



# HIGH ESP DUCT TECHNICAL MANUAL

## AC SYSTEM

220-240V/60Hz

### INDOOR UNITS

Revision V 2304



### Model Numbers:

CC-CAH024-1S, CC-CAH028-1S, CC-CAH030-1S, CC-CAH034-1S, CC-CAH040-1S, CC-CAH050-1S  
CC-CAH070-1S, CC-CAH085-1S, CC-CAH096-1S, CC-CAH120-1S, CC-CAH180-1S

### WARNING

- Installation MUST conform with local building codes or, in the absence of local codes, with the National Electrical Code NFPA70/ANSI C1-1993 or current edition and Canadian Electrical Code Part1 CSA C.22.1.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments
- Installation or repairs made by unqualified persons can result in hazards to you and others.  
Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

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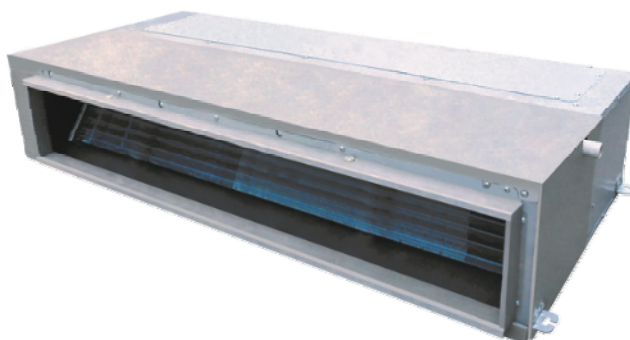
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3. Dimensions
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5. Piping diagram
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## 1. External appearance

- CC-CAH024-1S, CC-CAH028-1S, CC-CAH030-1S



- CC-CAH034-1S, CC-CAH040-1S, CC-CAH050-1S



- CC-CAH070-1S, CC-CAH085-1S, CC-CAH096-1S



- 
- CC-CAH120-1S, CC-CAH180-1S



## 2. Specifications

| Model                                |                        |       | CC-CCAH024-1S                                  | CC-CCAH028-1S                                  | CC-CCAH030-1S                                  |
|--------------------------------------|------------------------|-------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| Power supply                         |                        |       | 220-240V/1PH/60Hz                              | 220-240V/1PH/60Hz                              | 220-240V/1PH/60Hz                              |
| Capacity                             | Cooling                | kW    | 7.1                                            | 8                                              | 9                                              |
|                                      | Heating                | kW    | 7.8                                            | 8.8                                            | 10.0                                           |
| Power Input                          |                        | kW    | 0.34                                           | 0.34                                           | 0.34                                           |
| Fan motor                            | Model                  |       | YSK120-150F-4P2H105-1<br>YDK110-75F-4P2H105L-1 | YSK120-150F-4P2H105-1<br>YDK110-75F-4P2H105L-1 | YSK120-150F-4P2H105-1<br>YDK110-75F-4P2H105L-1 |
|                                      | Type                   |       | AC                                             | AC                                             | AC                                             |
|                                      | Brand                  |       | Kangbao                                        | Kangbao                                        | Kangbao                                        |
|                                      | Capacitor              | μF    | 4+6                                            | 4+6                                            | 4+6                                            |
|                                      | Speed (Hi/Med/Low)     | r/min | 1430/1330/1280<br>1430/1280/1200               | 1430/1330/1280<br>1430/1280/1200               | 1430/1330/1280<br>1430/1280/1200               |
|                                      | ESP                    | Pa    | 150                                            | 150                                            | 150                                            |
| Indoor coil                          | Number of rows         |       | 3                                              | 3                                              | 3                                              |
|                                      | Fin type               |       | Hydrophilic aluminum                           | Hydrophilic aluminum                           | Hydrophilic aluminum                           |
|                                      | Tube diameter and type | mm    | Ø7.94, Innergroove tube                        | Ø7.94, Innergroove tube                        | Ø7.94, Innergroove tube                        |
| Air flow (High speed)                |                        | m³/h  | 1500                                           | 1500                                           | 1500                                           |
| Sound power level                    |                        | dB(A) | 40~42                                          | 40~42                                          | 40~42                                          |
| Body                                 | Dimension (W×H×D)      | mm    | 1445×260×680                                   | 1445×260×680                                   | 1445×260×680                                   |
|                                      | Packing (W×H×D)        | mm    | 1490×325×720                                   | 1490×325×720                                   | 1490×325×720                                   |
|                                      | Net/Gross weight       | kg    | 46/50                                          | 46/50                                          | 46/50                                          |
| Refrigerant type                     |                        |       | R410A                                          | R410A                                          | R410A                                          |
| Throttle type                        |                        |       | EXV                                            | EXV                                            | EXV                                            |
| Design pressure                      |                        | MPa   | 4.5                                            | 4.5                                            | 4.5                                            |
| Liquid pipe / Gas pipe               |                        | mm    | Ø9.53/ Ø15.9                                   | Ø9.53/ Ø15.9                                   | Ø9.53/ Ø15.9                                   |
| Connecting wire                      | Power wire             | mm²   | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m)         | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m)         | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m)         |
|                                      | Signal wire            | mm²   | 0.75*2 shield                                  | 0.75*2 shield                                  | 0.75*2 shield                                  |
| Drainage water pipe (Outer diameter) |                        | mm    | Ø25                                            | Ø25                                            | Ø25                                            |
| Controller                           | Standard               |       | Wired controller                               | Wired controller                               | Wired controller                               |
|                                      | Optional               |       | Remote controller                              | Remote controller                              | Remote controller                              |
| Operation temp                       |                        | °C    | 16~32                                          | 16~32                                          | 16~32                                          |

### Notes:

1) Nominal cooling capacities are based on the following conditions.

- Outdoor temperature: 35°C DB
- Return air temperature: 27°C DB, 19°C WB
- Equivalent piping length: 8m in horizontal

2) Nominal heating capacities are based on the following condition.

- Outdoor temperature: 7°C DB, 6°C WB
- Return air temperature: 20°C DB
- Equivalent piping length: 8m in horizontal

3) Sound pressure level: Semi-anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.4 m.

4) The above data may be changed without notice for future improvement on quality and performance.

| Model                                |                        |       | CC-CAH034-1S                           | CC-CAH040-1S                           | CC-CAH050-1S                           |
|--------------------------------------|------------------------|-------|----------------------------------------|----------------------------------------|----------------------------------------|
| Power supply                         |                        |       | 220-240V/1PH/60Hz                      | 220-240V/1PH/60Hz                      | 220-240V/1PH/60Hz                      |
| Capacity                             | Cooling                | kW    | 10                                     | 12                                     | 15                                     |
|                                      | Heating                | kW    | 11.0                                   | 13.0                                   | 17.0                                   |
| Power Input                          |                        | kW    | 0.45                                   | 0.45                                   | 0.45                                   |
| Fan motor                            | Model                  |       | YSK139-300F-4P2H95                     | YSK139-300F-4P2H95                     | YSK139-300F-4P2H95                     |
|                                      | Type                   |       | AC                                     | AC                                     | AC                                     |
|                                      | Brand                  |       | Kangbao                                | Kangbao                                | Kangbao                                |
|                                      | Capacitor              | μF    | 15                                     | 15                                     | 15                                     |
|                                      | Speed (Hi/Med/Low)     | r/min | 1050/900/800                           | 1050/900/800                           | 1050/900/800                           |
|                                      | ESP                    | Pa    | 150                                    | 150                                    | 150                                    |
| Indoor coil                          | Number of rows         |       | 3                                      | 3                                      | 3                                      |
|                                      | Fin type               |       | Hydrophilic aluminum                   | Hydrophilic aluminum                   | Hydrophilic aluminum                   |
|                                      | Tube diameter and type | mm    | Ø7.94, Innergroove tube                | Ø7.94, Innergroove tube                | Ø7.94, Innergroove tube                |
| Air flow (High speed)                |                        | m³/h  | 2300                                   | 2300                                   | 2300                                   |
| Sound power level                    |                        | dB(A) | 44~52                                  | 44~52                                  | 44~52                                  |
| Body                                 | Dimension (W×H×D)      | mm    | 1190×370×620                           | 1190×370×620                           | 1190×370×620                           |
|                                      | Packing (W×H×D)        | mm    | 1245×445×655                           | 1245×445×655                           | 1245×445×655                           |
|                                      | Net/Gross weight       | kg    | 47/51                                  | 47/51                                  | 47/51                                  |
| Refrigerant type                     |                        |       | R410A                                  | R410A                                  | R410A                                  |
| Throttle type                        |                        |       | EXV                                    | EXV                                    | EXV                                    |
| Design pressure                      |                        | MPa   | 4.5                                    | 4.5                                    | 4.5                                    |
| Liquid pipe / Gas pipe               |                        | mm    | Ø9.53/ Ø15.9                           | Ø9.53/ Ø15.9                           | Ø9.53/ Ø15.9                           |
| Connecting wire                      | Power wire             | mm²   | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m) | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m) | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m) |
|                                      | Signal wire            | mm²   | 0.75*2 shield                          | 0.75*2 shield                          | 0.75*2 shield                          |
| Drainage water pipe (Outer diameter) |                        | mm    | Ø25                                    | Ø25                                    | Ø25                                    |
| Controller                           | Standard               |       | Wired controller                       | Wired controller                       | Wired controller                       |
|                                      | Optional               |       | Remote controller                      | Remote controller                      | Remote controller                      |
| Operation temp                       |                        | °C    | 16~32                                  | 16~32                                  | 16~32                                  |

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1) Nominal cooling capacities are based on the following conditions.

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2) Nominal heating capacities are based on the following condition.

- Outdoor temperature: 7°C DB, 6°C WB
- Return air temperature: 20°C DB
- Equivalent piping length: 8m in horizontal

3) Sound pressure level: Semi-anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.4 m.

4) The above data may be changed without notice for future improvement on quality and performance.

| Model                                |                        |       | CC-CCAH070-1S                          | CC-CCAH085-1S                          | CC-CCAH096-1S                          |
|--------------------------------------|------------------------|-------|----------------------------------------|----------------------------------------|----------------------------------------|
| Power supply                         |                        |       | 220-240V/1PH/60Hz                      | 220-240V/1PH/60Hz                      | 220-240V/1PH/60Hz                      |
| Capacity                             | Cooling                | kW    | 20                                     | 25                                     | 28                                     |
|                                      | Heating                | kW    | 22.0                                   | 27.5                                   | 30.8                                   |
| Power Input                          |                        | kW    | 1.2                                    | 1.2                                    | 1.2                                    |
| Fan motor                            | Model                  |       | YDK-300F-4P2 *2                        | YDK-300F-4P2 *2                        | YDK-300F-4P2 *2                        |
|                                      | Type                   |       | AC                                     | AC                                     | AC                                     |
|                                      | Brand                  |       | Yongan                                 | Yongan                                 | Yongan                                 |
|                                      | Capacitor              | μF    | 15+15                                  | 15+15                                  | 15+15                                  |
|                                      | Speed (Hi/Med/Low)     | r/min | 1030/900/800                           | 1030/900/800                           | 1030/900/800                           |
|                                      | ESP                    | Pa    | 150                                    | 150                                    | 150                                    |
| Indoor coil                          | Number of rows         |       | 4                                      | 4                                      | 4                                      |
|                                      | Fin type               |       | Hydrophilic aluminum                   | Hydrophilic aluminum                   | Hydrophilic aluminum                   |
|                                      | Tube diameter and type | mm    | Ø9.52, Innergroove tube                | Ø9.52, Innergroove tube                | Ø9.52, Innergroove tube                |
| Air flow (High speed)                |                        | m³/h  | 4000                                   | 4200                                   | 4400                                   |
| Sound power level                    |                        | dB(A) | 45~53                                  | 45~54                                  | 45~55                                  |
| Body                                 | Dimension (W×H×D)      | mm    | 1465×448×811                           | 1465×448×811                           | 1465×448×811                           |
|                                      | Packing (W×H×D)        | mm    | 1510×580×870                           | 1510×580×870                           | 1510×580×870                           |
|                                      | Net/Gross weight       | kg    | 102/113                                | 102/113                                | 102/113                                |
| Refrigerant type                     |                        |       | R410A                                  | R410A                                  | R410A                                  |
| Throttle type                        |                        |       | EXV                                    | EXV                                    | EXV                                    |
| Design pressure                      |                        | MPa   | 4.5                                    | 4.5                                    | 4.5                                    |
| Liquid pipe / Gas pipe               |                        | mm    | Ø12.7/Ø22.2                            | Ø12.7/Ø22.2                            | Ø12.7/Ø22.2                            |
| Connecting wire                      | Power wire             | mm²   | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m) | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m) | 2.5*2+2.5(L≤20m)<br>4*2+2.5(20m<L≤50m) |
|                                      | Signal wire            | mm²   | 0.75*2 shield                          | 0.75*2 shield                          | 0.75*2 shield                          |
| Drainage water pipe (Outer diameter) |                        | mm    | Ø30                                    | Ø30                                    | Ø30                                    |
| Controller                           | Standard               |       | Wired controller                       | Wired controller                       | Wired controller                       |
|                                      | Optional               |       | Remote controller                      | Remote controller                      | Remote controller                      |
| Operation temp                       |                        | °C    | 16~32                                  | 16~32                                  | 16~32                                  |

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- Sound pressure level: Semi-anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.4 m.
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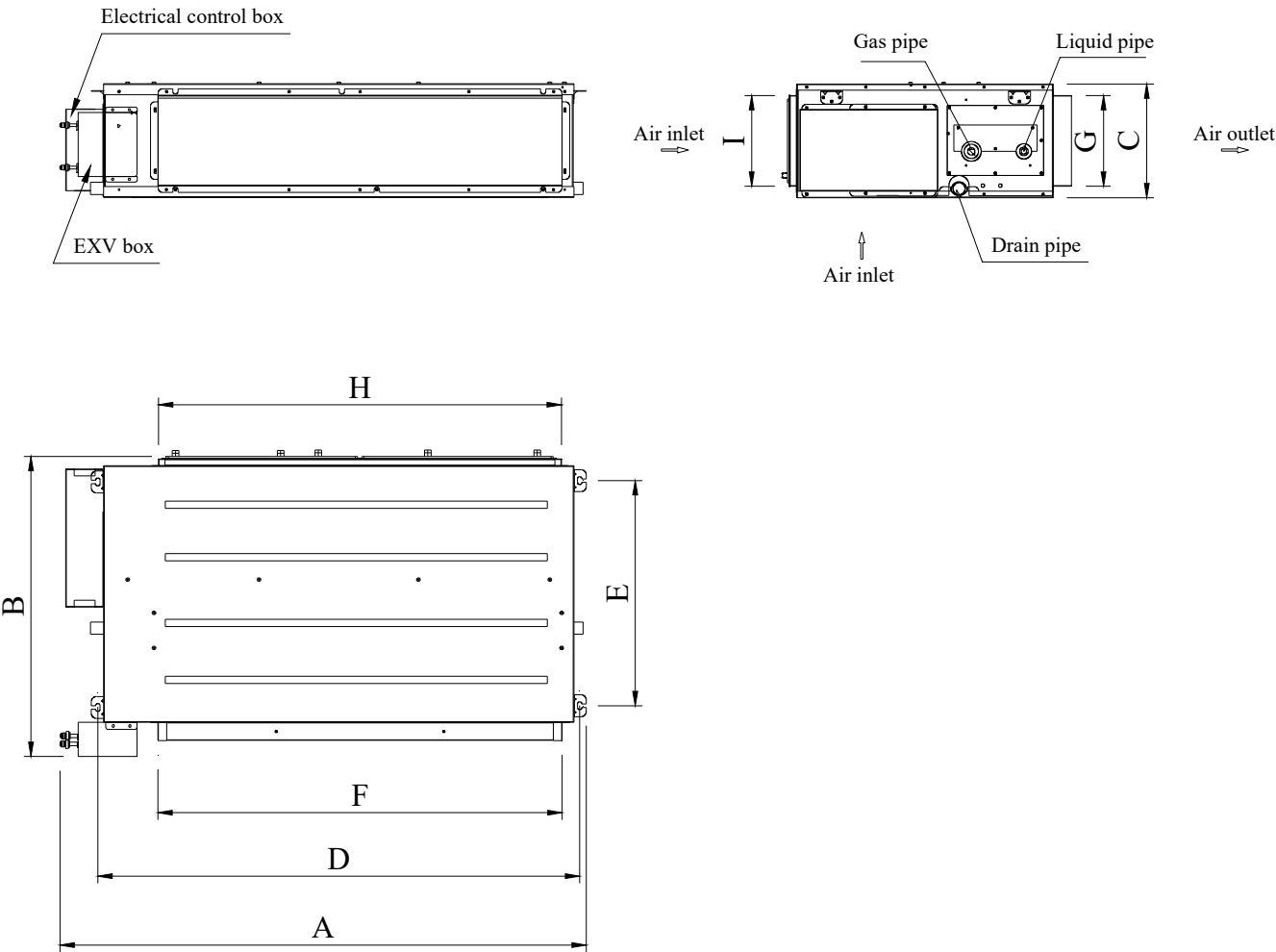
| Model                                |                        |       | CC-CAH120-1S            | CC-CAH180-1S            |
|--------------------------------------|------------------------|-------|-------------------------|-------------------------|
| Power supply                         |                        |       | 208-230V/3N/60Hz        | 208-230V/3N/60Hz        |
| Capacity                             | Cooling                | kW    | 35                      | 52                      |
|                                      | Heating                | kW    | 38.5                    | 57.2                    |
| Power Input                          |                        | kW    | 1.93                    | 3.5                     |
| Rated current                        |                        | A     | 6.5                     | 10.7                    |
| Indoor motor                         | Model                  |       | YE3-100L1-4             | YE3-112M-4              |
|                                      | Type                   |       | AC                      | AC                      |
|                                      | Brand                  |       | Langdi                  | Langdi                  |
|                                      | Capacitor              | μF    | /                       | /                       |
|                                      | Speed (Hi/Med/Low)     | r/min | 1750                    | 1755                    |
|                                      | ESP                    | Pa    | 250                     | 250                     |
| Indoor coil                          | Number of rows         |       | 3                       | 3                       |
|                                      | Fin type               |       | Hydrophilic aluminum    | Hydrophilic aluminum    |
|                                      | Tube diameter and type | mm    | Ø7.94, Innergroove tube | Ø7.94, Innergroove tube |
| Air flow (High speed)                |                        | m³/h  | 7500                    | 10600                   |
| Sound pressure level                 |                        | dB(A) | 63                      | 67                      |
| Body                                 | Dimension (W×H×D)      | mm    | 2165×916×676            | 2165×916×676            |
|                                      | Packing (W×H×D)        | mm    | 2267×1050×840           | 2267×1050×840           |
|                                      | Net/Gross weight       | kg    | 227/280                 | 247/300                 |
| Refrigerant type                     |                        |       | R410A                   | R410A                   |
| Throttle type                        |                        |       | EXV                     | EXV                     |
| Max operating pressure(H/L)          |                        | MPa   | 4.5/1.6                 | 4.5/1.6                 |
| Liquid pipe / Gas pipe               |                        | mm    | Ø15.9/Ø28.6             | Ø15.9/Ø28.6             |
| Connecting wire                      | Power wire             | mm²   | 2.5*4(L≤20m)            | 2.5*4(L≤20m)            |
|                                      |                        |       | 4*4(20m<L≤50m)          | 4*4(20m<L≤50m)          |
|                                      | Signal wire            | mm²   | 0.75*2 shield           | 0.75*2 shield           |
| Drainage water pipe (Outer diameter) |                        | mm    | Ø26                     | Ø26                     |
| Controller                           | Standard               |       | Wired controller        | Wired controller        |
|                                      | Optional               |       | Remote controller       | Remote controller       |
| Operation temp                       |                        | °C    | 16~32                   | 16~32                   |

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- Sound pressure level: Semi-anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.4 m.
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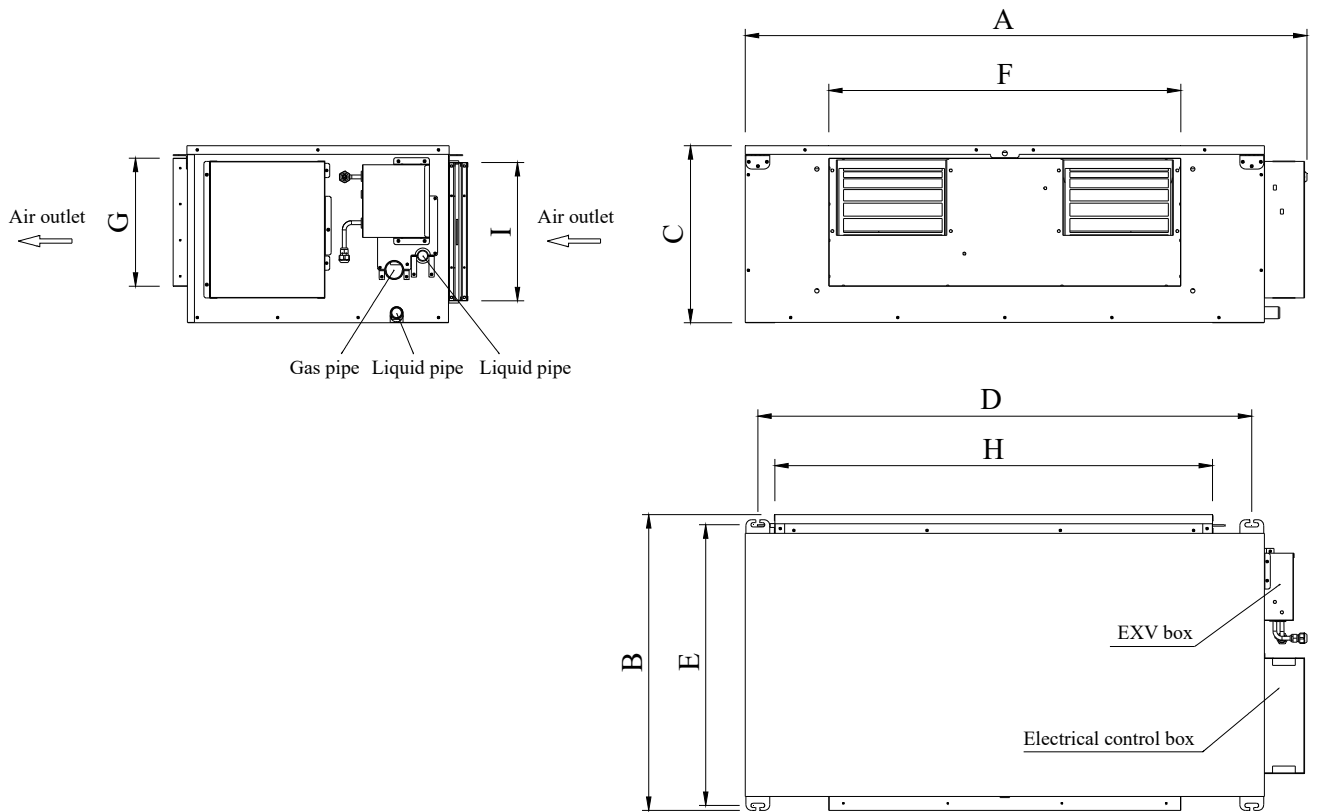
3. Dimensions

- CC-CAH024-1S, CC-CAH028-1S, CC-CAH030-1S



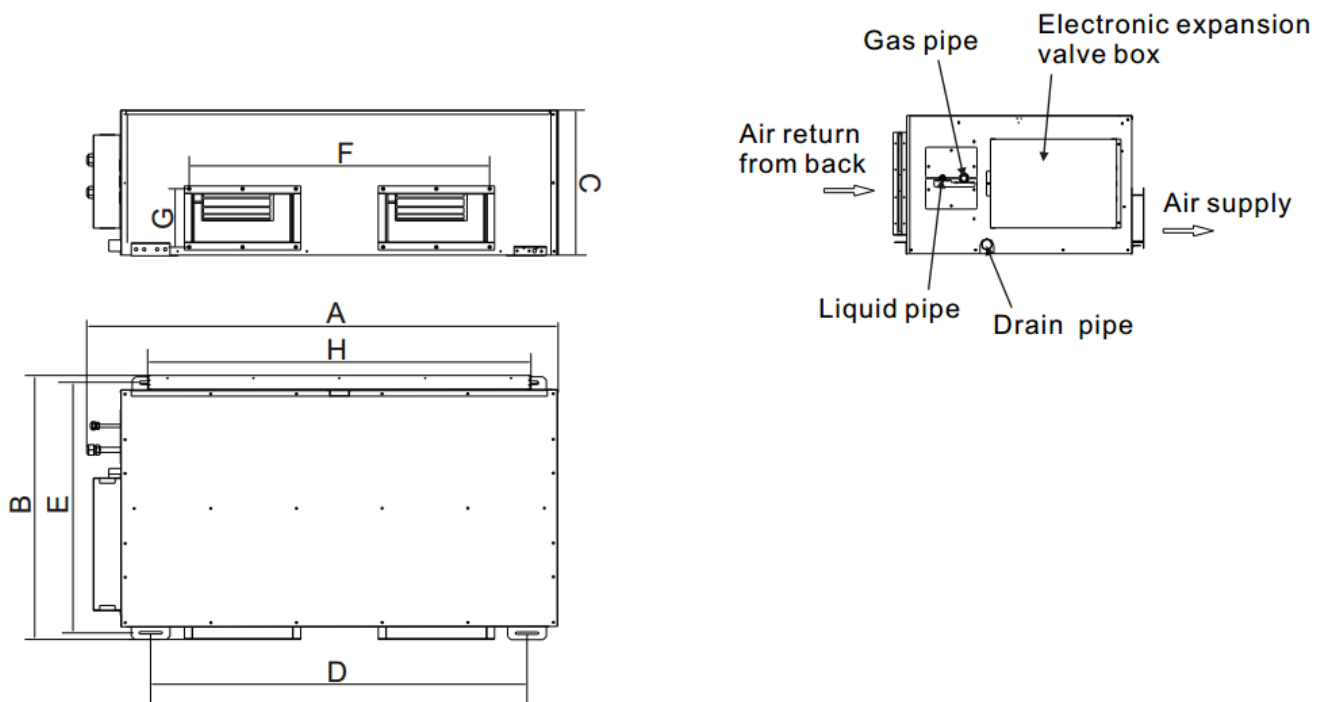
| Mode         | Body dimension(mm) |     |     | Installation dimension (mm) |     | Air outlet dimension (mm) |     | Air return dimension (mm) |     |
|--------------|--------------------|-----|-----|-----------------------------|-----|---------------------------|-----|---------------------------|-----|
|              | A                  | B   | C   | D                           | E   | F                         | G   | H                         | I   |
| CC-CAH024-1S | 1445               | 680 | 260 | 1337                        | 515 | 1156                      | 197 | 1156                      | 207 |
| CC-CAH028-1S | 1445               | 680 | 260 | 1337                        | 515 | 1156                      | 197 | 1156                      | 207 |
| CC-CAH030-1S | 1445               | 680 | 260 | 1337                        | 515 | 1156                      | 197 | 1156                      | 207 |

- CC-CAH034-1S, CC-CAH040-1S, CC-CAH050-1S



| Mode         | Body dimension(mm) |     |     | Installation dimension (mm) |     | Air outlet dimension (mm) |     | Air return dimension (mm) |     |
|--------------|--------------------|-----|-----|-----------------------------|-----|---------------------------|-----|---------------------------|-----|
|              | A                  | B   | C   | D                           | E   | F                         | G   | H                         | I   |
| CC-CAH034-1S | 1190               | 620 | 370 | 1038                        | 588 | 740                       | 267 | 920                       | 290 |
| CC-CAH040-1S | 1190               | 620 | 370 | 1038                        | 588 | 740                       | 267 | 920                       | 290 |
| CC-CAH050-1S | 1190               | 620 | 370 | 1038                        | 588 | 740                       | 267 | 920                       | 290 |

- CC-CAH070-1S, CC-CAH085-1S, CC-CAH096-1S



| Mode         | Body dimension(mm) |     |     | Installation dimension (mm) |     | Air outlet dimension (mm) |     | Air return dimension (mm) |     |
|--------------|--------------------|-----|-----|-----------------------------|-----|---------------------------|-----|---------------------------|-----|
|              | A                  | B   | C   | D                           | E   | F                         | G   | H                         | I   |
| CC-CAH070-1S | 1465               | 811 | 448 | 1162                        | 771 | 930                       | 180 | 1174                      | 272 |
| CC-CAH085-1S | 1465               | 811 | 448 | 1162                        | 771 | 930                       | 180 | 1174                      | 272 |
| CC-CAH096-1S | 1465               | 811 | 448 | 1162                        | 771 | 930                       | 180 | 1174                      | 272 |

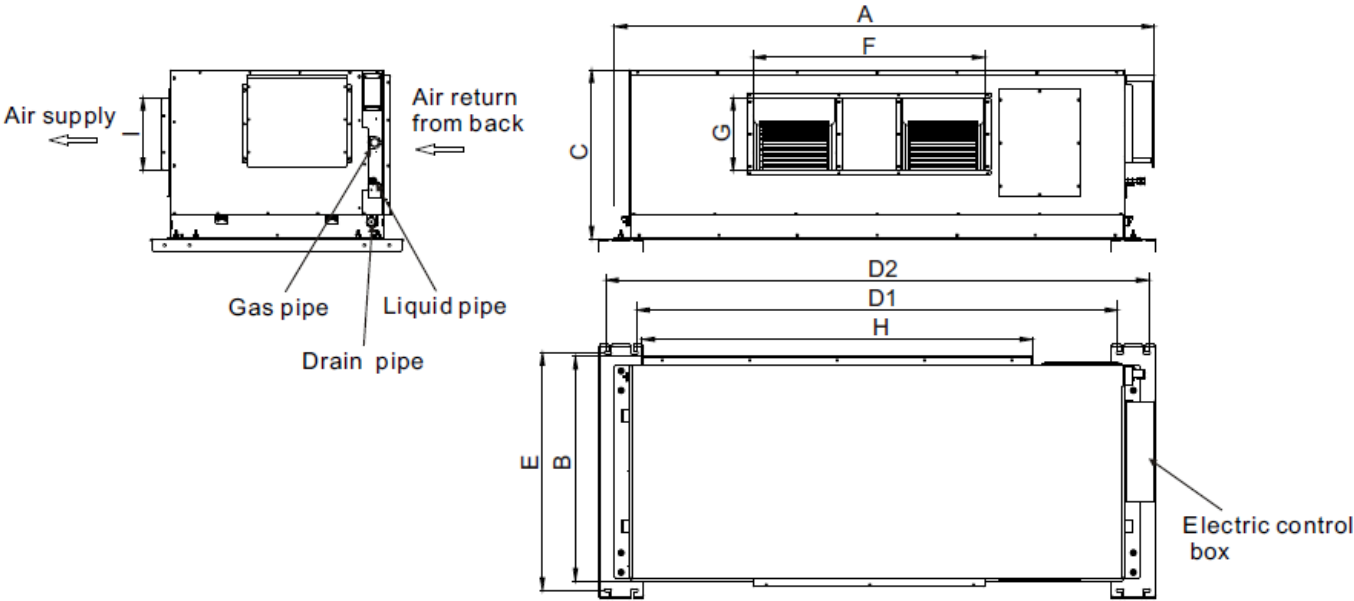
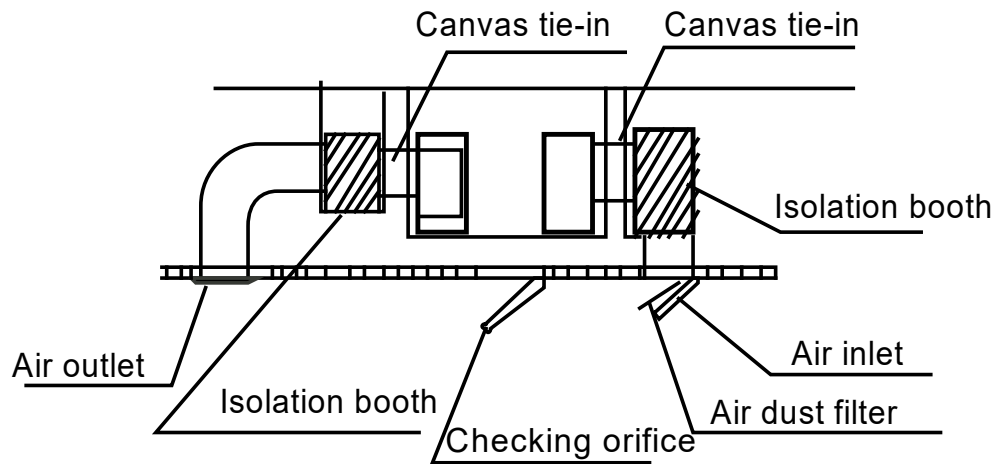


Table 3.7 Unit: mm

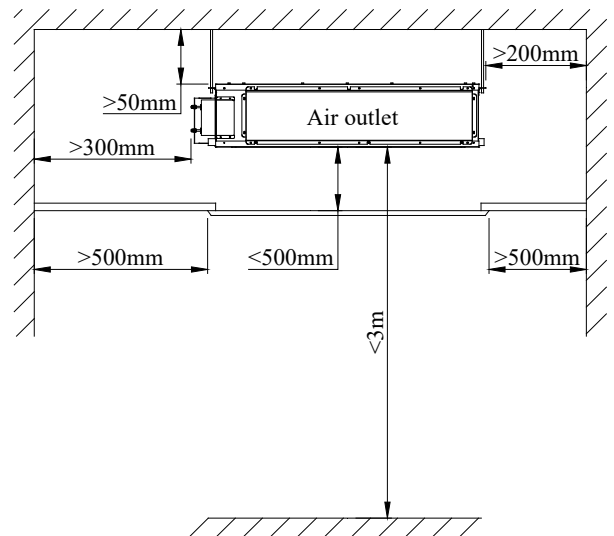
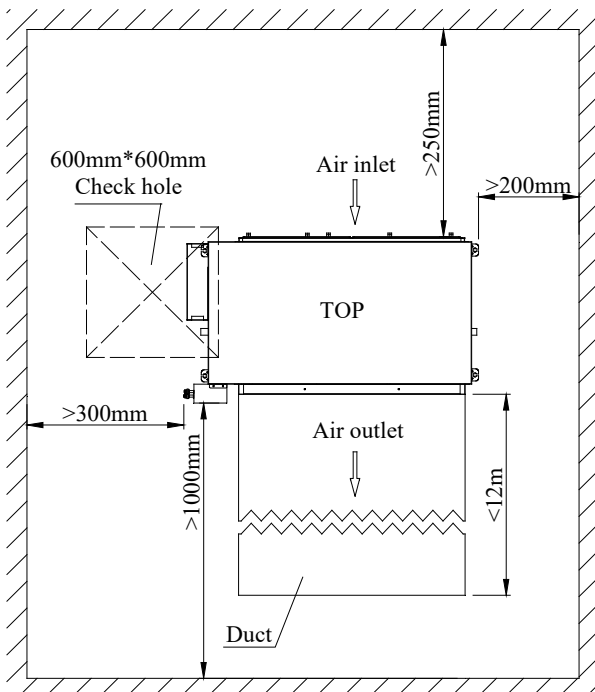
| Mode         | Body dimension(mm) |     |     | Installation dimension (mm) |      |     | Air outlet dimension (mm) |     | Air return dimension (mm) |     |
|--------------|--------------------|-----|-----|-----------------------------|------|-----|---------------------------|-----|---------------------------|-----|
|              | A                  | B   | C   | D1                          | D2   | E   | F                         | G   | H                         | I   |
| CC-CAH120-1S | 2165               | 916 | 676 | 1926                        | 2176 | 950 | 928                       | 292 | 1563                      | 563 |
| CC-CAH180-1S | 2165               | 916 | 676 | 1926                        | 2176 | 950 | 928                       | 292 | 1563                      | 563 |

#### 4. Service space

- Ensure the needed spaces for installation and maintenance.
- The ceiling is horizontal and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting pipe and drainpipe could be extracted out easily.
- There is no direct radiation from heaters.
- Below is the recommended duct installation method:

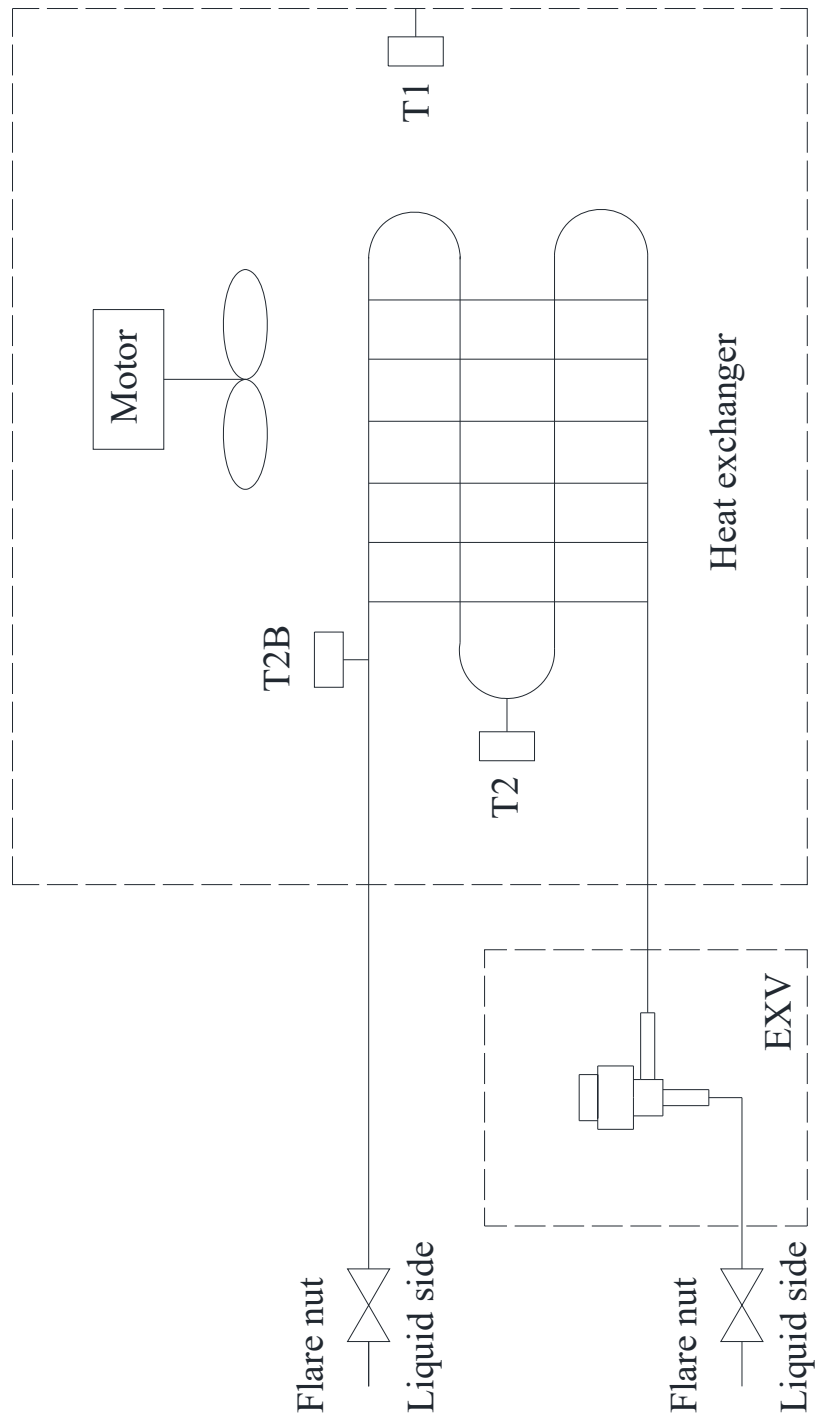


- Keep minimum 600\*600 space for checking and maintenance:



## 5. Piping diagram

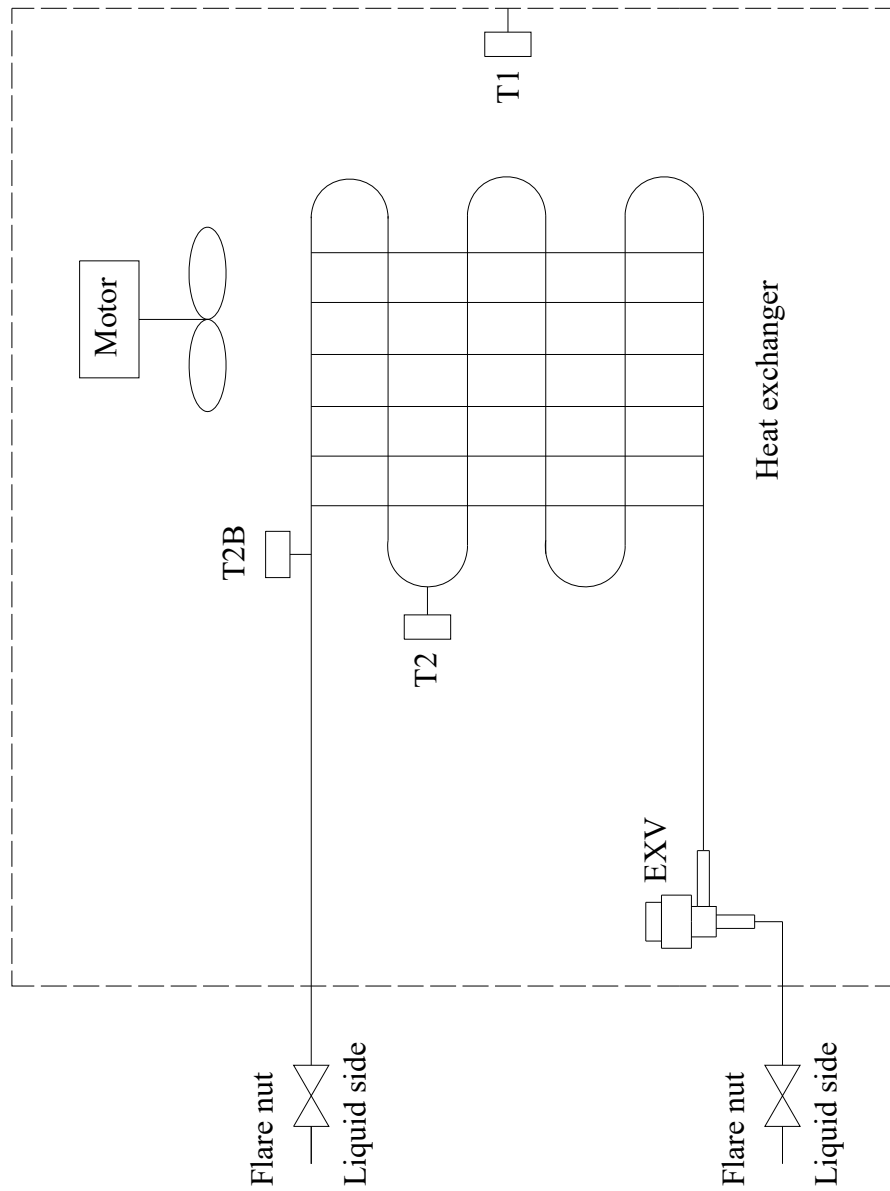
- CC-CAH024-1S, CC-CAH028-1S, CC-CAH030-1S, CC-CAH034-1S, CC-CAH040-1S, CC-CAH050-1S



### Notes:

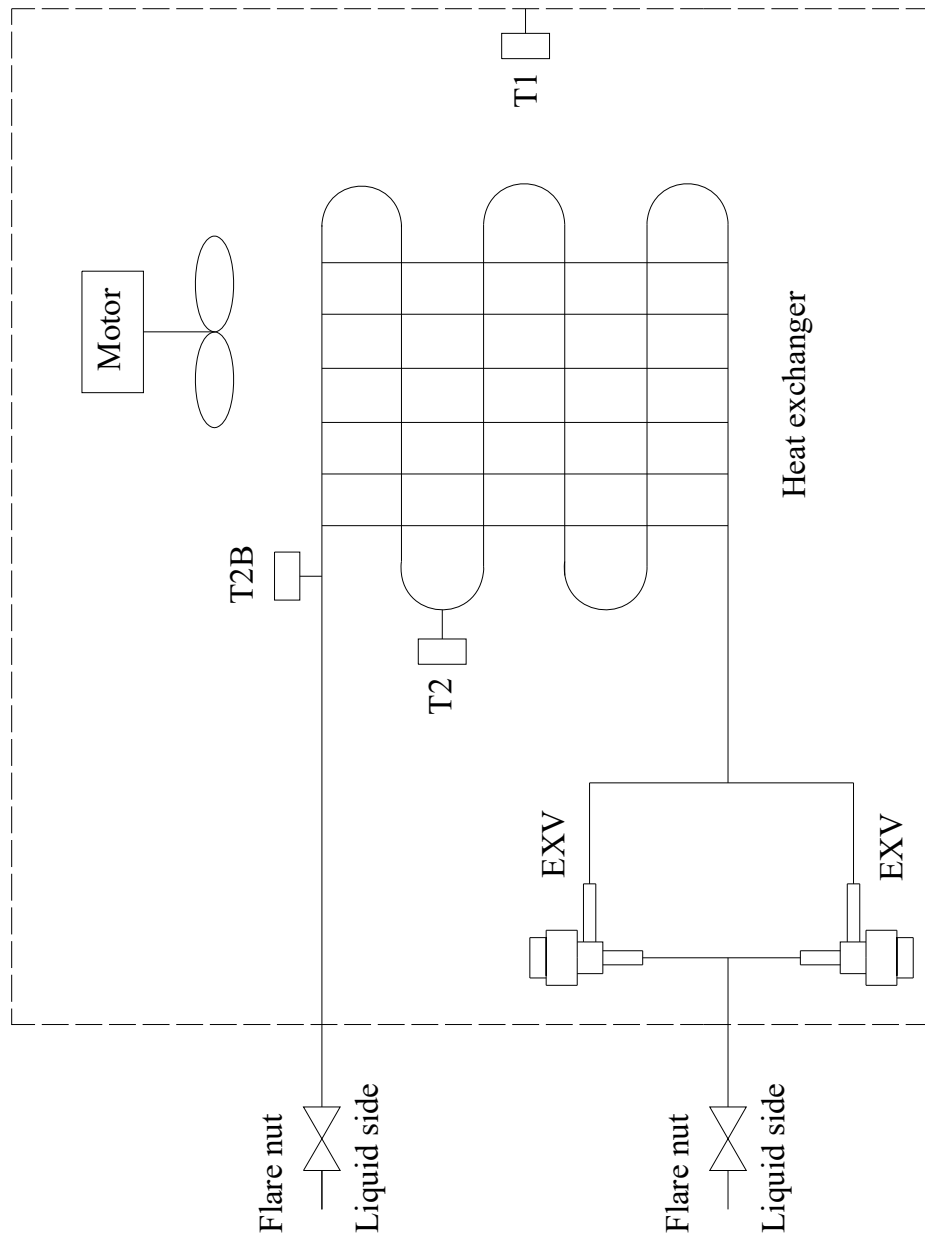
- 1) T1: Room temperature sensor
- 2) T2: Temperature sensor of middle heat exchanger
- 3) T2B: Temperature sensor of heat exchanger outlet
- 4) EXV: Electrical expansion valve

- CC-CAH070-1S, CC-CAH085-1S, CC-CAH096-1S



**Notes:**

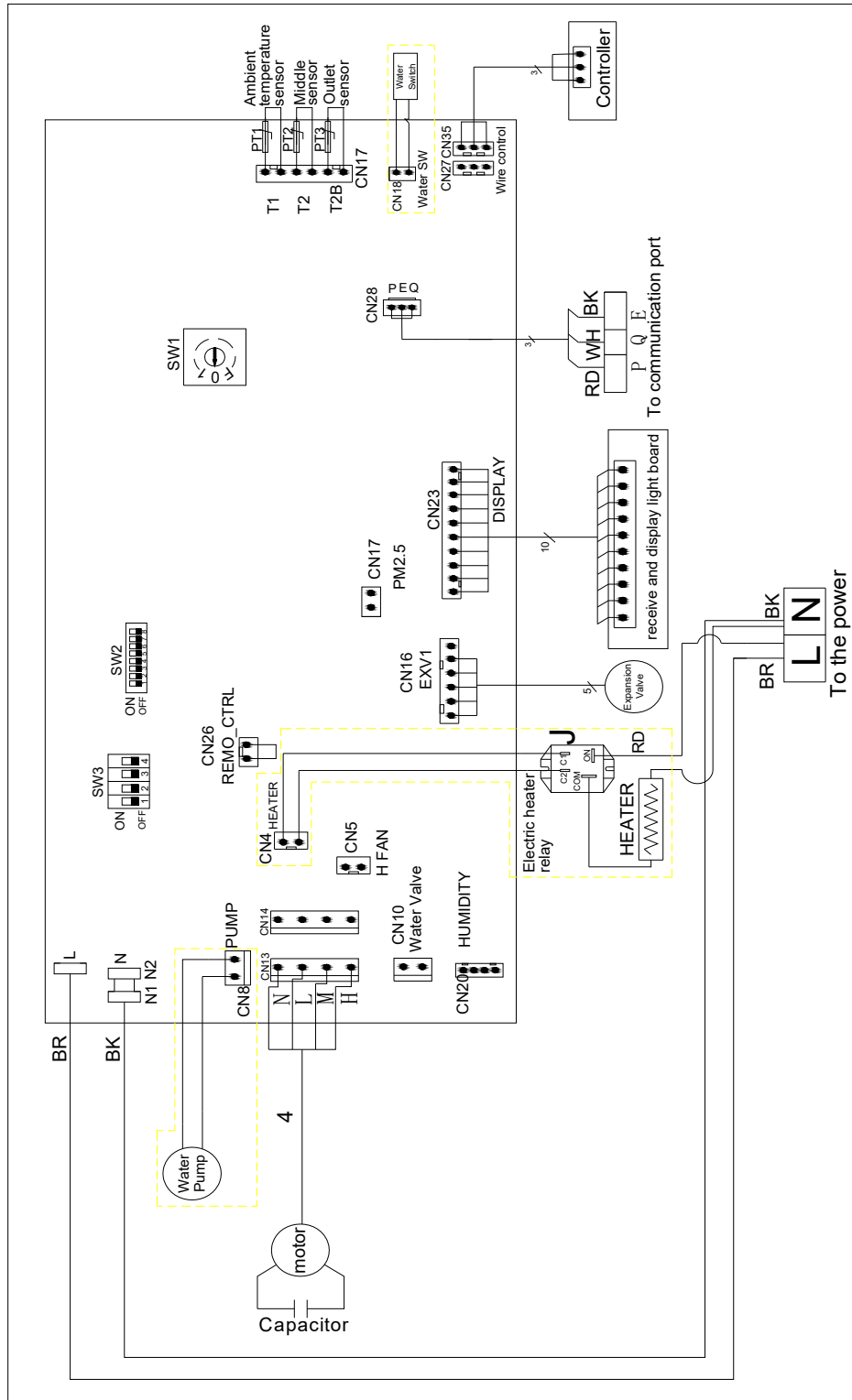
- 1) T1: Room temperature sensor
- 2) T2: Temperature sensor of middle heat exchanger
- 3) T2B: Temperature sensor of heat exchanger outlet
- 4) EXV: Electrical expansion valve



**Notes:**

- 5) T1: Room temperature sensor
- 6) T2: Temperature sensor of middle heat exchanger
- 7) T2B: Temperature sensor of heat exchanger outlet
- 8) EXV: Electrical expansion valve





**Notes:**

1) Color code:

RD: Red; OR: Orange; BK: Black; BR: Brown; WH: White

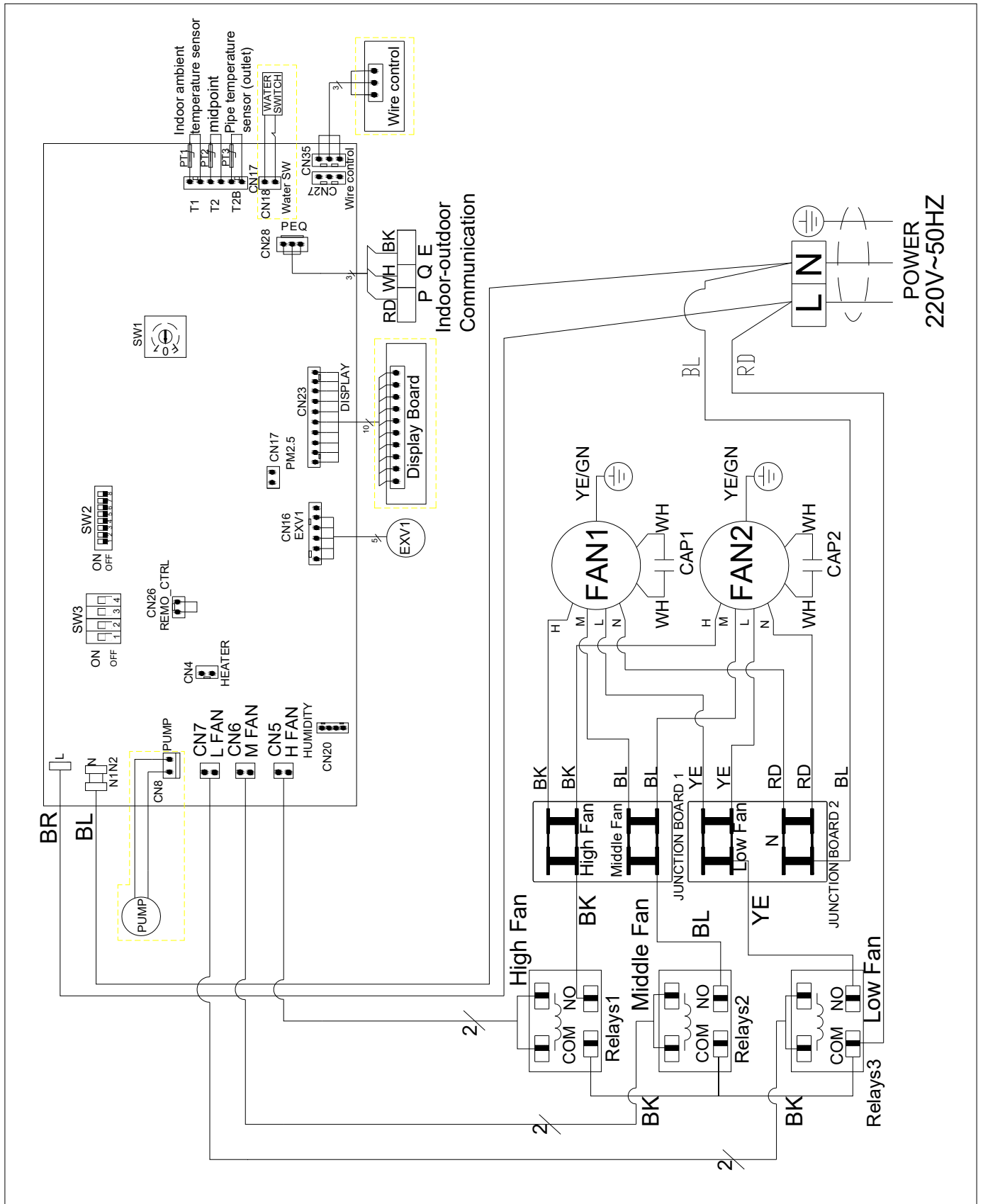
2) T1: Room temperature sensor

3) T2: Temperature sensor of middle heat exchanger

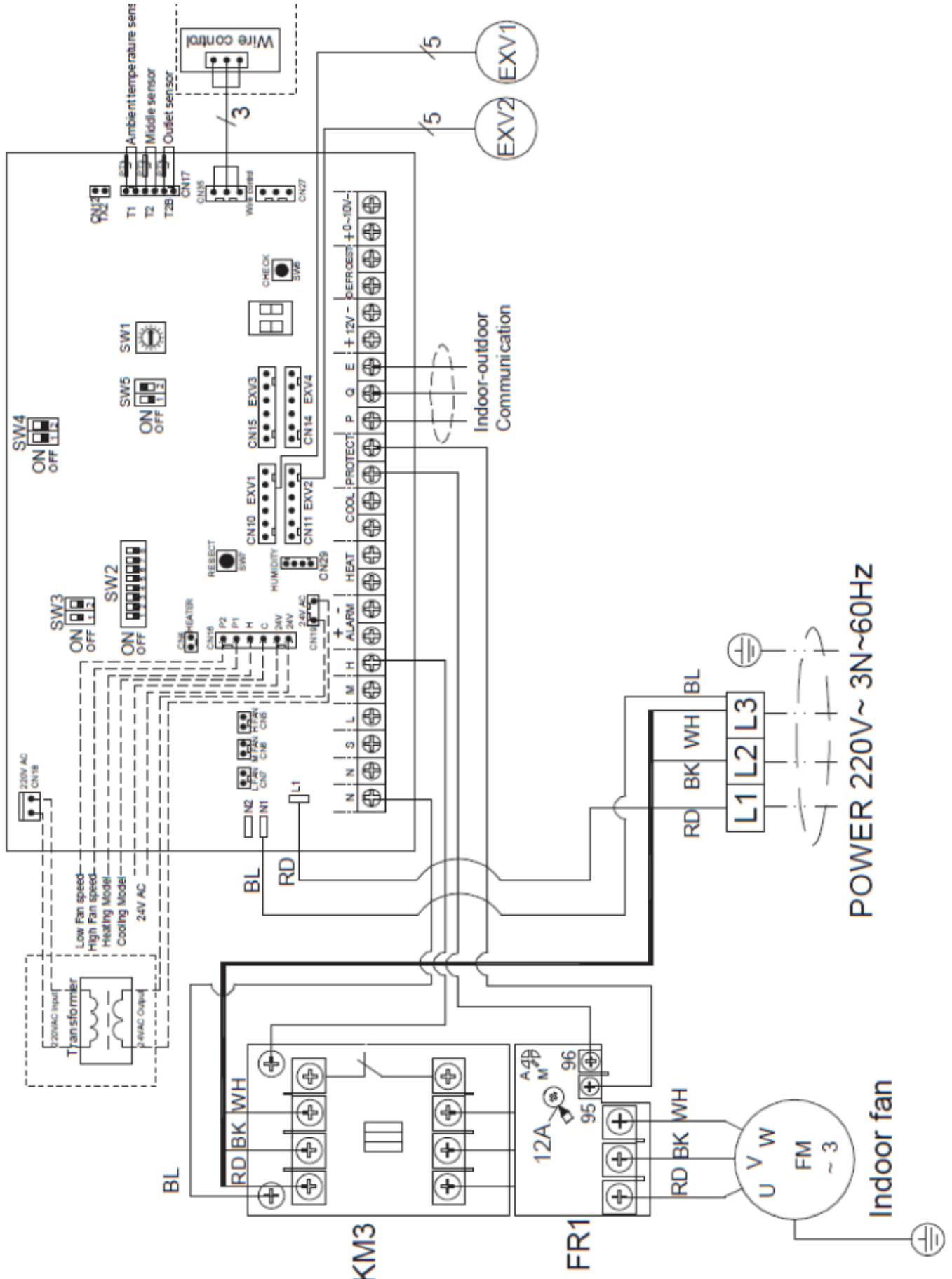
4) T2B: Temperature sensor of heat exchanger outlet

5) EXV: Electrical expansion valve

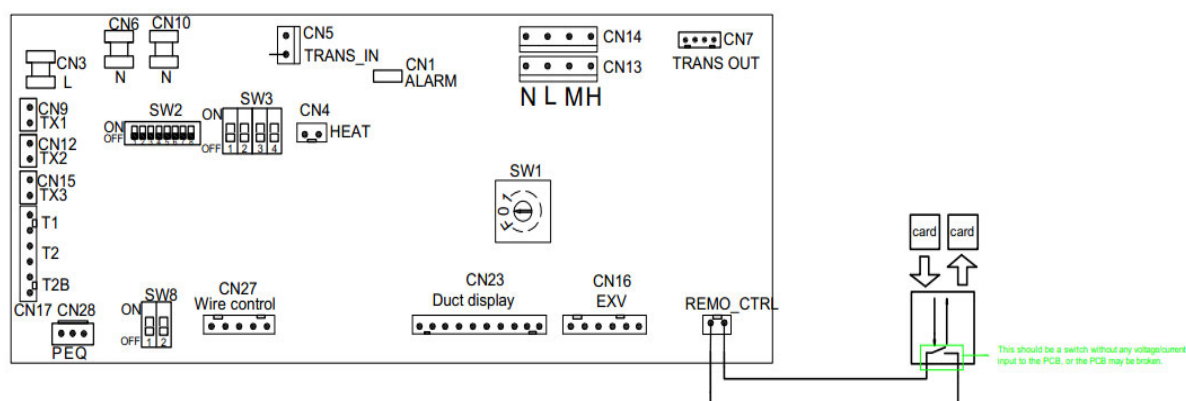
6) Electrical heater is optional, please contact to Comfortstar's technician for the



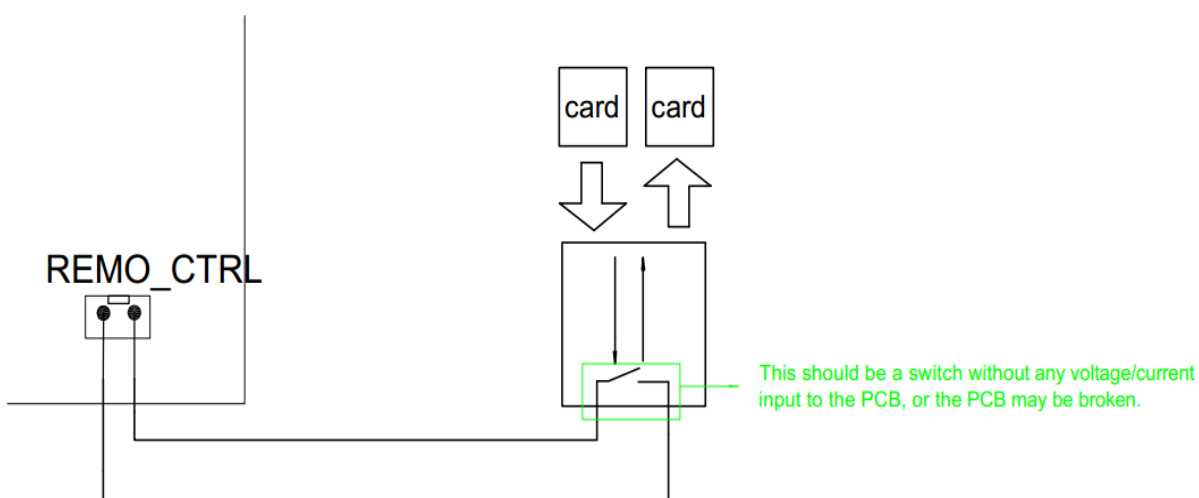
- CC-CAH120-1S, CC-CAH180-1S



## Comfortstar VRF indoor unit connect with card key



Connect the remote control terminal on the indoor PCB to the hotel card module.



NOTE: The terminal in the hotel card module must be a switch without any voltage/current input to the PCB, otherwise the PCB will be broken.

6.2 Dial switches

6.2.1 SW1:Capacity switch.

Different number in the switch indicates different capacity. It is set in factory; leave it as default setting,



|               |         |             |             |             |         |             |
|---------------|---------|-------------|-------------|-------------|---------|-------------|
| HP            | 0.8     | 1           | 1.2         | 1.7         | 2       | 2.5         |
| Capacity (kW) | 1.8/2.2 | 2.5/2.6/2.8 | 3.2/3.5/3.6 | 4.1/4.5/4.6 | 5.1/5.6 | 6.0/6.6/7.1 |
| Code          | 0       | 1           | 2           | 3           | 4       | 5           |

|               |     |         |                |                |           |
|---------------|-----|---------|----------------|----------------|-----------|
| HP            | 3   | 3.2     | 4              | 5              | 6         |
| Capacity (kW) | 8.0 | 8.8/9.0 | 10.0/11.0/11.2 | 12.0/12.5/14.0 | 15.0/16.0 |
| Code          | 6   | 7       | 8              | 9              | 9         |

6.2.2 SW3

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | Switch number 1 of SW3                                                                                                                                                                                                                                                                                                                                                                                                                | Switch number 4 of SW3                                                                                                                                                                                                                                                                                                                                                                                                               | Switch number 2,3 of SW3                                                                                                                                                                                                                                                                                                                                                                                      |
| Function | Auto-restart when power failure switch.<br>ON/OFF status, operation mode, fan speed, temperature, swing, remote control locked will be recovered.                                                                                                                                                                                                                                                                                     | Indoor unit address elimination                                                                                                                                                                                                                                                                                                                                                                                                      | Reserved                                                                                                                                                                                                                                                                                                                                                                                                      |
| Setting  | <div><div>ONDP</div><div><div><div>1</div><div>2</div><div>3</div><div>4</div></div><div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div></div></div><div>Dial upto disable Auto-restart function</div></div></div></div></div></div> | <div><div>ONDP</div><div><div><div>1</div><div>2</div><div>3</div><div>4</div></div><div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div></div></div><div>Dial upto erase indoor unit's address.</div></div></div></div></div></div> | <div><div>ONDP</div><div><div><div>1</div><div>2</div><div>3</div><div>4</div></div><div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div><div></div></div></div></div><div>Default setting</div></div></div></div></div></div> |

|  |                                                                                                                   |                                                                       |  |
|--|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|
|  | <div> <div>ON DP</div> <div> </div> <div>Dial down to enable Auto-restart function (Default setting)</div> </div> | <div> <div>ON DP</div> <div> </div> <div>Default setting</div> </div> |  |
|--|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|

6.2.3 SW2, only available in heating mode.

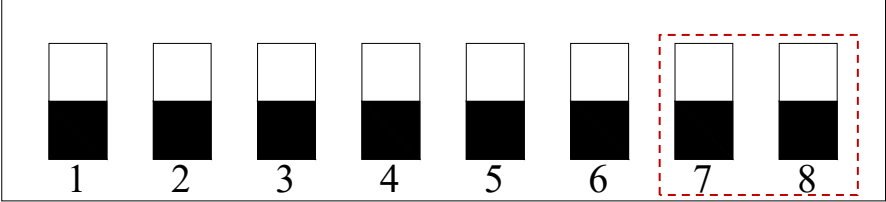
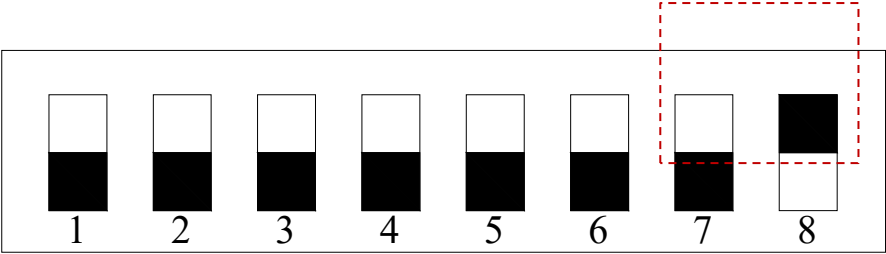
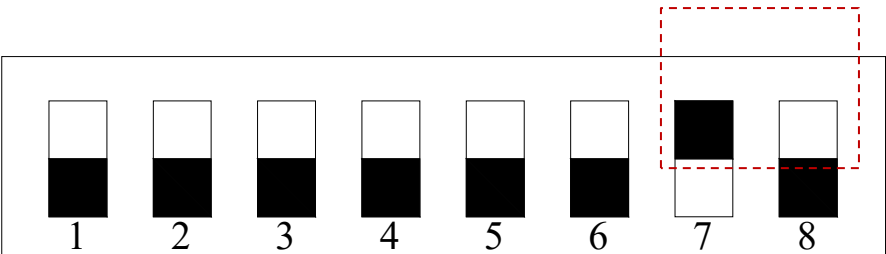
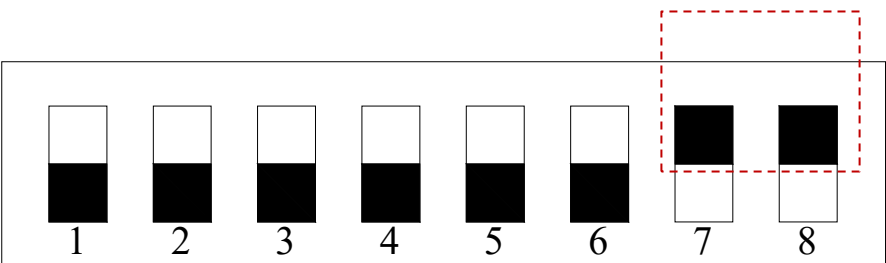
|          |                          |  |                 |
|----------|--------------------------|--|-----------------|
| Name     | Switch number 1,2 of SW2 |  |                 |
| Function | Reserved                 |  |                 |
| Setting  | <div> </div>             |  | Default setting |

|          |                                                                                                                                                                                                                                                                                                                          |                         |  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--|
| Name     | Switch number 3,4 of SW2                                                                                                                                                                                                                                                                                                 |                         |  |
| Function | <ul style="list-style-type: none"> <li>Heating temperature compensation value selection. When temperature difference between setting temperature and room temperature is higher than the setting value, indoor fan motor turns off.</li> <li>DO NOT change the default setting without professional guidance.</li> </ul> |                         |  |
| Setting  | <div> <div>ON</div> <div> </div> </div>                                                                                                                                                                                                                                                                                  | 6 °C<br>Default setting |  |
|          | <div> <div>ON</div> <div> </div> </div>                                                                                                                                                                                                                                                                                  | 2 °C                    |  |

|  |                                                                                                                                                                |      |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|  | <div> <div>ON</div> <div>OFF</div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> </div> </div> | 4 °C |
|  | <div> <div>ON</div> <div>OFF</div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> </div> </div> | 8 °C |

|          |                                                                                                                                                                                                                                                                                                                    |                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Name     | Switch number 5,6 of SW2                                                                                                                                                                                                                                                                                           |                          |
| Function | <ul style="list-style-type: none"> <li>Temperature selection of turning off fan motor in anti-cold-wind-blow mode. When <b>indoor heat exchanger temperature</b> is lower than the setting value, indoor fan motor turns off.</li> <li>DO NOT change the default setting without professional guidance.</li> </ul> |                          |
| Setting  | <div> <div>ON</div> <div>OFF</div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> </div> </div>                                                                                                                                                     | 15 °C<br>Default setting |
|          | <div> <div>ON</div> <div>OFF</div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> </div> </div>                                                                                                                                                     | 20 °C                    |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|  | <div><div>ON</div><div>OFF</div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div><div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div></div></div></div></div></div></div></div></div></div></div></div></div> | 24 °C |
|  | <div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div><div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div><div><div><div></div><div></div></div></div></div></div></div></div></div></div></div></div></div></div>                                       | 26 °C |

| Name     | Switch number 7,8 of SW2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |                              |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|
| Function | <ul style="list-style-type: none"> <li>Indoor fan motor stopping gap selection in heating mode.</li> <li>When room temperature gets to (set point + temperature value in Switch number 3,4 of SW2), at this moment indoor unit capacity requirement is 0, indoor fan motor turns off for 4minutes ( this stopping duration time can be changed by below setting).After that indoor fan will run in low speed for 1 minute (this timing is fixed), if indoor unit capacity requirement is still 0, then indoor fan motor keeps off for 4 minutes, and then cycles.</li> <li>DO NOT change the default setting without professional guidance.</li> </ul> |                                                                                      |                              |
| Setting  | ON<br>OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    | 4 minutes<br>Default setting |
|          | ON<br>OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   | 8 minutes                    |
|          | ON<br>OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 12 minutes                   |
|          | ON<br>OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 16 minutes                   |

SW8, reserved, leave it as default setting (both switches dial down).

## 7. Capacity tables

### 7.1 Cooling

TC: Total Capacity    SC: Sensible Capacity    WB: Wet-bulb Temperature    DB: Dry-bulb Temperature

| Capacity<br>(kW) | Outdoor<br>temperature<br>(°C DB) | Indoor temperature (°C WB/DB) |      |       |      |       |      |       |      |       |      |       |      |       |      |
|------------------|-----------------------------------|-------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                  |                                   | 14/20                         |      | 16/23 |      | 18/26 |      | 19/27 |      | 20/28 |      | 22/30 |      | 24/32 |      |
|                  |                                   | TC                            | SC   | TC    | SC   | TC    | SC   | TC    | SC   | TC    | SC   | TC    | SC   | TC    | SC   |
|                  |                                   | kW                            | kW   | kW    | kW   | kW    | kW   | kW    | kW   | kW    | kW   | kW    | kW   | kW    | kW   |
| 7.1              | 10                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 8.27  | 5.72 | 8.60  | 5.14 |
|                  | 12                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 8.27  | 5.72 | 8.53  | 5.09 |
|                  | 14                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 8.20  | 5.67 | 8.45  | 5.05 |
|                  | 16                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 8.13  | 5.62 | 8.38  | 5.00 |
|                  | 18                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 8.05  | 5.56 | 8.30  | 4.96 |
|                  | 19                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 7.98  | 5.51 | 8.22  | 4.91 |
|                  | 21                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 7.91  | 5.46 | 8.15  | 4.87 |
|                  | 23                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.64 | 7.83  | 5.41 | 8.07  | 4.82 |
|                  | 25                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.73  | 5.59 | 7.76  | 5.36 | 7.99  | 4.78 |
|                  | 27                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.66  | 5.53 | 7.68  | 5.31 | 7.92  | 4.73 |
|                  | 29                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.58  | 5.48 | 7.61  | 5.26 | 7.84  | 4.69 |
|                  | 31                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.51  | 5.43 | 7.54  | 5.21 | 7.76  | 4.65 |
|                  | 33                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.44  | 5.33 | 7.46  | 5.16 | 7.69  | 4.60 |
|                  | 35                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.30 | 7.33  | 5.27 | 7.39  | 5.11 | 7.61  | 4.56 |
|                  | 37                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.28 | 7.22  | 5.17 | 7.31  | 5.01 | 7.46  | 4.47 |
|                  | 39                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.69  | 5.30 | 7.10  | 5.24 | 7.17  | 5.12 | 7.24  | 4.96 | 7.38  | 4.42 |
|                  | 41                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.60  | 5.30 | 7.03  | 5.22 | 7.10  | 5.07 | 7.17  | 4.91 | 7.31  | 4.38 |
|                  | 43                                | 4.92                          | 4.44 | 5.80  | 4.63 | 6.53  | 5.30 | 6.96  | 5.20 | 7.03  | 5.02 | 7.10  | 4.86 | 7.23  | 4.33 |
|                  | 46                                | 4.92                          | 4.44 | 5.69  | 4.54 | 6.32  | 5.30 | 6.89  | 5.18 | 6.96  | 4.96 | 7.03  | 4.81 | 7.17  | 4.29 |
|                  | 48                                | 4.92                          | 4.44 | 5.63  | 4.49 | 6.11  | 5.15 | 6.67  | 5.12 | 6.89  | 4.91 | 6.82  | 4.76 | 6.96  | 4.24 |
|                  | 50                                | 4.83                          | 4.44 | 5.57  | 4.45 | 5.89  | 5.10 | 6.46  | 4.99 | 6.67  | 4.86 | 6.60  | 4.71 | 6.75  | 4.20 |
| 8.0              | 10                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 9.32  | 6.34 | 9.70  | 5.69 |
|                  | 12                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 9.32  | 6.34 | 9.61  | 5.64 |
|                  | 14                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 9.24  | 6.28 | 9.52  | 5.59 |
|                  | 16                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 9.16  | 6.23 | 9.44  | 5.54 |
|                  | 18                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 9.07  | 6.17 | 9.35  | 5.49 |
|                  | 19                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 8.99  | 6.11 | 9.27  | 5.44 |
|                  | 21                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 8.91  | 6.06 | 9.18  | 5.38 |
|                  | 23                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.25 | 8.82  | 6.00 | 9.09  | 5.33 |
|                  | 25                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.71  | 6.19 | 8.74  | 5.94 | 9.01  | 5.28 |
|                  | 27                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.63  | 6.13 | 8.66  | 5.89 | 8.92  | 5.23 |
|                  | 29                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.55  | 6.08 | 8.57  | 5.83 | 8.83  | 5.18 |
|                  | 31                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.47  | 6.02 | 8.49  | 5.77 | 8.75  | 5.13 |
|                  | 33                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.38  | 5.90 | 8.41  | 5.72 | 8.66  | 5.08 |
|                  | 35                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.87 | 8.26  | 5.84 | 8.32  | 5.66 | 8.58  | 5.03 |
|                  | 37                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.84 | 8.14  | 5.73 | 8.24  | 5.55 | 8.41  | 4.93 |
|                  | 39                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.54  | 5.88 | 8.00  | 5.81 | 8.08  | 5.67 | 8.16  | 5.49 | 8.32  | 4.88 |
|                  | 41                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.44  | 5.88 | 7.92  | 5.78 | 8.00  | 5.61 | 8.08  | 5.43 | 8.23  | 4.83 |
|                  | 43                                | 5.54                          | 5.00 | 6.54  | 5.22 | 7.36  | 5.88 | 7.84  | 5.76 | 7.92  | 5.55 | 8.00  | 5.38 | 8.15  | 4.78 |
|                  | 46                                | 5.54                          | 5.00 | 6.41  | 5.12 | 7.12  | 5.88 | 7.76  | 5.73 | 7.84  | 5.49 | 7.92  | 5.32 | 8.08  | 4.73 |
|                  | 48                                | 5.54                          | 5.00 | 6.34  | 5.06 | 6.88  | 5.70 | 7.52  | 5.67 | 7.76  | 5.43 | 7.68  | 5.26 | 7.84  | 4.68 |
|                  | 50                                | 5.44                          | 5.00 | 6.28  | 5.01 | 6.64  | 5.64 | 7.28  | 5.52 | 7.52  | 5.37 | 7.44  | 5.21 | 7.60  | 4.63 |
| 9.0              | 10                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 10.49 | 7.22 | 10.91 | 6.49 |
|                  | 12                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 10.49 | 7.22 | 10.81 | 6.43 |
|                  | 14                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 10.39 | 7.16 | 10.71 | 6.37 |
|                  | 16                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 10.30 | 7.09 | 10.62 | 6.32 |
|                  | 18                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 10.21 | 7.03 | 10.52 | 6.26 |
|                  | 19                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 10.11 | 6.97 | 10.43 | 6.20 |
|                  | 21                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 10.02 | 6.90 | 10.33 | 6.15 |
|                  | 23                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.12 | 9.93  | 6.84 | 10.23 | 6.09 |
|                  | 25                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.80  | 7.06 | 9.83  | 6.78 | 10.13 | 6.03 |
|                  | 27                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.71  | 6.99 | 9.74  | 6.71 | 10.04 | 5.98 |
|                  | 29                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.61  | 6.93 | 9.65  | 6.65 | 9.94  | 5.92 |
|                  | 31                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.53  | 6.86 | 9.55  | 6.58 | 9.84  | 5.86 |
|                  | 33                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.43  | 6.73 | 9.46  | 6.52 | 9.75  | 5.81 |
|                  | 35                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.70 | 9.30  | 6.66 | 9.36  | 6.46 | 9.65  | 5.75 |
|                  | 37                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.66 | 9.16  | 6.53 | 9.27  | 6.33 | 9.46  | 5.64 |
|                  | 39                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.48  | 6.70 | 9.00  | 6.62 | 9.09  | 6.47 | 9.18  | 6.27 | 9.36  | 5.58 |
|                  | 41                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.37  | 6.70 | 8.91  | 6.60 | 9.00  | 6.40 | 9.09  | 6.20 | 9.26  | 5.53 |
|                  | 43                                | 6.23                          | 5.62 | 7.36  | 5.87 | 8.28  | 6.70 | 8.82  | 6.56 | 8.91  | 6.33 | 9.00  | 6.14 | 9.17  | 5.47 |
|                  | 46                                | 6.23                          | 5.62 | 7.21  | 5.76 | 8.01  | 6.70 | 8.73  | 6.54 | 8.82  | 6.27 | 8.91  | 6.07 | 9.09  | 5.41 |
|                  | 48                                | 6.23                          | 5.62 | 7.14  | 5.70 | 7.74  | 6.50 | 8.46  | 6.47 | 8.73  | 6.20 | 8.64  | 6.01 | 8.82  | 5.36 |
|                  | 50                                | 6.12                          | 5.62 | 7.06  | 5.64 | 7.47  | 6.44 | 8.19  | 6.30 | 8.46  | 6.14 | 8.37  | 5.95 | 8.55  | 5.30 |

TC: Total Capacity    SC: Sensible Capacity    WB: Wet-bulb Temperature    DB: Dry-bulb Temperature

| Capacity<br>(kW) | Outdoor<br>temperature<br>(°C DB) | Indoor temperature (°C WB/DB) |      |       |      |       |       |       |       |       |       |       |       |       |       |
|------------------|-----------------------------------|-------------------------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  |                                   | 14/20                         |      | 16/23 |      | 18/26 |       | 19/27 |       | 20/28 |       | 22/30 |       | 24/32 |       |
|                  |                                   | TC                            | SC   | TC    | SC   | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    |
|                  |                                   | kW                            | kW   | kW    | kW   | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    |
| 10               | 10                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.65 | 8.02  | 12.12 | 7.21  |
|                  | 12                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.65 | 8.02  | 12.01 | 7.15  |
|                  | 14                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.55 | 7.95  | 11.90 | 7.08  |
|                  | 16                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.44 | 7.88  | 11.80 | 7.02  |
|                  | 18                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.34 | 7.81  | 11.69 | 6.96  |
|                  | 19                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.24 | 7.74  | 11.58 | 6.89  |
|                  | 21                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.13 | 7.67  | 11.47 | 6.83  |
|                  | 23                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.91  | 11.03 | 7.60  | 11.37 | 6.77  |
|                  | 25                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.89 | 7.84  | 10.92 | 7.53  | 11.26 | 6.71  |
|                  | 27                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.79 | 7.77  | 10.82 | 7.46  | 11.15 | 6.64  |
|                  | 29                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.68 | 7.69  | 10.72 | 7.39  | 11.04 | 6.58  |
|                  | 31                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.58 | 7.62  | 10.62 | 7.32  | 10.94 | 6.52  |
|                  | 33                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.48 | 7.48  | 10.51 | 7.25  | 10.83 | 6.45  |
|                  | 35                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.44  | 10.33 | 7.40  | 10.40 | 7.17  | 10.72 | 6.39  |
|                  | 37                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.40  | 10.17 | 7.26  | 10.30 | 7.03  | 10.51 | 6.26  |
|                  | 39                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.42  | 7.44  | 10.00 | 7.36  | 10.10 | 7.18  | 10.20 | 6.96  | 10.40 | 6.20  |
|                  | 41                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.30  | 7.44  | 9.90  | 7.33  | 10.00 | 7.11  | 10.10 | 6.89  | 10.29 | 6.14  |
|                  | 43                                | 6.92                          | 6.25 | 8.17  | 6.53 | 9.20  | 7.44  | 9.80  | 7.29  | 9.90  | 7.04  | 10.00 | 6.82  | 10.19 | 6.08  |
|                  | 46                                | 6.92                          | 6.25 | 8.01  | 6.39 | 8.90  | 7.44  | 9.70  | 7.26  | 9.80  | 6.96  | 9.90  | 6.75  | 10.10 | 6.01  |
|                  | 48                                | 6.92                          | 6.25 | 7.93  | 6.33 | 8.60  | 7.22  | 9.40  | 7.19  | 9.70  | 6.89  | 9.60  | 6.68  | 9.80  | 5.95  |
|                  | 50                                | 6.80                          | 6.25 | 7.85  | 6.26 | 8.30  | 7.15  | 9.10  | 7.00  | 9.40  | 6.82  | 9.30  | 6.61  | 9.50  | 5.89  |
| 12               | 10                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.99 | 9.51  | 14.54 | 8.53  |
|                  | 12                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.99 | 9.51  | 14.41 | 8.45  |
|                  | 14                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.86 | 9.42  | 14.29 | 8.38  |
|                  | 16                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.73 | 9.34  | 14.16 | 8.30  |
|                  | 18                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.61 | 9.25  | 14.03 | 8.23  |
|                  | 19                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.49 | 9.17  | 13.90 | 8.15  |
|                  | 21                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.36 | 9.08  | 13.77 | 8.08  |
|                  | 23                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.38  | 13.23 | 9.00  | 13.64 | 8.00  |
|                  | 25                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 13.07 | 9.29  | 13.11 | 8.91  | 13.51 | 7.93  |
|                  | 27                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 12.94 | 9.20  | 12.99 | 8.83  | 13.38 | 7.85  |
|                  | 29                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 12.82 | 9.11  | 12.86 | 8.74  | 13.25 | 7.78  |
|                  | 31                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 12.70 | 9.03  | 12.74 | 8.66  | 13.12 | 7.70  |
|                  | 33                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 12.58 | 8.85  | 12.61 | 8.57  | 13.00 | 7.62  |
|                  | 35                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.81  | 12.40 | 8.76  | 12.49 | 8.49  | 12.87 | 7.55  |
|                  | 37                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.77  | 12.21 | 8.59  | 12.36 | 8.32  | 12.61 | 7.40  |
|                  | 39                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.31 | 8.81  | 12.00 | 8.71  | 12.12 | 8.50  | 12.24 | 8.23  | 12.48 | 7.32  |
|                  | 41                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.16 | 8.81  | 11.88 | 8.68  | 12.00 | 8.41  | 12.12 | 8.15  | 12.35 | 7.25  |
|                  | 43                                | 8.31                          | 7.50 | 9.81  | 7.83 | 11.04 | 8.81  | 11.76 | 8.63  | 11.88 | 8.33  | 12.00 | 8.06  | 12.22 | 7.17  |
|                  | 46                                | 8.31                          | 7.50 | 9.61  | 7.67 | 10.68 | 8.81  | 11.64 | 8.60  | 11.76 | 8.24  | 11.88 | 7.98  | 12.12 | 7.10  |
|                  | 48                                | 8.31                          | 7.50 | 9.51  | 7.60 | 10.32 | 8.55  | 11.28 | 8.51  | 11.64 | 8.15  | 11.52 | 7.89  | 11.76 | 7.02  |
|                  | 50                                | 8.16                          | 7.50 | 9.42  | 7.52 | 9.96  | 8.46  | 10.92 | 8.28  | 11.28 | 8.06  | 11.16 | 7.81  | 11.40 | 6.94  |
| 15               | 10                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 17.48 | 11.88 | 18.18 | 10.66 |
|                  | 12                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 17.48 | 11.88 | 18.02 | 10.57 |
|                  | 14                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 17.32 | 11.78 | 17.86 | 10.47 |
|                  | 16                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 17.17 | 11.67 | 17.70 | 10.38 |
|                  | 18                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 17.01 | 11.57 | 17.54 | 10.29 |
|                  | 19                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 16.86 | 11.46 | 17.38 | 10.19 |
|                  | 21                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 16.70 | 11.35 | 17.21 | 10.10 |
|                  | 23                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.72 | 16.54 | 11.25 | 17.05 | 10.00 |
|                  | 25                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.33 | 11.61 | 16.39 | 11.14 | 16.89 | 9.91  |
|                  | 27                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.18 | 11.50 | 16.23 | 11.04 | 16.73 | 9.81  |
|                  | 29                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 16.02 | 11.39 | 16.08 | 10.93 | 16.57 | 9.72  |
|                  | 31                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 15.88 | 11.28 | 15.92 | 10.82 | 16.40 | 9.62  |
|                  | 33                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 15.72 | 11.06 | 15.76 | 10.72 | 16.24 | 9.53  |
|                  | 35                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 11.01 | 15.49 | 10.95 | 15.61 | 10.61 | 16.08 | 9.44  |
|                  | 37                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 10.96 | 15.26 | 10.73 | 15.45 | 10.40 | 15.76 | 9.25  |
|                  | 39                                | 10.39                         | 9.37 | 12.26 | 9.79 | 14.14 | 11.02 | 15.00 | 10.89 | 15.15 | 10.63 | 15.30 | 10.29 | 15.60 | 9.15  |
|                  | 41                                | 10.39                         | 9.37 | 12.26 | 9.79 | 13.95 | 11.02 | 14.85 | 10.85 | 15.00 | 10.52 | 15.15 | 10.19 | 15.44 | 9.06  |
|                  | 43                                | 10.39                         | 9.37 | 12.26 | 9.79 | 13.80 | 11.02 | 14.70 | 10.79 | 14.85 | 10.41 | 15.00 | 10.08 | 15.28 | 8.96  |
|                  | 46                                | 10.39                         | 9.37 | 12.02 | 9.59 | 13.35 | 11.02 | 14.55 | 10.75 | 14.70 | 10.30 | 14.85 | 9.97  | 15.15 | 8.87  |
|                  | 48                                | 10.39                         | 9.37 | 11.89 | 9.49 | 12.90 | 10.69 | 14.10 | 10.64 | 14.55 | 10.19 | 14.40 | 9.87  | 14.70 | 8.78  |
|                  | 50                                | 10.20                         | 9.37 | 11.77 | 9.40 | 12.45 | 10.58 | 13.65 | 10.35 | 14.10 | 10.08 | 13.95 | 9.76  | 14.25 | 8.68  |

TC: Total Capacity    SC: Sensible Capacity    WB: Wet-bulb Temperature    DB: Dry-bulb Temperature

| Capacity<br>(kW) | Outdoor<br>temperature<br>(°C DB) | Indoor temperature (°C WB/DB) |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|-----------------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  |                                   | 14/20                         |       | 16/23 |       | 18/26 |       | 19/27 |       | 20/28 |       | 22/30 |       | 24/32 |       |
|                  |                                   | TC                            | SC    | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    |
|                  |                                   | kW                            | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    |
| 20               | 10                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 23.31 | 15.30 | 24.24 | 15.30 |
|                  | 12                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 23.31 | 15.30 | 24.02 | 15.00 |
|                  | 14                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 23.10 | 15.30 | 23.81 | 15.00 |
|                  | 16                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 22.89 | 15.30 | 23.60 | 14.50 |
|                  | 18                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 22.68 | 15.30 | 23.38 | 14.30 |
|                  | 19                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 22.48 | 15.30 | 23.17 | 13.80 |
|                  | 21                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 22.27 | 15.30 | 22.94 | 13.80 |
|                  | 23                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 22.06 | 14.80 | 22.73 | 13.80 |
|                  | 25                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.78 | 15.50 | 21.85 | 14.60 | 22.52 | 13.70 |
|                  | 27                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.57 | 15.50 | 21.64 | 14.60 | 22.30 | 13.70 |
|                  | 29                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.37 | 15.50 | 21.44 | 14.10 | 22.09 | 13.52 |
|                  | 31                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 21.17 | 15.50 | 21.23 | 14.10 | 21.87 | 13.50 |
|                  | 33                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 20.96 | 15.50 | 21.02 | 14.10 | 21.66 | 13.46 |
|                  | 35                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 20.66 | 15.30 | 20.81 | 13.30 | 21.44 | 13.40 |
|                  | 37                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 20.35 | 15.30 | 20.60 | 13.30 | 21.02 | 13.35 |
|                  | 39                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.85 | 14.40 | 20.00 | 14.60 | 20.20 | 14.60 | 20.40 | 13.30 | 20.80 | 13.29 |
|                  | 41                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.60 | 14.35 | 19.80 | 14.48 | 20.00 | 14.51 | 20.20 | 13.11 | 20.59 | 13.01 |
|                  | 43                                | 13.85                         | 12.60 | 16.35 | 13.60 | 18.40 | 14.30 | 19.60 | 14.39 | 19.80 | 14.36 | 20.00 | 12.94 | 20.37 | 12.78 |
|                  | 46                                | 13.85                         | 12.60 | 16.02 | 13.35 | 17.80 | 14.22 | 19.40 | 14.22 | 19.60 | 14.22 | 19.80 | 12.78 | 20.20 | 12.63 |
|                  | 48                                | 13.85                         | 12.60 | 15.86 | 13.26 | 17.20 | 13.98 | 18.80 | 13.89 | 19.40 | 14.02 | 19.20 | 12.40 | 19.60 | 12.25 |
|                  | 50                                | 13.60                         | 12.51 | 15.70 | 13.20 | 16.60 | 13.51 | 18.20 | 13.47 | 18.80 | 13.56 | 18.60 | 11.91 | 19.00 | 11.96 |
| 25               | 10                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 29.14 | 19.13 | 30.30 | 19.13 |
|                  | 12                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 29.14 | 19.13 | 30.03 | 18.75 |
|                  | 14                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 28.87 | 19.13 | 29.76 | 18.75 |
|                  | 16                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 28.61 | 19.13 | 29.49 | 18.13 |
|                  | 18                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 28.35 | 19.13 | 29.23 | 17.88 |
|                  | 19                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 28.10 | 19.13 | 28.96 | 17.25 |
|                  | 21                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 27.84 | 19.13 | 28.68 | 17.25 |
|                  | 23                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 27.57 | 18.50 | 28.41 | 17.25 |
|                  | 25                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 27.22 | 19.38 | 27.31 | 18.25 | 28.14 | 17.13 |
|                  | 27                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 26.96 | 19.38 | 27.05 | 18.25 | 27.88 | 17.13 |
|                  | 29                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 26.71 | 19.38 | 26.80 | 17.63 | 27.61 | 16.90 |
|                  | 31                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 26.46 | 19.38 | 26.54 | 17.63 | 27.34 | 16.88 |
|                  | 33                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 26.20 | 19.38 | 26.27 | 17.63 | 27.07 | 16.83 |
|                  | 35                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 25.82 | 19.13 | 26.01 | 16.63 | 26.81 | 16.75 |
|                  | 37                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 25.44 | 19.13 | 25.75 | 16.63 | 26.27 | 16.69 |
|                  | 39                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.56 | 18.00 | 25.00 | 18.25 | 25.25 | 18.25 | 25.50 | 16.63 | 26.00 | 16.61 |
|                  | 41                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.25 | 17.94 | 24.75 | 18.10 | 25.00 | 18.14 | 25.25 | 16.39 | 25.73 | 16.26 |
|                  | 43                                | 17.31                         | 15.75 | 20.44 | 17.00 | 23.00 | 17.88 | 24.50 | 17.99 | 24.75 | 17.95 | 25.00 | 16.18 | 25.47 | 15.98 |
|                  | 46                                | 17.31                         | 15.75 | 20.03 | 16.69 | 22.25 | 17.78 | 24.25 | 17.78 | 24.50 | 17.78 | 24.75 | 15.98 | 25.25 | 15.79 |
|                  | 48                                | 17.31                         | 15.75 | 19.82 | 16.58 | 21.50 | 17.48 | 23.50 | 17.36 | 24.25 | 17.53 | 24.00 | 15.50 | 24.50 | 15.31 |
|                  | 50                                | 17.00                         | 15.64 | 19.62 | 16.50 | 20.75 | 16.89 | 22.75 | 16.84 | 23.50 | 16.95 | 23.25 | 14.89 | 23.75 | 14.95 |
| 28               | 10                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 32.63 | 21.42 | 33.93 | 21.42 |
|                  | 12                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 32.63 | 21.42 | 33.63 | 21.00 |
|                  | 14                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 32.33 | 21.42 | 33.33 | 21.00 |
|                  | 16                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 32.04 | 21.42 | 33.03 | 20.30 |
|                  | 18                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 31.76 | 21.42 | 32.73 | 20.02 |
|                  | 19                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 31.47 | 21.42 | 32.43 | 19.32 |
|                  | 21                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 31.18 | 21.42 | 32.12 | 19.32 |
|                  | 23                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 30.88 | 20.72 | 31.82 | 19.32 |
|                  | 25                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.49 | 21.70 | 30.59 | 20.44 | 31.52 | 19.18 |
|                  | 27                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 30.20 | 21.70 | 30.30 | 20.44 | 31.22 | 19.18 |
|                  | 29                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 29.91 | 21.70 | 30.01 | 19.74 | 30.92 | 18.93 |
|                  | 31                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 29.63 | 21.70 | 29.72 | 19.74 | 30.62 | 18.90 |
|                  | 33                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 29.34 | 21.70 | 29.42 | 19.74 | 30.32 | 18.84 |
|                  | 35                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 28.92 | 21.42 | 29.13 | 18.62 | 30.02 | 18.76 |
|                  | 37                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 28.49 | 21.42 | 28.84 | 18.62 | 29.42 | 18.69 |
|                  | 39                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.39 | 20.16 | 28.00 | 20.44 | 28.28 | 20.44 | 28.56 | 18.62 | 29.12 | 18.61 |
|                  | 41                                | 19.39                         | 17.64 | 22.89 | 19.04 | 26.04 | 20.09 | 27.72 | 20.27 | 28.00 | 20.31 | 28.28 | 18.35 | 28.82 | 18.21 |
|                  | 43                                | 19.39                         | 17.64 | 22.89 | 19.04 | 25.76 | 20.02 | 27.44 | 20.15 | 27.72 | 20.10 | 28.00 | 18.12 | 28.52 | 17.89 |
|                  | 46                                | 19.39                         | 17.64 | 22.43 | 18.69 | 24.92 | 19.91 | 27.16 | 19.91 | 27.44 | 19.91 | 27.72 | 17.89 | 28.28 | 17.68 |
|                  | 48                                | 19.39                         | 17.64 | 22.20 | 18.56 | 24.08 | 19.57 | 26.32 | 19.45 | 27.16 | 19.63 | 26.88 | 17.36 | 27.44 | 17.15 |
|                  | 50                                | 19.04                         | 17.51 | 21.98 | 18.48 | 23.24 | 18.91 | 25.48 | 18.86 | 26.32 | 18.98 | 26.04 | 16.67 | 26.60 | 16.74 |

TC: Total Capacity    SC: Sensible Capacity    WB: Wet-bulb Temperature    DB: Dry-bulb Temperature

| Capacity<br>(kW) | Outdoor<br>temperature<br>(°C DB) | Indoor temperature (°C WB/DB) |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|-----------------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  |                                   | 14/20                         |       | 16/23 |       | 18/26 |       | 19/27 |       | 20/28 |       | 22/30 |       | 24/32 |       |
|                  |                                   | TC                            | SC    | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    | TC    | SC    |
|                  |                                   | kW                            | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    | kW    |
| 35               | 10                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 42.44 | 24.43 | 44.53 | 24.43 |
|                  | 12                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 42.44 | 24.43 | 44.05 | 23.75 |
|                  | 14                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 41.96 | 24.43 | 43.57 | 23.75 |
|                  | 16                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 41.49 | 24.43 | 43.08 | 22.63 |
|                  | 18                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 41.04 | 24.43 | 42.6  | 22.18 |
|                  | 19                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 40.58 | 24.43 | 42.12 | 21.05 |
|                  | 21                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 40.11 | 24.43 | 41.62 | 21.05 |
|                  | 23                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 39.63 | 23.3  | 41.14 | 21.05 |
|                  | 25                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 39    | 24.88 | 39.16 | 22.85 | 40.66 | 20.83 |
|                  | 27                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 38.54 | 24.88 | 38.7  | 22.85 | 40.18 | 20.83 |
|                  | 29                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 38.07 | 24.88 | 38.23 | 21.73 | 39.69 | 20.42 |
|                  | 31                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 37.62 | 24.88 | 37.76 | 21.73 | 39.21 | 20.38 |
|                  | 33                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 37.15 | 24.88 | 37.28 | 21.73 | 38.73 | 20.28 |
|                  | 35                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 36.48 | 24.43 | 36.82 | 19.93 | 38.25 | 20.15 |
|                  | 37                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 35.79 | 24.43 | 36.35 | 19.93 | 37.28 | 20.04 |
|                  | 39                                | 21.13                         | 18.32 | 26.76 | 20.57 | 32.38 | 22.37 | 35    | 22.85 | 35.45 | 22.85 | 35.9  | 19.93 | 36.8  | 19.91 |
|                  | 41                                | 21.13                         | 18.32 | 26.76 | 20.57 | 31.82 | 22.26 | 34.52 | 22.55 | 34.97 | 22.61 | 35.42 | 19.46 | 36.29 | 19.24 |
|                  | 43                                | 21.13                         | 18.32 | 26.76 | 20.57 | 31.37 | 22.15 | 34.07 | 22.35 | 34.52 | 22.27 | 34.97 | 19.09 | 35.81 | 18.72 |
|                  | 46                                | 21.13                         | 18.32 | 26.02 | 20.01 | 30.02 | 21.97 | 33.62 | 21.97 | 34.07 | 21.97 | 34.52 | 18.72 | 35.42 | 18.38 |
|                  | 48                                | 21.13                         | 18.32 | 25.65 | 19.8  | 28.67 | 21.42 | 32.27 | 21.23 | 33.62 | 21.52 | 33.17 | 17.87 | 34.07 | 17.53 |
|                  | 50                                | 20.57                         | 18.11 | 25.3  | 19.67 | 27.32 | 20.36 | 30.92 | 20.28 | 32.27 | 20.47 | 31.82 | 16.76 | 32.72 | 16.87 |
| 52               | 10                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 61.26 | 38.84 | 63.86 | 38.84 |
|                  | 12                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 61.26 | 38.84 | 63.26 | 38    |
|                  | 14                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 60.66 | 38.84 | 62.66 | 38    |
|                  | 16                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 60.08 | 38.84 | 62.06 | 36.6  |
|                  | 18                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 59.52 | 38.84 | 61.46 | 36.04 |
|                  | 19                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 58.94 | 38.84 | 60.86 | 34.64 |
|                  | 21                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 58.36 | 38.84 | 60.24 | 34.64 |
|                  | 23                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 57.76 | 37.44 | 59.64 | 34.64 |
|                  | 25                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.98 | 39.4  | 57.18 | 36.88 | 59.04 | 34.36 |
|                  | 27                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 56.4  | 39.4  | 56.6  | 36.88 | 58.44 | 34.36 |
|                  | 29                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 55.82 | 39.4  | 56.02 | 35.48 | 57.84 | 33.86 |
|                  | 31                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 55.26 | 39.4  | 55.44 | 35.48 | 57.24 | 33.8  |
|                  | 33                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 54.68 | 39.4  | 54.84 | 35.48 | 56.64 | 33.68 |
|                  | 35                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 53.84 | 38.84 | 54.26 | 33.24 | 56.04 | 33.52 |
|                  | 37                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 52.98 | 38.84 | 53.68 | 33.24 | 54.84 | 33.38 |
|                  | 39                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.79 | 36.33 | 52    | 36.88 | 52.56 | 36.88 | 53.12 | 33.24 | 54.24 | 33.22 |
|                  | 41                                | 34.79                         | 31.29 | 41.79 | 34.09 | 48.09 | 36.19 | 51.45 | 36.55 | 52.01 | 36.63 | 52.57 | 32.71 | 53.65 | 32.43 |
|                  | 43                                | 34.79                         | 31.29 | 41.79 | 34.09 | 47.53 | 36.05 | 50.89 | 36.31 | 51.45 | 36.21 | 52.01 | 32.25 | 53.05 | 31.79 |
|                  | 46                                | 34.79                         | 31.29 | 40.87 | 33.39 | 45.85 | 35.83 | 50.33 | 35.83 | 50.89 | 35.83 | 51.45 | 31.79 | 52.57 | 31.37 |
|                  | 48                                | 34.79                         | 31.29 | 40.41 | 33.13 | 44.17 | 35.15 | 48.65 | 34.91 | 50.33 | 35.27 | 49.77 | 30.73 | 50.89 | 30.31 |
|                  | 50                                | 34.09                         | 31.03 | 39.97 | 32.97 | 42.49 | 33.83 | 46.97 | 33.73 | 48.65 | 33.97 | 48.09 | 29.35 | 49.21 | 29.49 |

## 7.2 Heating

TC: Total Capacity WB: Wet-bulb Temperature DB: Dry-bulb Temperature

| Capacity (kW) | Outdoor temperature (°C) |       | Indoor temperature (°C DB) |       |       |      |      |      |
|---------------|--------------------------|-------|----------------------------|-------|-------|------|------|------|
|               |                          |       | 16                         | 18    | 20    | 21   | 22   | 24   |
|               |                          |       | TC                         | TC    | TC    | TC   | TC   | TC   |
|               | WB                       | DB    | kW                         | kW    | kW    | kW   | kW   | kW   |
| 7.1           | -20                      | -19.8 | 4.48                       | 4.48  | 4.48  | 4.48 | 4.48 | 4.48 |
|               | -19                      | -18.8 | 4.80                       | 4.80  | 4.80  | 4.80 | 4.80 | 4.80 |
|               | -17                      | -16.7 | 5.04                       | 5.04  | 5.04  | 5.04 | 5.04 | 5.04 |
|               | -15                      | -14.7 | 5.20                       | 5.20  | 5.20  | 5.20 | 5.20 | 5.20 |
|               | -13                      | -12.6 | 5.36                       | 5.36  | 5.36  | 5.36 | 5.36 | 5.36 |
|               | -11                      | -10.5 | 5.60                       | 5.60  | 5.60  | 5.60 | 5.60 | 5.60 |
|               | -10                      | -9.5  | 5.84                       | 5.84  | 5.84  | 5.84 | 5.84 | 5.84 |
|               | -9.1                     | -8.5  | 6.00                       | 6.00  | 6.00  | 6.00 | 6.00 | 6.00 |
|               | -7.6                     | -7    | 6.08                       | 6.08  | 6.08  | 6.08 | 6.08 | 6.08 |
|               | -5.6                     | -5    | 6.32                       | 6.32  | 6.32  | 6.32 | 6.32 | 6.32 |
|               | -3.7                     | -3    | 6.64                       | 6.64  | 6.64  | 6.64 | 6.64 | 6.64 |
|               | -0.7                     | 0     | 7.12                       | 7.12  | 7.12  | 7.12 | 7.12 | 6.72 |
|               | 2.2                      | 3     | 7.52                       | 7.52  | 7.52  | 7.52 | 7.36 | 6.72 |
|               | 4.1                      | 5     | 7.76                       | 7.76  | 7.76  | 7.76 | 7.36 | 6.72 |
|               | 6                        | 7     | 8.00                       | 8.00  | 7.80  | 7.76 | 7.36 | 6.72 |
|               | 7.9                      | 9     | 8.24                       | 8.24  | 7.80  | 7.76 | 7.36 | 6.72 |
|               | 9.8                      | 11    | 8.48                       | 8.48  | 7.80  | 7.76 | 7.36 | 6.72 |
|               | 11.8                     | 13    | 8.80                       | 8.64  | 7.80  | 7.76 | 7.36 | 6.72 |
|               | 13.7                     | 15    | 9.04                       | 8.64  | 7.80  | 7.76 | 7.36 | 6.72 |
| 8             | -20                      | -19.8 | 5.04                       | 5.04  | 5.04  | 5.04 | 5.04 | 5.04 |
|               | -19                      | -18.8 | 5.40                       | 5.40  | 5.40  | 5.40 | 5.40 | 5.40 |
|               | -17                      | -16.7 | 5.67                       | 5.67  | 5.67  | 5.67 | 5.67 | 5.67 |
|               | -15                      | -14.7 | 5.85                       | 5.85  | 5.85  | 5.85 | 5.85 | 5.85 |
|               | -13                      | -12.6 | 6.03                       | 6.03  | 6.03  | 6.03 | 6.03 | 6.03 |
|               | -11                      | -10.5 | 6.30                       | 6.30  | 6.30  | 6.30 | 6.30 | 6.30 |
|               | -10                      | -9.5  | 6.57                       | 6.57  | 6.57  | 6.57 | 6.57 | 6.57 |
|               | -9.1                     | -8.5  | 6.75                       | 6.75  | 6.75  | 6.75 | 6.75 | 6.75 |
|               | -7.6                     | -7    | 6.84                       | 6.84  | 6.84  | 6.84 | 6.84 | 6.84 |
|               | -5.6                     | -5    | 7.11                       | 7.11  | 7.11  | 7.11 | 7.11 | 7.11 |
|               | -3.7                     | -3    | 7.47                       | 7.47  | 7.47  | 7.47 | 7.47 | 7.47 |
|               | -0.7                     | 0     | 8.01                       | 8.01  | 8.01  | 8.01 | 8.01 | 7.56 |
|               | 2.2                      | 3     | 8.46                       | 8.46  | 8.46  | 8.46 | 8.28 | 7.56 |
|               | 4.1                      | 5     | 8.73                       | 8.73  | 8.73  | 8.73 | 8.28 | 7.56 |
|               | 6                        | 7     | 9.00                       | 9.00  | 8.80  | 8.73 | 8.28 | 7.56 |
|               | 7.9                      | 9     | 9.27                       | 9.27  | 8.80  | 8.73 | 8.28 | 7.56 |
|               | 9.8                      | 11    | 9.54                       | 9.54  | 8.80  | 8.73 | 8.28 | 7.56 |
|               | 11.8                     | 13    | 9.90                       | 9.72  | 8.80  | 8.73 | 8.28 | 7.56 |
|               | 13.7                     | 15    | 10.17                      | 9.72  | 8.80  | 8.73 | 8.28 | 7.56 |
| 9             | -20                      | -19.8 | 5.60                       | 5.04  | 5.60  | 5.60 | 5.60 | 5.60 |
|               | -19                      | -18.8 | 6.00                       | 5.40  | 6.00  | 6.00 | 6.00 | 6.00 |
|               | -17                      | -16.7 | 6.30                       | 6.30  | 6.30  | 6.30 | 6.30 | 6.30 |
|               | -15                      | -14.7 | 6.50                       | 6.50  | 6.50  | 6.50 | 6.50 | 6.50 |
|               | -13                      | -12.6 | 6.70                       | 6.70  | 6.70  | 6.70 | 6.70 | 6.70 |
|               | -11                      | -10.5 | 7.00                       | 7.00  | 7.00  | 7.00 | 7.00 | 7.00 |
|               | -10                      | -9.5  | 7.30                       | 7.30  | 7.30  | 7.30 | 7.30 | 7.30 |
|               | -9.1                     | -8.5  | 7.50                       | 7.50  | 7.50  | 7.50 | 7.50 | 7.50 |
|               | -7.6                     | -7    | 7.60                       | 7.60  | 7.60  | 7.60 | 7.60 | 7.60 |
|               | -5.6                     | -5    | 7.90                       | 7.90  | 7.90  | 7.90 | 7.90 | 7.90 |
|               | -3.7                     | -3    | 8.30                       | 8.30  | 8.30  | 8.30 | 8.30 | 8.30 |
|               | -0.7                     | 0     | 8.90                       | 8.90  | 8.90  | 8.90 | 8.90 | 8.40 |
|               | 2.2                      | 3     | 9.40                       | 9.40  | 9.40  | 9.40 | 9.20 | 8.40 |
|               | 4.1                      | 5     | 9.70                       | 9.70  | 9.70  | 9.70 | 9.20 | 8.40 |
|               | 6                        | 7     | 10.00                      | 10.00 | 10.00 | 9.70 | 9.20 | 8.40 |
|               | 7.9                      | 9     | 10.30                      | 10.30 | 10.00 | 9.70 | 9.20 | 8.40 |
|               | 9.8                      | 11    | 10.60                      | 10.60 | 10.00 | 9.70 | 9.20 | 8.40 |
|               | 11.8                     | 13    | 11.00                      | 10.80 | 10.00 | 9.70 | 9.20 | 8.40 |
|               | 13.7                     | 15    | 11.30                      | 10.80 | 10.00 | 9.70 | 9.20 | 8.40 |

TC: Total Capacity WB: Wet-bulb Temperature DB: Dry-bulb Temperature

| Capacity (kW) | Outdoor temperature (°C) |       | Indoor temperature (°C DB) |       |       |       |       |       |
|---------------|--------------------------|-------|----------------------------|-------|-------|-------|-------|-------|
|               |                          |       | 16                         | 18    | 20    | 21    | 22    | 24    |
|               |                          |       | TC                         | TC    | TC    | TC    | TC    | TC    |
|               | WB                       | DB    | kW                         | kW    | kW    | kW    | kW    | kW    |
| 10            | -20                      | -19.8 | 6.25                       | 6.25  | 6.25  | 6.25  | 6.25  | 6.25  |
|               | -19                      | -18.8 | 6.70                       | 6.70  | 6.70  | 6.70  | 6.70  | 6.70  |
|               | -17                      | -16.7 | 7.04                       | 7.04  | 7.04  | 7.04  | 7.04  | 7.04  |
|               | -15                      | -14.7 | 7.26                       | 7.26  | 7.26  | 7.26  | 7.26  | 7.26  |
|               | -13                      | -12.6 | 7.48                       | 7.48  | 7.48  | 7.48  | 7.48  | 7.48  |
|               | -11                      | -10.5 | 7.81                       | 7.81  | 7.81  | 7.81  | 7.81  | 7.81  |
|               | -10                      | -9.5  | 8.15                       | 8.15  | 8.15  | 8.15  | 8.15  | 8.15  |
|               | -9.1                     | -8.5  | 8.38                       | 8.38  | 8.38  | 8.38  | 8.38  | 8.38  |
|               | -7.6                     | -7    | 8.48                       | 8.48  | 8.48  | 8.48  | 8.48  | 8.48  |
|               | -5.6                     | -5    | 8.82                       | 8.82  | 8.82  | 8.82  | 8.82  | 8.82  |
|               | -3.7                     | -3    | 9.27                       | 9.27  | 9.27  | 9.27  | 9.27  | 9.27  |
|               | -0.7                     | 0     | 9.94                       | 9.94  | 9.94  | 9.94  | 9.94  | 9.38  |
|               | 2.2                      | 3     | 10.49                      | 10.49 | 10.49 | 10.49 | 10.27 | 9.38  |
|               | 4.1                      | 5     | 10.83                      | 10.83 | 10.83 | 10.83 | 10.27 | 9.38  |
|               | 6                        | 7     | 11.00                      | 11.00 | 11.00 | 10.83 | 10.27 | 9.38  |
|               | 7.9                      | 9     | 11.50                      | 11.50 | 11.00 | 10.83 | 10.27 | 9.38  |
|               | 9.8                      | 11    | 11.83                      | 11.83 | 11.00 | 10.83 | 10.27 | 9.38  |
| 12            | 11.8                     | 13    | 12.28                      | 12.05 | 11.00 | 10.83 | 10.27 | 9.38  |
|               | 13.7                     | 15    | 12.62                      | 12.05 | 11.00 | 10.83 | 10.27 | 9.38  |
|               | -20                      | -19.8 | 7.50                       | 7.50  | 7.50  | 7.50  | 7.50  | 7.50  |
|               | -19                      | -18.8 | 8.04                       | 8.04  | 8.04  | 8.04  | 8.04  | 8.04  |
|               | -17                      | -16.7 | 8.44                       | 8.44  | 8.44  | 8.44  | 8.44  | 8.44  |
|               | -15                      | -14.7 | 8.71                       | 8.71  | 8.71  | 8.71  | 8.71  | 8.71  |
|               | -13                      | -12.6 | 8.98                       | 8.98  | 8.98  | 8.98  | 8.98  | 8.98  |
|               | -11                      | -10.5 | 9.38                       | 9.38  | 9.38  | 9.38  | 9.38  | 9.38  |
|               | -10                      | -9.5  | 9.78                       | 9.78  | 9.78  | 9.78  | 9.78  | 9.78  |
|               | -9.1                     | -8.5  | 10.05                      | 10.05 | 10.05 | 10.05 | 10.05 | 10.05 |
|               | -7.6                     | -7    | 10.18                      | 10.18 | 10.18 | 10.18 | 10.18 | 10.18 |
|               | -5.6                     | -5    | 10.59                      | 10.59 | 10.59 | 10.59 | 10.59 | 10.59 |
|               | -3.7                     | -3    | 11.12                      | 11.12 | 11.12 | 11.12 | 11.12 | 11.12 |
|               | -0.7                     | 0     | 11.93                      | 11.93 | 11.93 | 11.93 | 11.93 | 11.25 |
|               | 2.2                      | 3     | 12.59                      | 12.59 | 12.59 | 12.59 | 12.32 | 11.25 |
|               | 4.1                      | 5     | 13.00                      | 13.00 | 13.00 | 13.00 | 12.32 | 11.25 |
|               | 6                        | 7     | 13.39                      | 13.39 | 13.00 | 13.00 | 12.32 | 11.25 |
| 15            | 7.9                      | 9     | 13.80                      | 13.80 | 13.00 | 13.00 | 12.32 | 11.25 |
|               | 9.8                      | 11    | 14.20                      | 14.20 | 13.00 | 13.00 | 12.32 | 11.25 |
|               | 11.8                     | 13    | 14.73                      | 14.46 | 13.00 | 13.00 | 12.32 | 11.25 |
|               | 13.7                     | 15    | 15.14                      | 14.46 | 13.00 | 13.00 | 12.32 | 11.25 |
|               | -20                      | -19.8 | 9.20                       | 9.20  | 9.20  | 9.20  | 9.20  | 9.20  |
|               | -19                      | -18.8 | 9.90                       | 9.90  | 9.90  | 9.90  | 9.90  | 9.90  |
|               | -17                      | -16.7 | 10.40                      | 10.40 | 10.40 | 10.40 | 10.40 | 10.40 |
|               | -15                      | -14.7 | 10.70                      | 10.70 | 10.70 | 10.70 | 10.70 | 10.70 |
|               | -13                      | -12.6 | 11.40                      | 11.40 | 11.40 | 11.40 | 11.40 | 11.40 |
|               | -11                      | -10.5 | 11.60                      | 11.70 | 11.70 | 11.70 | 11.70 | 11.70 |
|               | -10                      | -9.5  | 12.00                      | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 |
|               | -9.1                     | -8.5  | 12.40                      | 12.40 | 12.40 | 12.40 | 12.40 | 12.40 |
|               | -7.6                     | -7    | 12.50                      | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 |
|               | -5.6                     | -5    | 13.00                      | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 |
|               | -3.7                     | -3    | 13.70                      | 13.70 | 13.70 | 13.70 | 13.70 | 13.70 |
|               | -0.7                     | 0     | 14.70                      | 14.70 | 14.70 | 14.70 | 14.70 | 13.90 |
|               | 2.2                      | 3     | 15.50                      | 15.50 | 15.50 | 15.50 | 15.20 | 13.90 |
|               | 4.1                      | 5     | 17.00                      | 17.00 | 17.00 | 16.50 | 15.20 | 13.90 |
|               | 6                        | 7     | 17.50                      | 17.50 | 17.00 | 16.50 | 15.20 | 13.90 |
|               | 7.9                      | 9     | 18.00                      | 18.00 | 17.00 | 16.50 | 15.20 | 13.90 |
|               | 9.8                      | 11    | 18.50                      | 18.50 | 17.00 | 16.50 | 15.20 | 13.90 |
|               | 11.8                     | 13    | 19.20                      | 18.80 | 17.00 | 16.50 | 15.20 | 13.90 |
|               | 13.7                     | 15    | 19.60                      | 18.80 | 17.00 | 16.50 | 15.20 | 13.90 |

TC: Total Capacity WB: Wet-bulb Temperature DB: Dry-bulb Temperature

| Capacity (kW) | Outdoor temperature (°C) |       | Indoor temperature (°C DB) |       |       |       |       |       |
|---------------|--------------------------|-------|----------------------------|-------|-------|-------|-------|-------|
|               |                          |       | 16                         | 18    | 20    | 21    | 22    | 24    |
|               |                          |       | TC                         | TC    | TC    | TC    | TC    | TC    |
|               | WB                       | DB    | kW                         | kW    | kW    | kW    | kW    | kW    |
| 20            | -20                      | -19.8 | 12.60                      | 12.60 | 12.60 | 12.60 | 12.60 | 12.60 |
|               | -19                      | -18.8 | 13.50                      | 13.50 | 13.50 | 13.50 | 13.50 | 13.50 |
|               | -17                      | -16.7 | 14.20                      | 14.20 | 14.20 | 14.20 | 14.20 | 14.20 |
|               | -15                      | -14.7 | 14.60                      | 14.60 | 14.60 | 14.60 | 14.60 | 14.60 |
|               | -13                      | -12.6 | 15.50                      | 15.50 | 15.50 | 15.50 | 15.50 | 15.50 |
|               | -11                      | -10.5 | 15.80                      | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 |
|               | -10                      | -9.5  | 16.40                      | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 |
|               | -9.1                     | -8.5  | 16.90                      | 16.90 | 16.90 | 16.90 | 16.90 | 16.90 |
|               | -7.6                     | -7    | 17.10                      | 17.10 | 17.10 | 17.10 | 17.10 | 17.10 |
|               | -5.6                     | -5    | 17.80                      | 17.80 | 17.80 | 17.80 | 17.80 | 17.80 |
|               | -3.7                     | -3    | 18.70                      | 18.70 | 18.70 | 18.70 | 18.70 | 18.70 |
|               | -0.7                     | 0     | 20.00                      | 20.00 | 20.00 | 20.00 | 20.00 | 18.90 |
|               | 2.2                      | 3     | 21.20                      | 21.20 | 21.20 | 21.20 | 20.70 | 18.90 |
|               | 4.1                      | 5     | 21.80                      | 21.80 | 21.80 | 21.80 | 20.70 | 18.90 |
|               | 6                        | 7     | 22.50                      | 22.50 | 22.00 | 21.80 | 20.70 | 18.90 |
|               | 7.9                      | 9     | 23.20                      | 23.20 | 22.00 | 21.80 | 20.70 | 18.90 |
|               | 9.8                      | 11    | 23.90                      | 23.90 | 22.00 | 21.80 | 20.70 | 18.90 |
| 25            | 11.8                     | 13    | 24.80                      | 24.30 | 22.00 | 21.80 | 20.70 | 18.90 |
|               | 13.7                     | 15    | 25.40                      | 24.30 | 22.00 | 21.80 | 20.70 | 18.90 |
|               | -20                      | -19.8 | 14.56                      | 14.56 | 14.56 | 14.56 | 14.56 | 14.56 |
|               | -19                      | -18.8 | 15.60                      | 15.60 | 15.60 | 15.60 | 15.60 | 15.60 |
|               | -17                      | -16.7 | 16.38                      | 16.38 | 16.38 | 16.38 | 16.38 | 16.38 |
|               | -15                      | -14.7 | 16.90                      | 16.90 | 16.90 | 16.90 | 16.90 | 16.90 |
|               | -13                      | -12.6 | 17.94                      | 17.94 | 17.94 | 17.94 | 17.94 | 17.94 |
|               | -11                      | -10.5 | 18.20                      | 18.46 | 18.46 | 18.46 | 18.46 | 18.46 |
|               | -10                      | -9.5  | 18.98                      | 18.98 | 18.98 | 18.98 | 18.98 | 18.98 |
|               | -9.1                     | -8.5  | 19.50                      | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 |
|               | -7.6                     | -7    | 19.76                      | 19.76 | 19.76 | 19.76 | 19.76 | 19.76 |
|               | -5.6                     | -5    | 20.54                      | 20.54 | 20.54 | 20.54 | 20.54 | 20.54 |
|               | -3.7                     | -3    | 21.58                      | 21.58 | 21.58 | 21.58 | 21.58 | 21.58 |
|               | -0.7                     | 0     | 23.14                      | 23.14 | 23.14 | 23.14 | 23.14 | 21.84 |
|               | 2.2                      | 3     | 24.44                      | 24.44 | 24.44 | 24.44 | 23.92 | 21.84 |
|               | 4.1                      | 5     | 25.22                      | 25.22 | 25.22 | 25.22 | 23.92 | 21.84 |
|               | 6                        | 7     | 27.50                      | 27.50 | 27.50 | 25.22 | 23.92 | 21.84 |
| 28            | 7.9                      | 9     | 27.78                      | 27.78 | 27.50 | 25.22 | 23.92 | 21.84 |
|               | 9.8                      | 11    | 28.56                      | 28.56 | 27.50 | 25.22 | 23.92 | 21.84 |
|               | 11.8                     | 13    | 29.08                      | 28.90 | 27.50 | 25.22 | 23.92 | 21.84 |
|               | 13.7                     | 15    | 29.38                      | 29.08 | 27.50 | 25.22 | 23.92 | 21.84 |
|               | -20                      | -19.8 | 17.60                      | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 |
|               | -19                      | -18.8 | 18.90                      | 18.90 | 18.90 | 18.90 | 18.90 | 18.90 |
|               | -17                      | -16.7 | 19.80                      | 19.80 | 19.80 | 19.80 | 19.80 | 19.80 |
|               | -15                      | -14.7 | 20.50                      | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 |
|               | -13                      | -12.6 | 21.70                      | 21.70 | 21.70 | 21.70 | 21.70 | 21.70 |
|               | -11                      | -10.5 | 22.10                      | 22.40 | 22.40 | 22.40 | 22.40 | 22.40 |
|               | -10                      | -9.5  | 23.00                      | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
|               | -9.1                     | -8.5  | 23.60                      | 23.60 | 23.60 | 23.60 | 23.60 | 23.60 |
|               | -7.6                     | -7    | 23.90                      | 23.90 | 23.90 | 23.90 | 23.90 | 23.90 |
|               | -5.6                     | -5    | 24.90                      | 24.90 | 24.90 | 24.90 | 24.90 | 24.90 |
|               | -3.7                     | -3    | 26.10                      | 26.10 | 26.10 | 26.10 | 26.10 | 26.10 |
|               | -0.7                     | 0     | 28.00                      | 28.00 | 28.00 | 28.00 | 28.00 | 26.50 |
|               | 2.2                      | 3     | 29.60                      | 29.60 | 29.60 | 29.60 | 29.00 | 26.50 |
|               | 4.1                      | 5     | 30.20                      | 30.20 | 30.20 | 30.20 | 29.00 | 26.50 |
|               | 6                        | 7     | 30.80                      | 30.80 | 30.80 | 30.20 | 29.00 | 26.50 |
|               | 7.9                      | 9     | 31.40                      | 31.40 | 30.80 | 30.20 | 29.00 | 26.50 |
|               | 9.8                      | 11    | 32.40                      | 32.40 | 30.80 | 30.20 | 29.00 | 26.50 |
|               | 11.8                     | 13    | 33.70                      | 33.00 | 30.80 | 30.20 | 29.00 | 26.50 |
|               | 13.7                     | 15    | 34.60                      | 33.00 | 30.80 | 30.20 | 29.00 | 26.50 |

| TC: Total CapacityWB: Wet-bulb Temperature DB: Dry-bulb Temperature |                          |       |                            |      |      |      |      |      |
|---------------------------------------------------------------------|--------------------------|-------|----------------------------|------|------|------|------|------|
| Capacity (kW)                                                       | Outdoor temperature (°C) |       | Indoor temperature (°C DB) |      |      |      |      |      |
|                                                                     |                          |       | 16                         | 18   | 20   | 21   | 22   | 24   |
|                                                                     |                          |       | TC                         | TC   | TC   | TC   | TC   | TC   |
|                                                                     | WB                       | DB    | kW                         | kW   | kW   | kW   | kW   | kW   |
| 35                                                                  | -20                      | -19.8 | 18.8                       | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 |
|                                                                     | -19                      | -18.8 | 20.9                       | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 |
|                                                                     | -17                      | -16.7 | 22.3                       | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 |
|                                                                     | -15                      | -14.7 | 23.5                       | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
|                                                                     | -13                      | -12.6 | 25.4                       | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 |
|                                                                     | -11                      | -10.5 | 26.1                       | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
|                                                                     | -10                      | -9.5  | 27.5                       | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 |
|                                                                     | -9.1                     | -8.5  | 28.5                       | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
|                                                                     | -7.6                     | -7    | 29                         | 29   | 29   | 29   | 29   | 29   |
|                                                                     | -5.6                     | -5    | 30.6                       | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 |
|                                                                     | -3.7                     | -3    | 32.6                       | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 |
|                                                                     | -0.7                     | 0     | 35.7                       | 35.7 | 35.7 | 35.7 | 35.7 | 33.2 |
|                                                                     | 2.2                      | 3     | 38.3                       | 38.3 | 38.3 | 38.3 | 37.3 | 33.2 |
|                                                                     | 4.1                      | 5     | 39.2                       | 39.2 | 39.2 | 39.2 | 37.3 | 33.2 |
|                                                                     | 6                        | 7     | 40.2                       | 40.2 | 40.2 | 38.5 | 37.3 | 33.2 |
|                                                                     | 7.9                      | 9     | 41.2                       | 41.2 | 40.2 | 38.5 | 37.3 | 33.2 |
| 52                                                                  | 9.8                      | 11    | 42.8                       | 42.8 | 40.2 | 38.5 | 37.3 | 33.2 |
|                                                                     | 11.8                     | 13    | 44.9                       | 43.8 | 40.2 | 38.5 | 37.3 | 33.2 |
|                                                                     | 13.7                     | 15    | 46.4                       | 43.8 | 40.2 | 38.5 | 37.3 | 33.2 |
|                                                                     | -20                      | -19.8 | 30.7                       | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 |
|                                                                     | -19                      | -18.8 | 33.4                       | 33.4 | 33.4 | 33.4 | 33.4 | 33.4 |
|                                                                     | -17                      | -16.7 | 35.2                       | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 |
|                                                                     | -15                      | -14.7 | 36.6                       | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 |
|                                                                     | -13                      | -12.6 | 39.1                       | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 |
|                                                                     | -11                      | -10.5 | 39.9                       | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 |
|                                                                     | -10                      | -9.5  | 41.7                       | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 |
|                                                                     | -9.1                     | -8.5  | 43                         | 43   | 43   | 43   | 43   | 43   |
|                                                                     | -7.6                     | -7    | 43.6                       | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 |
|                                                                     | -5.6                     | -5    | 45.6                       | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
|                                                                     | -3.7                     | -3    | 48.1                       | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 |
|                                                                     | -0.7                     | 0     | 52                         | 52   | 52   | 52   | 52   | 48.9 |
|                                                                     | 2.2                      | 3     | 55.2                       | 55.2 | 55.2 | 55.2 | 54   | 48.9 |
|                                                                     | 4.1                      | 5     | 56.5                       | 56.5 | 56.5 | 56.5 | 54   | 48.9 |
|                                                                     | 6                        | 7     | 57.7                       | 57.7 | 57.2 | 56.5 | 54   | 48.9 |
|                                                                     | 7.9                      | 9     | 58.9                       | 58.9 | 57.2 | 56.5 | 54   | 48.9 |
|                                                                     | 9.8                      | 11    | 61                         | 61   | 57.2 | 56.5 | 54   | 48.9 |
|                                                                     | 11.8                     | 13    | 63.6                       | 62.2 | 57.2 | 56.5 | 54   | 48.9 |
|                                                                     | 13.7                     | 15    | 65.5                       | 62.2 | 57.2 | 56.5 | 54   | 48.9 |

## 8. Electrical characteristics

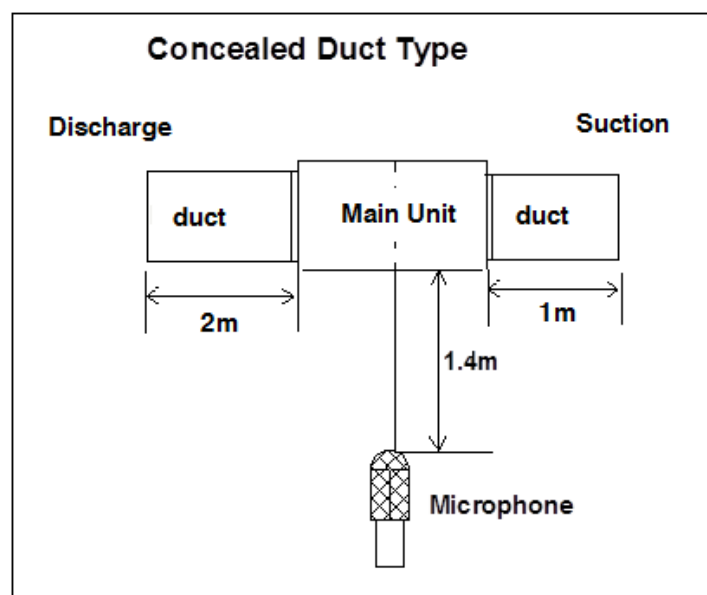
| Model        | Indoor unit |          |         |         | MFC | Power cable          |                      |                    | Signal cable           |
|--------------|-------------|----------|---------|---------|-----|----------------------|----------------------|--------------------|------------------------|
|              | Hz          | Voltage  | Minimum | Maximum |     | L ≤ 20m              | L ≤ 50m              | Grounded           |                        |
| CC-CAH024-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH028-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH030-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH034-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH040-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH050-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH070-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 4.0mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH085-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 4.0mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH096-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 2*2.5mm <sup>2</sup> | 2*4.0mm <sup>2</sup> | 4.0mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH120-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 4*2.5mm <sup>2</sup> | 4*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |
| CC-CAH180-1S | 60Hz        | 220-240V | 198     | 264     | 15  | 4*2.5mm <sup>2</sup> | 4*4.0mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2*0.75 mm <sup>2</sup> |

### Notes:

- 1) Minimum: Permitted minimum operating voltage, lower than this value may damage the system
- 2) Maximum: Permitted maximum operating voltage, higher than this value may damage the system
- 3) MC: Minimum Current (A)
- 4) MFC: Maximum Fuse Current (A)
- 5) Output: Fan motor rated powerOutput (W)
- 6) FLC: Full Load Current (A)

## 9. Sound pressure levels

### 9.1 Test condition



#### Notes:

*Semi-anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.4m*

### 9.2 Test data (Sound pressure level)

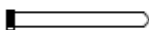
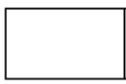
| Model        | Sound pressure level (dB(A)) |              |           |
|--------------|------------------------------|--------------|-----------|
|              | High speed                   | Medium speed | Low speed |
| CC-CAH024-1S | 42                           | 41           | 40        |
| CC-CAH028-1S | 42                           | 41           | 40        |
| CC-CAH030-1S | 42                           | 41           | 40        |
| CC-CAH034-1S | 52                           | 48           | 44        |
| CC-CAH040-1S | 52                           | 48           | 44        |
| CC-CAH050-1S | 52                           | 48           | 44        |
| CC-CAH070-1S | 53                           | 49           | 45        |
| CC-CAH085-1S | 54                           | 49           | 45        |
| CC-CAH096-1S | 54                           | 49           | 45        |
| CC-CAH120-1S | 63                           | 57           | 55        |
| CC-CAH180-1S | 67                           | 63           | 58        |

#### Notes:

*During actual operation, these values are normally somewhat higher as a result of ambient conditions.*

## 10. Accessories

### 10.1 Standard accessories.

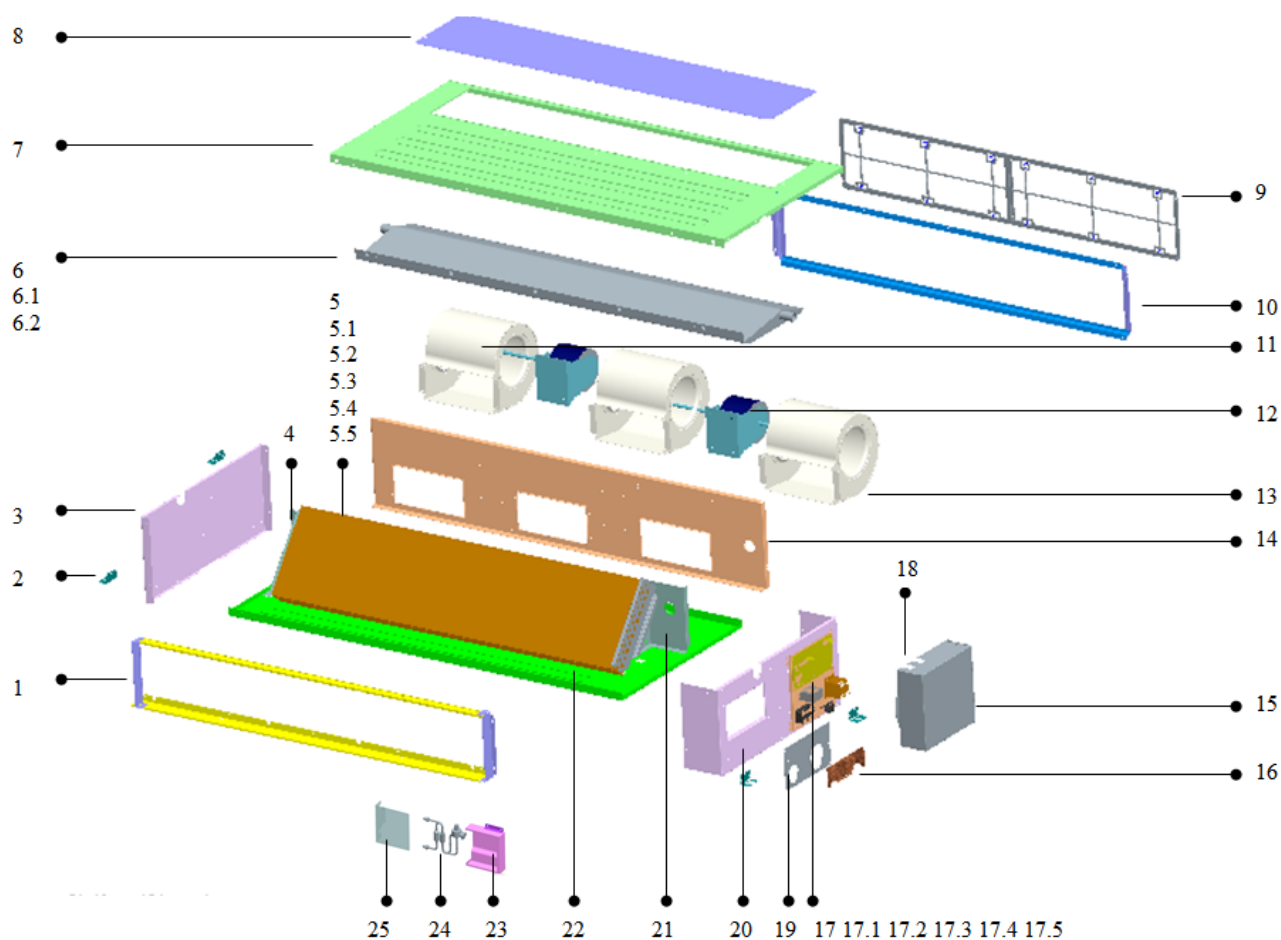
| Name of accessories                           | Numbers | Shape                                                                               | Application                                                                                                                                                                |
|-----------------------------------------------|---------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation instruction for indoor unit      | 1       | The manual                                                                          | (Please be sure to hand it to user.)                                                                                                                                       |
| Insulating tube                               | 2       |    | To encase single joints of high and low pressure pipes.                                                                                                                    |
| Ribbon                                        | 6       |    | Bind up cables and connecting pipes.                                                                                                                                       |
| Dome insulated tip                            | 6       |    | Used to connect wires                                                                                                                                                      |
| X-type insulated tip                          | 3       |    | Used to connect wires                                                                                                                                                      |
| Wire controller                               | 1       |    | Control A/C                                                                                                                                                                |
| Connecting pipe of electronic expansion valve | 1       |   | Connect electronic expansion valve and liquid side of indoor unit (Different models may have different sizes and calibers. Please install according to the real products.) |
| Connection wire for wire controller           | 1       |  | The wire that connect the wire controller and PCB                                                                                                                          |
| Blank valve bag                               | 3       |  | Used to contain accessories.                                                                                                                                               |

### 10.2 Parts purchased locally

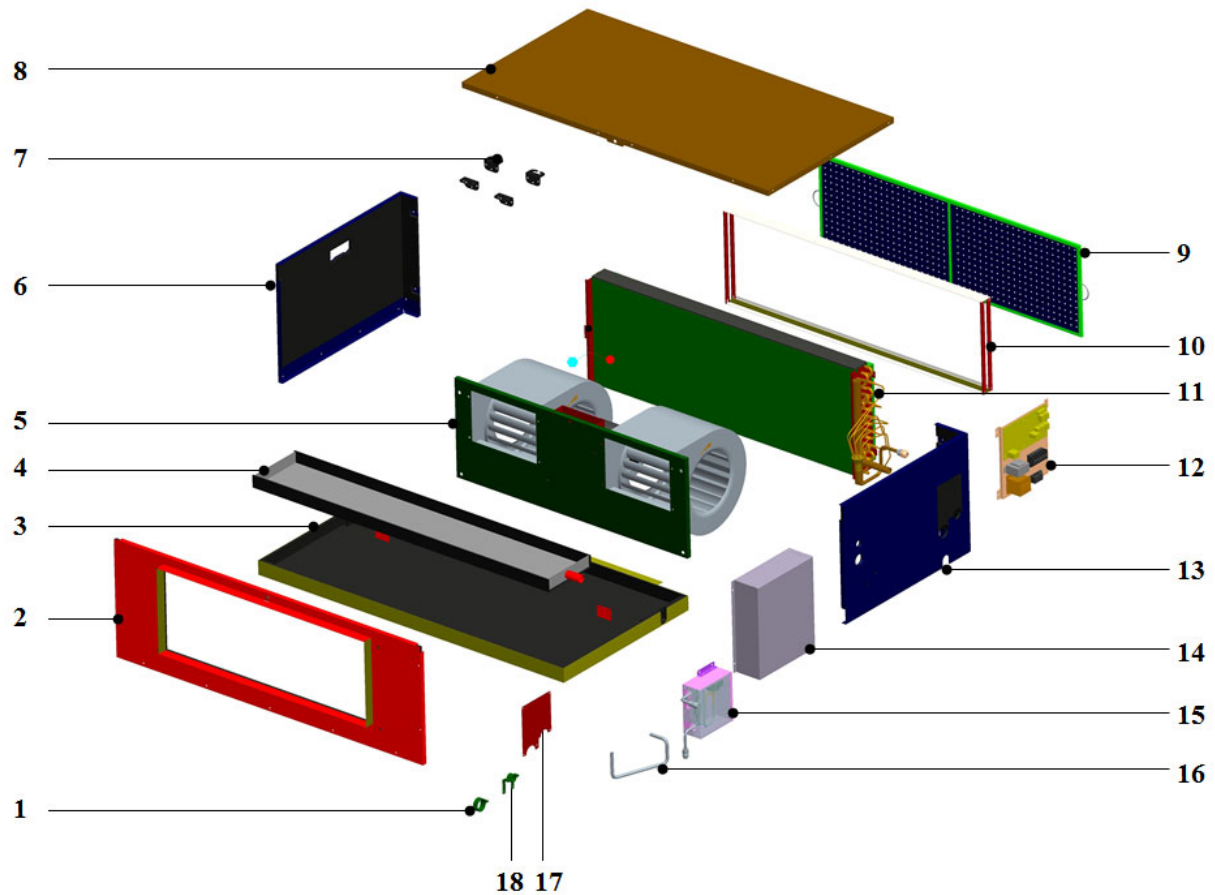
|                       | Type                                                                                                                                                                                                   | 2. 2kW~2. 8kW | 3. 2kW~5. 6kW | 6. 3kW~8. 0kW | 9. 0kW~16. 0kW | 20. 0kW~28. 0kW | 45. 0kW~56. 0kW |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|----------------|-----------------|-----------------|
| Cooper<br>pipe        | Liquid pipe<br>(mm)                                                                                                                                                                                    | φ 6.35 × 0.8  |               | φ 9.52 × 0.8  |                | φ 12.7 × 0.8    | φ 15.88 × 1.0   |
|                       | Gas pipe<br>(mm)                                                                                                                                                                                       | φ 9.52 × 0.8  | φ 12.7 × 0.8  | φ 15.88 × 1.0 |                | φ 22.2 × 1.0    | φ 28.6 × 1.2    |
| PVC<br>drainpipe      | For the indoor unit drainpipe. The length is decided according to the actual need.                                                                                                                     |               |               |               |                |                 |                 |
| Insulation<br>bushing | Assort inner diameter respectively with relevant copper pipe and hard polyethylene plastic pipe. The thickness is usually 10 mm (above). It should be appropriately thickened in closed and wet areas. |               |               |               |                |                 |                 |

## 11. Exploded view

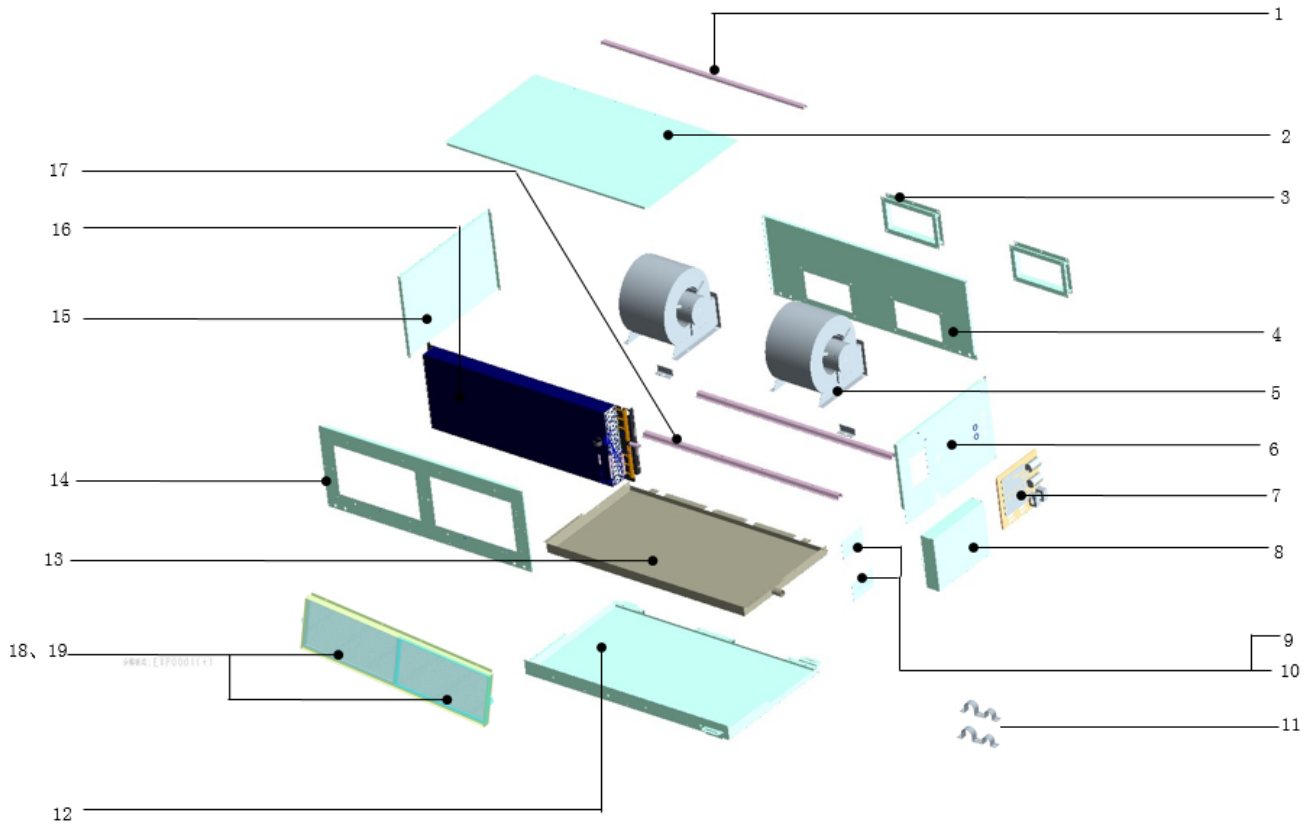
CC-CAH024-1S, CC-CAH028-1S, CC-CAH030-1S



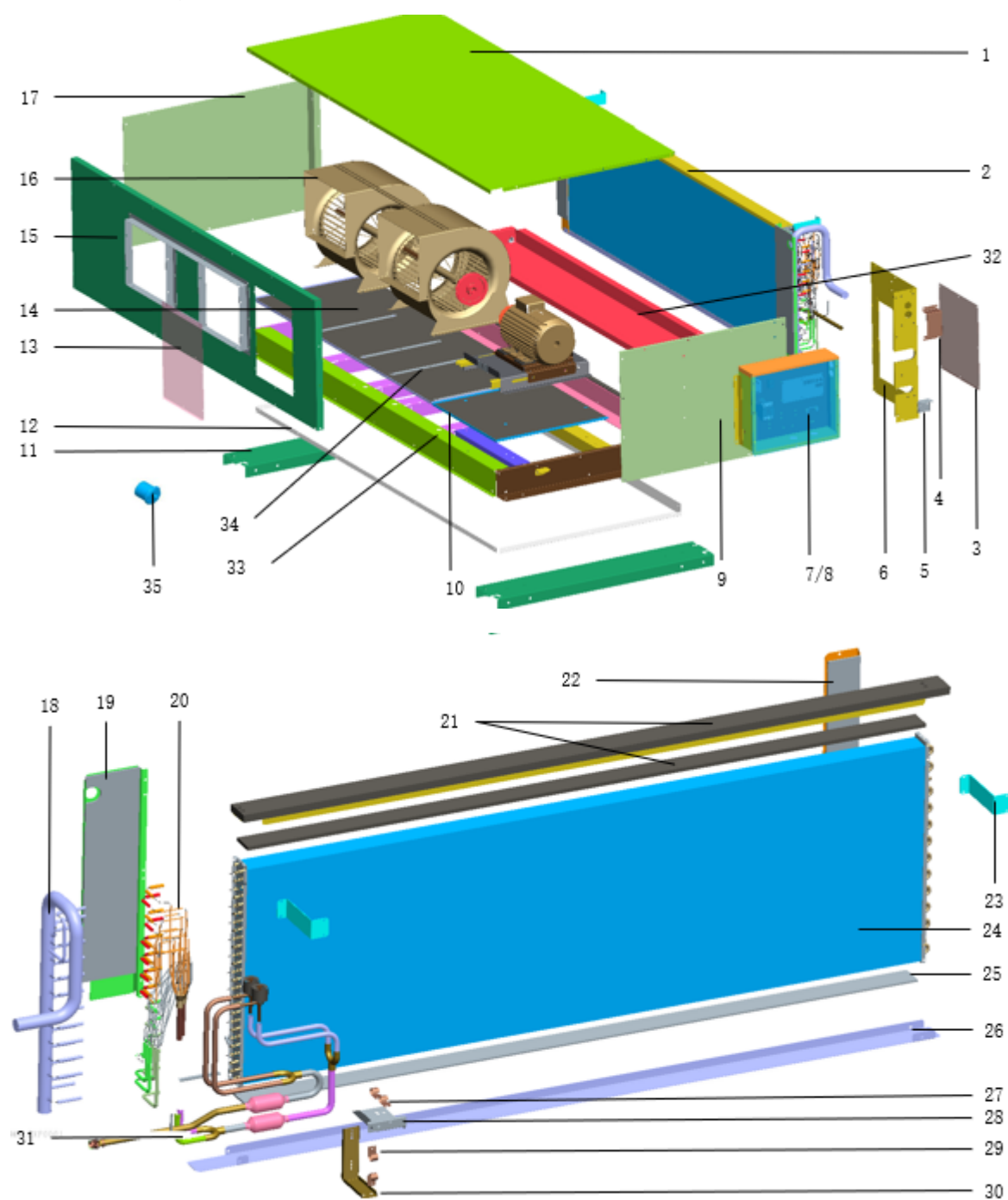
| No. | Part name                            | Quantity | No.  | Part name                               | Quantity |
|-----|--------------------------------------|----------|------|-----------------------------------------|----------|
| 1   | Air outlet assy                      | 1        | 13   | Right scroll case                       | 2        |
| 2   | Hanger                               | 4        | 14   | Fixing board assy for fan               | 1        |
| 3   | Left side board                      | 1        | 15   | E- parts box cover                      | 1        |
| 4   | Left connecting panel for evaporator | 1        | 16   | Small cover                             | 1        |
| 5   | Evaporator components                | 1        | 17   | Electronic control components           | 1        |
| 5.1 | Transition                           | 6        | 17.1 | Electronic control board of indoor unit | 1        |
| 5.2 | Current dividing assy                | 1        | 17.2 | Temp sensor                             | 1        |
| 5.3 | Collecting pipe assy                 | 1        | 17.3 | Transformer                             | 1        |
| 5.4 | Evaporator assy                      | 1        | 17.4 | Terminal                                | 1        |
| 5.5 | Installation tube for probe          | 1        | 17.5 | Groove clamp 7                          | 2        |
| 6   | Water pan assy                       | 1        | 18   | E- parts box base                       | 1        |
| 6.1 | Discharge pipe assy                  | 2        | 19   | Big cover                               | 1        |
| 6.2 | Rubber cover for water outlet joint  | 2        | 20   | Right side board                        | 1        |
| 7   | Lower panel                          | 1        | 21   | Right connecting panel for evaporator   | 1        |
| 8   | Air return baffle                    | 1        | 22   | Upper panel                             | 1        |
| 9   | Air filter                           | 2        | 23   | Welding assy for large expansion valve  | 1        |
| 10  | Air return assy                      | 1        | 24   | EXV box welding assy                    | 1        |
| 11  | Left scroll case                     | 1        | 25   | Large expansion valve cover             | 1        |
| 12  | Indoor motor                         | 2        |      |                                         |          |



| No. | Part name                 | Quantity | No.  | Part name                                    | Quantity |
|-----|---------------------------|----------|------|----------------------------------------------|----------|
| 1   | Pipe clamp1               | 1        | 11.1 | Evaporator                                   | 1        |
| 1a  | Pipe clamp2               | 1        | 11.2 | Current dividing assy                        | 1        |
| 2   | Front panel assy          | 2        | 11.3 | Air inlet header pipe assembly of evaporator | 1        |
| 2.1 | Front panel               | 1        | 12   | E-parts assy                                 | 1        |
| 3   | Chassis assy              | 1        | 12.1 | Electric box panel                           | 1        |
| 3.1 | Chassis                   | 1        | 12.2 | Indoor E-parts box                           | 1        |
| 4   | Water pan welding assy    | 1        | 12.3 | Temperature sensors                          | 1        |
| 4.1 | Water pan welding assy    | 1        | 12.4 | Capacitor                                    | 1        |
| 4.2 | Water outlet rubber cover | 1        | 12.5 | Compressor capacitor                         | 1        |
| 5   | Indoor E-parts box        | 1        | 12.6 | Transformer                                  | 1        |
| 5.1 | Fixing panel for fan      | 1        | 12.7 | Terminal                                     | 1        |
| 5.2 | Motor                     | 1        | 13   | Right side board assy                        | 1        |
| 5.3 | Left scroll case          | 1        | 13.1 | Right side board                             | 1        |
| 5.4 | Right scroll case         | 1        | 14   | Electric box cover                           | 1        |
| 6   | Left side board assy      | 1        | 15   | Welding assy for expansion valve             | 1        |
| 6.1 | Left side board           | 1        | 15.1 | Welding assy for expansion valve             | 1        |
| 6.2 | Handle                    | 1        | 15.2 | Expansion valve cover                        | 1        |
| 7   | Hanger                    | 4        | 15.3 | EXV box welding assy                         | 1        |
| 8   | Top Cover assembly        | 1        | 16   | pipe connection assy                         | 1        |
| 8.1 | Upper cover               | 1        | 17   | Cover for chassis assy                       | 1        |
| 9   | Filter                    | 2        | 17.1 | Cover for chassis                            | 1        |
| 10  | Retune air welding assy   | 1        | 18   | Lower Pipe clamp1                            | 1        |
| 11  | Evaporator assy           | 1        | 18a  | Upper Pipe clamp1                            | 1        |



| No.   | Part name                                        | Quantity | No.  | Part name                           | Quantity |
|-------|--------------------------------------------------|----------|------|-------------------------------------|----------|
| 1     | Reinforcing plate                                | 1        | 10   | Lid                                 | 1        |
| 2     | Top cover plate attached to the cotton component | 1        | 11   | Pipe clamps                         | 1        |
| 2.1   | Top cover plate                                  | 1        | 11.1 | Pipe clamps1                        | 1        |
| 3     | Flange affixed cotton parts                      | 2        | 12   | Chassis paste cotton parts          | 1        |
| 3.1   | Flange welded components                         | 2        | 13   | The water tray Sticker cotton parts | 1        |
| 3.1.1 | Air out board                                    | 1        | 14   | Air return panel assy               | 1        |
| 4     | Motor bracket assembly                           | 1        | 14.1 | Air return panel                    | 1        |
| 4.1   | Indoor motor                                     | 2        | 15   | Right panel affixed cotton parts    | 1        |
| 4.2   | The fan assembly                                 | 2        | 15.1 | Right side board                    | 1        |
| 5     | Motor bracket assembly                           | 1        | 16   | Evaporator parts                    | 1        |
| 5.1   | Indoor motor                                     | 2        | 16.1 | Evaporator assy                     | 1        |
| 5.2   | The fan assembly                                 | 2        | 16.2 | High-pressure hose assemblies       | 1        |
| 6     | Left panel affixed cotton parts                  | 1        | 16.3 | Low-pressure pipe assembly          | 1        |
| 6.1   | Left side board                                  | 1        | 17   | Motor bracket assembly              | 2        |
| 7     | Electronic control components                    | 1        | 18   | Return air component                | 1        |
| 8     | E- parts box cover                               | 1        | 19   | Filter assembly                     | 2        |
| 9     | Lid welded assemblies                            | 1        |      |                                     |          |



| No. | Part name                                                | Quantity | No. | Part name                                                     | Quantity |
|-----|----------------------------------------------------------|----------|-----|---------------------------------------------------------------|----------|
| 1   | Top cover plate attached to the cotton component         | 1        | 19  | The right supporting board for evaporator affixed cotton assy | 1        |
| 2   | Pipe assy                                                | 1        | 20  | Current dividing assy A / Current dividing assy B             | 1+1      |
| 3   | Repair plate affixed cotton assy B                       | 1        | 21  | Upper cover plate for evaporator affixed cotton assy          | 1        |
| 4   | Pressure line panel affixed cotton assy                  | 1        | 22  | The left supporting board for evaporator affixed cotton assy  | 1        |
| 5   | Fixing panel for pipe C                                  | 1        | 23  | Fixing panel for Evaporator                                   | 2        |
| 6   | The vice board for right side plate affixed cotton parts | 1        | 24  | Evaporator components                                         | 1        |
| 7   | Eletronic control components                             | 1        | 25  | Regular sponge                                                | 1        |
| 8   | E- parts box cover                                       |          | 26  | Lower cover plate for evaporator                              | 1        |
| 9   | Right side plate affixed cotton parts                    | 1        | 27  | Pipe clamps                                                   | 2        |
| 10  | Fan motor fixing board assy B                            | 1        | 28  | Fixing panel for pipe A                                       | 1        |
| 11  | Hanger                                                   | 2        | 29  | Pipe clamps                                                   | 2        |
| 12  | Chassis cover plate affixed cotton parts                 | 1        | 30  | Fixing panel for pipe B                                       | 1        |
| 13  | Repair plate affixed cotton assy A                       | 1        | 31  | Emerson assy                                                  | 1        |
| 14  | Fan motor fixing board assy A                            | 1        | 32  | The water tray Sticker cotton parts                           | 1        |
| 15  | Air outlet affixed cotton assy                           | 1        | 33  | Base assy                                                     | 1        |
| 16  | Fan motor assy for indoor unit                           | 1        | 34  | Fan motor fixing board                                        | 4        |
| 17  | Left side plate affixed cotton parts                     | 1        | 35  | Rubber cover for water outlet joint                           | 2        |
| 18  | Collecting pipe assy                                     | 1        |     |                                                               |          |