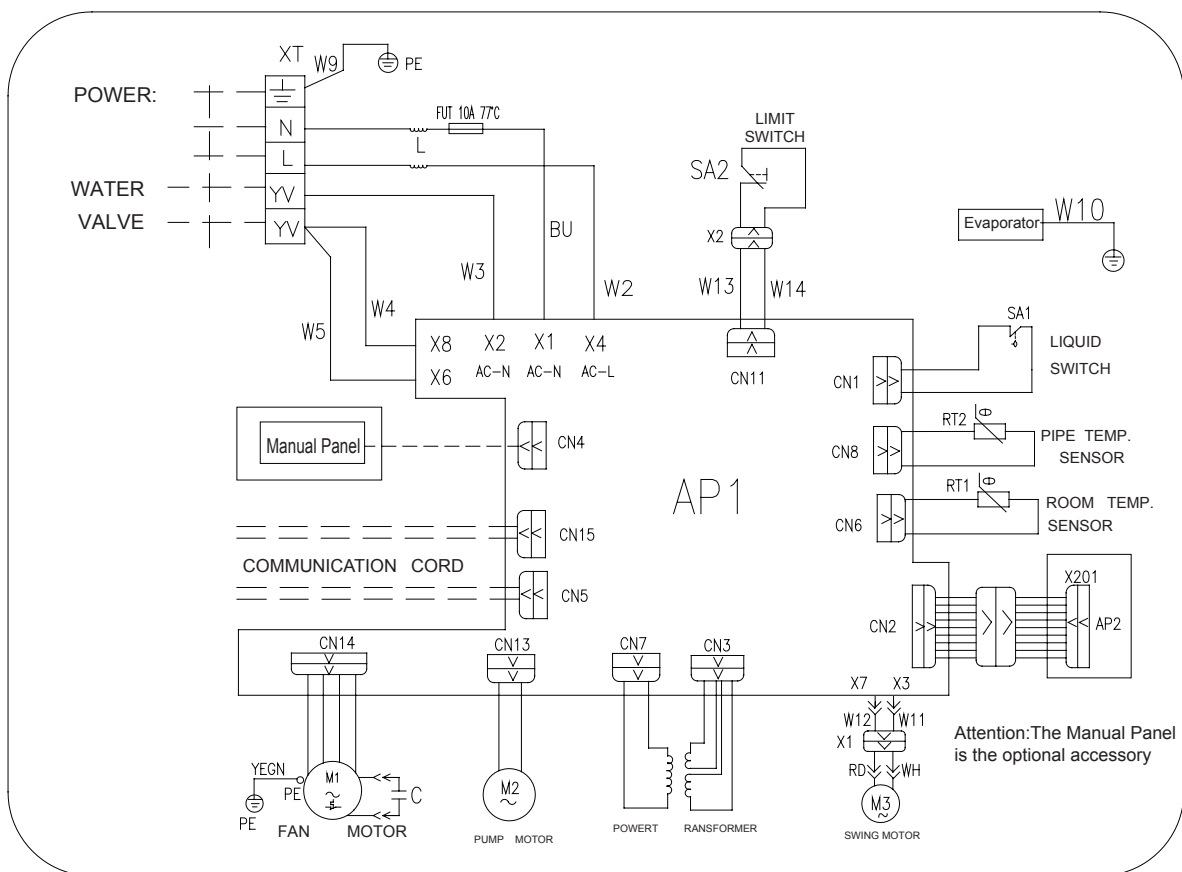


### 3. WIRING DIAGRAM

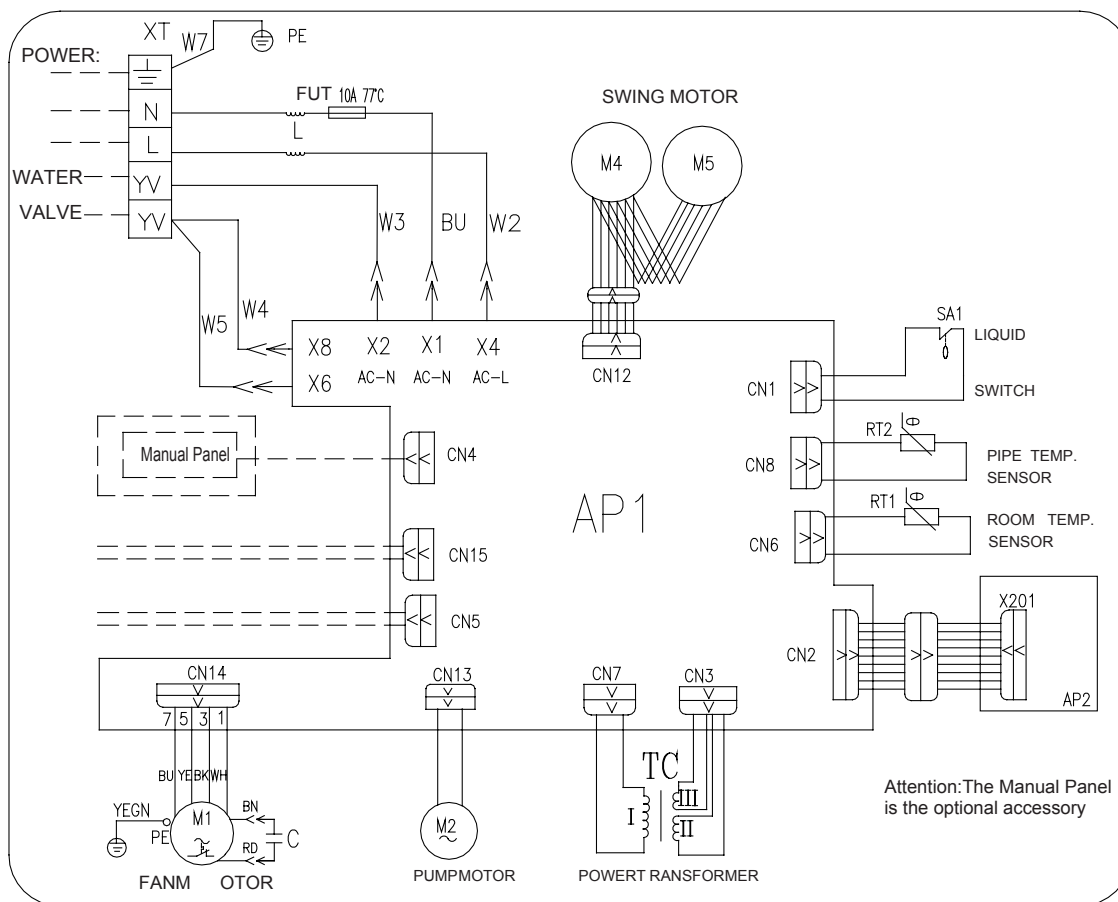
FP-8XD-E; FP-10XD-E; FP-12.5XD-E; FP-14XD-E;FP-14XD-E;FP-18XD-E.



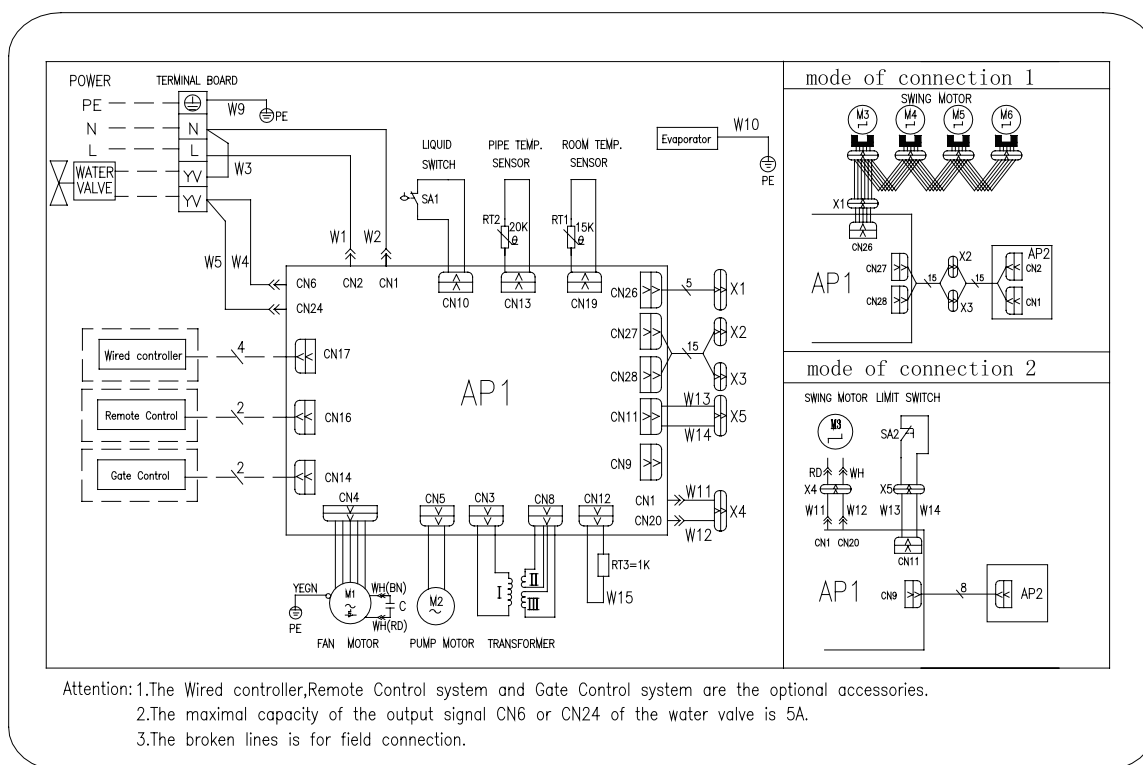
FP-8XD/A-E; FP-10XD/A-E; FP-12.5XD/A-E; FP-14XD/A-E;FP-16XD/A-E; FP-18XD/A-E.



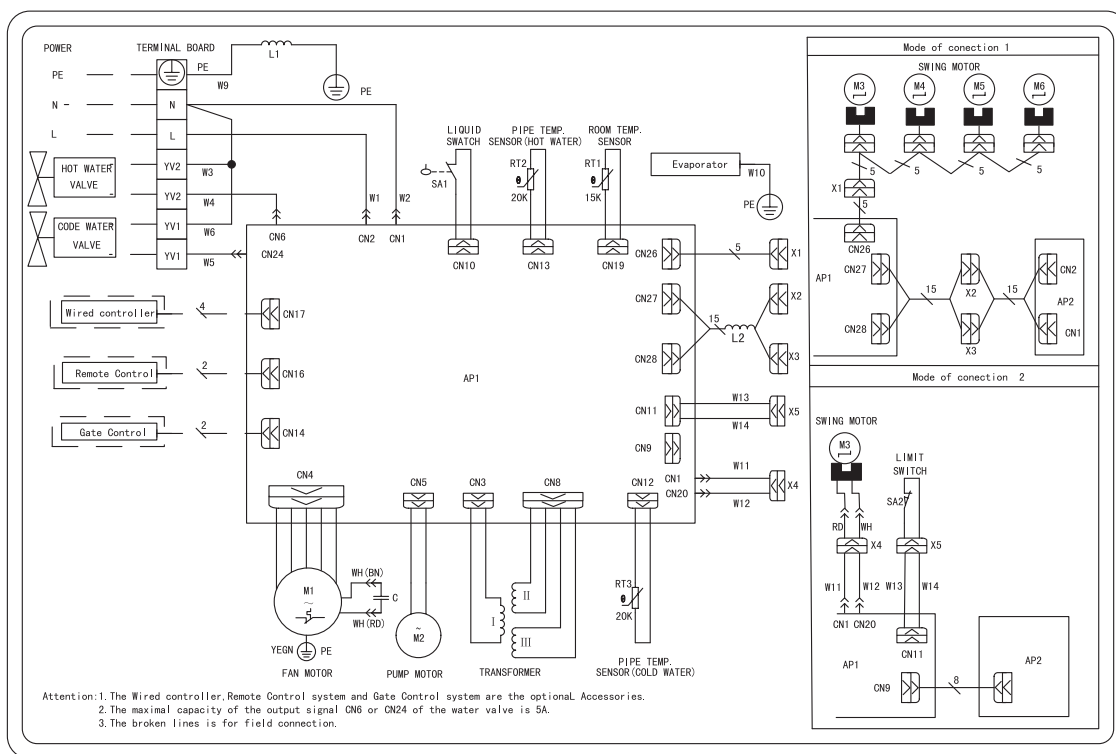
Model: FP-51XD -E; FP-68XD -E.



Model:FP-85XD/B-T;FP-102XD/B-T;FP-125XD/B-T;FP-140XD/B-T;FP-160XD/B-T;FP-180XD/B-T;FP-200XD/B-T.



Model:FP-68XDT/B-K; FP-85XDT/B-K; FP-125XDT/B-K; FP-180XDT/B-K.

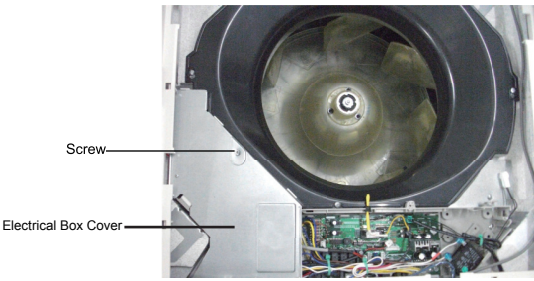
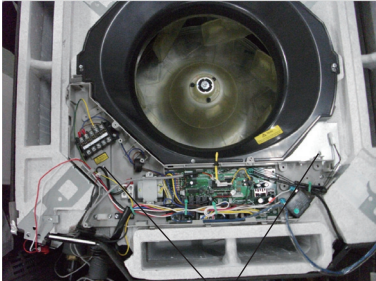
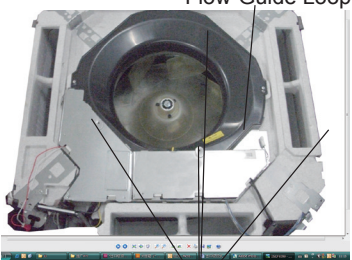
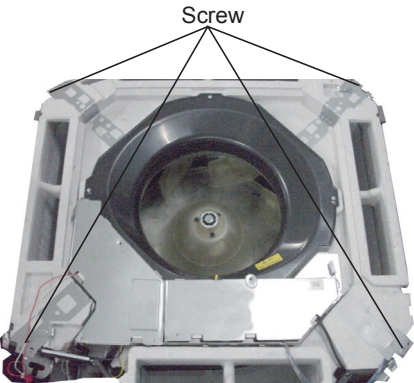
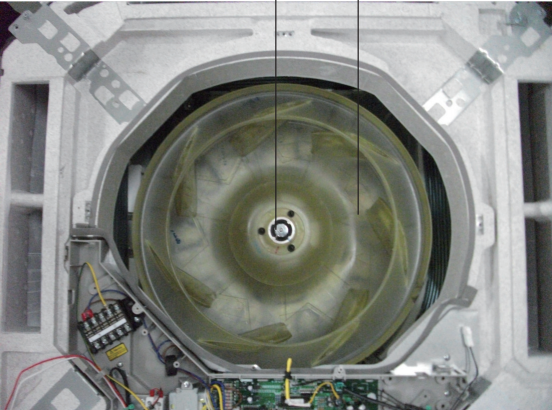


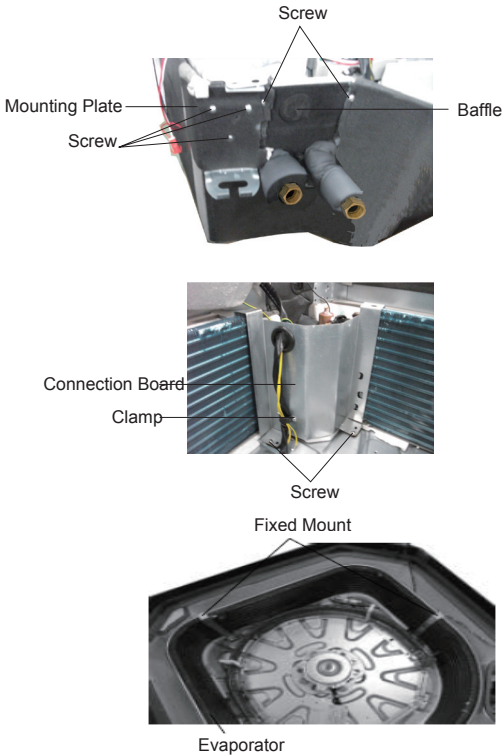
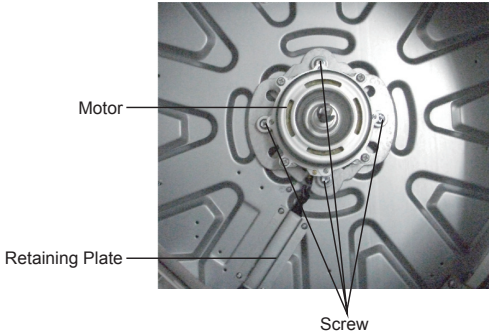
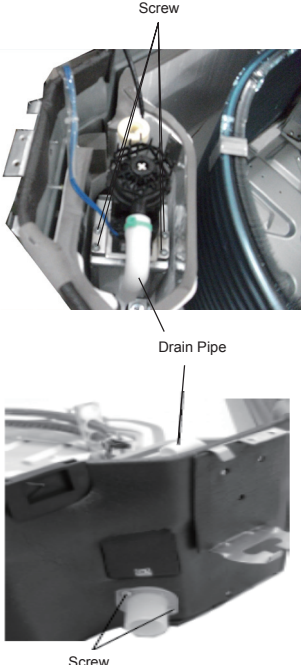
#### 4. DISASSEMBLY AND ASSEMBLY PROCEDURE OF MAIN PARTS

Model;FP-8XD-E; FP-10XD-E; FP-12.5XD-E; FP-14XD-E; FP-16XD-E; FP-18XD-E;P-8XD/A-E; FP-10XD/A-E; FP-12.5XD/A-E; FP-14XD/A-E;FP-16XD/A-E; FP-18XD/A-E; FP-85XD/B-T; FP-102XD/B-T: FP-125XD/B-T; FP-140XD/B-T; FP-160XD/B-T; FP-180XD/B-T; FP-200XD/B-T; FP-85XD/B-T; FP-102XD/B-T: FP-125XD/B-T; FP-140XD/B-T; FP-160XD/B-T; FP-180XD/B-T; FP-200XD/B-T; FP-68XDT/B-K; FP-85XDT/B-K; FP-125XDT/B-K; FP-180XDT/B-K.

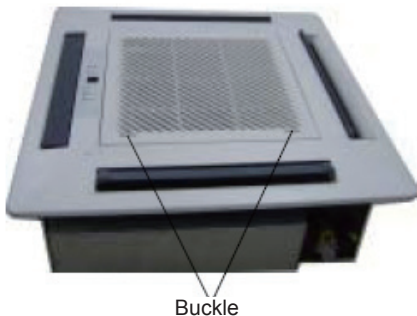
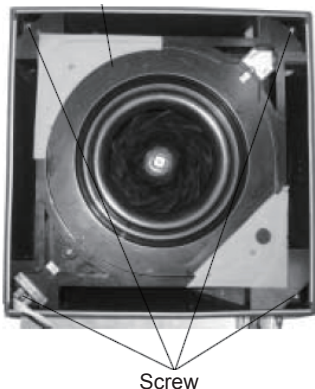
| Disassembly Procedures of Indoor Unit ( Panel T01)                                                          |                                                                             |                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor. |                                                                             |                                                                                                                                                                                                                                                                                                                                |
| Process                                                                                                     | Pictorial View                                                              | Handling Description                                                                                                                                                                                                                                                                                                           |
| 1.Disassemble the grille of the front panel                                                                 | <br>Left buckle Right buckle                                                | Push the left and right buckles on the grille of the front panel toward the center and meanwhile pull it upward until it forms a 45° angle, after that pull the grille backward.                                                                                                                                               |
| 2. Disassemble the front panel.                                                                             | <br>Electric Box Cover I Electric Box Cover II Six-Cord Plug<br>Cover Screw | Disconnect the power cord of the fan motor and the plug of the limit switch.<br>Open the cover II of the electric box and disconnect the six-cord plug, then remove covers on four corners away, after that, loosen the screws to the right position and turn the front panel counter clockwise and lastly pull it out upward. |

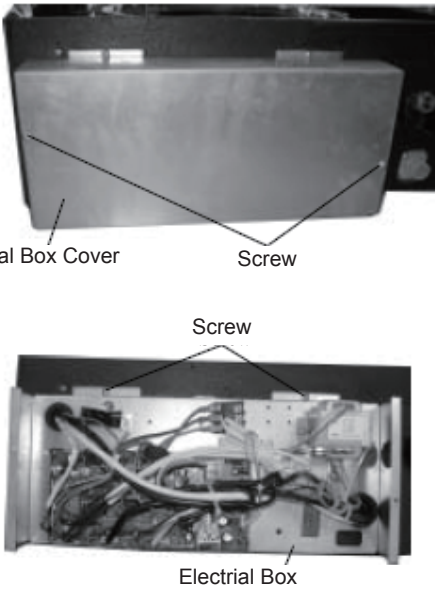
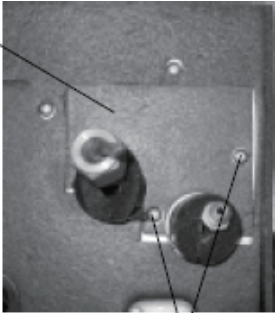
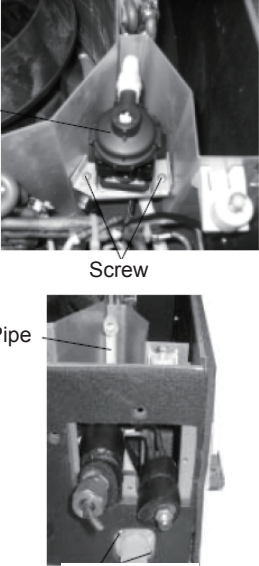


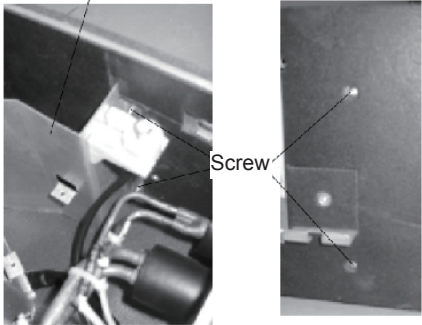
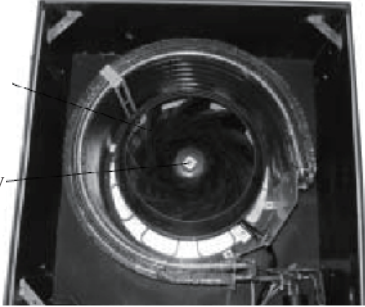
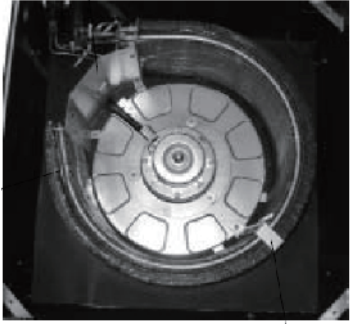
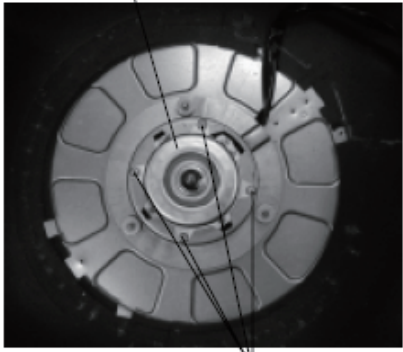
|                                           |                                                                                                                             |                                                                                                                                          |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <p>3. Disassemble the drain pan.</p>      |  <p>Screw</p> <p>Electrical Box Cover</p>  | <p>Loosen the screws on the cover I of the electrical box and then open the cover.</p>                                                   |
| <p>4. Disassemble the electrical box</p>  |  <p>Screw</p>                              | <p>Loosen two screws fixing the electric box and then disconnect each wiring terminals, after that take the electric box out upward.</p> |
| <p>5. Disassemble the flow-guide loop</p> |  <p>Flow-Guide Loop</p> <p>Screw</p>      | <p>Loosen the screws fixing the flow-guide loop and then turn it counter clockwise.</p>                                                  |
| <p>6. Disassemble the drain pan</p>       |  <p>Screw</p>                            | <p>Loose the screws on the drain pan and take it out upward.</p>                                                                         |
| <p>7. Disassemble the fan blade</p>       |  <p>Nut with Washer</p> <p>Fan Blade</p> | <p>Loosen the screws on the fan blade and then take it out upward.</p>                                                                   |

|                                                          |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>8. Disassemble the evaporator</p>                     |  <p>Screw</p> <p>Mounting Plate</p> <p>Screw</p> <p>Baffle</p> <p>Connection Board</p> <p>Clamp</p> <p>Screw</p> <p>Fixed Mount</p> <p>Evaporator</p> | <p>Loosen the screws on the mounting plate and take it out.</p> <p>Loosen the screws on the baffle of the pipe outlet, and then press it downward to pull out the buckles on both side, after that, take the baffle away.</p> <p>Loosen the screws and clamps on the connection board of the evaporator, disconnect the earth lead, and then take the power cord of the motor, electric heater and earth lead out through the wire-cross hole, after that loosen the screws on the fixed mount and remove it away, finally take the evaporator out upward.</p> |
| <p>9. Disassemble the motor</p>                          |  <p>Motor</p> <p>Retaining Plate</p> <p>Screw</p>                                                                                                    | <p>Loosen the screws on the retaining plate and the screw bolts on the motor, after that, take the motor out.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>10. Disassemble the water pump and the drain pipe</p> |  <p>Screw</p> <p>Drain Pipe</p> <p>Screw</p>                                                                                                        | <p>Loosen four screws fixing the water pump, disconnect the water pipe of the pump, take the mounting bracket away, then loosen these two screws fixing the water pipe, after that, take the water pipe away.</p>                                                                                                                                                                                                                                                                                                                                              |

Model: FP-51XD -E; FP-68XD -E.

| Disassembly Procedures of Indoor Unit                                                                       |                                                                                     |                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor. |                                                                                     |                                                                                                                                                                                                                                                                                                                                |
| Process                                                                                                     | Pictorial View                                                                      | Handling Description                                                                                                                                                                                                                                                                                                           |
| 1. Disassemble the grille of the front panel                                                                |    | Push the left and right buckles on the grille of the front panel toward the center and meanwhile pull it upward until it forms a 45° angle, after that pull the grille backward.                                                                                                                                               |
| 2. Disassemble the front panel                                                                              |   | Disconnect the power cord of the fan motor and the plug of the limit switch.<br>Open the cover II of the electric box and disconnect the six-cord plug, then remove covers on four corners away, after that, loosen the screws to the right position and turn the front panel counter clockwise and lastly pull it out upward. |
| 3. Disassemble the drain pan                                                                                |  | Loose the screws on the cover I of the electric box and then take the cover away.                                                                                                                                                                                                                                              |

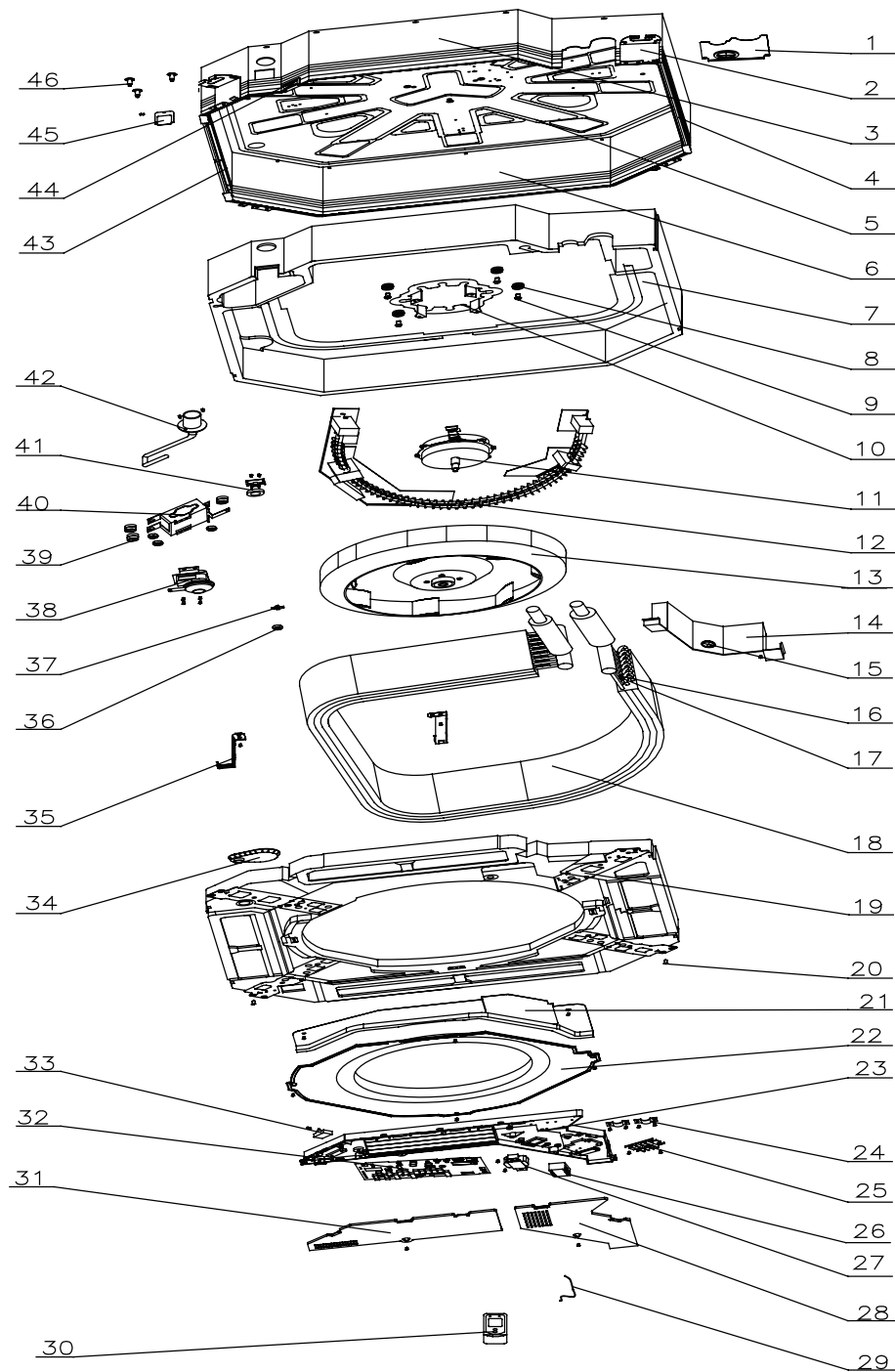
|                                                      |                                                                                                                                                                          |                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>4. Disassemble the electrical box</p>             | <p>Screw</p>  <p>Electrial Box Cover</p> <p>Screw</p> <p>Screw</p> <p>Electrial Box</p> | <p>Loosen two screws on the cover of the electric box and then remove it away.<br/>Disconnect the wiring terminals of the motor and the temperature sensing bulb, then loosen two screws fixing the electric box, after that, remove the electric box away.</p> |
| <p>5. Disassemble the baffle at the pipe outlet.</p> | <p>Baffle</p>  <p>Screw</p>                                                            | <p>Loosen two screws on the baffle and take it out by turning it upward.</p>                                                                                                                                                                                    |
| <p>6. Disassemble the water pump</p>                 | <p>Water Pump</p>  <p>Screw</p> <p>Drain Pipe</p> <p>Screw</p>                        | <p>Loosen the screws fixing the drain pan and then take the it out upward.</p>                                                                                                                                                                                  |

|                                       |                                                                                                                                                  |                                                                                                                                                         |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>7. Disassemble the left fender</p> | <p>Left Fender</p>  <p>Screw</p>                                | <p>Loosen two screws on the left fender and then take it out upward.</p>                                                                                |
| <p>8. Disassemble the fan blade</p>   | <p>Fan Blade</p>  <p>Screw</p>                                  | <p>Loosen the screws on the fan blade and then take it out.</p>                                                                                         |
| <p>9. Disassemble the evaporator</p>  | <p>Connection Board</p>  <p>Evaporator</p> <p>Fixed Mount</p> | <p>Loosen the screws on the connection board and the fixed mount of the evaporator, and then remove them away, after that, take the evaporator out.</p> |
| <p>10. Disassemble the motor</p>      | <p>Motor</p>  <p>Screw</p>                                    | <p>Loosen four screws fixing the motor and take the motor out.</p>                                                                                      |



## 5. EXPLODED VIEWS AND SPARE PART LISTS

Model: FP-8XD-E; FP-10XD-E; FP-12.5XD-E; FP-14XD-E;FP-16XD-E; FP-18XD-E exploded views and spare parts list.



| NO. | Discription           | FP-8XD-E   | FP-10XD-E  | FP-12.5XD-E | Quantity |
|-----|-----------------------|------------|------------|-------------|----------|
|     |                       | EM52000050 | EM52000060 | EM52000030  |          |
|     | Name of Parts         | Part Code  | Part Code  | Part Code   |          |
| 1   | Tube Exit plate       | 02217102   | 02217102   | 02217102    | 1        |
| 2   | Body Fixing Plate     | 01332701   | 01332701   | 01332701    | 4        |
| 3   | Front Side Plate      | 01302718   | 01302718   | 01302718    | 1        |
| 4   | Left Side Plate       | 01302715   | 01302715   | 01302715    | 1        |
| 5   | Base Plate            | 01222701   | 01222701   | 01222701    | 1        |
| 6   | Rear Side Plate       | 01302714   | 01302714   | 01302714    | 1        |
| 7   | Bottom Foam           | 52012722   | 52012722   | 52012722    | 1        |
| 8   | Motor Gasket          | 76712711   | 76712711   | 76712711    | 4        |
| 9   | Bolt M6               | 70212711   | 70212711   | 70212711    | 4        |
| 10  | Motor Support         | 01702701   | 01702701   | 01702701    | 1        |
| 11  | Motor                 | 15012703   | 15012703   | 15012703    | 1        |
| 12  | Electric Heater       | 32002701   | 32002701   | 32002701    | 1        |
| 13  | Centrifugal Fan       | 10312705   | 10312705   | 10312705    | 1        |
| 14  | Evaporator Linkage    | 01074042   | 01074042   | 01074042    | 1        |
| 15  | Cable-cross Loop      | 76512701   | 76512701   | 76512701    | 1        |
| 16  | Tube sensor           | 3900012125 | 3900012125 | 3900012125  | 1        |
| 17  | sensor insert B       | 42020063   | 42020063   | 42020063    | 1        |
| 18  | Heat exchanger        | 01127104   | 01127104   | 01127104    | 1        |
| 19  | Water Tray Assy       | 20182701   | 20182701   | 20182701    | 1        |
| 20  | Rubber Stem           | 76712701   | 76712701   | 76712701    | 1        |
| 21  | Electric Base Plate   | 01412722   | 01412721   | 01412721    | 1        |
| 22  | Flow-guide Loop       | 10372701   | 10372701   | 10372701    | 1        |
| 23  | Electric Box          | 20102701   | 20102701   | 20102701    | 1        |
| 24  | Wire Clamp            | 71010102   | 71010102   | 71010102    | 4        |
| 25  | Terminal Board        | 42011142   | 42011142   | 42011142    | 1        |
| 26  | relay                 | 44010206   | 44010206   | 44010206    | 1        |
| 27  | Transformer           | 43110170   | 43110170   | 43110170    | 1        |
| 28  | Electric Box Cover I  | 20102702   | 20102702   | 20102702    | 1        |
| 29  | Room sensor           | 39000110   | 39000110   | 39000110    | 1        |
| 30  | Remote Controller     | 30512506   | 30512506   | 30512506    | 1        |
| 31  | Electric Box Cover II | 20102703   | 20102703   | 20102703    | 1        |
| 32  | Main                  | 30225904   | 30225904   | 30225904    | 1        |
| 33  | Capacitor             | 33010026   | 33010010   | 33010010    | 1        |
| 34  | Drainage Plastic      | 06122702   | 06122702   | 06122702    | 1        |
| 35  | Evap Support          | 01072703   | 01072703   | 01072703    | 1        |
| 36  | Nut with Washer M6    | 70310012   | 70310012   | 70310012    | 1        |
| 37  | Fan Fixer             | 10312701   | 10312701   | 10312701    | 1        |
| 38  | Water Pump            | 43130324   | 43130324   | 43130324    | 1        |
| 39  | Pump Gasket           | 76712702   | 76712702   | 76712702    | 3        |
| 40  | Pump Support          | 01332702   | 01332702   | 01332702    | 1        |
| 41  | Water Level Switch    | 45010201   | 45010201   | 45010201    | 1        |
| 42  | Pump Drainpipe        | 05230026   | 05230026   | 05230026    | 1        |
| 43  | Right Side Plate      | 01302716   | 01302716   | 01302716    | 1        |
| 44  | Cable-cross Block     | 76512702   | 76512702   | 76512702    | 1        |
| 45  | Pump Cover Plate      | 01252713   | 01252713   | 01252713    | 1        |
| 46  | Bolt                  | 70212701   | 70212701   | 70212701    | 3        |

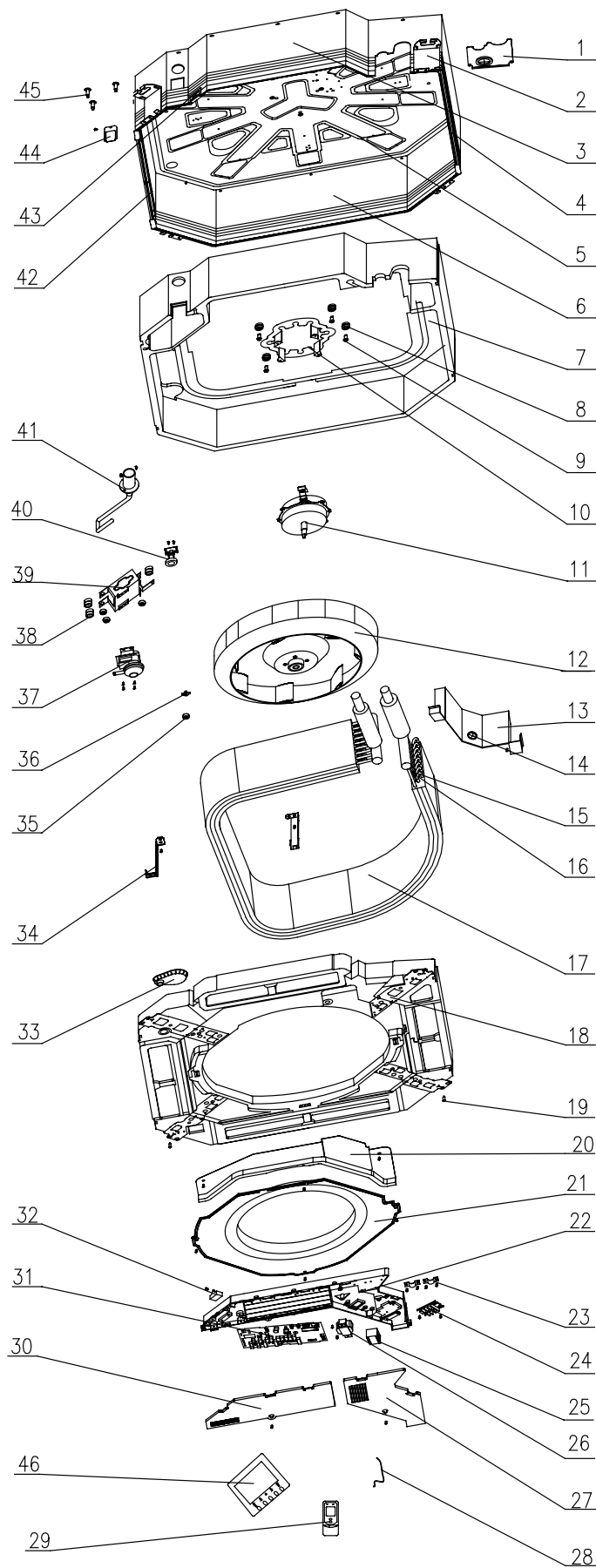
Above data is subject to change without notice,pls refer the SP in global service website.

| NO. | Discription           | FP-14XD-E  | FP-16XD-E  | FP-18XD-E  | Quantity |
|-----|-----------------------|------------|------------|------------|----------|
|     |                       | EM52000070 | EM52000080 | EM52000040 |          |
|     | Name of Parts         | Part Code  | Part Code  | Part Code  |          |
| 1   | Tube-exit Plate       | 02217102   | 02217102   | 02217102   | 1        |
| 2   | Body Fixing Plate     | 01332701   | 01332701   | 01332701   | 4        |
| 3   | Front Side Plate      | 01302713   | 01302713   | 01302713   | 1        |
| 4   | Left Side Plate       | 01302711   | 01302711   | 01302711   | 1        |
| 5   | Base Plate            | 01222732   | 01222732   | 01222732   | 1        |
| 6   | Rear Side Plate       | 01302709   | 01302709   | 01302709   | 1        |
| 7   | Bottom Foam           | 52012721   | 52012721   | 52012721   | 1        |
| 8   | Motor Gasket          | 76712711   | 76712711   | 76712711   | 4        |
| 9   | Bolt                  | 70210012   | 70210012   | 70210012   | 4        |
| 10  | Motor Support         | 01702701   | 01702701   | 01702701   | 1        |
| 11  | Motor FN50T           | 15012710   | 15012710   | 15012710   | 1        |
| 12  | Electric Heater       | 32002701   | 32002701   | 32002701   | 1        |
| 13  | Centrifugal Fan       | 10310101   | 10310101   | 10310101   | 1        |
| 14  | Evap Connection       | 01072735   | 01072735   | 01072735   | 1        |
| 15  | Cable-cross Loop      | 76515202   | 76515202   | 76515202   | 1        |
| 16  | Tube sensor           | 3900012125 | 3900012125 | 3900012125 | 1        |
| 17  | sensor insert B       | 42020063   | 42020063   | 42020063   | 1        |
| 18  | Heat exchanger        | 01187104   | 01187104   | 01187104   | 1        |
| 19  | Water Tray            | 20182701   | 20182701   | 20182701   | 1        |
| 20  | Screw                 | 70140032   | 70140032   | 70140032   | 4        |
| 21  | Electric Plate        | 01412721   | 01412721   | 01412721   | 1        |
| 22  | Flow-guide Loop       | 10372722   | 10372722   | 10372722   | 1        |
| 23  | Electric Box          | 20102701   | 20102701   | 20102701   | 1        |
| 24  | Wire Clamp            | 71010103   | 71010103   | 71010103   | 3        |
| 25  | Terminal Board        | 42011142   | 42011142   | 42011142   | 1        |
| 26  | relay                 | 44010206   | 44010206   | 44010206   | 1        |
| 27  | Transformer           | 43110170   | 43110170   | 43110170   | 1        |
| 28  | Electric Box Cover I  | 20102702   | 20102702   | 20102702   | 1        |
| 29  | Room sensor           | 39000110   | 39000110   | 39000110   | 1        |
| 30  | Remote Controller     | 30505004   | 30505004   | 30505004   | 1        |
| 31  | Electric Box Cover II | 20102703   | 20102703   | 20102703   | 1        |
| 32  | Main                  | 30225904   | 30225904   | 30225904   | 1        |
| 33  | Capacitor             | 33010010   | 33010013   | 33010012   | 1        |
| 34  | Drainage Plastic      | 06122702   | 06122702   | 06122702   | 1        |
| 35  | Evap Support          | 01072705   | 01072705   | 01072705   | 2        |
| 36  | Nut with Washer       | 70310012   | 70310012   | 70310012   | 1        |
| 37  | Fixer                 | 10312701   | 10312701   | 10312701   | 1        |
| 38  | Water Pump            | 43130324   | 43130324   | 43130324   | 1        |
| 39  | Pump Gasket           | 76712702   | 76712702   | 76712702   | 3        |
| 40  | Pump Support          | 01332721   | 01332721   | 01332721   | 1        |
| 41  | Water Level Switch    | 45010201   | 45010201   | 45010201   | 1        |
| 42  | Pump Drainpipe        | 05230026   | 05230026   | 05230026   | 1        |
| 43  | Right Side Plate      | 01302712   | 01302712   | 01302712   | 1        |
| 44  | Cable-cross Block     | 76512702   | 76512702   | 76512702   | 1        |
| 45  | Pump Cover Board      | 01252713   | 01252713   | 01252713   | 1        |
| 46  | Bolt                  | 70212701   | 70212701   | 70212701   | 3        |

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P-8XD/A-E; FP-10XD/A-E; FP-12.5XD/A-E; FP-14XD/A-E; FP-16XD/A-E; FP-18XD/A-E exploded views  
and spare parts list.



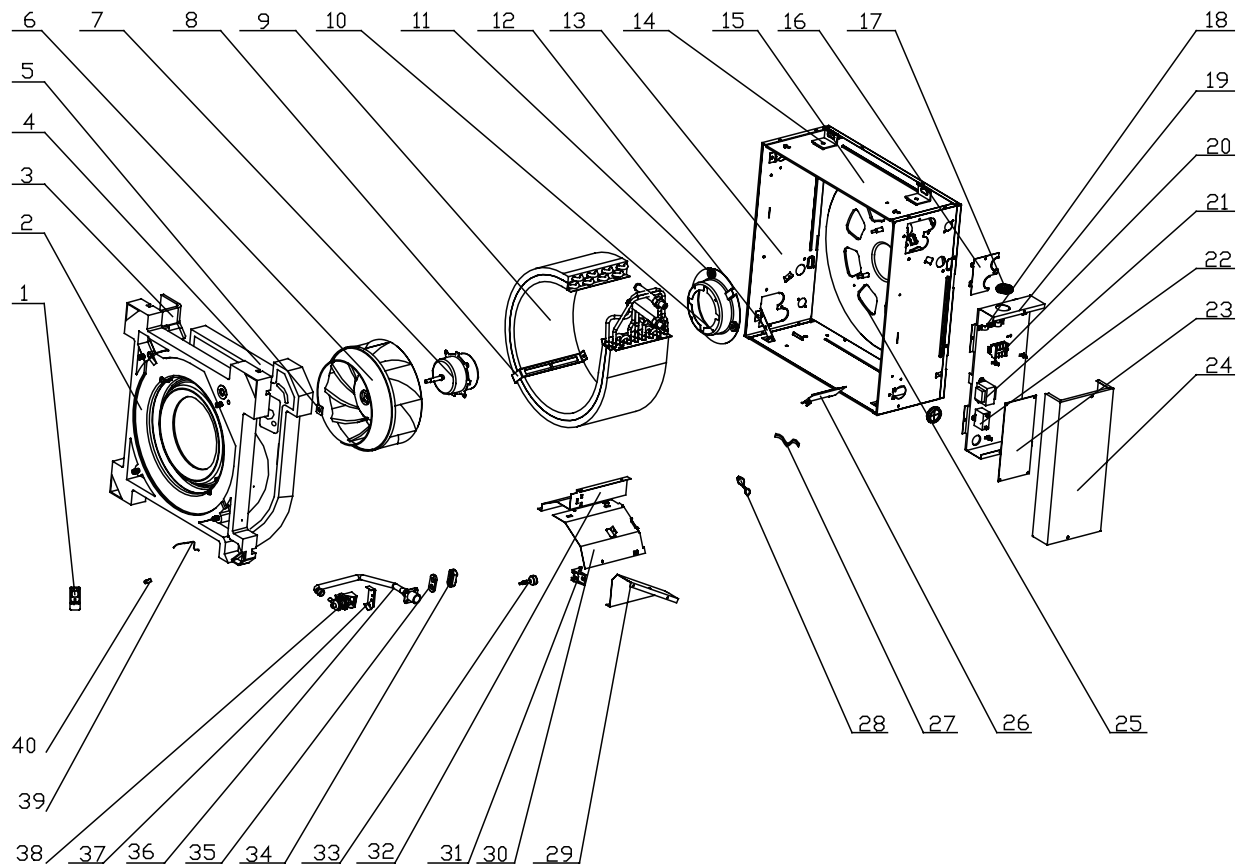
| NO. | Discription           | FP-8XD/A-E | FP-10XD/A-E | FP-12.5XD/A-E | Quantity |
|-----|-----------------------|------------|-------------|---------------|----------|
|     |                       | EM52000450 | EM52000460  | EM52000470    |          |
|     | Name of Parts         | Part Code  | Part Code   | Part Code     |          |
| 1   | Tube Exit plate       | 02217102   | 02217102    | 02217102      | 1        |
| 2   | Body Fixing Plate     | 01332701   | 01332701    | 01332701      | 4        |
| 3   | Front Side Plate      | 01302718   | 01302718    | 01302718      | 1        |
| 4   | Left Side Plate       | 01302715   | 01302715    | 01302715      | 1        |
| 5   | Base Plate            | 01222701   | 01222701    | 01222701      | 1        |
| 6   | Rear Side Plate       | 01302714   | 01302714    | 01302714      | 1        |
| 7   | Bottom Foam           | 52012722   | 52012722    | 52012722      | 1        |
| 8   | Motor Gasket          | 76712711   | 76712711    | 76712711      | 4        |
| 9   | Bolt M6               | 70212711   | 70210051    | 70210051      | 4        |
| 10  | Motor Support         | 01702701   | 01702701    | 01702701      | 1        |
| 11  | Motor FN35B           | 15012703   | 15012703    | 15012703      | 1        |
| 12  | Centifugal Fan        | 10312705   | 10312705    | 10312705      | 1        |
| 13  | Evaporator Linkage    | 01074042   | 01072710    | 01072710      | 1        |
| 14  | Cable-cross Loop      | 76515202   | 76513101    | 76513101      | 1        |
| 15  | Tube sensor           | 3900012125 | 3900012125G | 3900012125G   | 1        |
| 16  | sensor insert B       | 42020063   | 42020063    | 42020063      | 1        |
| 17  | Heat exchanger        | 01127104   | 01127104    | 01127104      | 1        |
| 18  | Water Tray Assy       | 20182701   | 20182701    | 20182701      | 1        |
| 19  | Rubber Stem           | 76712701   | 70140032    | 70140032      | 1        |
| 20  | Electric Base Plate   | 01412721   | 01412721    | 01412721      | 1        |
| 21  | Flow-guide Loop       | 10372701   | 10372701    | 10372701      | 1        |
| 22  | Electric Box          | 20102701   | 20102701    | 20102701      | 1        |
| 23  | Wire Clamp            | 71010102   | 71010102    | 71010102      | 4        |
| 24  | Terminal Board        | 42011142   | 42011142    | 42011142      | 1        |
| 25  | Transformer           | 43110233   | 43110233    | 43110233      | 1        |
| 26  | Electric Box Cover I  | 20102702   | 20102702    | 20102702      | 1        |
| 27  | Room sensor           | 39000111   | 390001911   | 390001911     | 1        |
| 28  | Remote Controller     | 305125063  | 305125063   | 305125063     | 1        |
| 29  | Electric Box Cover II | 20102703   | 20102703    | 20102703      | 1        |
| 30  | Main PCB              | 30225904   | 30225904    | 30225904      | 1        |
| 31  | Capacitor             | 33010026   | 33010010    | 33010010      | 1        |
| 32  | Drainage pipe         | 4367120    | 05230026    | 05230026      | 1        |
| 33  | Evap Support          | 01072703   | 01074042    | 01074042      | 1        |
| 34  | Nut with Washer       | 70310012   | 70310012    | 70310012      | 1        |
| 35  | Fan Fixer             | 10312701   | 10312701    | 10312701      | 1        |
| 36  | Water Pump            | 43130324   | 43130324    | 43130324      | 1        |
| 37  | Pump Gasket           | 76712702   | 76712702    | 76712702      | 3        |
| 38  | Pump Support          | 1329416    | 01332702    | 01332702      | 1        |
| 39  | Water Level Switch    | 45010201   | 45010201    | 45010201      | 1        |
| 40  | Pump Drainpipe        | 05230026   | 05230026    | 05230026      | 1        |
| 41  | Right Side Plate      | 01302716   | 01302716    | 01302716      | 1        |
| 42  | Cable-cross Block     | 76512702   | 76512702    | 76512702      | 1        |
| 43  | Pump Cover Plate      | 01252713   | 01252713    | 01252713      | 1        |
| 44  | Bolt                  | 70212701   | 70212711    | 70212711      | 3        |

Above data is subject to change without notice,pls refer the SP in global service website.

| NO. | Discription           | FP-14XD/A-E | FP-16XD/A-E | FP-18XD/A-E | Quantity |
|-----|-----------------------|-------------|-------------|-------------|----------|
|     |                       | EM52000480  | EM52000490  | EM5200500   |          |
|     | Name of Parts         | Part Code   | Part Code   | Part Code   |          |
| 1   | Tube-exit Plate       | 02217102    | 02217102    | 02217102    | 1        |
| 2   | Body Fixing Plate     | 01332701    | 01332701    | 01332701    | 4        |
| 3   | Front Side Plate      | 01302713    | 01302718    | 01302718    | 1        |
| 4   | Left Side Plate       | 01302711    | 01302715    | 01302715    | 1        |
| 5   | Base Plate            | 01222701    | 01222701    | 01222701    | 1        |
| 6   | Rear Side Plate       | 01302709    | 01302714    | 01302714    | 1        |
| 7   | Bottom Foam           | 52012721    | 52012722    | 52012722    | 1        |
| 8   | Motor Gasket          | 76712711    | 76712711    | 76712711    | 4        |
| 9   | Bolt                  | 70210051    | 70210051    | 70210051    | 4        |
| 10  | Motor Support         | 01702701    | 01702701    | 01702701    | 1        |
| 11  | Motor                 | 15012710    | 15012703    | 15012703    | 1        |
| 12  | Centifugal Fan        | 10310101    | 10312705    | 10312705    | 1        |
| 13  | Evap Connection       | 01072710    | 01072710    | 01072710    | 1        |
| 14  | Cable-cross Loop      | 76513101    | 76513101    | 76513101    | 1        |
| 15  | Tube sensor           | 3900012125G | 3900012125G | 3900012125G | 1        |
| 16  | sensor insert B       | 42020063    | 42020063    | 42020063    | 1        |
| 17  | Heat exchanger        | 01127102    | 01127104    | 01127104    | 1        |
| 18  | Water Tray            | 20182701    | 20182701    | 20182701    | 1        |
| 19  | Screw                 | 70140032    | 70140032    | 70140032    | 4        |
| 20  | Electric Plate        | 01412721    | 01412721    | 01412721    | 1        |
| 21  | Flow-guide Loop       | 10372722    | 10372701    | 10372701    | 1        |
| 22  | Electric Box          | 20102701    | 20102701    | 20102701    | 1        |
| 23  | Wire Clamp            | 71010102    | 71010102    | 71010102    | 3        |
| 24  | Terminal Board        | 42011142    | 42011142    | 42011142    | 1        |
| 25  | Transformer           | 43110233    | 43110233    | 43110233    | 1        |
| 26  | Electric Box Cover I  | 20102702    | 20102702    | 20102702    | 1        |
| 27  | Room sensor           | 390001911   | 390001911   | 390001911   | 1        |
| 28  | Remote Controller     | 305125063   | 305125063   | 305125063   | 1        |
| 29  | Electric Box Cover II | 20102703    | 20102703    | 20102703    | 1        |
| 30  | Main PCB              | 30225904    | 30225904    | 30225904    | 1        |
| 31  | Capacitor             | 33010026    | 33010012    | 33010012    | 1        |
| 32  | Drainage Plastic      | 05230026    | 05230026    | 05230026    | 1        |
| 33  | Evap Support          | 01072732    | 01074042    | 01074042    | 2        |
| 34  | Nut with Washer       | 70310012    | 70310012    | 70310012    | 1        |
| 35  | Fixer                 | 10312701    | 10312701    | 10312701    | 1        |
| 36  | Water Pump            | 43130324    | 43130324    | 43130324    | 1        |
| 37  | Pump Gasket           | 76712702    | 76712702    | 76712702    | 3        |
| 38  | Pump Support          | 01332721    | 01332702    | 01332702    | 1        |
| 39  | Water Level Switch    | 45010201    | 45010201    | 45010201    | 1        |
| 40  | Pump Drainpipe        | 05230026    | 05230026    | 05230026    | 1        |
| 41  | Right Side Plate      | 01302712    | 01302716    | 01302716    | 1        |
| 42  | Cable-cross Block     | 76512702    | 76512702    | 76512702    | 1        |
| 43  | Pump Cover Board      | 01252713    | 01252713    | 01252713    | 1        |
| 44  | Bolt                  | 70212711    | 70212711    | 70212711    | 3        |

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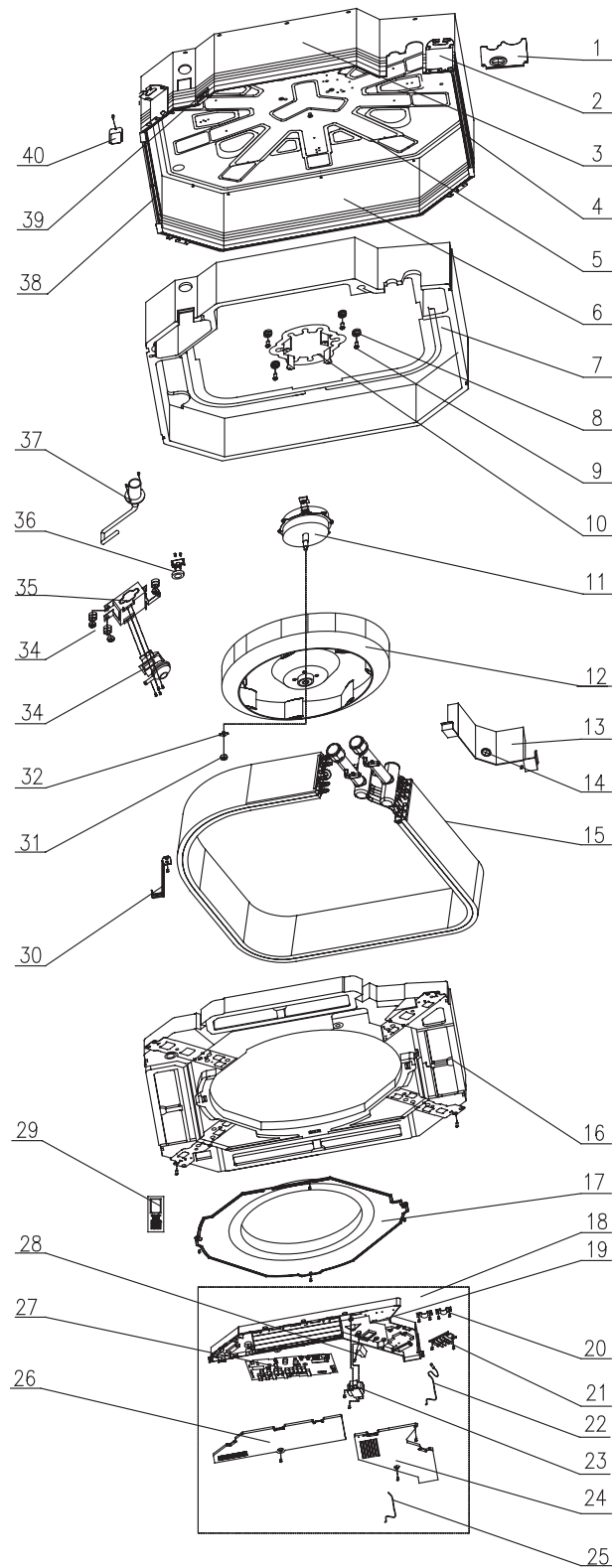
FP-51XD -E; FP-68XD -E exploded views and spare parts list.



| NO. | Discription                             | FP-51XD –E | FP-68XD –E | Quantity |
|-----|-----------------------------------------|------------|------------|----------|
|     |                                         | EM52000010 | EM52000020 |          |
|     | Name of Parts                           | Part Code  | Part Code  |          |
| 1   | Remote Controller                       | 30512506   | 30512506   | 1        |
| 2   | Water Tray                              | 20182703   | 20182703   | 1        |
| 3   | Water Tray Foam for Fresh Air In taking | 12312702   | 12312702   | 1        |
| 4   | Water Tray Foam                         | 12312703   | 12312703   | 1        |
| 5   | Fan Fixer                               | 76712709   | 76712709   | 1        |
| 6   | Centrifugal Fan                         | 10312702   | 10312702   | 1        |
| 7   | Motor                                   | 15012707   | 15012707   | 1        |
| 8   | Evap Support                            | 01072714   | 01072714   | 1        |
| 9   | Surface Air Cooler Assy                 | 01109501   | 01109501   | 1        |
| 10  | Motor Support                           | 01702702   | 01702702   | 1        |
| 11  | Motor Gasket                            | 76712705   | 76712705   | 4        |
| 12  | Water Tray support                      | 01332706   | 01332706   | 4        |
| 13  | Front Side Plate                        | 01302741   | 01302741   | 2        |
| 14  | Body Fixer                              | 01332705   | 01332705   | 4        |
| 15  | Right Side Plate                        | 01302743   | 01302743   | 2        |
| 16  | Tube-exit plate                         | 01382719   | 01382719   | 1        |
| 17  | Cable-cross Loop                        | 76512701   | 76512701   | 2        |
| 18  | Wire Clamp                              | 71010102   | 71010102   | 2        |
| 19  | Electric Box Assy                       | 01402705   | 01402705   | 1        |
| 20  | Terminal Board(5bit)                    | 42011142   | 42011142   | 1        |
| 21  | Transformer                             | 43110233   | 43110233   | 1        |
| 22  | Capacitor                               | 33010035   | 33010035   | 1        |
| 23  | Main PCB                                | 30225903   | 30225903   | 1        |
| 24  | Electric Box Cover                      | 01412723   | 01412723   | 1        |
| 25  | Base Plate                              | 01222712   | 01222712   | 1        |
| 26  | Cord Baffle Plate                       | 01362701   | 01362701   | 1        |
| 27  | Connecting Wire                         | 40030079   | 40030079   | 1        |
| 28  | Power Cord Assy                         | 40020203   | 40020203   | 1        |
| 29  | Left Baffle Plate                       | 01362703   | 01362703   | 1        |
| 30  | Evap Connection                         | 01072713   | 01072713   | 1        |
| 31  | Water Level Switch Support              | 24212705   | 24212705   | 1        |
| 32  | Right Baffle Plate                      | 01362702   | 01362702   | 1        |
| 33  | Water Level Switch                      | 450127011  | 450127011  | 1        |
| 34  | Pump Gasket 1                           | 76712707   | 76712707   | 1        |
| 35  | Pump Gasket 2                           | 76712708   | 76712708   | 1        |
| 36  | Pump Drainage                           | 05232722   | 05232722   | 1        |
| 37  | Pump Support                            | 01332707   | 01332707   | 1        |
| 38  | Water Pump                              | 43130320   | 43130320   | 1        |
| 39  | Room Sensor                             | 39000191   | 39000191   | 1        |
| 40  | Wire Clamp                              | 71010105   | 71010105   | 1        |

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FP-85XD/B-T; FP-102XD/B-T; FP-125XD/B-T; FP-140XD/B-T; FP-160XD/B-T; FP-180XD/B-T; FP-200XD/B-T  
exploded views and spare parts list.



| NO. | Discription           | FP-85XD/B-T           | FP-102XD/B-T          | Quantity |
|-----|-----------------------|-----------------------|-----------------------|----------|
|     |                       | EM520N0930/EM520N0940 | EM520N0910/EM520N0920 |          |
|     | Name of Parts         | Part Code             | Part Code             |          |
| 1   | Tube-exit Plate       |                       |                       | /        |
| 2   | Body Fixing Plate     | 01332701              | 01332701              | 4        |
| 3   | Front Side Plate      | 01302717              | 01302717              | 1        |
| 4   | Left Side Plate       | 01302740              | 01302740              | 1        |
| 5   | Base Plate            | 01222701              | 01222701              | 1        |
| 6   | Rear Side Plate       | 01302719              | 01302719              | 1        |
| 7   | Bottom Foam           | 52012720              | 52012720              | 1        |
| 8   | Motor Gasket          | 76712711              | 76712711              | 4        |
| 9   | Bolt                  | 70210051              | 70210051              | 4        |
| 10  | Motor Support         | 01702701              | 01702701              | 1        |
| 11  | Motor                 | 15704901              | 15704901              | 1        |
| 12  | Centifugal Fan        | 10312721              | 10312721              | 1        |
| 13  | Evap Connection       | 01072004              | 01072004              | 1        |
| 14  | Cable-cross Loop      | 76515202              | 76515202              | 1        |
| 15  | Heat exchanger        | 01126000042           | 01126000042           | 1        |
| 16  | Water Tray            | 20182701              | 20182701              | 1        |
| 17  | Flow-guide Loop       | 10372722              | 10372722              | 1        |
| 18  | Electric Box asm      | 01396000021           | 01396000025           | 1        |
| 19  | Electric Box          | 26909439              | 26909439              | 1        |
| 20  | Wire Clamp            | 71010102              | 71010102              | 2        |
| 21  | Terminal Board        | 42011221              | 42011221              | 1        |
| 22  | Tube sensor           | 390001982G            | 390001982G            | 1        |
| 23  | Transformer           | 4311022602            | 4311022602            | 1        |
| 24  | Electric Box Cover I  | 20102702              | 20102702              | 1        |
| 25  | Room sensor           | 390001912             | 390001912             | 1        |
| 26  | Electric Box Cover II | 20102703              | 20102703              | 1        |
| 27  | Main PCB              | 30226275              | 30226275              | 1        |
| 28  | Capacitor             | 3301074702            | 3301074711            | 1        |
| 29  | Remote Controller     | 30510516              | 30510516              | 1        |
| 30  | Evap Support          | 01072003              | 01072003              | 2        |
| 31  | Nut with Washer       | 70310012              | 70310012              | 3        |
| 32  | Fixer                 | 10312701              | 10312701              | 1        |
| 33  | Water Pump            | 43130324              | 43130324              | 1        |
| 34  | Pump Gasket           | 76712702              | 76712702              | 3        |
| 35  | Pump Support          | 01332001              | 01332001              | 1        |
| 36  | Water Level Switch    | 45018012              | 45018012              | 1        |
| 37  | Pump Drainpipe        | 05232721              | 05232721              | 1        |
| 38  | Right Side Plate      | 01302710              | 01302710              | 1        |
| 39  | Cable-cross Block     | 76512702              | 76512702              | 1        |
| 40  | Pump Cover Board      | 01252712              | 01252712              | 1        |

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| NO. | Discription           | FP-125XD/B-T          | FP-140XD/B-T         | FP-160XD/B-T          | Quantity |
|-----|-----------------------|-----------------------|----------------------|-----------------------|----------|
|     |                       | EM520N0890/EM520N0900 | EM520N0870EM520N0880 | EM520N0850/EM520N0860 |          |
|     | Name of Parts         | Part Code             | Part Code            | Part Code             |          |
| 1   | Tube-exit Plate       | 02206000001           | 02206000001          | 02206000001           | 1        |
| 2   | Body Fixing Plate     | 01332701              | 01332701             | 01332701              | 4        |
| 3   | Front Side Plate      | 01302718              | 01302718             | 01302718              | 1        |
| 4   | Left Side Plate       | 01302715              | 01302715             | 01302715              | 1        |
| 5   | Base Plate            | 52012722              | 52012722             | 52012722              | 1        |
| 6   | Rear Side Plate       | 01302714              | 01302714             | 01302714              | 1        |
| 7   | Bottom Foam           | 52012722              | 52012722             | 52012722              | 1        |
| 8   | Motor Gasket          | 76712711              | 76712711             | 76712711              | 4        |
| 9   | <u>Bolt</u>           | 70210051              | 70210051             | 70210051              | 4        |
| 10  | Motor Support         | 01702701              | 01702701             | 01702701              | 1        |
| 11  | Motor                 | 15704102              | 1570410202           | 1570410202            | 1        |
| 12  | Centifugal Fan        | 10312705              | 10312705             | 10312705              | 1        |
| 13  | Evap Connection       | 01072710              | 01072710             | 01072710              | 1        |
| 14  | Cable-cross Loop      | 76515202              | 76515202             | 76515202              | 1        |
| 15  | Heat exchanger        | 01126000030           | 01126000030          | 01126000044           | 1        |
| 16  | Water Tray            | 20182701              | 20182701             | 20182701              | 1        |
| 17  | Flow-guide Loop       | 10372722              | 10372722             | 10372722              | 1        |
| 18  | Electric Box asm      | 01396000019           | 01396000030          | 01396000025           | 1        |
| 19  | Electric Box          | 26909439              | 26909439             | 26909439              | 1        |
| 20  | Wire Clamp            | 71010102              | 71010102             | 71010102              | 2        |
| 21  | Terminal Board        | 42011221              | 42011221             | 42011221              | 1        |
| 22  | Tube sensor           | 390001982G            | 390001982G           | 390001982G            | 1        |
| 23  | Transformer           | 4311022602            | 4311022602           | 4311022602            | 1        |
| 24  | Electric Box Cover I  | 20102702              | 20102702             | 20102702              | 1        |
| 25  | Room sensor           | 390001912             | 390001912            | 390001912             | 1        |
| 26  | Electric Box Cover II | 20102703              | 20102703             | 20102703              | 1        |
| 27  | Main PCB              | 30226275              | 30226275             | 30226275              | 1        |
| 28  | Capacitor             | 3301074702            | 33010011             | 3301074711            | 1        |
| 29  | Remote Controller     | 30510516              | 30510516             | 30510516              | 1        |
| 30  | Evap Support          | 01072715              | 01072715             | 01072715              | 2        |
| 31  | Nut with Washer       | 70310012              | 70310012             | 70310012              | 1        |
| 32  | Fixer                 | 10312701              | 10312701             | 10312701              | 1        |
| 33  | Water Pump            | 43130324              | 43130324             | 43130324              | 1        |
| 34  | Pump Gasket           | 76712702              | 76712702             | 76712702              | 3        |
| 35  | Pump Support          | 01329416              | 01329416             | 01329416              | 1        |
| 36  | Water Level Switch    | 45018012              | 45018012             | 45018012              | 1        |
| 37  | Pump Drainpipe        | 05230026              | 05230026             | 05230026              | 1        |
| 38  | Right Side Plate      | 01302716              | 01302716             | 01302716              | 1        |
| 39  | Cable-cross Block     | 76512702              | 76512702             | 76512702              | 1        |
| 40  | Pump Cover Board      | 01252713              | 01252713             | 01252713              | 1        |

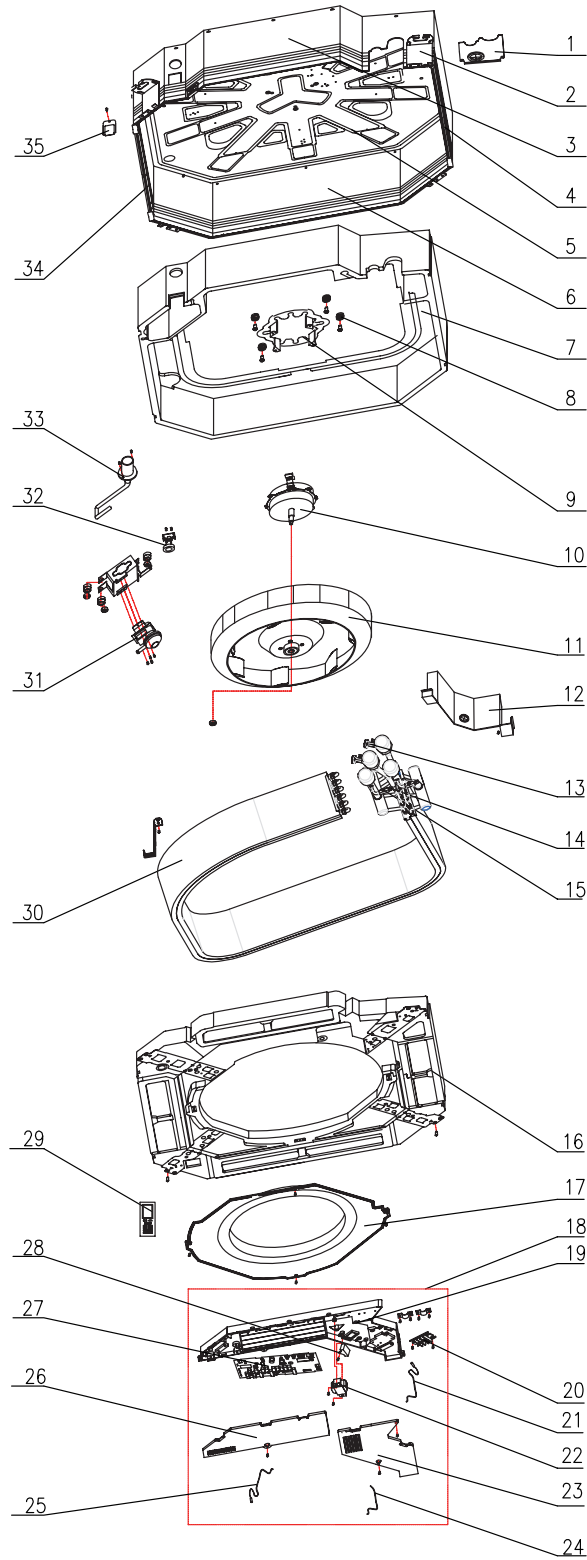
Above data is subject to change without notice,pls refer the SP in global service website.



| NO. | Discription           | FP-160XD/B-T          | FP-200XD/B-T          | Quantity |
|-----|-----------------------|-----------------------|-----------------------|----------|
|     |                       | EM520N0830/EM520N0840 | EM520N0810/EM520N0820 |          |
|     | Name of Parts         | Part Code             | Part Code             |          |
| 1   | Tube-exit Plate       | 02206000001           | 02206000001           | 1        |
| 2   | Body Fixing Plate     | 01332701              | 01332701              | 4        |
| 3   | Front Side Plate      | 01302713              | 01302713              | 1        |
| 4   | Left Side Plate       | 01302711              | 01302711              | 1        |
| 5   | Base Plate            | 01222701              | 01222701              | 1        |
| 6   | Rear Side Plate       | 01302709              | 01302709              | 1        |
| 7   | Bottom Foam           | 52012721              | 52012721              | 1        |
| 8   | Motor Gasket          | 76712711              | 76712711              | 4        |
| 9   | Bolt                  | 70210051              | 70210051              | 4        |
| 10  | Motor Support         | 01702701              | 01702701              | 1        |
| 11  | Motor                 | 1570490301            | 1570490301            | 1        |
| 12  | Centifugal Fan        | 26904115              | 26904115              | 1        |
| 13  | Evap Connection       | 01072733              | 01072733              | 1        |
| 14  | Cable-cross Loop      | 76515202              | 76515202              | 1        |
| 15  | Heat exchanger        | 01126000043           | 01126000043           | 1        |
| 16  | Water Tray            | 20182701              | 20182701              | 1        |
| 17  | Flow-guide Loop       | 10372722              | 10372722              | 1        |
| 18  | Electric Box asm      | 01396000019           | 01396000025           | 1        |
| 19  | Electric Box          | 26909439              | 26909439              | 1        |
| 20  | Wire Clamp            | 71010102              | 71010102              | 2        |
| 21  | Terminal Board        | 42011221              | 42011221              | 1        |
| 22  | Tube Sensor           | 390001982G            | 390001982G            | 1        |
| 23  | Transformer           | 4311022602            | 4311022602            | 1        |
| 24  | Electric Box Cover I  | 20102702              | 20102702              | 1        |
| 25  | Room sensor           | 390001912             | 390001912             | 1        |
| 26  | Electric Box Cover II | 20102703              | 20102703              | 1        |
| 27  | Main PCB              | 30226275              | 30226275              | 1        |
| 28  | Capacitor             | 3301074711            | 3301074711            | 1        |
| 29  | Remote Controller     | 30510516              | 30510516              | 1        |
| 30  | Evap Support          | 01072708              | 01072708              | 2        |
| 31  | Nut with Washer       | 70310012              | 70310012              | 1        |
| 32  | Fixer                 | 10312701              | 10312701              | 1        |
| 33  | Water Pump            | 43130324              | 43130324              | 1        |
| 34  | Pump Gasket           | 76712702              | 76712702              | 3        |
| 35  | Pump Support          | 01332721              | 01332721              | 1        |
| 36  | Water Level Switch    | 45018012              | 45018012              | 1        |
| 37  | Pump Drainpipe        | 05230026              | 05230026              | 1        |
| 38  | Right Side Plate      | 01302712              | 01302712              | 1        |
| 39  | Cable-cross Block     | 76512702              | 76512702              | 1        |
| 40  | Pump Cover Board      | 01252713              | 01252713              | 1        |

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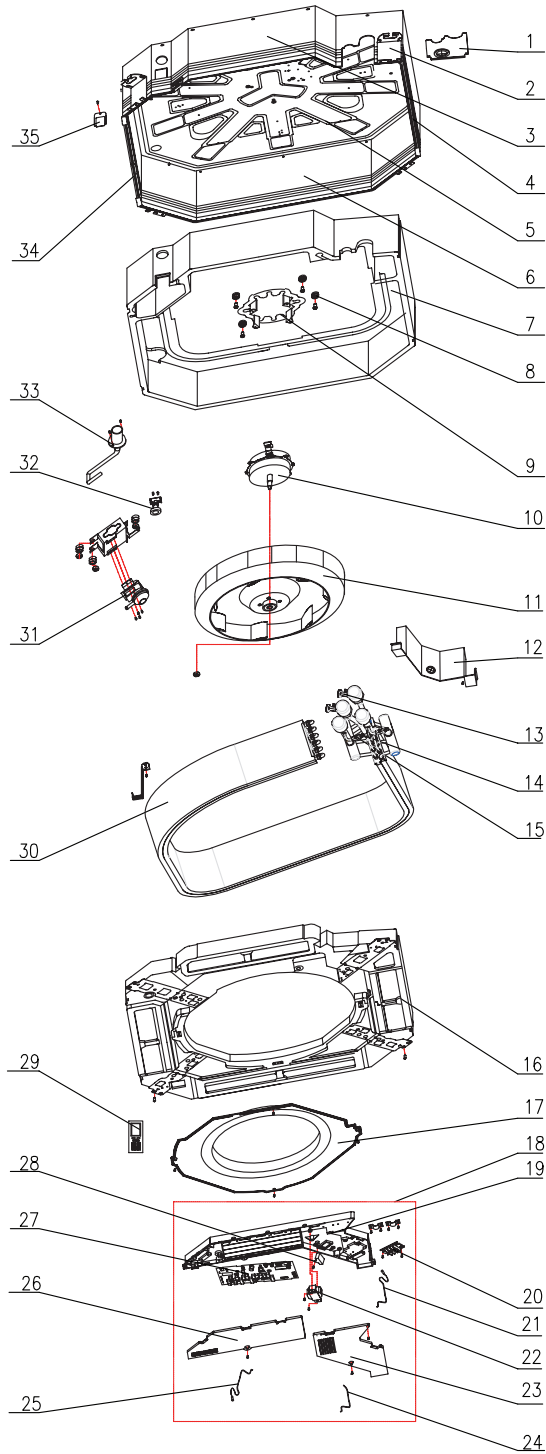
FP-68XDT/B-K exploded views and spare parts list.



| NO. | Discription                     | FP-68XDT/B-K  | Quantity |
|-----|---------------------------------|---------------|----------|
|     |                                 | EM520N0990    |          |
|     | Name of Parts                   | Part Code     |          |
| 1   | Tube Exit Plate Assy            | 01346000095   | 1        |
| 2   | Body Fixing Plate               | 01332701      | 4        |
| 3   | Front Side Plate                | 01302717      | 1        |
| 4   | Left Side Plate                 | 01302740      | 1        |
| 5   | Base Plate                      | 01222701      | 1        |
| 6   | Rear Side Plate                 | 01302719      | 1        |
| 7   | Bottom Foam                     | 52012720      | 1        |
| 8   | Motor Gasket                    | 76712711      | 4        |
| 9   | Motor Support                   | 01702701      | 1        |
| 10  | Motor                           | 15704901      | 1        |
| 11  | Centifugal Fan                  | 10312721      | 1        |
| 12  | Evap Connection                 | 01072004      | 1        |
| 13  | Deflation Valve                 | 07108206      | 2        |
| 14  | Valve chest (air release valve) | 07336000028   | 2        |
| 15  | Valve chest (air release valve) | 0733600001501 | 2        |
| 16  | Water Tray                      | 20182701      | 1        |
| 17  | Flow-guide Loop                 | 0372701       | 1        |
| 18  | Electric Box asm                | 1396000868    | 1        |
| 19  | Electric Box                    | 26909439      | 1        |
| 20  | Terminal Board                  | 42011221      | 1        |
| 21  | Tube sensor                     | 390001982G    | 1        |
| 22  | Transformer                     | 4311022602    | 1        |
| 23  | Electric Box Cover I            | 20102702      | 1        |
| 24  | Room sensor                     | 390001912     | 1        |
| 25  | Tube sensor                     | 3900028807    | 1        |
| 26  | Electric Box Cover II           | 20102703      | 1        |
| 27  | Main PCB                        | 30226275      | 1        |
| 28  | Capacitor                       | 3301074711    | 1        |
| 29  | Remote Controller               | 30510516      | 1        |
| 30  | Heat exchanger                  | 01126000562   | 1        |
| 31  | Water Pump                      | 43130324      | 1        |
| 32  | Water Level Switch              | 45018012      | 1        |
| 33  | Pump Drainpipe                  | 05232721      | 1        |
| 34  | Right Side Plate                | 01302710      | 1        |
| 35  | Pump Cover Board                | 01252712      | 1        |

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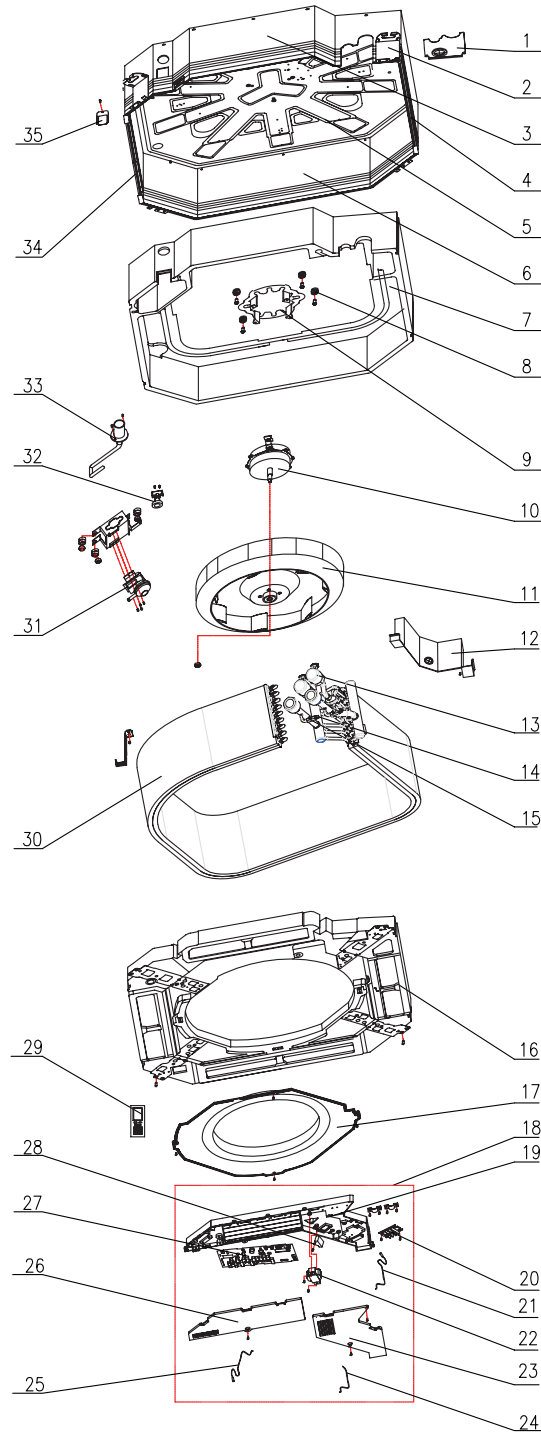
FP-85XDT/B-K exploded views and spare parts list.



| NO. | Discription                     | FP-85XDT/B-K  | Quantity |
|-----|---------------------------------|---------------|----------|
|     |                                 | EM520N0960    |          |
|     | Name of Parts                   | Part Code     |          |
| 1   | Tube Exit Plate Assy            | 01346000095   | 1        |
| 2   | Body Fixing Plate               | 01332701      | 4        |
| 3   | Front Side Plate                | 01302717      | 1        |
| 4   | Left Side Plate                 | 01302740      | 1        |
| 5   | Base Plate                      | 01222701      | 1        |
| 6   | Rear Side Plate                 | 01302719      | 1        |
| 7   | Bottom Foam                     | 52012720      | 1        |
| 8   | Motor Gasket                    | 76712711      | 4        |
| 9   | Motor Support                   | 01702701      | 1        |
| 10  | Motor                           | 15704901      | 1        |
| 11  | Centifugal Fan                  | 10312721      | 1        |
| 12  | Evap Connection                 | 01072004      | 1        |
| 13  | Deflation Valve                 | 07108206      | 2        |
| 14  | Valve chest (air release valve) | 07336000028   | 2        |
| 15  | Valve chest (air release valve) | 0733600001501 | 2        |
| 16  | Water Tray                      | 20182701      | 1        |
| 17  | Flow-guide Loop                 | 0372701       | 1        |
| 18  | Electric Box asm                | 1396000868    | 1        |
| 19  | Electric Box                    | 26909439      | 1        |
| 20  | Terminal Board                  | 42011221      | 1        |
| 21  | Tube sensor                     | 390001982G    | 1        |
| 22  | Transformer                     | 4311022602    | 1        |
| 23  | Electric Box Cover I            | 20102702      | 1        |
| 24  | Room sensor                     | 390001912     | 1        |
| 25  | Tube sensor                     | 3900028807    | 1        |
| 26  | Electric Box Cover II           | 20102703      | 1        |
| 27  | Main PCB                        | 30226275      | 1        |
| 28  | Capacitor                       | 3301074711    | 1        |
| 29  | Remote Controller               | 30510516      | 1        |
| 30  | Heat exchanger                  | 01126000562   | 1        |
| 31  | Water Pump                      | 43130324      | 1        |
| 32  | Water Level Switch              | 45018012      | 1        |
| 33  | Pump Drainpipe                  | 05232721      | 1        |
| 34  | Right Side Plate                | 01302710      | 1        |
| 35  | Pump Cover Board                | 01252712      | 1        |

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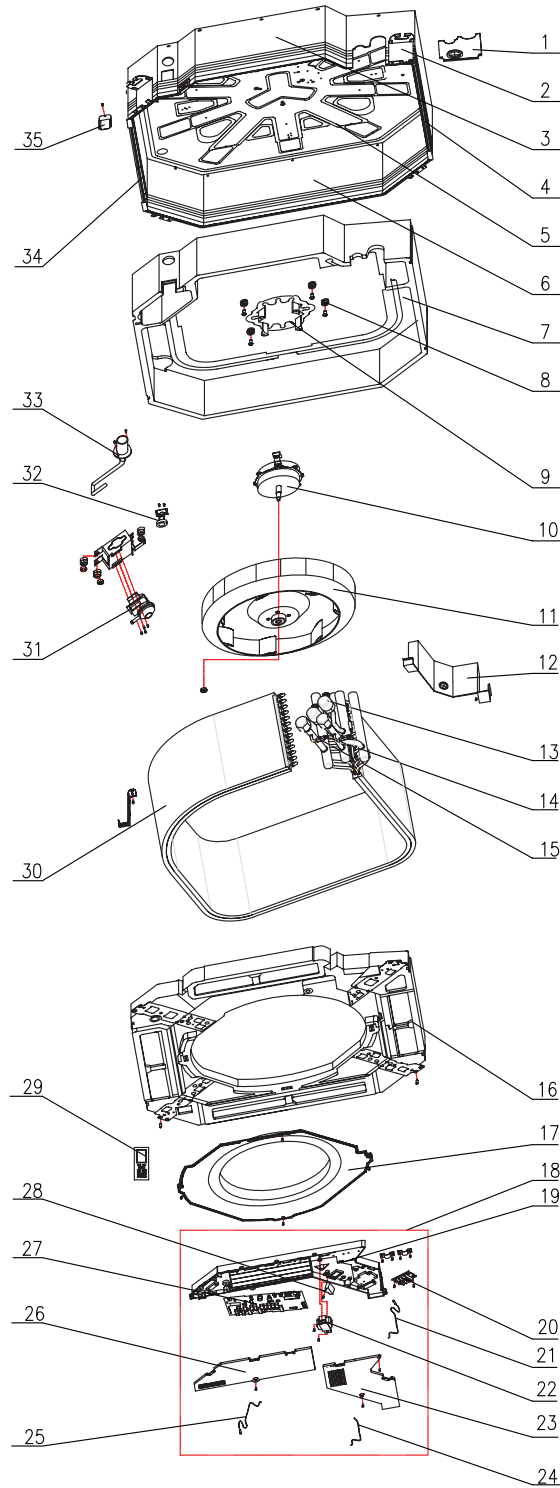
FP-125XDT/B-K exploded views and spare parts list.



| NO. | Discription                     | FP-125XDT/B-K | Quantity |
|-----|---------------------------------|---------------|----------|
|     |                                 | EM520N0970    |          |
|     | Name of Parts                   | Part Code     |          |
| 1   | Tube Exit Plate Assy            | 01346000094   | 1        |
| 2   | Body Fixing Plate               | 01332701      | 4        |
| 3   | Front Side Plate                | 01302718      | 1        |
| 4   | Left Side Plate                 | 01302715      | 1        |
| 5   | Base Plate                      | 01222701      | 1        |
| 6   | Rear Side Plate                 | 01302714      | 1        |
| 7   | Bottom Foam                     | 52012722      | 1        |
| 8   | Motor Gasket                    | 76712711      | 4        |
| 9   | Motor Support                   | 01702701      | 1        |
| 10  | Motor                           | 15704102      | 1        |
| 11  | Centifugal Fan                  | 10312705      | 1        |
| 12  | Evap Connection                 | 01072710      | 1        |
| 13  | Deflation Valve                 | 07108206      | 2        |
| 14  | Valve chest (air release valve) | 07336000028   | 2        |
| 15  | Valve chest (air release valve) | 0733600001501 | 2        |
| 16  | Water Tray                      | 20182701      | 1        |
| 17  | Flow-guide Loop                 | 10372722      | 1        |
| 18  | Electric Box asm                | 01396000870   | 1        |
| 19  | Electric Box                    | 26909439      | 1        |
| 20  | Terminal Board                  | 42011221      | 1        |
| 21  | Tube sensor                     | 390001982G    | 1        |
| 22  | Transformer                     | 4311022602    | 1        |
| 23  | Electric Box Cover I            | 20102702      | 1        |
| 24  | Room sensor                     | 390001912     | 1        |
| 25  | Tube sensor                     | 3900028807    | 1        |
| 26  | Electric Box Cover II           | 20102703      | 1        |
| 27  | Main PCB                        | 30226275      | 1        |
| 28  | Capacitor                       | 3301074711    | 1        |
| 29  | Remote Controller               | 30510516      | 1        |
| 30  | Heat exchanger                  | 01126000560   | 1        |
| 31  | Water Pump                      | 43130324      | 1        |
| 32  | Water Level Switch              | 45018012      | 1        |
| 33  | Pump Drainpipe                  | 05230026      | 1        |
| 34  | Right Side Plate                | 01302716      | 1        |
| 35  | Pump Cover Board                | 01252713      | 1        |

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FP-180XDT/B-K exploded views and spare parts list.





| NO. | Discription                     | FP-180XDT/B-K | Quantity |
|-----|---------------------------------|---------------|----------|
|     |                                 | EM520N0980    |          |
|     | Name of Parts                   | Part Code     |          |
| 1   | Tube Exit Plate Assy            | 01346000094   | 1        |
| 2   | Body Fixing Plate               | 01332701      | 4        |
| 3   | Front Side Plate                | 01302713      | 1        |
| 4   | Left Side Plate                 | 01302711      | 1        |
| 5   | Base Plate                      | 01222701      | 1        |
| 6   | Rear Side Plate                 | 01302709      | 1        |
| 7   | Bottom Foam                     | 52012721      | 1        |
| 8   | Motor Gasket                    | 76712711      | 4        |
| 9   | Motor Support                   | 01702701      | 1        |
| 10  | Motor                           | 15704903      | 1        |
| 11  | Centifugal Fan                  | 26904115      | 1        |
| 12  | Evap Connection                 | 01072733      | 1        |
| 13  | Deflation Valve                 | 07108206      | 2        |
| 14  | Valve chest (air release valve) | 07336000028   | 2        |
| 15  | Valve chest (air release valve) | 0733600001501 | 2        |
| 16  | Water Tray                      | 20182701      | 1        |
| 17  | Flow-guide Loop                 | 10372722      | 1        |
| 18  | Electric Box asm                | 01396000870   | 1        |
| 19  | Electric Box                    | 26909439      | 1        |
| 20  | Terminal Board                  | 42011221      | 1        |
| 21  | Tube sensor                     | 390001982G    | 1        |
| 22  | Transformer                     | 4311022602    | 1        |
| 23  | Electric Box Cover I            | 20102702      | 1        |
| 24  | Room sensor                     | 390001912     | 1        |
| 25  | Tube sensor                     | 3900028807    | 1        |
| 26  | Electric Box Cover II           | 20102703      | 1        |
| 27  | Main PCB                        | 30226275      | 1        |
| 28  | Capacitor                       | 3301074711    | 1        |
| 29  | Remote Controller               | 30510516      | 1        |
| 30  | Heat exchanger                  | 01126000560   | 1        |
| 31  | Water Pump                      | 43130324      | 1        |
| 32  | Water Level Switch              | 45018012      | 1        |
| 33  | Pump Drainpipe                  | 05230026      | 1        |
| 34  | Right Side Plate                | 01302712      | 1        |
| 35  | Pump Cover Board                | 01252713      | 1        |

Above data is subject to change without notice,pls refer the SP in global service website.



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

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070

Tel: (+86-756) 8522218 Fax: (+86-756) 8669426

E-mail: [gree@gree.com.cn](mailto:gree@gree.com.cn) [www.gree.com](http://www.gree.com)

For continuous improvement in the products, Gree reserves the right to modify the product specification and appearance in this manual without notice and without incurring any obligations.