



# COMPACT 4-WAY CASSETTE TECHNICAL MANUAL

**DC SYSTEM**

**220-240V/50&60Hz**

## INDOOR UNITS

Revision V 2303



### Model Numbers:

CC-TPAC007-1S, CC-TPAC009-1S, CC-TPAC012-1S, CC-TPAC016-1S



### **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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## 1. External appearance



## 2. Specifications

| Model                                |                        |       | CC-TPAC007-1S              | CC-TPAC009-1S              | CC-TPAC012-1S              | CC-TPAC016-1S              |
|--------------------------------------|------------------------|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Power supply                         |                        |       | 220-240V/1PH/50Hz          | 220-240V/1PH/50Hz          | 220-240V/1PH/50Hz          | 220-240V/1PH/50Hz          |
| Capacity                             | Cooling                | kW    | 2.2                        | 2.8                        | 3.6                        | 4.5                        |
|                                      | Heating                | kW    | 2.5                        | 3.2                        | 4                          | 5                          |
| Power Input                          |                        | kW    | 0.015                      | 0.015                      | 0.023                      | 0.023                      |
| Fan motor                            | Model                  |       | DR-310-35Q-8-1             | DR-310-35Q-8-1             | DR-310-35Q-8-1             | DR-310-35Q-8-1             |
|                                      | Type                   |       | DC                         | DC                         | DC                         | DC                         |
|                                      | Speed (Hi/Med/Low)     | r/min | 570/440/350                | 570/440/350                | 640/530/440                | 640/530/440                |
| Indoor coil                          | Number of rows         |       | 2                          | 2                          | 2                          | 2                          |
|                                      | Fin type               |       | Hydrophilic Aluminum       | Hydrophilic Aluminum       | Hydrophilic Aluminum       | Hydrophilic Aluminum       |
|                                      | Tube diameter and type | mm    | Ø7, Innergroove Tube       | Ø7, Innergroove Tube       | Ø7, Innergroove Tube       | Ø7, Innergroove Tube       |
| Air flow (H/M/L)                     |                        | m³/h  | 440/327/246                | 440/327/246                | 530/432/327                | 530/432/327                |
| Sound power level                    |                        | dB(A) | 21~32                      | 21~32                      | 26~36                      | 26~36                      |
| Body                                 | Dimension (W×H×D)      | mm    | 653×267×585                | 653×267×585                | 653×267×585                | 653×267×585                |
|                                      | Packing (W×H×D)        | mm    | 755×375×680                | 755×375×680                | 755×375×680                | 755×375×680                |
|                                      | Net/Gross weight       | kg    | 17.5/23                    | 17.5/23                    | 17.5/23                    | 17.5/23                    |
| Panel                                | Dimension (W×H×D)      | mm    | 650×30×650                 | 650×30×650                 | 650×30×650                 | 650×30×650                 |
|                                      | Packing (W×H×D)        | mm    | 750×95×750                 | 750×95×750                 | 750×95×750                 | 750×95×750                 |
|                                      | Net/Gross weight       | kg    | 2.7/4.0                    | 2.7/4.0                    | 2.7/4.0                    | 2.7/4.0                    |
| Refrigerant type                     |                        |       | R410A                      | R410A                      | R410A                      | R410A                      |
| Throttle type                        |                        |       | Electrical expansion valve | Electrical expansion valve | Electrical expansion valve | Electrical expansion valve |
| Design pressure                      |                        | MPa   | 4.5                        | 4.5                        | 4.5                        | 4.5                        |
| Liquid pipe / Gas pipe               |                        | mm    | Ø6.35/ Ø9.53               | Ø6.35/ Ø9.53               | Ø6.35/ Ø12.7               | Ø6.35/ Ø12.7               |
| Connecting wire                      | Power wire             | AWG   | 2.5*2+2.5(L≤20m)           | 2.5*2+2.5(L≤20m)           | 2.5*2+2.5(L≤20m)           | 2.5*2+2.5(L≤20m)           |
|                                      | Signal wire            | AWG   | 0.75*2 shield              | 0.75*2 shield              | 0.75*2 shield              | 0.75*2 shield              |
| Drainage water pipe (outer diameter) |                        | mm    | Ø25                        | Ø25                        | Ø25                        | Ø25                        |
| Controller                           | Standard               |       | Remote controller          | Remote controller          | Remote controller          | Remote controller          |
|                                      | Optional               |       | Wired controller           | Wired controller           | Wired controller           | Wired controller           |
| Setting Temperature Range            |                        | °C    | 16~32                      | 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

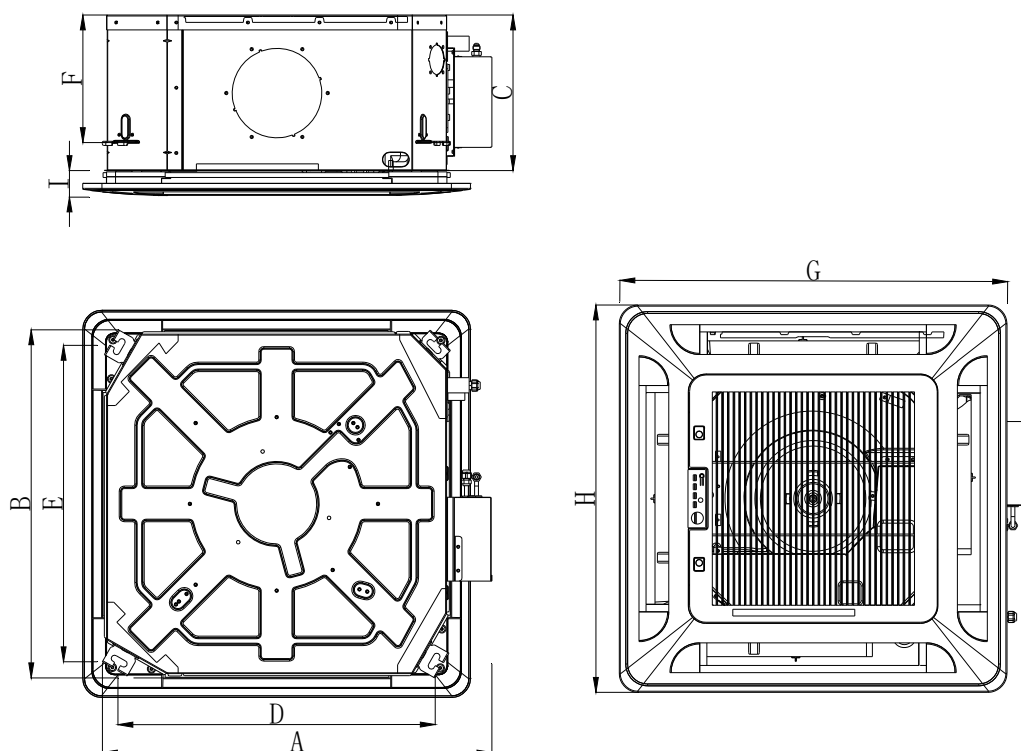
2) Nominal heating capacities are based on the following condition.

- 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.

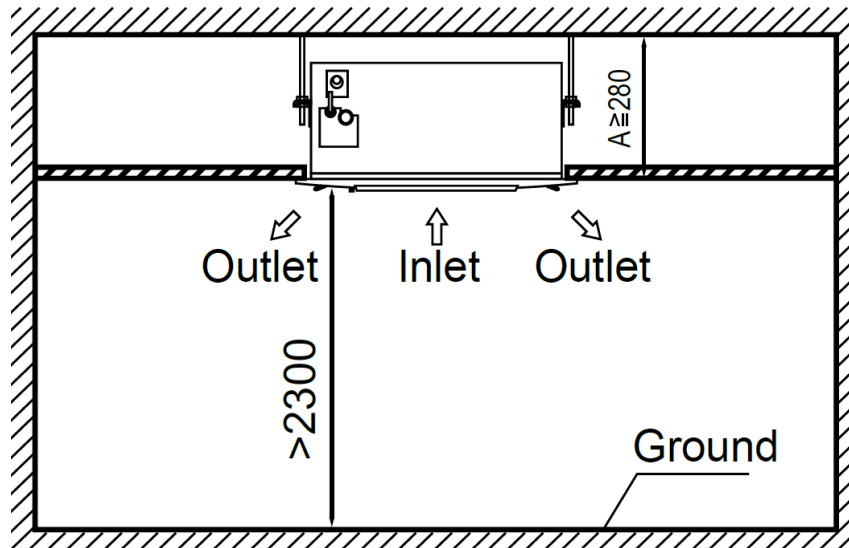
### 3. Dimensions



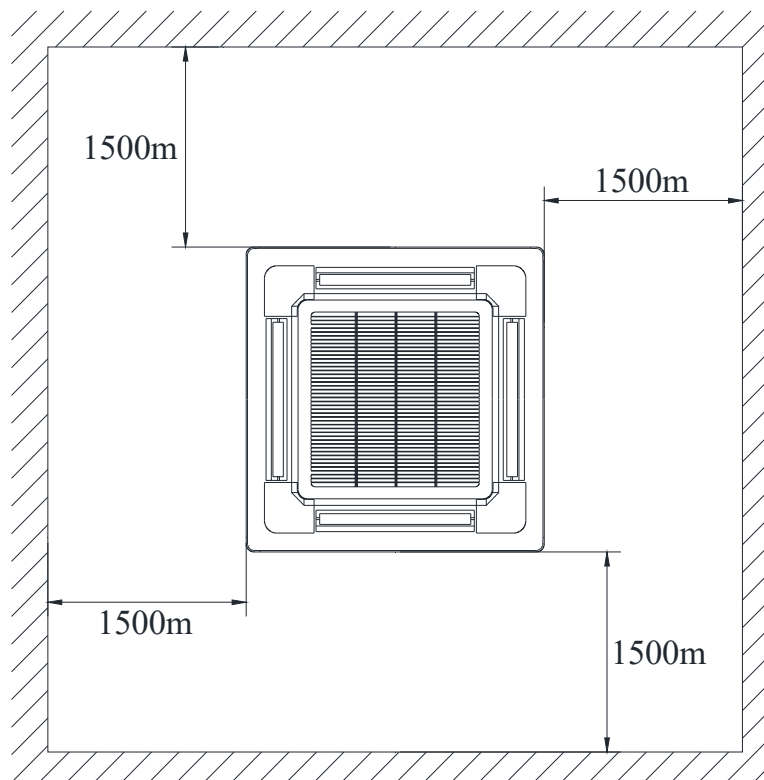
| Model         | Body dimension (mm) |     |     | Installation dimension (mm) |     |     | Panel dimension (mm) |     |    |
|---------------|---------------------|-----|-----|-----------------------------|-----|-----|----------------------|-----|----|
|               | A                   | B   | C   | D                           | E   | F   | G                    | H   | I  |
| CC-TPAC007-1S | 653                 | 585 | 267 | 528                         | 528 | 212 | 650                  | 650 | 30 |
| CC-TPAC009-1S | 653                 | 585 | 267 | 528                         | 528 | 212 | 650                  | 650 | 30 |
| CC-TPAC012-1S | 653                 | 585 | 267 | 528                         | 528 | 212 | 650                  | 650 | 30 |
| CC-TPAC016-1S | 653                 | 585 | 267 | 528                         | 528 | 212 | 650                  | 650 | 30 |

#### 4. Service space

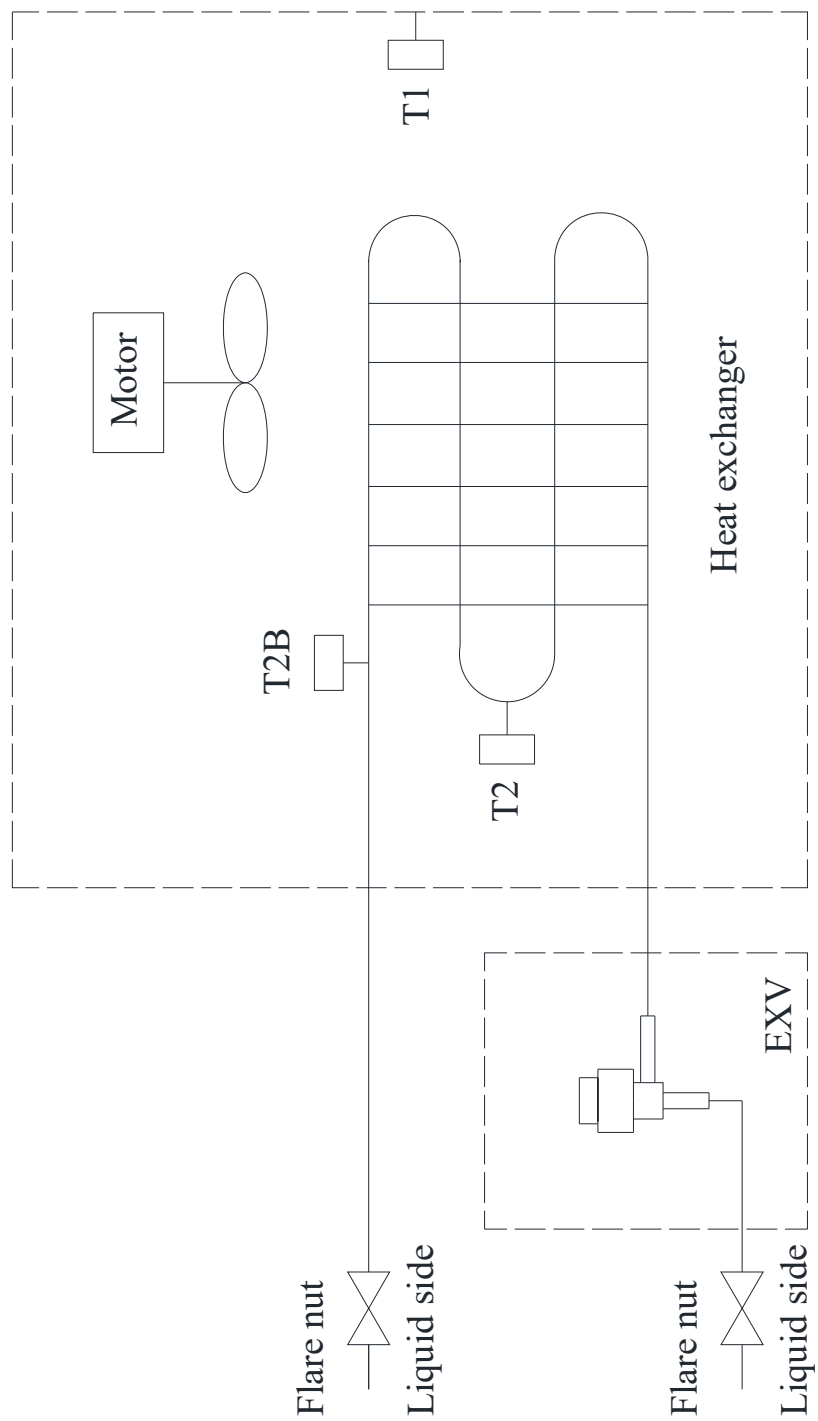
- There is enough room for installation and maintenance.
- The ceiling is horizontal, and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting pipe and drainpipe could be extracted out easily.
- There is no direct radiation from heaters.
- Keep more than 2.3m distance between the panel and ground of the room.



- Keep at least 1m to the wall of each side.



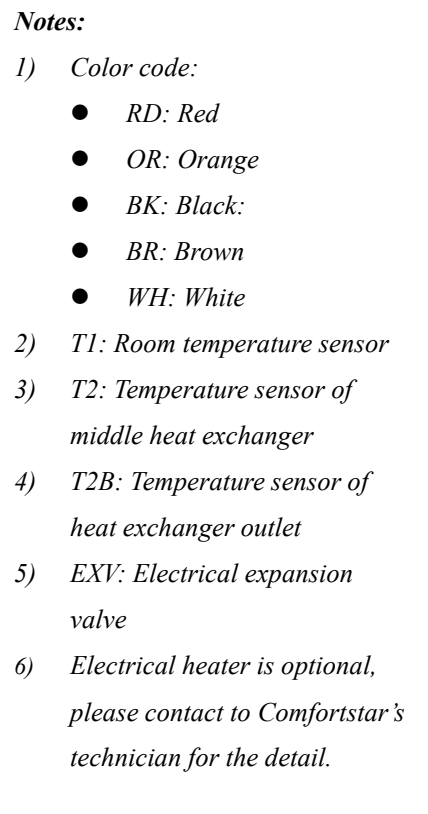
## 5. Piping diagram



### 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

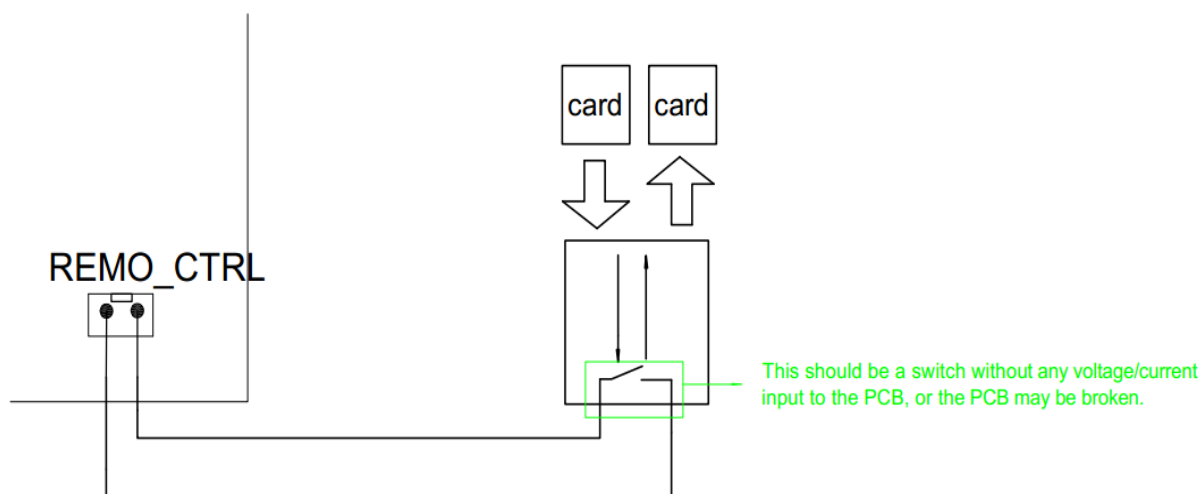
### 6.1 Wiring diagram



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## ***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,

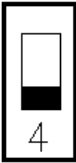
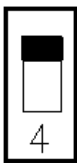


|               |         |             |             |             |         |             |
|---------------|---------|-------------|-------------|-------------|---------|-------------|
| HP            | 0.8     | 1           | 1.2         | 1.7         | 2       | 2.5         |
| Capacity (kW) | 1.8/2.2 | 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              | A         |

6.2.2 SW3

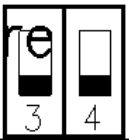
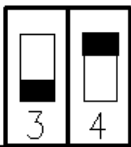
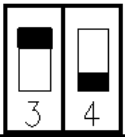
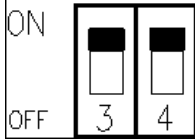
|          |                                                                                                        |                                                                                                        |                                                                                                                                |                                                                                       |
|----------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Name     | Switch number 1 2 3 of SW3                                                                             |                                                                                                        |                                                                                                                                |                                                                                       |
| Function | Unit Type                                                                                              |                                                                                                        |                                                                                                                                |                                                                                       |
| Setting  | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>Big Ceiling Cassette Unit</div> | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>360 Ceiling Cassette Unit</div> | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>Small Ceiling Cassette Unit<br/>(Default setting)</div> | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>Reserved</div> |
|          | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>Reserved</div>                  | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>Reserved</div>                  | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>Reserved</div>                                          | <div>ON OFF</div> <div><div>1</div><div>2</div><div>3</div></div> <div>Reserved</div> |

| Name     | Switch number 4 of SW3                                                                                                      |                                                                                                                               |
|----------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Function | Automatic Addressing mode(Factory Default)                                                                                  | Test Mode(allow to clear address )                                                                                            |
| Setting  | <div>ON</div> <div>OFF</div>  <div>4</div> | <div>ON</div> <div>OFF</div>  <div>4</div> |

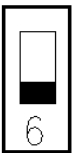
### 6.2.3 SW2, only available in heating mode.

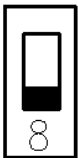
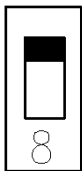
| Name     | Switch number 1 of SW2                                                                                                                                      |                                                                                                                                              |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Function | Refrigerant temperature compensation temperature value select bits                                                                                          |                                                                                                                                              |
| Setting  | <div>ON</div> <div>OFF</div>  <div>1</div> <div>3°C(Factory default)</div> | <div>ON</div> <div>OFF</div>  <div>1</div> <div>1°C</div> |

| Name     | Switch number 2 of SW2                                                                                                                                        |                                                                                                                                                |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Function | Heating temperature compensation temperature value select bits                                                                                                |                                                                                                                                                |
| Setting  | <div>ON</div> <div>OFF</div>  <div>2</div> <div>6°C(Factory default)</div> | <div>ON</div> <div>OFF</div>  <div>2</div> <div>2°C</div> |

| Name     | Switch number 3,4 of SW2                                                                                                                                         |                                                                                                                                                 |                                                                                                                                                   |                                                                                                                                                   |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Function | Anti-cold wind off the fan temperature selection bit                                                                                                             |                                                                                                                                                 |                                                                                                                                                   |                                                                                                                                                   |
| Setting  | <div>ON</div> <div>OFF</div>  <div>3 4</div> <div>15°C(Factory default)</div> | <div>ON</div> <div>OFF</div>  <div>3 4</div> <div>20°C</div> | <div>ON</div> <div>OFF</div>  <div>3 4</div> <div>24°C</div> | <div>ON</div> <div>OFF</div>  <div>3 4</div> <div>26°C</div> |

|          |                                                                                                                                                                           |                                                                                                                                                            |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | Switch number 5 of SW2                                                                                                                                                    |                                                                                                                                                            |
| Function | Heating stop the fan time to chooset                                                                                                                                      |                                                                                                                                                            |
| Setting  | <div> <div>ON</div> <div>OFF</div> <div>  </div> <div>4min(Factory default)</div> </div> | <div> <div>ON</div> <div>OFF</div> <div>  </div> <div>8min</div> </div> |

|          |                                                                                                                                                                                             |                                                                                                                                                                            |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | Switch number 6 of SW2                                                                                                                                                                      |                                                                                                                                                                            |
| Function | According to the contract custom power lost memory functions                                                                                                                                |                                                                                                                                                                            |
| Setting  | <div> <div>ON</div> <div>OFF</div> <div>  </div> <div>Power-down memory<br/>(Factory default)</div> </div> | <div> <div>ON</div> <div>OFF</div> <div>  </div> <div>No Power-down memory</div> </div> |

|          |                                                                                                                                                                                           |                                                                                                                                                               |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | Switch number 8 of SW2                                                                                                                                                                    |                                                                                                                                                               |
| Function | Fan Speed Choice                                                                                                                                                                          |                                                                                                                                                               |
| Setting  | <div> <div>ON</div> <div>OFF</div> <div>  </div> <div>Standard Mode<br/>(Factory default)</div> </div> | <div> <div>ON</div> <div>OFF</div> <div>  </div> <div>Mode2</div> </div> |

Switch number 7 of SW2, reserved, leave it as default setting (switch 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<br>kW                      | SC<br>kW | TC<br>kW | SC<br>kW | TC<br>kW | SC<br>kW | TC<br>kW | SC<br>kW | TC<br>kW | SC<br>kW | TC<br>kW | SC<br>kW | TC<br>kW | SC<br>kW |
| 2.2              | 10                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.56     | 1.82     | 2.67     | 1.64     |
|                  | 12                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.56     | 1.82     | 2.64     | 1.63     |
|                  | 14                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.54     | 1.81     | 2.62     | 1.62     |
|                  | 16                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.52     | 1.79     | 2.60     | 1.60     |
|                  | 18                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.50     | 1.78     | 2.57     | 1.59     |
|                  | 19                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.47     | 1.76     | 2.55     | 1.57     |
|                  | 21                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.45     | 1.75     | 2.52     | 1.56     |
|                  | 23                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.80     | 2.43     | 1.73     | 2.50     | 1.55     |
|                  | 25                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.40     | 1.78     | 2.40     | 1.71     | 2.48     | 1.53     |
|                  | 27                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.37     | 1.77     | 2.38     | 1.70     | 2.45     | 1.52     |
|                  | 29                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.35     | 1.75     | 2.36     | 1.68     | 2.43     | 1.51     |
|                  | 31                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.33     | 1.73     | 2.34     | 1.67     | 2.41     | 1.49     |
|                  | 33                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.31     | 1.70     | 2.31     | 1.65     | 2.38     | 1.48     |
|                  | 35                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.70     | 2.27     | 1.69     | 2.29     | 1.64     | 2.36     | 1.46     |
|                  | 37                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.69     | 2.24     | 1.65     | 2.27     | 1.61     | 2.31     | 1.44     |
|                  | 39                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.07     | 1.70     | 2.20     | 1.68     | 2.22     | 1.64     | 2.24     | 1.59     | 2.29     | 1.42     |
|                  | 41                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.05     | 1.70     | 2.18     | 1.67     | 2.20     | 1.62     | 2.22     | 1.57     | 2.26     | 1.41     |
|                  | 43                                | 1.52                          | 1.37     | 1.80     | 1.44     | 2.02     | 1.70     | 2.16     | 1.66     | 2.18     | 1.61     | 2.20     | 1.56     | 2.24     | 1.39     |
|                  | 46                                | 1.52                          | 1.37     | 1.76     | 1.41     | 1.96     | 1.70     | 2.13     | 1.66     | 2.16     | 1.59     | 2.18     | 1.54     | 2.22     | 1.38     |
|                  | 48                                | 1.52                          | 1.37     | 1.74     | 1.39     | 1.89     | 1.65     | 2.07     | 1.64     | 2.13     | 1.57     | 2.11     | 1.53     | 2.16     | 1.37     |
| 2.8              | 50                                | 1.50                          | 1.37     | 1.73     | 1.38     | 1.83     | 1.63     | 2.00     | 1.60     | 2.07     | 1.56     | 2.05     | 1.51     | 2.09     | 1.35     |
|                  | 10                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.26     | 2.30     | 3.39     | 2.07     |
|                  | 12                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.26     | 2.30     | 3.36     | 2.05     |
|                  | 14                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.23     | 2.28     | 3.33     | 2.04     |
|                  | 16                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.20     | 2.26     | 3.30     | 2.02     |
|                  | 18                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.18     | 2.24     | 3.27     | 2.00     |
|                  | 19                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.15     | 2.22     | 3.24     | 1.98     |
|                  | 21                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.12     | 2.20     | 3.21     | 1.96     |
|                  | 23                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.27     | 3.09     | 2.18     | 3.18     | 1.95     |
|                  | 25                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.05     | 2.25     | 3.06     | 2.16     | 3.15     | 1.93     |
|                  | 27                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 3.02     | 2.23     | 3.03     | 2.14     | 3.12     | 1.91     |
|                  | 29                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 2.99     | 2.21     | 3.00     | 2.12     | 3.09     | 1.89     |
|                  | 31                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 2.96     | 2.19     | 2.97     | 2.10     | 3.06     | 1.88     |
|                  | 33                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 2.93     | 2.15     | 2.94     | 2.08     | 3.03     | 1.86     |
|                  | 35                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.14     | 2.89     | 2.12     | 2.91     | 2.06     | 3.00     | 1.84     |
|                  | 37                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.13     | 2.85     | 2.08     | 2.88     | 2.02     | 2.94     | 1.81     |
|                  | 39                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.64     | 2.14     | 2.80     | 2.11     | 2.83     | 2.06     | 2.86     | 2.00     | 2.91     | 1.79     |
|                  | 41                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.60     | 2.14     | 2.77     | 2.10     | 2.80     | 2.04     | 2.83     | 1.98     | 2.88     | 1.77     |
|                  | 43                                | 1.94                          | 1.75     | 2.29     | 1.83     | 2.58     | 2.14     | 2.74     | 2.09     | 2.77     | 2.02     | 2.80     | 1.96     | 2.85     | 1.75     |
|                  | 46                                | 1.94                          | 1.75     | 2.24     | 1.79     | 2.49     | 2.14     | 2.72     | 2.09     | 2.74     | 2.00     | 2.77     | 1.94     | 2.83     | 1.74     |
|                  | 48                                | 1.94                          | 1.75     | 2.22     | 1.77     | 2.41     | 2.07     | 2.63     | 2.07     | 2.72     | 1.98     | 2.69     | 1.92     | 2.74     | 1.72     |
|                  | 50                                | 1.90                          | 1.75     | 2.20     | 1.75     | 2.32     | 2.05     | 2.55     | 2.01     | 2.63     | 1.96     | 2.60     | 1.90     | 2.66     | 1.70     |
| 3.6              | 10                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 4.20     | 2.93     | 4.36     | 2.64     |
|                  | 12                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 4.20     | 2.93     | 4.32     | 2.62     |
|                  | 14                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 4.16     | 2.91     | 4.29     | 2.59     |
|                  | 16                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 4.12     | 2.88     | 4.25     | 2.57     |
|                  | 18                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 4.08     | 2.86     | 4.21     | 2.55     |
|                  | 19                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 4.05     | 2.83     | 4.17     | 2.53     |
|                  | 21                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 4.01     | 2.81     | 4.13     | 2.50     |
|                  | 23                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.89     | 3.97     | 2.78     | 4.09     | 2.48     |
|                  | 25                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.92     | 2.87     | 3.93     | 2.75     | 4.05     | 2.46     |
|                  | 27                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.88     | 2.84     | 3.90     | 2.73     | 4.01     | 2.44     |
|                  | 29                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.85     | 2.81     | 3.86     | 2.70     | 3.98     | 2.41     |
|                  | 31                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.81     | 2.79     | 3.82     | 2.68     | 3.94     | 2.39     |
|                  | 33                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.77     | 2.74     | 3.78     | 2.65     | 3.90     | 2.37     |
|                  | 35                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.72     | 3.72     | 2.71     | 3.75     | 2.63     | 3.86     | 2.34     |
|                  | 37                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.71     | 3.66     | 2.66     | 3.71     | 2.58     | 3.78     | 2.30     |
|                  | 39                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.39     | 2.72     | 3.60     | 2.69     | 3.64     | 2.63     | 3.67     | 2.55     | 3.74     | 2.28     |
|                  | 41                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.35     | 2.72     | 3.56     | 2.68     | 3.60     | 2.60     | 3.64     | 2.52     | 3.71     | 2.25     |
|                  | 43                                | 2.49                          | 2.25     | 2.94     | 2.35     | 3.31     | 2.72     | 3.53     | 2.67     | 3.56     | 2.58     | 3.60     | 2.50     | 3.67     | 2.23     |
|                  | 46                                | 2.49                          | 2.25     | 2.88     | 2.30     | 3.20     | 2.72     | 3.49     | 2.66     | 3.53     | 2.55     | 3.56     | 2.47     | 3.64     | 2.21     |
|                  | 48                                | 2.49                          | 2.25     | 2.85     | 2.28     | 3.10     | 2.64     | 3.38     | 2.63     | 3.49     | 2.52     | 3.46     | 2.45     | 3.53     | 2.19     |
|                  | 50                                | 2.45                          | 2.25     | 2.83     | 2.26     | 2.99     | 2.62     | 3.28     | 2.56     | 3.38     | 2.50     | 3.35     | 2.42     | 3.42     | 2.16     |

**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   |
| 4.5              | 10                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 5.24  | 3.57 | 5.45  | 3.20 |
|                  | 12                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 5.24  | 3.57 | 5.41  | 3.17 |
|                  | 14                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 5.20  | 3.53 | 5.36  | 3.14 |
|                  | 16                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 5.15  | 3.50 | 5.31  | 3.11 |
|                  | 18                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 5.10  | 3.47 | 5.26  | 3.09 |
|                  | 19                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 5.06  | 3.44 | 5.21  | 3.06 |
|                  | 21                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 5.01  | 3.41 | 5.16  | 3.03 |
|                  | 23                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.52 | 4.96  | 3.37 | 5.11  | 3.00 |
|                  | 25                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.90  | 3.48 | 4.92  | 3.34 | 5.07  | 2.97 |
|                  | 27                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.85  | 3.45 | 4.87  | 3.31 | 5.02  | 2.94 |
|                  | 29                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.81  | 3.42 | 4.82  | 3.28 | 4.97  | 2.92 |
|                  | 31                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.76  | 3.38 | 4.78  | 3.25 | 4.92  | 2.89 |
|                  | 33                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.72  | 3.32 | 4.73  | 3.22 | 4.87  | 2.86 |
|                  | 35                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.30 | 4.65  | 3.29 | 4.68  | 3.18 | 4.83  | 2.83 |
|                  | 37                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.29 | 4.58  | 3.22 | 4.64  | 3.12 | 4.73  | 2.77 |
|                  | 39                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.24  | 3.30 | 4.50  | 3.27 | 4.54  | 3.19 | 4.59  | 3.09 | 4.68  | 2.75 |
|                  | 41                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.19  | 3.30 | 4.46  | 3.25 | 4.50  | 3.15 | 4.54  | 3.06 | 4.63  | 2.72 |
|                  | 43                                | 3.12                          | 2.81 | 3.68  | 2.94 | 4.14  | 3.30 | 4.41  | 3.24 | 4.46  | 3.12 | 4.50  | 3.02 | 4.58  | 2.69 |
|                  | 46                                | 3.12                          | 2.81 | 3.61  | 2.88 | 4.01  | 3.30 | 4.36  | 3.22 | 4.41  | 3.09 | 4.46  | 2.99 | 4.54  | 2.66 |
|                  | 48                                | 3.12                          | 2.81 | 3.57  | 2.85 | 3.87  | 3.21 | 4.23  | 3.19 | 4.36  | 3.06 | 4.32  | 2.96 | 4.41  | 2.63 |
|                  | 50                                | 3.06                          | 2.81 | 3.53  | 2.82 | 3.74  | 3.17 | 4.09  | 3.11 | 4.23  | 3.02 | 4.19  | 2.93 | 4.28  | 2.60 |
|                  | 52                                | 3.01                          | 2.81 | 3.42  | 2.79 | 3.56  | 3.14 | 3.91  | 3.01 | 4.09  | 2.99 | 4.01  | 2.90 | 4.09  | 2.58 |

## 7.2 Heating

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

| Capacity<br>(kW) | Outdoor<br>temperature<br>(°C DB) |       | Indoor temperature (°C DB) |      |      |      |      |      |
|------------------|-----------------------------------|-------|----------------------------|------|------|------|------|------|
|                  |                                   |       | 16                         | 18   | 20   | 21   | 22   | 24   |
|                  |                                   |       | TC                         | TC   | TC   | TC   | TC   | TC   |
|                  | WB                                | DB    | kW                         | kW   | kW   | kW   | kW   | kW   |
| 2.2              | -20                               | -19.8 | 1.34                       | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 |
|                  | -19                               | -18.8 | 1.44                       | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 |
|                  | -17                               | -16.7 | 1.51                       | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 |
|                  | -15                               | -14.7 | 1.56                       | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 |
|                  | -13                               | -12.6 | 1.66                       | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 |
|                  | -11                               | -10.5 | 1.68                       | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 |
|                  | -10                               | -9.5  | 1.75                       | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 |
|                  | -9.1                              | -8.5  | 1.80                       | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
|                  | -7.6                              | -7    | 1.82                       | 1.82 | 1.82 | 1.82 | 1.82 | 1.82 |
|                  | -5.6                              | -5    | 1.90                       | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 |
|                  | -3.7                              | -3    | 1.99                       | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 |
|                  | -0.7                              | 0     | 2.14                       | 2.14 | 2.14 | 2.14 | 2.14 | 2.02 |
|                  | 2.2                               | 3     | 2.26                       | 2.26 | 2.26 | 2.26 | 2.21 | 2.02 |
|                  | 4.1                               | 5     | 2.40                       | 2.40 | 2.40 | 2.40 | 2.21 | 2.02 |
|                  | 6                                 | 7     | 2.50                       | 2.50 | 2.50 | 2.40 | 2.21 | 2.02 |
|                  | 7.9                               | 9     | 2.57                       | 2.57 | 2.50 | 2.40 | 2.21 | 2.02 |
| 2.8              | -20                               | -19.8 | 1.79                       | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 |
|                  | -19                               | -18.8 | 1.92                       | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 |
|                  | -17                               | -16.7 | 2.02                       | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
|                  | -15                               | -14.7 | 2.02                       | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
|                  | -13                               | -12.6 | 2.14                       | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 |
|                  | -11                               | -10.5 | 2.24                       | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 |
|                  | -10                               | -9.5  | 2.34                       | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 |
|                  | -9.1                              | -8.5  | 2.40                       | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 |
|                  | -7.6                              | -7    | 2.43                       | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 |
|                  | -5.6                              | -5    | 2.53                       | 2.53 | 2.53 | 2.53 | 2.53 | 2.53 |
|                  | -3.7                              | -3    | 2.66                       | 2.66 | 2.66 | 2.66 | 2.66 | 2.66 |
|                  | -0.7                              | 0     | 2.85                       | 2.85 | 2.85 | 2.85 | 2.85 | 2.69 |
|                  | 2.2                               | 3     | 3.01                       | 3.01 | 3.01 | 3.01 | 2.94 | 2.69 |
|                  | 4.1                               | 5     | 3.10                       | 3.10 | 3.10 | 3.10 | 2.94 | 2.69 |
|                  | 6                                 | 7     | 3.20                       | 3.20 | 3.20 | 3.10 | 2.94 | 2.69 |
|                  | 7.9                               | 9     | 3.30                       | 3.30 | 3.20 | 3.10 | 2.94 | 2.69 |
| 3.6              | -20                               | -19.8 | 2.24                       | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 |
|                  | -19                               | -18.8 | 2.40                       | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 |
|                  | -17                               | -16.7 | 2.52                       | 2.52 | 2.52 | 2.52 | 2.52 | 2.52 |
|                  | -15                               | -14.7 | 2.60                       | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 |
|                  | -13                               | -12.6 | 2.68                       | 2.68 | 2.68 | 2.68 | 2.68 | 2.68 |
|                  | -11                               | -10.5 | 2.80                       | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
|                  | -10                               | -9.5  | 2.92                       | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 |
|                  | -9.1                              | -8.5  | 3.00                       | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
|                  | -7.6                              | -7    | 3.04                       | 3.04 | 3.04 | 3.04 | 3.04 | 3.04 |
|                  | -5.6                              | -5    | 3.16                       | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 |
|                  | -3.7                              | -3    | 3.32                       | 3.32 | 3.32 | 3.32 | 3.32 | 3.32 |
|                  | -0.7                              | 0     | 3.56                       | 3.56 | 3.56 | 3.56 | 3.56 | 3.36 |
|                  | 2.2                               | 3     | 3.76                       | 3.76 | 3.76 | 3.76 | 3.68 | 3.36 |
|                  | 4.1                               | 5     | 3.88                       | 3.88 | 3.88 | 3.88 | 3.68 | 3.36 |
|                  | 6                                 | 7     | 4.00                       | 4.00 | 4.00 | 3.88 | 3.68 | 3.36 |
|                  | 7.9                               | 9     | 4.12                       | 4.12 | 4.00 | 3.88 | 3.68 | 3.36 |
|                  | 9.8                               | 11    | 4.24                       | 4.24 | 4.00 | 3.88 | 3.68 | 3.36 |
|                  | 11.8                              | 13    | 4.40                       | 4.32 | 4.00 | 3.88 | 3.68 | 3.36 |
|                  | 13.7                              | 15    | 4.52                       | 4.32 | 4.00 | 3.88 | 3.68 | 3.36 |

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

| Capacity<br>(kW) | Outdoor<br>temperature<br>(°C DB) |       | Indoor temperature (°C DB) |      |      |      |      |      |
|------------------|-----------------------------------|-------|----------------------------|------|------|------|------|------|
|                  |                                   |       | 16                         | 18   | 20   | 21   | 22   | 24   |
|                  |                                   |       | TC                         | TC   | TC   | TC   | TC   | TC   |
|                  | WB                                | DB    | kW                         | kW   | kW   | kW   | kW   | kW   |
| 4.5              | -20                               | -19.8 | 2.80                       | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
|                  | -19                               | -18.8 | 3.00                       | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
|                  | -17                               | -16.7 | 3.15                       | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 |
|                  | -15                               | -14.7 | 3.25                       | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
|                  | -13                               | -12.6 | 3.35                       | 3.35 | 3.35 | 3.35 | 3.35 | 3.35 |
|                  | -11                               | -10.5 | 3.50                       | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
|                  | -10                               | -9.5  | 3.65                       | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 |
|                  | -9.1                              | -8.5  | 3.75                       | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 |
|                  | -7.6                              | -7    | 3.80                       | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 |
|                  | -5.6                              | -5    | 3.95                       | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 |
|                  | -3.7                              | -3    | 4.15                       | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 |
|                  | -0.7                              | 0     | 4.45                       | 4.45 | 4.45 | 4.45 | 4.45 | 4.20 |
|                  | 2.2                               | 3     | 4.70                       | 4.70 | 4.70 | 4.70 | 4.60 | 4.20 |
|                  | 4.1                               | 5     | 4.85                       | 4.85 | 4.85 | 4.85 | 4.60 | 4.20 |
|                  | 6                                 | 7     | 5.00                       | 5.00 | 5.00 | 4.85 | 4.60 | 4.20 |
|                  | 7.9                               | 9     | 5.15                       | 5.15 | 5.00 | 4.85 | 4.60 | 4.20 |
|                  | 9.8                               | 11    | 5.30                       | 5.30 | 5.00 | 4.85 | 4.60 | 4.20 |
|                  | 11.8                              | 13    | 5.50                       | 5.40 | 5.00 | 4.85 | 4.60 | 4.20 |
|                  | 13.7                              | 15    | 5.65                       | 5.40 | 5.00 | 4.85 | 4.60 | 4.20 |

## 8 Electrical characteristics

| Model         | Indoor unit |          |         |         | MFC | Power cable          |                      |                    | Signal cable           |
|---------------|-------------|----------|---------|---------|-----|----------------------|----------------------|--------------------|------------------------|
|               | Hz          | Voltage  | Minimum | Maximum |     | $L \leq 20m$         | $L \leq 50m$         | Grounded           |                        |
| CC-TPAC007-1S | 50Hz        | 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-TPAC009-1S | 50Hz        | 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-TPAC012-1S | 50Hz        | 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-TPAC016-1S | 50Hz        | 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> |

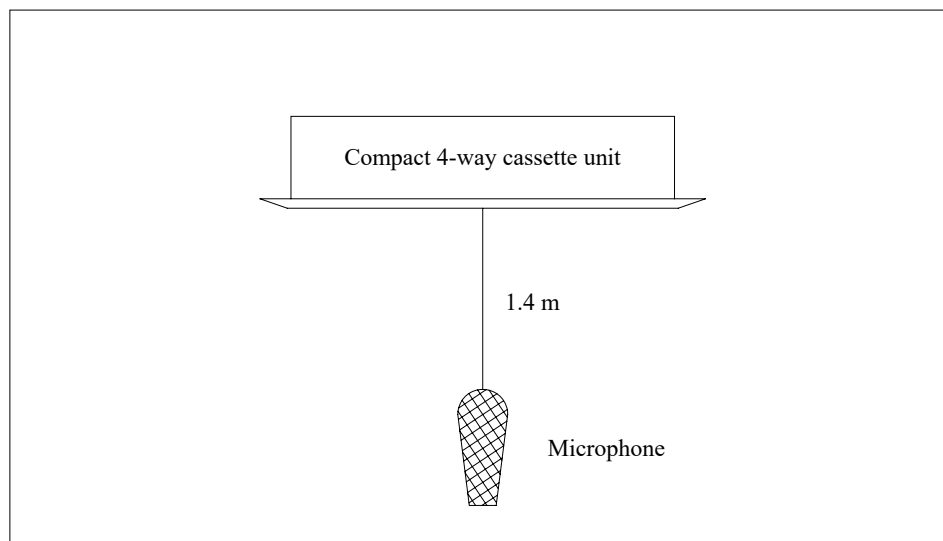
### Notes:

- 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) L: Total length of cable (m)



## 9 Sound 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)

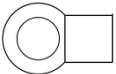
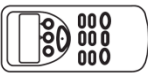
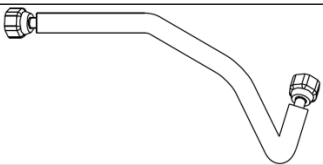
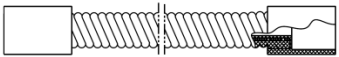
| Model         | Sound pressure level (dB(A)) |              |           |
|---------------|------------------------------|--------------|-----------|
|               | High speed                   | Medium speed | Low speed |
| CC-TPAC007-1S | 32                           | 25           | 21        |
| CC-TPAC009-1S | 32                           | 25           | 21        |
| CC-TPAC012-1S | 36                           | 30           | 26        |
| CC-TPAC016-1S | 36                           | 30           | 26        |

**Notes:**

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

## 10 Accessories

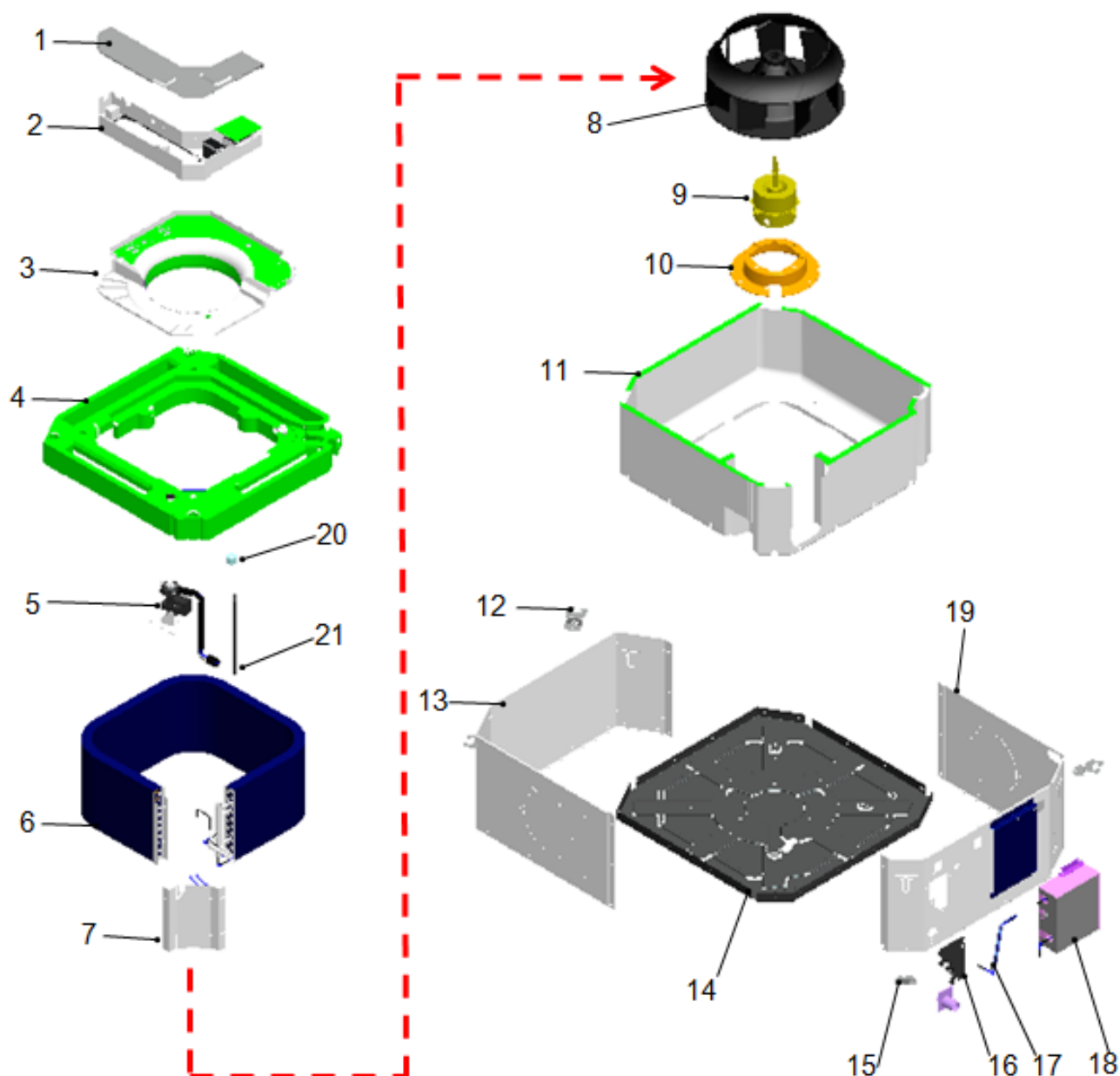
### 10.1 Standard accessories.

| Item                                      | Quantity | Shape                                                                                | Usage                                                        |
|-------------------------------------------|----------|--------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Installation manual for indoor unit       | 1        | /                                                                                    | Must deliver to customer                                     |
| Insulation sheath                         | 2        |     | Thermal insulation for the jointing part of piping           |
| Thermal insulated material                | 1        |     | Thermal insulation for the jointing part of drain pipe       |
| Strapping tapes                           | 5        |     | Bind up the wires and pipes                                  |
| Round shape insulation termination points | 6        |     | For wiring                                                   |
| U shape insulation termination points     | 3        |     | For wiring                                                   |
| Remote controller                         | 1        |     | For controlling indoor unit                                  |
| Batteries                                 | 2        |    | Power to remote controller                                   |
| EXV connection pipe                       | 1        |  | Connecting with EXV box and indoor unit liquid pipe          |
| Nuts, gaskets                             | 8        |   | For hanging indoor unit                                      |
| Circlips                                  | 2        |   | For fixing drainage pipe                                     |
| Drainage connection pipe                  | 1        |  | For connecting draining condensate water pipe to indoor unit |
| Bag                                       | 3        |   | For bagging accessories                                      |

### 10.2 Local buy accessories.

| Item                    | Specification                                                                                                      |                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|----------------|
|                         | 2.2kW~2.8kW                                                                                                        | 3.6kW~4.5kW    |
| Liquid side copper pipe | Ø6.35mm*0.75mm                                                                                                     |                |
| Gas side copper pipe    | Ø9.53mm*0.75mm                                                                                                     | Ø12.7mm*0.75mm |
| Drainage pipe           | PVC                                                                                                                |                |
| Pipe insulation         | Thickness ≥ 10mm                                                                                                   |                |
| Power cables            | 2*2.5 mm <sup>2</sup> (When total cable length is ≤20m)<br>2*4.0 mm <sup>2</sup> (When total cable length is ≤50m) |                |
| Grounded cable          | 2.5 mm <sup>2</sup>                                                                                                |                |
| Signal cables           | Two-core shielded cable 2*0.75 mm <sup>2</sup> (AVP, RVP, RVVP)                                                    |                |

## 11 Exploded view



| No. | Part Name                           | Quantity | No.  | Part Name                                     | Quantity |
|-----|-------------------------------------|----------|------|-----------------------------------------------|----------|
| 1   | Electrical lifted the lid           | 1        | 6.3  | Evaporator bypass capillary components        | 1        |
| 2   | Electronic components               | 1        | 7    | End plate fixed plate component               | 1        |
| 2.1 | Electric control board seats        | 1        | 8    | Centrifugal wind leaf                         | 1        |
| 2.2 | Electrical box welded components    | 1        | 9    | The motor                                     | 1        |
| 2.3 | The temperature sensor group        | 1        | 10   | The motor bracket                             | 1        |
| 2.4 | Stepper motor line                  | 2        | 11   | Chassis bubble component                      | 1        |
| 2.5 | Indoor motor winding connection     | 1        | 12   | Lug 2                                         | 3        |
| 2.6 | Terminal station                    | 1        | 13   | After the coaming components                  | 1        |
| 2.7 | Quad lamp plate connection          | 1        | 14   | Chassis parts                                 | 1        |
| 2.8 | Indoor plate component              | 1        | 14.1 | Chassis external thermal insulation cotton    | 1        |
| 2.9 | Insert the fan capacitance          | 1        | 14.2 | Chassis welded components                     | 1        |
| 3   | Guide solar or lunar halo           | 1        | 14.3 | Fan wire fixed plate                          | 1        |
| 4   | Bubble water pans components        | 1        | 15   | Lug 1                                         | 1        |
| 5   | Pump parts                          | 1        | 16   | Refrigerant tube support plate component      | 1        |
| 5.1 | Drainage to take over the component | 1        | 17   | Expansion valve connecting pipe component     | 1        |
| 5.2 | The water pump                      | 1        | 18   | Electronic expansion valve box parts          | 1        |
| 5.3 | Water pump gasket 2                 | 1        | 18.1 | Stick cotton component                        | 1        |
| 5.4 | Water pump gasket 1                 | 1        | 18.2 | Cover plate stick cotton parts                | 1        |
| 5.5 | Water pump about seat               | 1        | 18.3 | Electronic expansion valve welding components | 1        |
| 5.6 | Water pump brace                    | 1        | 19   | Dash panel stick cotton component             | 1        |
| 6   | The evaporator components           | 1        | 20   | Water level switch                            | 1        |
| 6.1 | Welded components evaporator        | 1        | 21   | The evaporator pressure                       | 1        |
| 6.2 | Back to the trachea components      | 1        |      |                                               |          |