

# **Midea DC Fan Coil Unit Two-Pipe Compact Four-way Cassette Technical Service Manual**

# Two-pipe Compact Four-way Cassette DC Fan Coil Unit

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## 1. External Appearance



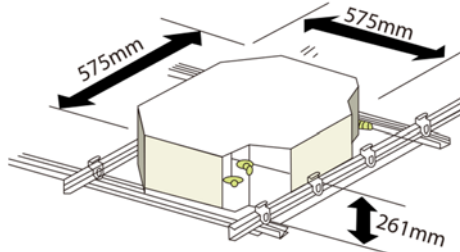
## 2. Features

- Capacity range: 300CFM to 500CFM.
- Compact design, simple installation and easy maintenance.
- Round blow air supply enables uniform air flow distribution.
- Comfortable horizontal air discharge reduces draughts and ceiling soiling.
- Unique design of the centrifugal fan ensures extra-quiet operation and high efficiency.
- Wireless remote control with LED display, wired control is optional.
- Built-in drain water pump with 500mm pumping head.
- Optional extended drainage pan for protecting your ceiling better.
- Four speed motor with one reserved for more choice.
- Fresh air provision makes life healthier and more comfortable.

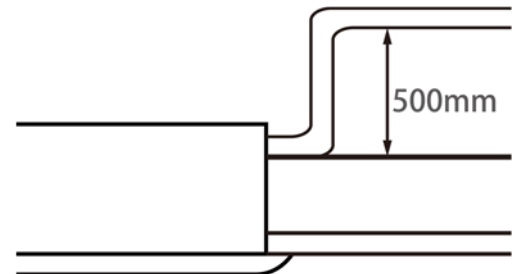
Round blow panel



Compact body

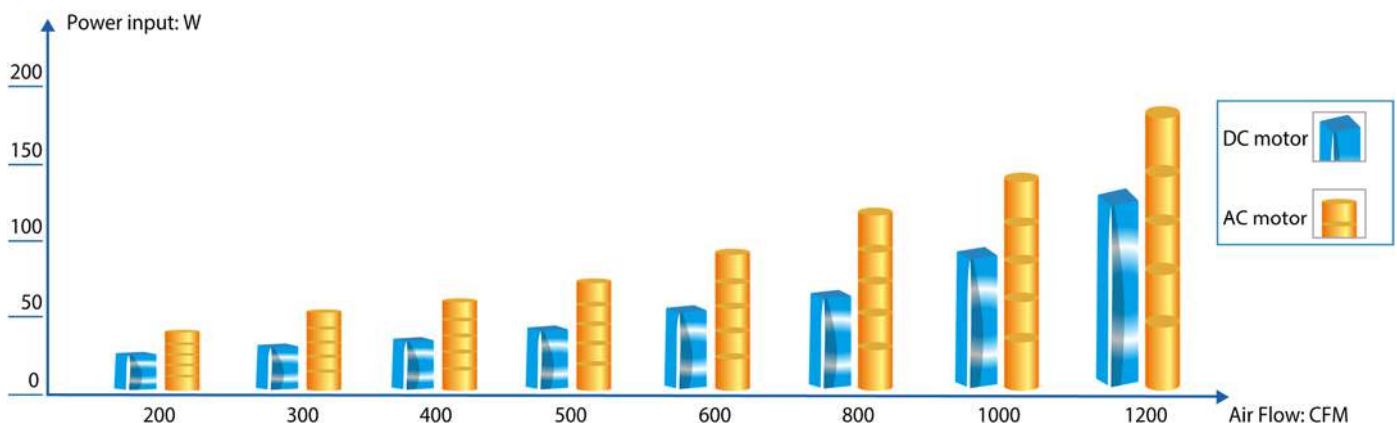


High water pump head



- Excellent efficiency

Midea DC FCU adopt the brushless DC motor, the DC motor efficiency is up to 90%. DC FCU's power consumption can be reduced by more than 30% compared with corresponding AC model.



## Midea Fan Coil Unit



- DC brushless motor

The motor adopts fully enclosed structure design; it is energy-saving, of high operating efficiency and durable motor. The motor bearing can operate 80,000 hours continuously and easy for maintenance.



- Low noise

Advanced 3-D spiral fan design reduces air resistance and operating sound. The motor bearing with unique design makes less operation vibration.

- Low return difference temperature

In heating mode, the default return difference temperature of the standard units is 6 degrees, can be customizable to 3 degrees.

### 3. Product Lineup

| Type                           | 300 | 400 | 500 |
|--------------------------------|-----|-----|-----|
| Compact 4-way cassette (MKD-V) | •   | •   | •   |

### 4. Accessories

#### 4.1 Standard accessories

| Accessory name                | Qty. | Shape                                                                                | Usage                          |
|-------------------------------|------|--------------------------------------------------------------------------------------|--------------------------------|
| Owner's & installation manual | 1    | /                                                                                    | Installation guide             |
| Installation paper board      | 1    |  |                                |
| Tubing & Fittings             | 2    |   | Soundproof / insulation sheath |
| Drainpipe Fittings            | 1    |  | Out-let pipe                   |
|                               | 1    |   | Out-let pipe clasp             |
|                               | 5    |   | Tightening band                |
| Remote controller& Its Frame  | 1    |   | Remote controller R05/BGE-20   |
|                               | 1    |   | Frame                          |
|                               | 2    |   | Mounting screw(ST2.9x10-C-H)   |
|                               | 2    |   | Alkaline dry batteries         |
| Remote controller manual      | 1    |   |                                |

## 4.2 Optional accessories

| Accessory name              | Qty. | Shape                                                                              | Usage             |
|-----------------------------|------|------------------------------------------------------------------------------------|-------------------|
| Wired controller<br>KJR-29B | 1    |  | Wired control     |
| Central controller<br>CCM30 | 1    |  | Central control   |
| 3-way valve assembly        | 1    |  | Water flow switch |

## 5. Specifications

| Model                        |                            |         | MKD-V300                           | MKD-V400       | MKD-V500       |
|------------------------------|----------------------------|---------|------------------------------------|----------------|----------------|
| Power supply                 |                            | V/Ph/Hz | 220-240/1/50                       |                |                |
| Air flow (H/M/L)             |                            | m³/h    | 535/429/322                        | 610/477/381    | 781/611/494    |
|                              |                            | CFM     | 314/252/189                        | 359/281/224    | 459/359/290    |
| Cooling <sup>1</sup>         | Capacity (H/M/L)           | kW      | 2.98/2.53/2                        | 3.96/3.26/2.76 | 4.2/3.48/3.01  |
|                              | Water flow rate(H/M/L)     | m³/h    | 0.53/0.45/0.35                     | 0.7/0.58/0.51  | 0.75/0.61/0.54 |
|                              | Water pressure drop(H/M/L) | kPa     | 10/7/5                             | 11.48/8.2/6.54 | 12.32/8.62/7.4 |
|                              | Power input(H/M/L)         | W       | 15/9/5                             | 28/15/19       | 43/28/21       |
| Heating <sup>2</sup>         | Capacity (H/M/L)           | kW      | 2.61/2.31/2.24                     | 4.08/3.34/2.73 | 4.95/3.99/3.26 |
|                              | Water flow rate(H/M/L)     | m³/h    | 0.64/0.54/0.42                     | 0.83/0.67/0.56 | 0.87/0.70/0.58 |
|                              | Water pressure drop(H/M/L) | kPa     | 12.1/8.5/5.3                       | 9.2/8.6/6      | 9.4/8.23/6.1   |
|                              | Power input(H/M/L)         | W       | 15/9/5                             | 28/16/10       | 33/18/11       |
| Heating <sup>3</sup>         | Capacity (H/M/L)           | kW      | 4.01/3.35/2.61                     | 5.4/4.34/3.57  | 5.76/4.69/3.84 |
|                              | Water flow rate(H/M/L)     | m³/h    | 0.53/0.45/0.35                     | 0.7/0.58/0.51  | 0.75/0.61/0.54 |
|                              | Water pressure drop(H/M/L) | kPa     | 8.2/6/3.8                          | 12.68/6.4/4.92 | 11.41/6.5/5.41 |
|                              | Power input(H/M/L)         | W       | 14/9/5                             | 28/16/10       | 33/18/11       |
| Sound pressure level (H/M/L) |                            | dB(A)   | 39/33/27                           | 42/36/30       | 43/38/32       |
| Sound power level (H/M/L)    |                            | dB(A)   | 51/45/39                           | 54/48/42       | 55/50/44       |
| Rated current                |                            | A       | 0.2                                | 0.3            | 0.3            |
| Fan motor                    | Type                       |         | DC motor                           | DC motor       | DC motor       |
|                              | Quantity                   |         | 1                                  | 1              | 1              |
| Fan                          | Type                       |         | Centrifugal, forward-curved Blades |                |                |
|                              | Quantity                   |         | 1                                  | 1              | 1              |
| Coil                         | Row                        |         | 2                                  | 2              | 2              |
|                              | Max. working pressure      | MPa     | 1.6                                | 1.6            | 1.6            |
|                              | Diameter                   | mm      | Φ7                                 | Φ7             | Φ7             |
| Panel                        | Net dimensions (W×H×D)     | mm      | 647×50×647                         | 647×50×647     | 647×50×647     |
|                              | Packing size (W×H×D)       | mm      | 715×123×715                        | 715×123×715    | 715×123×715    |
|                              | Net weight                 | kg      | 2.5                                | 2.5            | 2.5            |
|                              | Gross weight               | kg      | 4.5                                | 4.5            | 4.5            |
| Body                         | Net dimensions (W×H×D)     | mm      | 575×261×575                        | 575×261×575    | 575×261×575    |
|                              | Packing size (W×H×D)       | mm      | 670×290×670                        | 670×290×670    | 670×290×670    |
|                              | Net weight                 | kg      | 16.5                               | 16.5           | 16.5           |
|                              | Gross weight               | kg      | 22.5                               | 22.5           | 22.5           |
| Pipe connections             | Water inlet/outlet pipe    | inch    | G3/4                               | G3/4           | G3/4           |
|                              | Drain pipe                 | mm      | ODΦ25                              | ODΦ25          | ODΦ25          |

### Notes:

Based on Eurovent conditions:

H: High fan speed; M: Medium fan speed; L: Low fan speed.

1 :Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/19°C WB, entering/leaving water temperature 7°C /12°C, high fan speed.

2 :Heating mode (1) : (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C, high fan speed

3 :Heating mode (2) : (2-pipe coil): entering air temperature 20°C DB, enter water temperature/water flow 50°C/\*(same water flow as standard rating condition in cooling)

## 6. Capacity Table

Cooling Capacity Table

| MKD-V300 |    |                    |                           |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|----------|----|--------------------|---------------------------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| EWT      | ΔT | Indoor temp (W.B.) | Indoor temperature (D.B.) |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|          |    |                    | 21                        |      |      |       | 23   |      |      |        | 25   |      |      |        | 27   |      |      |        | 29   |      |      |        |
|          |    |                    | TC                        | SC   | WF   | WPD   | TC   | SC   | WF   | WPD    | TC   | SC   | WF   | WPD    | TC   | SC   | WF   | WPD    | TC   | SC   | WF   | WPD    |
| °C       | °C | °C                 | kW                        | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa    | kW   | kW   | m³/h | kPa    | kW   | kW   | m³/h | kPa    | kW   | kW   | m³/h | kPa    |
| 5        | 3  | 15                 | 2.51                      | 1.89 | 0.72 | 36.11 | 2.49 | 2.16 | 0.71 | 35.78  | 2.54 | 2.43 | 0.73 | 36.93  | 2.71 | 2.70 | 0.78 | 41.44  | 2.97 | 2.97 | 0.86 | 48.97  |
|          |    | 17                 | 3.31                      | 1.90 | 0.95 | 58.35 | 3.29 | 2.17 | 0.94 | 57.81  | 3.28 | 2.44 | 0.94 | 57.28  | 3.26 | 2.70 | 0.93 | 56.74  | 3.25 | 2.96 | 0.93 | 56.45  |
|          |    | 19                 | -                         | -    | -    | -     | 4.15 | 2.18 | 1.19 | 86.48  | 4.13 | 2.45 | 1.18 | 85.69  | 4.11 | 2.71 | 1.18 | 84.92  | 4.08 | 2.97 | 1.17 | 84.17  |
|          |    | 20                 | -                         | -    | -    | -     | 4.61 | 2.19 | 1.33 | 105.30 | 4.58 | 2.46 | 1.33 | 104.35 | 4.56 | 2.72 | 1.32 | 103.41 | 4.53 | 2.98 | 1.31 | 101.68 |
|          | 4  | 15                 | 2.23                      | 1.76 | 0.48 | 18.18 | 2.26 | 2.04 | 0.49 | 18.66  | 2.38 | 2.33 | 0.51 | 20.34  | 2.60 | 2.60 | 0.56 | 23.42  | 2.87 | 2.87 | 0.61 | 27.65  |
|          |    | 17                 | 3.06                      | 1.79 | 0.66 | 30.86 | 3.04 | 2.05 | 0.65 | 30.57  | 3.02 | 2.32 | 0.65 | 30.29  | 3.01 | 2.58 | 0.65 | 30.07  | 3.05 | 2.85 | 0.65 | 30.79  |
|          |    | 19                 | -                         | -    | -    | -     | 3.91 | 2.07 | 0.84 | 47.19  | 3.89 | 2.34 | 0.84 | 46.77  | 3.87 | 2.60 | 0.83 | 46.36  | 3.85 | 2.86 | 0.83 | 45.94  |
|          |    | 20                 | -                         | -    | -    | -     | 4.37 | 2.08 | 0.94 | 57.73  | 4.35 | 2.35 | 0.94 | 57.22  | 4.33 | 2.61 | 0.94 | 56.72  | 4.31 | 2.87 | 0.93 | 55.91  |
|          | 5  | 15                 | 1.94                      | 1.62 | 0.33 | 8.74  | 2.05 | 1.91 | 0.35 | 9.98   | 2.22 | 2.21 | 0.38 | 12.03  | 2.49 | 2.49 | 0.43 | 14.93  | 2.76 | 2.76 | 0.48 | 17.79  |
|          |    | 17                 | 2.77                      | 1.65 | 0.48 | 17.89 | 2.76 | 1.92 | 0.47 | 17.73  | 2.74 | 2.19 | 0.47 | 17.57  | 2.78 | 2.46 | 0.48 | 17.97  | 2.88 | 2.75 | 0.50 | 19.08  |
|          |    | 19                 | -                         | -    | -    | -     | 3.65 | 1.95 | 0.63 | 28.38  | 3.63 | 2.22 | 0.63 | 28.42  | 3.61 | 2.48 | 0.62 | 27.88  | 3.59 | 2.74 | 0.62 | 27.62  |
|          |    | 20                 | -                         | -    | -    | -     | 4.12 | 1.96 | 0.71 | 35.22  | 4.10 | 2.23 | 0.71 | 34.92  | 4.08 | 2.50 | 0.70 | 34.61  | 4.06 | 2.76 | 0.70 | 34.31  |
|          | 6  | 15                 | 1.77                      | 1.53 | 0.25 | 4.22  | 1.91 | 1.82 | 0.27 | 5.21   | 2.11 | 2.11 | 0.30 | 6.81   | 2.37 | 2.37 | 0.34 | 9.21   | 2.64 | 2.64 | 0.38 | 11.83  |
|          |    | 17                 | 2.43                      | 1.50 | 0.35 | 9.82  | 2.41 | 1.77 | 0.35 | 9.67   | 2.45 | 2.05 | 0.35 | 10.02  | 2.55 | 2.34 | 0.37 | 10.96  | 2.70 | 2.63 | 0.39 | 12.42  |
|          |    | 19                 | -                         | -    | -    | -     | 3.35 | 1.82 | 0.48 | 17.90  | 3.33 | 2.08 | 0.48 | 17.74  | 3.31 | 2.35 | 0.47 | 17.57  | 3.30 | 2.61 | 0.47 | 17.43  |
|          |    | 20                 | -                         | -    | -    | -     | 3.83 | 1.83 | 0.55 | 22.50  | 3.81 | 2.10 | 0.54 | 22.30  | 3.79 | 2.37 | 0.54 | 22.10  | 3.77 | 2.63 | 0.54 | 21.91  |
| 7        | 3  | 15                 | 1.90                      | 1.61 | 0.55 | 22.26 | 1.98 | 1.89 | 0.57 | 23.80  | 2.17 | 2.17 | 0.63 | 28.38  | 2.44 | 2.44 | 0.71 | 34.57  | 2.70 | 2.70 | 0.78 | 40.84  |
|          |    | 17                 | 2.72                      | 1.63 | 0.78 | 40.97 | 2.70 | 1.90 | 0.78 | 40.85  | 2.69 | 2.16 | 0.78 | 40.81  | 2.69 | 2.43 | 0.78 | 40.84  | 2.76 | 2.70 | 0.79 | 42.27  |
|          |    | 19                 | -                         | -    | -    | -     | 3.57 | 1.91 | 1.03 | 66.17  | 3.55 | 2.18 | 1.02 | 65.37  | 3.53 | 2.44 | 1.02 | 64.58  | 3.51 | 2.70 | 1.01 | 63.88  |
|          |    | 20                 | -                         | -    | -    | -     | 4.02 | 1.92 | 1.17 | 82.21  | 4.00 | 2.18 | 1.15 | 80.25  | 3.98 | 2.45 | 1.15 | 79.52  | 3.95 | 2.71 | 1.14 | 78.79  |
|          | 4  | 15                 | 1.65                      | 1.48 | 0.36 | 10.46 | 1.82 | 1.78 | 0.39 | 12.67  | 2.07 | 2.07 | 0.45 | 15.78  | 2.34 | 2.34 | 0.50 | 19.26  | 2.60 | 2.60 | 0.56 | 23.16  |
|          |    | 17                 | 2.43                      | 1.50 | 0.52 | 20.62 | 2.42 | 1.77 | 0.52 | 20.41  | 2.42 | 2.04 | 0.52 | 20.40  | 2.49 | 2.32 | 0.53 | 21.42  | 2.63 | 2.60 | 0.57 | 23.56  |
|          |    | 19                 | -                         | -    | -    | -     | 3.31 | 1.80 | 0.72 | 35.25  | 3.29 | 2.06 | 0.71 | 34.92  | 3.27 | 2.33 | 0.71 | 34.60  | 3.26 | 2.59 | 0.70 | 34.27  |
|          |    | 20                 | -                         | -    | -    | -     | 3.77 | 1.81 | 0.82 | 44.15  | 3.75 | 2.07 | 0.81 | 43.74  | 3.73 | 2.34 | 0.81 | 43.34  | 3.71 | 2.60 | 0.80 | 42.95  |
|          | 5  | 15                 | 1.49                      | 1.39 | 0.26 | 4.50  | 1.68 | 1.67 | 0.29 | 6.26   | 1.94 | 1.94 | 0.33 | 9.08   | 2.22 | 2.22 | 0.38 | 12.01  | 2.49 | 2.49 | 0.43 | 14.70  |
|          |    | 17                 | 2.08                      | 1.35 | 0.36 | 10.63 | 2.08 | 1.63 | 0.36 | 10.60  | 2.16 | 1.91 | 0.37 | 11.41  | 2.30 | 2.21 | 0.40 | 12.80  | 2.50 | 2.50 | 0.43 | 14.78  |
|          |    | 19                 | -                         | -    | -    | -     | 3.01 | 1.67 | 0.52 | 20.17  | 2.99 | 1.94 | 0.51 | 19.98  | 2.98 | 2.49 | 0.53 | 10.00  | 2.97 | 2.47 | 0.51 | 19.77  |
|          |    | 20                 | -                         | -    | -    | -     | 3.49 | 1.68 | 0.60 | 25.92  | 3.47 | 1.95 | 0.60 | 25.68  | 3.45 | 2.22 | 0.59 | 25.45  | 3.43 | 2.48 | 0.59 | 25.22  |
|          | 6  | 15                 | 1.36                      | 1.30 | 0.20 | 2.47  | 1.59 | 1.59 | 0.23 | 3.37   | 1.85 | 1.85 | 0.26 | 4.97   | 2.11 | 2.11 | 0.30 | 7.08   | 2.38 | 2.38 | 0.34 | 9.49   |
|          |    | 17                 | 1.78                      | 1.23 | 0.26 | 4.53  | 1.85 | 1.52 | 0.26 | 4.99   | 1.97 | 1.81 | 0.28 | 5.94   | 2.15 | 2.10 | 0.31 | 7.42   | 2.38 | 2.38 | 0.34 | 9.52   |
|          |    | 19                 | -                         | -    | -    | -     | 2.66 | 1.52 | 0.38 | 11.91  | 2.64 | 1.79 | 0.38 | 11.77  | 2.64 | 2.06 | 0.38 | 11.78  | 2.71 | 2.34 | 0.39 | 12.31  |
|          |    | 20                 | -                         | -    | -    | -     | 3.16 | 1.55 | 0.45 | 16.04  | 3.15 | 1.82 | 0.45 | 15.88  | 3.13 | 2.08 | 0.45 | 15.73  | 3.11 | 2.35 | 0.45 | 15.57  |
| 9        | 3  | 15                 | 1.39                      | 1.35 | 0.40 | 12.80 | 1.63 | 1.63 | 0.47 | 16.99  | 1.90 | 1.90 | 0.55 | 21.96  | 2.18 | 2.18 | 0.63 | 27.92  | 2.44 | 2.44 | 0.70 | 33.57  |
|          |    | 17                 | 2.07                      | 1.35 | 0.59 | 25.27 | 2.05 | 1.61 | 0.59 | 24.96  | 2.08 | 1.89 | 0.60 | 25.62  | 2.21 | 2.17 | 0.64 | 28.62  | 2.44 | 2.44 | 0.70 | 33.66  |
|          |    | 19                 | -                         | -    | -    | -     | 2.94 | 1.64 | 0.85 | 46.83  | 2.92 | 1.90 | 0.85 | 46.37  | 2.90 | 2.17 | 0.84 | 45.91  | 2.89 | 2.43 | 0.84 | 45.44  |
|          |    | 20                 | -                         | -    | -    | -     | 3.39 | 1.64 | 0.98 | 59.33  | 3.37 | 1.91 | 0.97 | 58.74  | 3.35 | 2.17 | 0.96 | 58.18  | 3.33 | 2.44 | 0.96 | 57.62  |
|          | 4  | 15                 | 1.25                      | 1.24 | 0.27 | 5.27  | 1.51 | 1.51 | 0.33 | 8.66   | 1.79 | 1.79 | 0.39 | 12.10  | 2.07 | 2.07 | 0.45 | 15.42  | 2.34 | 2.34 | 0.50 | 19.09  |
|          |    | 17                 | 1.72                      | 1.20 | 0.37 | 11.29 | 1.76 | 1.49 | 0.38 | 11.72  | 1.89 | 1.78 | 0.41 | 13.33  | 2.08 | 2.07 | 0.45 | 15.52  | 2.34 | 2.34 | 0.51 | 19.14  |
|          |    | 19                 | -                         | -    | -    | -     | 2.65 | 1.52 | 0.57 | 23.66  | 2.63 | 1.78 | 0.57 | 23.42  | 2.61 | 2.05 | 0.57 | 23.16  | 2.64 | 2.32 | 0.57 | 23.59  |
|          |    | 20                 | -                         | -    | -    | -     | 3.11 | 1.52 | 0.67 | 30.94  | 3.09 | 1.79 | 0.67 | 30.64  | 3.08 | 2.06 | 0.66 | 30.34  | 3.06 | 2.32 | 0.66 | 30.04  |
|          | 5  | 15                 | 1.15                      | 1.15 | 0.20 | 2.47  | 1.42 | 1.42 | 0.24 | 4.09   | 1.68 | 1.68 | 0.29 | 6.48   | 1.95 | 1.95 | 0.34 | 9.31   | 2.23 | 2.23 | 0.38 | 11.93  |
|          |    | 17                 | 1.42                      | 1.08 | 0.24 | 4.17  | 1.54 | 1.38 | 0.27 | 5.18   | 1.72 | 1.67 | 0.30 | 6.87   | 1.95 | 1.95 | 0.34 | 9.33   | 2.23 | 2.23 | 0.38 | 11.96  |
|          |    | 19                 | -                         | -    | -    | -     | 2.29 | 1.37 | 0.39 | 12.50  | 2.28 | 1.64 | 0.39 | 12.35  | 2.31 | 1.92 | 0.40 | 12.71  | 2.42 | 2.21 | 0.42 | 13.67  |
|          |    | 20                 | -                         | -    | -    | -     | 2.79 | 1.40 | 0.48 | 17.46  | 2.77 | 1.67 | 0.48 | 17.29  | 2.76 | 1.93 | 0.47 | 17.10  | 2.75 | 2.20 | 0.47 | 17.08  |
|          | 6  | 15                 | 1.04                      | 1.04 | 0.15 | 1.74  | 1.33 | 1.33 | 0.19 | 2.30   | 1.59 | 1.59 | 0.23 | 3.45   | 1.85 | 1.85 | 0.27 | 5.20   | 2.11 | 2.11 | 0.30 | 7.37   |
|          |    | 17                 | 1.22                      | 0.98 | 0.17 | 2.02  | 1.40 | 1.29 | 0.20 | 2.55   | 1.61 | 1.58 | 0.23 | 3.55   | 1.85 | 1.85 | 0.27 | 5.21   | 2.12 | 2.12 | 0.30 | 7.39   |
|          |    | 19                 | -                         | -    | -    | -     | 1.91 | 1.22 | 0.27 | 5.69   | 1.95 | 1.51 | 0.28 | 6.02   | 2.06 | 1.80 | 0.30 | 6.94   | 2.22 | 2.09 | 0.32 | 8.27   |
|          |    | 20                 | -                         | -    | -    | -     | 2.40 | 1.24 | 0.34 | 9.80   | 2.39 | 1.51 | 0.34 | 9.67   | 2.39 | 1.79 | 0.34 | 9.69   | 2.46 | 2.07 | 0.35 | 10.28  |

# Midea Fan Coil Unit



(Continued)

| MKD-V300 |    |                    |                           |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|----------|----|--------------------|---------------------------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|--|
| EWT      | ΔT | Indoor temp (W.B.) | Indoor temperature (D.B.) |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|          |    |                    | 21                        |      |      |       | 23   |      |      |       | 25   |      |      |       | 27   |      |      |       | 29   |      |      |       |  |
|          |    |                    | TC                        | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   |  |
| °C       | °C | °C                 | kW                        | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   |  |
| 11       | 3  | 15                 | 1.07                      | 1.07 | 0.31 | 7.62  | 1.36 | 1.36 | 0.39 | 12.01 | 1.63 | 1.63 | 0.47 | 16.47 | 1.91 | 1.91 | 0.54 | 21.42 | 2.17 | 2.17 | 0.62 | 26.87 |  |
|          |    | 17                 | 1.35                      | 1.05 | 0.38 | 11.82 | 1.45 | 1.35 | 0.41 | 13.41 | 1.64 | 1.64 | 0.47 | 16.54 | 1.91 | 1.91 | 0.54 | 21.48 | 2.18 | 2.18 | 0.62 | 26.95 |  |
|          |    | 19                 | -                         | -    | -    | -     | 2.25 | 1.35 | 0.64 | 28.52 | 2.23 | 1.62 | 0.64 | 28.20 | 2.23 | 1.89 | 0.64 | 28.17 | 2.30 | 2.17 | 0.66 | 29.48 |  |
|          |    | 20                 | -                         | -    | -    | -     | 2.72 | 1.36 | 0.78 | 39.81 | 2.70 | 1.63 | 0.78 | 39.39 | 2.68 | 1.90 | 0.77 | 38.97 | 2.66 | 2.16 | 0.77 | 38.53 |  |
|          | 4  | 15                 | 0.98                      | 0.98 | 0.21 | 2.82  | 1.24 | 1.24 | 0.27 | 5.37  | 1.52 | 1.52 | 0.33 | 8.76  | 1.80 | 1.80 | 0.39 | 11.87 | 2.07 | 2.07 | 0.44 | 15.09 |  |
|          |    | 17                 | 1.10                      | 0.94 | 0.23 | 3.82  | 1.27 | 1.24 | 0.27 | 5.71  | 1.52 | 1.52 | 0.33 | 8.77  | 1.80 | 1.80 | 0.39 | 11.90 | 2.07 | 2.07 | 0.44 | 15.13 |  |
|          |    | 19                 | -                         | -    | -    | -     | 1.89 | 1.22 | 0.41 | 12.93 | 1.90 | 1.49 | 0.41 | 12.99 | 1.99 | 1.78 | 0.43 | 14.03 | 2.13 | 2.07 | 0.46 | 15.84 |  |
|          |    | 20                 | -                         | -    | -    | -     | 2.39 | 1.24 | 0.51 | 19.21 | 2.37 | 1.51 | 0.51 | 19.00 | 2.36 | 1.78 | 0.51 | 18.77 | 2.39 | 2.05 | 0.51 | 19.27 |  |
|          | 5  | 15                 | 0.88                      | 0.88 | 0.15 | 1.69  | 1.16 | 1.16 | 0.20 | 2.51  | 1.42 | 1.42 | 0.24 | 4.29  | 1.69 | 1.69 | 0.29 | 6.76  | 1.96 | 1.96 | 0.34 | 9.42  |  |
|          |    | 17                 | 0.94                      | 0.85 | 0.16 | 1.79  | 1.17 | 1.15 | 0.20 | 2.56  | 1.42 | 1.42 | 0.24 | 4.30  | 1.69 | 1.69 | 0.29 | 6.78  | 1.96 | 1.96 | 0.34 | 9.45  |  |
|          |    | 19                 | -                         | -    | -    | -     | 1.51 | 1.08 | 0.26 | 5.15  | 1.62 | 1.37 | 0.28 | 6.12  | 1.78 | 1.67 | 0.31 | 7.68  | 1.98 | 1.96 | 0.34 | 9.63  |  |
|          |    | 20                 | -                         | -    | -    | -     | 2.00 | 1.09 | 0.34 | 9.74  | 1.98 | 1.36 | 0.34 | 9.60  | 2.04 | 1.65 | 0.35 | 10.09 | 2.16 | 1.94 | 0.37 | 11.11 |  |
|          | 6  | 15                 | 0.76                      | 0.76 | 0.11 | 1.20  | 1.05 | 1.05 | 0.15 | 1.66  | 1.33 | 1.33 | 0.19 | 2.30  | 1.59 | 1.59 | 0.23 | 3.61  | 1.85 | 1.85 | 0.26 | 5.37  |  |
|          |    | 17                 | 0.78                      | 0.75 | 0.11 | 1.23  | 1.05 | 1.05 | 0.15 | 1.66  | 1.33 | 1.33 | 0.19 | 2.30  | 1.59 | 1.59 | 0.23 | 3.62  | 1.85 | 1.85 | 0.27 | 5.39  |  |
|          |    | 19                 | -                         | -    | -    | -     | 1.29 | 0.98 | 0.18 | 2.15  | 1.45 | 1.28 | 0.21 | 2.83  | 1.64 | 1.58 | 0.24 | 3.91  | 1.86 | 1.86 | 0.27 | 5.43  |  |
|          |    | 20                 | -                         | -    | -    | -     | 1.61 | 0.95 | 0.23 | 3.76  | 1.67 | 1.24 | 0.24 | 4.11  | 1.79 | 1.53 | 0.26 | 4.98  | 1.95 | 1.83 | 0.28 | 6.18  |  |
| 13       | 3  | 15                 | 0.81                      | 0.81 | 0.23 | 3.77  | 1.08 | 1.08 | 0.31 | 7.97  | 1.36 | 1.36 | 0.39 | 12.04 | 1.64 | 1.64 | 0.47 | 16.47 | 1.91 | 1.91 | 0.55 | 21.38 |  |
|          |    | 17                 | 0.82                      | 0.80 | 0.24 | 3.95  | 1.08 | 1.08 | 0.31 | 7.99  | 1.36 | 1.36 | 0.39 | 12.07 | 1.64 | 1.64 | 0.47 | 16.51 | 1.91 | 1.91 | 0.55 | 21.43 |  |
|          |    | 19                 | -                         | -    | -    | -     | 1.46 | 1.06 | 0.42 | 13.39 | 1.53 | 1.34 | 0.44 | 14.46 | 1.68 | 1.64 | 0.48 | 17.17 | 1.91 | 1.91 | 0.55 | 21.47 |  |
|          |    | 20                 | -                         | -    | -    | -     | 1.96 | 1.08 | 0.56 | 22.42 | 1.95 | 1.35 | 0.56 | 22.13 | 1.95 | 1.62 | 0.56 | 22.25 | 2.04 | 1.90 | 0.59 | 23.88 |  |
|          | 4  | 15                 | 0.71                      | 0.71 | 0.15 | 1.63  | 0.98 | 0.98 | 0.21 | 2.98  | 1.25 | 1.25 | 0.27 | 5.59  | 1.52 | 1.52 | 0.33 | 8.80  | 1.80 | 1.80 | 0.39 | 11.72 |  |
|          |    | 17                 | 0.71                      | 0.71 | 0.15 | 1.63  | 0.98 | 0.98 | 0.21 | 2.99  | 1.25 | 1.25 | 0.27 | 5.61  | 1.53 | 1.53 | 0.33 | 8.83  | 1.80 | 1.80 | 0.39 | 11.75 |  |
|          |    | 19                 | -                         | -    | -    | -     | 1.15 | 0.93 | 0.25 | 4.58  | 1.31 | 1.23 | 0.28 | 6.37  | 1.53 | 1.53 | 0.33 | 8.90  | 1.81 | 1.81 | 0.39 | 11.79 |  |
|          |    | 20                 | -                         | -    | -    | -     | 1.54 | 0.93 | 0.33 | 9.00  | 1.57 | 1.21 | 0.34 | 9.27  | 1.69 | 1.50 | 0.36 | 10.52 | 1.86 | 1.80 | 0.40 | 12.36 |  |
|          | 5  | 15                 | 0.59                      | 0.59 | 0.10 | 1.06  | 0.88 | 0.88 | 0.15 | 1.60  | 1.16 | 1.16 | 0.20 | 2.54  | 1.42 | 1.42 | 0.24 | 4.41  | 1.69 | 1.69 | 0.29 | 6.87  |  |
|          |    | 17                 | 0.59                      | 0.59 | 0.10 | 1.06  | 0.88 | 0.88 | 0.15 | 1.60  | 1.16 | 1.16 | 0.20 | 2.55  | 1.42 | 1.42 | 0.24 | 4.42  | 1.69 | 1.69 | 0.29 | 6.89  |  |
|          |    | 19                 | -                         | -    | -    | -     | 0.97 | 0.84 | 0.17 | 1.78  | 1.19 | 1.15 | 0.20 | 2.71  | 1.42 | 1.42 | 0.24 | 4.43  | 1.69 | 1.69 | 0.29 | 6.92  |  |
|          |    | 20                 | -                         | -    | -    | -     | 1.19 | 0.80 | 0.20 | 2.74  | 1.32 | 1.10 | 0.23 | 3.62  | 1.49 | 1.40 | 0.26 | 5.06  | 1.71 | 1.69 | 0.29 | 7.05  |  |
|          | 6  | 15                 | 0.46                      | 0.46 | 0.07 | 0.67  | 0.77 | 0.77 | 0.11 | 1.14  | 1.06 | 1.06 | 0.15 | 1.58  | 1.33 | 1.33 | 0.19 | 2.31  | 1.59 | 1.59 | 0.23 | 3.71  |  |
|          |    | 17                 | 0.46                      | 0.46 | 0.07 | 0.67  | 0.77 | 0.77 | 0.11 | 1.14  | 1.06 | 1.06 | 0.15 | 1.58  | 1.33 | 1.33 | 0.19 | 2.32  | 1.59 | 1.59 | 0.23 | 3.73  |  |
|          |    | 19                 | -                         | -    | -    | -     | 0.80 | 0.74 | 0.11 | 1.18  | 1.07 | 1.05 | 0.15 | 1.59  | 1.34 | 1.33 | 0.19 | 2.32  | 1.60 | 1.60 | 0.23 | 3.74  |  |
|          |    | 20                 | -                         | -    | -    | -     | 0.92 | 0.70 | 0.13 | 1.36  | 1.15 | 1.02 | 0.16 | 1.74  | 1.37 | 1.32 | 0.20 | 2.49  | 1.60 | 1.60 | 0.23 | 3.76  |  |
| 15       | 3  | 15                 | 0.53                      | 0.53 | 0.15 | 1.56  | 0.80 | 0.80 | 0.23 | 3.82  | 1.08 | 1.08 | 0.31 | 7.89  | 1.36 | 1.36 | 0.39 | 11.71 | 1.64 | 1.64 | 0.47 | 16.23 |  |
|          |    | 17                 | 0.53                      | 0.53 | 0.15 | 1.57  | 0.80 | 0.80 | 0.23 | 3.84  | 1.08 | 1.08 | 0.31 | 7.91  | 1.36 | 1.36 | 0.39 | 11.74 | 1.64 | 1.64 | 0.47 | 16.27 |  |
|          |    | 19                 | -                         | -    | -    | -     | 0.83 | 0.79 | 0.24 | 4.24  | 1.08 | 1.08 | 0.31 | 7.90  | 1.37 | 1.37 | 0.39 | 11.78 | 1.64 | 1.64 | 0.47 | 16.32 |  |
|          |    | 20                 | -                         | -    | -    | -     | 1.07 | 0.77 | 0.31 | 7.80  | 1.20 | 1.07 | 0.34 | 9.45  | 1.39 | 1.36 | 0.40 | 12.09 | 1.64 | 1.64 | 0.47 | 16.32 |  |
|          | 4  | 15                 | 0.41                      | 0.41 | 0.09 | 0.89  | 0.71 | 0.71 | 0.15 | 1.55  | 0.98 | 0.98 | 0.21 | 3.04  | 1.25 | 1.25 | 0.27 | 5.79  | 1.53 | 1.53 | 0.33 | 8.74  |  |
|          |    | 17                 | 0.41                      | 0.41 | 0.09 | 0.90  | 0.71 | 0.71 | 0.15 | 1.55  | 0.98 | 0.98 | 0.21 | 3.05  | 1.25 | 1.25 | 0.27 | 5.81  | 1.53 | 1.53 | 0.33 | 8.77  |  |
|          |    | 19                 | -                         | -    | -    | -     | 0.72 | 0.71 | 0.15 | 1.57  | 0.98 | 0.98 | 0.21 | 3.06  | 1.25 | 1.25 | 0.27 | 5.83  | 1.53 | 1.53 | 0.33 | 8.79  |  |
|          |    | 20                 | -                         | -    | -    | -     | 0.82 | 0.67 | 0.18 | 1.96  | 1.02 | 0.97 | 0.22 | 3.39  | 1.25 | 1.25 | 0.27 | 5.84  | 1.53 | 1.53 | 0.33 | 8.80  |  |
|          | 5  | 15                 | 0.27                      | 0.27 | 0.05 | 0.46  | 0.60 | 0.60 | 0.10 | 1.03  | 0.89 | 0.89 | 0.15 | 1.55  | 1.16 | 1.16 | 0.20 | 2.67  | 1.42 | 1.42 | 0.25 | 4.65  |  |
|          |    | 17                 | 0.27                      | 0.27 | 0.05 | 0.46  | 0.60 | 0.60 | 0.10 | 1.03  | 0.89 | 0.89 | 0.15 | 1.55  | 1.16 | 1.16 | 0.20 | 2.68  | 1.42 | 1.42 | 0.25 | 4.67  |  |
|          |    | 19                 | -                         | -    | -    | -     | 0.60 | 0.59 | 0.10 | 1.03  | 0.89 | 0.89 | 0.15 | 1.55  | 1.16 | 1.16 | 0.20 | 2.69  | 1.43 | 1.43 | 0.25 | 4.68  |  |
|          |    | 20                 | -                         | -    | -    | -     | 0.63 | 0.57 | 0.11 | 1.09  | 0.90 | 0.88 | 0.16 | 1.58  | 1.16 | 1.16 | 0.20 | 2.69  | 1.43 | 1.43 | 0.25 | 4.69  |  |
|          | 6  | 15                 | -                         | -    | -    | -     | 0.46 | 0.46 | 0.07 | 0.65  | 0.77 | 0.77 | 0.11 | 1.10  | 1.06 | 1.06 | 0.15 | 1.53  | 1.33 | 1.33 | 0.19 | 2.41  |  |
|          |    | 17                 | -                         | -    | -    | -     | 0.46 | 0.46 | 0.07 | 0.65  | 0.77 | 0.77 | 0.11 | 1.10  | 1.06 | 1.06 | 0.15 | 1.53  | 1.34 | 1.34 | 0.19 | 2.42  |  |
|          |    | 19                 | -                         | -    | -    | -     | 0.46 | 0.46 | 0.07 | 0.65  | 0.78 | 0.78 | 0.11 | 1.10  | 1.07 | 1.07 | 0.15 | 1.54  | 1.34 | 1.34 | 0.19 | 2.43  |  |
|          |    | 20                 | -                         | -    | -    | -     | 0.47 | 0.46 | 0.07 | 0.66  | 0.78 | 0.78 | 0.11 | 1.10  | 1.07 | 1.07 | 0.15 | 1.54  | 1.34 | 1.34 | 0.19 | 2.43  |  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)



## Cooling Capacity

| MKD-V400 |    |                    |                           |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|----------|----|--------------------|---------------------------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|--|
| EWT      | ΔT | Indoor temp (W.B.) | Indoor temperature (D.B.) |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|          |    |                    | 21                        |      |      |       | 23   |      |      |       | 25   |      |      |       | 27   |      |      |       | 29   |      |      |       |  |
|          |    |                    | TC                        | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   |  |
| °C       | °C | °C                 | kW                        | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   |  |
| 5        | 3  | 15                 | 3.30                      | 2.46 | 0.95 | 21.83 | 3.28 | 2.80 | 0.94 | 21.63 | 3.32 | 3.15 | 0.96 | 22.15 | 3.50 | 3.49 | 1.01 | 24.18 | 3.82 | 3.82 | 1.09 | 27.87 |  |
|          |    | 17                 | 4.32                      | 2.48 | 1.24 | 34.39 | 4.30 | 2.82 | 1.23 | 34.04 | 4.27 | 3.15 | 1.22 | 33.69 | 4.24 | 3.48 | 1.21 | 33.34 | 4.23 | 3.81 | 1.21 | 33.15 |  |
|          |    | 19                 | -                         | -    | -    | -     | 5.39 | 2.84 | 1.55 | 50.89 | 5.36 | 3.17 | 1.55 | 50.55 | 5.33 | 3.50 | 1.54 | 50.04 | 5.30 | 3.83 | 1.53 | 49.54 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.97 | 2.84 | 1.71 | 60.13 | 5.93 | 3.18 | 1.70 | 59.53 | 5.90 | 3.51 | 1.69 | 58.93 | 5.86 | 3.84 | 1.68 | 58.34 |  |
|          | 4  | 15                 | 2.94                      | 2.29 | 0.63 | 10.86 | 2.98 | 2.65 | 0.64 | 11.14 | 3.11 | 3.01 | 0.67 | 11.99 | 3.37 | 3.37 | 0.72 | 13.71 | 3.71 | 3.71 | 0.80 | 16.28 |  |
|          |    | 17                 | 4.02                      | 2.34 | 0.87 | 18.68 | 4.00 | 2.68 | 0.86 | 18.49 | 3.98 | 3.01 | 0.86 | 18.30 | 3.96 | 3.35 | 0.85 | 18.17 | 4.00 | 3.69 | 0.86 | 18.49 |  |
|          |    | 19                 | -                         | -    | -    | -     | 5.11 | 2.70 | 1.10 | 27.89 | 5.08 | 3.04 | 1.09 | 27.61 | 5.05 | 3.37 | 1.08 | 27.33 | 5.02 | 3.70 | 1.08 | 27.06 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.70 | 2.72 | 1.22 | 33.63 | 5.67 | 3.05 | 1.22 | 33.29 | 5.63 | 3.39 | 1.21 | 32.97 | 5.60 | 3.71 | 1.20 | 32.63 |  |
|          | 5  | 15                 | 2.63                      | 2.14 | 0.45 | 5.04  | 2.74 | 2.51 | 0.47 | 5.58  | 2.93 | 2.89 | 0.50 | 6.65  | 3.24 | 3.24 | 0.55 | 8.42  | 3.58 | 3.58 | 0.61 | 10.32 |  |
|          |    | 17                 | 3.66                      | 2.17 | 0.63 | 10.73 | 3.63 | 2.51 | 0.62 | 10.61 | 3.62 | 2.85 | 0.62 | 10.52 | 3.66 | 3.20 | 0.63 | 10.74 | 3.77 | 3.55 | 0.65 | 11.31 |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.80 | 2.56 | 0.83 | 17.19 | 4.78 | 2.90 | 0.82 | 17.01 | 4.75 | 3.23 | 0.82 | 16.84 | 4.72 | 3.56 | 0.81 | 16.68 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.40 | 2.58 | 0.93 | 20.88 | 5.37 | 2.92 | 0.93 | 20.79 | 5.34 | 3.25 | 0.92 | 20.59 | 5.31 | 3.58 | 0.91 | 20.39 |  |
|          | 6  | 15                 | 2.42                      | 2.03 | 0.35 | 2.52  | 2.58 | 2.42 | 0.37 | 2.94  | 2.81 | 2.78 | 0.40 | 3.67  | 3.12 | 3.12 | 0.45 | 4.89  | 3.45 | 3.45 | 0.49 | 6.38  |  |
|          |    | 17                 | 3.28                      | 2.00 | 0.47 | 5.64  | 3.26 | 2.34 | 0.47 | 5.55  | 3.30 | 2.70 | 0.47 | 5.73  | 3.40 | 3.06 | 0.49 | 6.19  | 3.56 | 3.43 | 0.51 | 6.95  |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.43 | 2.39 | 0.63 | 10.90 | 4.40 | 2.73 | 0.63 | 10.79 | 4.38 | 3.06 | 0.63 | 10.67 | 4.36 | 3.40 | 0.62 | 10.59 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.06 | 2.42 | 0.73 | 13.69 | 5.03 | 2.76 | 0.72 | 13.55 | 5.00 | 3.10 | 0.72 | 13.42 | 4.97 | 3.43 | 0.71 | 13.28 |  |
| 7        | 3  | 15                 | 2.52                      | 2.10 | 0.72 | 13.48 | 2.60 | 2.46 | 0.75 | 14.24 | 2.82 | 2.81 | 0.81 | 16.53 | 3.16 | 3.16 | 0.91 | 20.08 | 3.49 | 3.49 | 1.00 | 23.52 |  |
|          |    | 17                 | 3.56                      | 2.12 | 1.02 | 24.38 | 3.54 | 2.46 | 1.02 | 24.12 | 3.52 | 2.80 | 1.01 | 23.85 | 3.52 | 3.14 | 1.01 | 23.86 | 3.59 | 3.48 | 1.03 | 24.77 |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.65 | 2.49 | 1.34 | 39.08 | 4.62 | 2.82 | 1.34 | 38.67 | 4.59 | 3.16 | 1.33 | 38.27 | 4.57 | 3.49 | 1.32 | 37.87 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.22 | 2.49 | 1.50 | 47.26 | 5.19 | 2.83 | 1.49 | 46.77 | 5.16 | 3.16 | 1.48 | 46.29 | 5.13 | 3.49 | 1.47 | 45.82 |  |
|          | 4  | 15                 | 2.22                      | 1.95 | 0.48 | 5.99  | 2.39 | 2.32 | 0.52 | 7.22  | 2.69 | 2.69 | 0.58 | 9.22  | 3.03 | 3.03 | 0.65 | 11.37 | 3.37 | 3.37 | 0.73 | 13.67 |  |
|          |    | 17                 | 3.23                      | 1.97 | 0.70 | 12.65 | 3.20 | 2.31 | 0.69 | 12.51 | 3.20 | 2.66 | 0.69 | 12.50 | 3.28 | 3.01 | 0.71 | 13.00 | 3.43 | 3.37 | 0.74 | 14.06 |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.34 | 2.35 | 0.93 | 20.80 | 4.31 | 2.69 | 0.93 | 20.59 | 4.29 | 3.02 | 0.92 | 20.38 | 4.26 | 3.35 | 0.92 | 20.16 |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.93 | 2.36 | 1.06 | 25.91 | 4.90 | 2.70 | 1.05 | 25.65 | 4.87 | 3.04 | 1.05 | 25.39 | 4.84 | 3.37 | 1.04 | 25.13 |  |
|          | 5  | 15                 | 2.03                      | 1.84 | 0.35 | 2.60  | 2.25 | 2.22 | 0.39 | 3.42  | 2.56 | 2.56 | 0.44 | 4.86  | 2.90 | 2.90 | 0.50 | 6.69  | 3.24 | 3.24 | 0.56 | 8.55  |  |
|          |    | 17                 | 2.80                      | 1.79 | 0.48 | 6.18  | 2.80 | 2.14 | 0.48 | 6.17  | 2.88 | 2.50 | 0.50 | 6.63  | 3.04 | 2.87 | 0.52 | 7.46  | 3.26 | 3.24 | 0.56 | 8.66  |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.98 | 2.19 | 0.68 | 12.22 | 3.95 | 2.53 | 0.68 | 12.09 | 3.96 | 3.20 | 0.70 | 11.50 | 3.93 | 3.20 | 0.68 | 11.96 |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.60 | 2.22 | 0.79 | 15.68 | 4.57 | 2.56 | 0.79 | 15.51 | 4.54 | 2.89 | 0.78 | 15.34 | 4.51 | 3.22 | 0.78 | 15.18 |  |
|          | 6  | 15                 | 1.85                      | 1.73 | 0.27 | 1.64  | 2.13 | 2.12 | 0.31 | 1.98  | 2.46 | 2.46 | 0.35 | 2.72  | 2.79 | 2.79 | 0.40 | 3.81  | 3.12 | 3.12 | 0.45 | 5.09  |  |
|          |    | 17                 | 2.47                      | 1.65 | 0.36 | 2.78  | 2.54 | 2.02 | 0.37 | 2.99  | 2.68 | 2.39 | 0.39 | 3.43  | 2.87 | 2.76 | 0.41 | 4.13  | 3.13 | 3.12 | 0.45 | 5.13  |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.55 | 2.01 | 0.51 | 7.05  | 3.52 | 2.35 | 0.50 | 6.95  | 3.53 | 2.69 | 0.51 | 6.97  | 3.60 | 3.05 | 0.52 | 7.29  |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.19 | 2.05 | 0.60 | 9.76  | 4.17 | 2.39 | 0.60 | 9.65  | 4.14 | 2.72 | 0.59 | 9.55  | 4.12 | 3.05 | 0.59 | 9.46  |  |
| 9        | 3  | 15                 | 1.83                      | 1.75 | 0.52 | 7.61  | 2.12 | 2.12 | 0.61 | 9.95  | 2.47 | 2.47 | 0.71 | 12.88 | 2.81 | 2.81 | 0.81 | 16.15 | 3.15 | 3.15 | 0.90 | 19.46 |  |
|          |    | 17                 | 2.73                      | 1.76 | 0.79 | 15.34 | 2.71 | 2.10 | 0.78 | 15.13 | 2.75 | 2.45 | 0.79 | 15.49 | 2.87 | 2.81 | 0.83 | 16.74 | 3.15 | 3.15 | 0.91 | 19.52 |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.85 | 2.13 | 1.11 | 27.77 | 3.82 | 2.47 | 1.11 | 27.46 | 3.80 | 2.81 | 1.10 | 27.16 | 3.77 | 3.14 | 1.09 | 26.88 |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.43 | 2.14 | 1.27 | 34.95 | 4.40 | 2.48 | 1.26 | 34.58 | 4.37 | 2.81 | 1.26 | 34.21 | 4.34 | 3.15 | 1.25 | 33.85 |  |
|          | 4  | 15                 | 1.68                      | 1.65 | 0.36 | 2.97  | 1.99 | 1.99 | 0.43 | 4.67  | 2.34 | 2.34 | 0.50 | 6.95  | 2.69 | 2.69 | 0.58 | 9.08  | 3.03 | 3.03 | 0.65 | 11.13 |  |
|          |    | 17                 | 2.30                      | 1.58 | 0.50 | 6.73  | 2.35 | 1.94 | 0.51 | 7.04  | 2.49 | 2.32 | 0.54 | 7.92  | 2.71 | 2.69 | 0.58 | 9.20  | 3.04 | 3.04 | 0.65 | 11.16 |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.49 | 1.98 | 0.75 | 14.12 | 3.47 | 2.32 | 0.75 | 14.05 | 3.45 | 2.66 | 0.75 | 13.94 | 3.48 | 3.00 | 0.75 | 14.11 |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.10 | 2.00 | 0.88 | 18.68 | 4.07 | 2.34 | 0.88 | 18.48 | 4.05 | 2.68 | 0.87 | 18.28 | 4.02 | 3.01 | 0.87 | 18.07 |  |
|          | 5  | 15                 | 1.54                      | 1.54 | 0.27 | 1.58  | 1.89 | 1.89 | 0.33 | 2.25  | 2.22 | 2.22 | 0.38 | 3.47  | 2.56 | 2.56 | 0.44 | 5.06  | 2.90 | 2.90 | 0.50 | 6.84  |  |
|          |    | 17                 | 1.97                      | 1.44 | 0.34 | 2.53  | 2.11 | 1.82 | 0.36 | 3.00  | 2.30 | 2.20 | 0.40 | 3.81  | 2.57 | 2.56 | 0.44 | 5.08  | 2.91 | 2.91 | 0.50 | 6.87  |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.05 | 1.81 | 0.53 | 7.61  | 3.03 | 2.15 | 0.52 | 7.51  | 3.08 | 2.50 | 0.53 | 7.74  | 3.20 | 2.87 | 0.55 | 8.28  |  |
|          |    | 20                 | -                         | -    | -    | -     | 3.70 | 1.84 | 0.64 | 10.64 | 3.68 | 2.18 | 0.63 | 10.53 | 3.65 | 2.52 | 0.63 | 10.40 | 3.65 | 2.86 | 0.63 | 10.40 |  |
|          | 6  | 15                 | 1.41                      | 1.41 | 0.20 | 1.17  | 1.77 | 1.77 | 0.25 | 1.49  | 2.12 | 2.12 | 0.30 | 1.95  | 2.46 | 2.46 | 0.35 | 2.79  | 2.79 | 2.79 | 0.40 | 3.93  |  |
|          |    | 17                 | 1.68                      | 1.31 | 0.24 | 1.39  | 1.91 | 1.72 | 0.27 | 1.62  | 2.17 | 2.11 | 0.31 | 2.03  | 2.46 | 2.46 | 0.35 | 2.80  | 2.79 | 2.79 | 0.40 | 3.94  |  |
|          |    | 19                 | -                         | -    | -    | -     | 2.63 | 1.64 | 0.38 | 3.39  | 2.67 | 2.00 | 0.38 | 3.55  | 2.79 | 2.37 | 0.40 | 3.98  | 2.96 | 2.74 | 0.43 | 4.65  |  |
|          |    | 20                 | -                         | -    | -    | -     | 3.23 | 1.65 | 0.46 | 5.79  | 3.20 | 1.99 | 0.46 | 5.69  | 3.21 | 2.34 | 0.46 | 5.73  | 3.29 | 2.70 | 0.47 | 6.07  |  |

# Midea Fan Coil Unit



(Continued)

| MKD-V400 |    |                       |                           |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|----------|----|-----------------------|---------------------------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|--|
| EWT      | ΔT | Indoor temp<br>(W.B.) | Indoor temperature (D.B.) |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|          |    |                       | 21                        |      |      |      | 23   |      |      |       | 25   |      |      |       | 27   |      |      |       | 29   |      |      |       |  |
|          |    |                       | TC                        | SC   | WF   | WPD  | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   |  |
| °C       | °C | °C                    | kW                        | kW   | m³/h | kPa  | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   |  |
| 11       | 3  | 15                    | 1.42                      | 1.42 | 0.40 | 4.11 | 1.77 | 1.77 | 0.50 | 7.05  | 2.13 | 2.13 | 0.61 | 9.70  | 2.47 | 2.47 | 0.70 | 12.52 | 2.81 | 2.81 | 0.80 | 15.59 |  |
|          |    | 17                    | 1.80                      | 1.38 | 0.51 | 7.26 | 1.92 | 1.75 | 0.55 | 8.15  | 2.14 | 2.13 | 0.61 | 9.79  | 2.48 | 2.48 | 0.71 | 12.56 | 2.82 | 2.82 | 0.80 | 15.64 |  |
|          |    | 19                    | -                         | -    | -    | -    | 2.96 | 1.77 | 0.84 | 17.04 | 2.94 | 2.11 | 0.84 | 16.82 | 2.94 | 2.45 | 0.84 | 16.81 | 3.01 | 2.80 | 0.86 | 17.54 |  |
|          |    | 20                    | -                         | -    | -    | -    | 3.56 | 1.78 | 1.02 | 23.40 | 3.54 | 2.12 | 1.01 | 23.13 | 3.51 | 2.46 | 1.00 | 22.87 | 3.49 | 2.79 | 1.00 | 22.61 |  |
|          | 4  | 15                    | 1.31                      | 1.31 | 0.28 | 1.66 | 1.65 | 1.65 | 0.35 | 2.90  | 1.99 | 1.99 | 0.43 | 4.79  | 2.34 | 2.34 | 0.50 | 6.95  | 2.69 | 2.69 | 0.58 | 8.87  |  |
|          |    | 17                    | 1.51                      | 1.25 | 0.32 | 2.27 | 1.71 | 1.63 | 0.37 | 3.20  | 2.00 | 1.99 | 0.43 | 4.80  | 2.35 | 2.35 | 0.50 | 6.97  | 2.70 | 2.70 | 0.58 | 8.90  |  |
|          |    | 19                    | -                         | -    | -    | -    | 2.52 | 1.60 | 0.54 | 7.95  | 2.53 | 1.95 | 0.54 | 8.00  | 2.63 | 2.31 | 0.56 | 8.54  | 2.80 | 2.68 | 0.60 | 9.48  |  |
|          |    | 20                    | -                         | -    | -    | -    | 3.17 | 1.63 | 0.68 | 11.71 | 3.15 | 1.97 | 0.67 | 11.57 | 3.13 | 2.31 | 0.67 | 11.44 | 3.17 | 2.66 | 0.68 | 11.69 |  |
|          | 5  | 15                    | 1.18                      | 1.18 | 0.20 | 1.14 | 1.55 | 1.55 | 0.27 | 1.52  | 1.89 | 1.89 | 0.33 | 2.33  | 2.23 | 2.23 | 0.38 | 3.62  | 2.56 | 2.56 | 0.44 | 5.23  |  |
|          |    | 17                    | 1.28                      | 1.13 | 0.22 | 1.23 | 1.58 | 1.54 | 0.27 | 1.56  | 1.89 | 1.89 | 0.33 | 2.33  | 2.23 | 2.23 | 0.38 | 3.63  | 2.57 | 2.57 | 0.44 | 5.26  |  |
|          |    | 19                    | -                         | -    | -    | -    | 2.10 | 1.43 | 0.36 | 3.10  | 2.21 | 1.81 | 0.38 | 3.56  | 2.38 | 2.18 | 0.41 | 4.36  | 2.61 | 2.56 | 0.45 | 5.48  |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.68 | 1.44 | 0.46 | 5.85  | 2.66 | 1.79 | 0.46 | 5.76  | 2.73 | 2.15 | 0.47 | 6.08  | 2.86 | 2.52 | 0.49 | 6.71  |  |
|          | 6  | 15                    | 1.04                      | 1.04 | 0.15 | 0.82 | 1.42 | 1.42 | 0.20 | 1.12  | 1.78 | 1.78 | 0.26 | 1.43  | 2.13 | 2.13 | 0.31 | 1.98  | 2.46 | 2.46 | 0.35 | 2.91  |  |
|          |    | 17                    | 1.08                      | 1.01 | 0.15 | 0.85 | 1.42 | 1.42 | 0.20 | 1.13  | 1.78 | 1.78 | 0.26 | 1.43  | 2.13 | 2.13 | 0.31 | 1.99  | 2.46 | 2.46 | 0.35 | 2.92  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.79 | 1.31 | 0.26 | 1.42  | 1.99 | 1.71 | 0.29 | 1.72  | 2.22 | 2.09 | 0.32 | 2.22  | 2.48 | 2.46 | 0.36 | 2.99  |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.25 | 1.29 | 0.32 | 2.32  | 2.31 | 1.65 | 0.33 | 2.49  | 2.45 | 2.03 | 0.35 | 2.92  | 2.64 | 2.40 | 0.38 | 3.54  |  |
| 13       | 3  | 15                    | 1.08                      | 1.08 | 0.31 | 2.07 | 1.42 | 1.42 | 0.41 | 4.37  | 1.78 | 1.78 | 0.51 | 7.12  | 2.13 | 2.13 | 0.61 | 9.67  | 2.47 | 2.47 | 0.71 | 12.47 |  |
|          |    | 17                    | 1.11                      | 1.07 | 0.32 | 2.24 | 1.42 | 1.42 | 0.41 | 4.38  | 1.78 | 1.78 | 0.51 | 7.15  | 2.13 | 2.13 | 0.61 | 9.70  | 2.47 | 2.47 | 0.71 | 12.51 |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.97 | 1.39 | 0.56 | 8.44  | 2.04 | 1.75 | 0.59 | 9.00  | 2.20 | 2.12 | 0.63 | 10.26 | 2.48 | 2.47 | 0.71 | 12.52 |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.59 | 1.41 | 0.74 | 13.37 | 2.57 | 1.75 | 0.73 | 13.18 | 2.58 | 2.10 | 0.74 | 13.27 | 2.67 | 2.46 | 0.76 | 14.08 |  |
|          | 4  | 15                    | 0.95                      | 0.95 | 0.21 | 1.10 | 1.32 | 1.32 | 0.28 | 1.68  | 1.65 | 1.65 | 0.36 | 3.06  | 2.00 | 2.00 | 0.43 | 5.01  | 2.34 | 2.34 | 0.50 | 6.92  |  |
|          |    | 17                    | 0.96                      | 0.95 | 0.21 | 1.11 | 1.32 | 1.32 | 0.28 | 1.69  | 1.66 | 1.66 | 0.36 | 3.07  | 2.00 | 2.00 | 0.43 | 5.03  | 2.35 | 2.35 | 0.50 | 6.94  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.59 | 1.24 | 0.34 | 2.74  | 1.77 | 1.62 | 0.38 | 3.69  | 2.02 | 2.00 | 0.44 | 5.15  | 2.35 | 2.35 | 0.50 | 6.96  |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.08 | 1.22 | 0.44 | 5.44  | 2.11 | 1.58 | 0.45 | 5.65  | 2.25 | 1.96 | 0.48 | 6.42  | 2.45 | 2.34 | 0.52 | 7.44  |  |
|          | 5  | 15                    | 0.80                      | 0.80 | 0.14 | 0.73 | 1.19 | 1.19 | 0.20 | 1.08  | 1.55 | 1.55 | 0.27 | 1.48  | 1.89 | 1.89 | 0.32 | 2.38  | 2.22 | 2.22 | 0.38 | 3.70  |  |
|          |    | 17                    | 0.80                      | 0.80 | 0.14 | 0.73 | 1.19 | 1.19 | 0.20 | 1.08  | 1.55 | 1.55 | 0.27 | 1.48  | 1.89 | 1.89 | 0.32 | 2.39  | 2.23 | 2.23 | 0.38 | 3.72  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.33 | 1.12 | 0.23 | 1.20  | 1.61 | 1.52 | 0.28 | 1.59  | 1.90 | 1.89 | 0.33 | 2.41  | 2.23 | 2.23 | 0.38 | 3.74  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.67 | 1.08 | 0.29 | 1.73  | 1.82 | 1.46 | 0.31 | 2.17  | 2.02 | 1.84 | 0.35 | 2.88  | 2.27 | 2.22 | 0.39 | 3.90  |  |
|          | 6  | 15                    | 0.63                      | 0.63 | 0.09 | 0.47 | 1.04 | 1.04 | 0.15 | 0.78  | 1.42 | 1.42 | 0.20 | 1.06  | 1.78 | 1.78 | 0.25 | 1.38  | 2.12 | 2.12 | 0.30 | 2.02  |  |
|          |    | 17                    | 0.63                      | 0.63 | 0.09 | 0.47 | 1.05 | 1.05 | 0.15 | 0.78  | 1.42 | 1.42 | 0.20 | 1.06  | 1.78 | 1.78 | 0.26 | 1.38  | 2.13 | 2.13 | 0.30 | 2.02  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.10 | 1.00 | 0.16 | 0.82  | 1.44 | 1.41 | 0.21 | 1.08  | 1.79 | 1.78 | 0.26 | 1.39  | 2.13 | 2.13 | 0.30 | 2.03  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.29 | 0.94 | 0.18 | 0.95  | 1.58 | 1.35 | 0.23 | 1.18  | 1.86 | 1.75 | 0.27 | 1.49  | 2.14 | 2.12 | 0.31 | 2.07  |  |
| 15       | 3  | 15                    | 0.72                      | 0.72 | 0.20 | 1.05 | 1.07 | 1.07 | 0.31 | 2.09  | 1.42 | 1.42 | 0.40 | 4.40  | 1.77 | 1.77 | 0.51 | 6.92  | 2.12 | 2.12 | 0.61 | 9.38  |  |
|          |    | 17                    | 0.72                      | 0.72 | 0.20 | 1.05 | 1.08 | 1.08 | 0.31 | 2.10  | 1.42 | 1.42 | 0.41 | 4.42  | 1.78 | 1.78 | 0.51 | 6.94  | 2.13 | 2.13 | 0.61 | 9.41  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.13 | 1.05 | 0.32 | 2.43  | 1.42 | 1.42 | 0.41 | 4.42  | 1.78 | 1.78 | 0.51 | 6.97  | 2.13 | 2.13 | 0.61 | 9.44  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.46 | 1.01 | 0.42 | 4.71  | 1.60 | 1.39 | 0.46 | 5.79  | 1.82 | 1.77 | 0.52 | 7.25  | 2.13 | 2.12 | 0.61 | 9.44  |  |
|          | 4  | 15                    | 0.57                      | 0.57 | 0.12 | 0.62 | 0.95 | 0.95 | 0.20 | 1.04  | 1.31 | 1.31 | 0.28 | 1.68  | 1.65 | 1.65 | 0.35 | 3.12  | 2.00 | 2.00 | 0.43 | 5.03  |  |
|          |    | 17                    | 0.57                      | 0.57 | 0.12 | 0.62 | 0.96 | 0.96 | 0.20 | 1.04  | 1.32 | 1.32 | 0.28 | 1.69  | 1.65 | 1.65 | 0.35 | 3.13  | 2.00 | 2.00 | 0.43 | 5.05  |  |
|          |    | 19                    | -                         | -    | -    | -    | 0.97 | 0.95 | 0.21 | 1.06  | 1.32 | 1.31 | 0.28 | 1.69  | 1.66 | 1.66 | 0.36 | 3.15  | 2.00 | 2.00 | 0.43 | 5.07  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.14 | 0.89 | 0.24 | 1.27  | 1.39 | 1.28 | 0.30 | 1.96  | 1.66 | 1.66 | 0.36 | 3.19  | 2.01 | 2.00 | 0.43 | 5.08  |  |
|          | 5  | 15                    | 0.38                      | 0.38 | 0.07 | 0.33 | 0.81 | 0.81 | 0.14 | 0.70  | 1.19 | 1.19 | 0.21 | 1.03  | 1.55 | 1.55 | 0.27 | 1.50  | 1.89 | 1.89 | 0.33 | 2.50  |  |
|          |    | 17                    | 0.38                      | 0.38 | 0.07 | 0.33 | 0.81 | 0.81 | 0.14 | 0.70  | 1.19 | 1.19 | 0.21 | 1.04  | 1.55 | 1.55 | 0.27 | 1.50  | 1.89 | 1.89 | 0.33 | 2.51  |  |
|          |    | 19                    | -                         | -    | -    | -    | 0.81 | 0.81 | 0.14 | 0.70  | 1.20 | 1.20 | 0.21 | 1.04  | 1.56 | 1.56 | 0.27 | 1.51  | 1.89 | 1.89 | 0.33 | 2.52  |  |
|          |    | 20                    | -                         | -    | -    | -    | 0.88 | 0.77 | 0.15 | 0.76  | 1.22 | 1.18 | 0.21 | 1.06  | 1.56 | 1.56 | 0.27 | 1.51  | 1.90 | 1.90 | 0.33 | 2.53  |  |
|          | 6  | 15                    | -                         | -    | -    | -    | 0.64 | 0.64 | 0.09 | 0.45  | 1.05 | 1.05 | 0.15 | 0.75  | 1.43 | 1.43 | 0.20 | 1.02  | 1.79 | 1.79 | 0.26 | 1.38  |  |
|          |    | 17                    | -                         | -    | -    | -    | 0.64 | 0.64 | 0.09 | 0.45  | 1.05 | 1.05 | 0.15 | 0.75  | 1.43 | 1.43 | 0.21 | 1.02  | 1.79 | 1.79 | 0.26 | 1.38  |  |
|          |    | 19                    | -                         | -    | -    | -    | 0.65 | 0.65 | 0.09 | 0.45  | 1.06 | 1.06 | 0.15 | 0.75  | 1.43 | 1.43 | 0.21 | 1.02  | 1.79 | 1.79 | 0.26 | 1.39  |  |
|          |    | 20                    | -                         | -    | -    | -    | 0.66 | 0.63 | 0.09 | 0.46  | 1.06 | 1.05 | 0.15 | 0.75  | 1.43 | 1.43 | 0.21 | 1.02  | 1.79 | 1.79 | 0.26 | 1.39  |  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

## Cooling Capacity

| MKD-V500 |    |                    |                           |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|----------|----|--------------------|---------------------------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|--|
| EWT      | ΔT | Indoor temp (W.B.) | Indoor temperature (D.B.) |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|          |    |                    | 21                        |      |      |       | 23   |      |      |       | 25   |      |      |       | 27   |      |      |       | 29   |      |      |       |  |
|          |    |                    | TC                        | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   |  |
| °C       | °C | °C                 | kW                        | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   |  |
| 5        | 3  | 15                 | 3.77                      | 2.86 | 1.09 | 20.13 | 3.76 | 3.27 | 1.08 | 19.98 | 3.84 | 3.68 | 1.10 | 20.76 | 4.10 | 4.10 | 1.18 | 23.23 | 4.50 | 4.50 | 1.29 | 27.07 |  |
|          |    | 17                 | 5.00                      | 2.88 | 1.43 | 32.24 | 4.97 | 3.29 | 1.42 | 31.94 | 4.94 | 3.69 | 1.41 | 31.63 | 4.91 | 4.09 | 1.41 | 31.32 | 4.91 | 4.48 | 1.40 | 31.26 |  |
|          |    | 19                 | -                         | -    | -    | -     | 6.28 | 3.31 | 1.81 | 48.47 | 6.25 | 3.71 | 1.80 | 48.00 | 6.21 | 4.11 | 1.79 | 47.55 | 6.18 | 4.50 | 1.78 | 47.10 |  |
|          |    | 20                 | -                         | -    | -    | -     | 6.97 | 3.31 | 2.00 | 57.29 | 6.93 | 3.72 | 1.98 | 56.75 | 6.89 | 4.12 | 1.97 | 56.22 | 6.85 | 4.51 | 1.96 | 55.70 |  |
|          | 4  | 15                 | 3.30                      | 2.64 | 0.71 | 9.73  | 3.37 | 3.06 | 0.72 | 10.02 | 3.57 | 3.50 | 0.77 | 11.10 | 3.93 | 3.93 | 0.84 | 13.02 | 4.33 | 4.33 | 0.93 | 15.38 |  |
|          |    | 17                 | 4.59                      | 2.69 | 0.99 | 17.10 | 4.56 | 3.10 | 0.98 | 16.93 | 4.54 | 3.50 | 0.98 | 16.77 | 4.53 | 3.90 | 0.98 | 16.71 | 4.60 | 4.32 | 0.99 | 17.20 |  |
|          |    | 19                 | -                         | -    | -    | -     | 5.89 | 3.12 | 1.26 | 25.97 | 5.86 | 3.53 | 1.26 | 25.73 | 5.83 | 3.93 | 1.25 | 25.49 | 5.79 | 4.32 | 1.24 | 25.25 |  |
|          |    | 20                 | -                         | -    | -    | -     | 6.59 | 3.14 | 1.41 | 31.52 | 6.56 | 3.54 | 1.41 | 31.23 | 6.52 | 3.94 | 1.40 | 30.94 | 6.49 | 4.34 | 1.39 | 30.66 |  |
|          | 5  | 15                 | 2.92                      | 2.45 | 0.50 | 4.20  | 3.09 | 2.89 | 0.53 | 4.86  | 3.35 | 3.33 | 0.57 | 6.00  | 3.74 | 3.74 | 0.64 | 7.86  | 4.15 | 4.15 | 0.71 | 9.73  |  |
|          |    | 17                 | 4.08                      | 2.46 | 0.70 | 9.42  | 4.06 | 2.87 | 0.70 | 9.31  | 4.05 | 3.27 | 0.69 | 9.27  | 4.13 | 3.70 | 0.71 | 9.64  | 4.30 | 4.13 | 0.74 | 10.38 |  |
|          |    | 19                 | -                         | -    | -    | -     | 5.46 | 2.93 | 0.94 | 15.66 | 5.43 | 3.34 | 0.94 | 15.51 | 5.40 | 3.74 | 0.93 | 15.37 | 5.37 | 4.13 | 0.93 | 15.22 |  |
|          |    | 20                 | -                         | -    | -    | -     | 6.18 | 2.95 | 1.06 | 19.32 | 6.15 | 3.36 | 1.06 | 19.15 | 6.11 | 3.76 | 1.05 | 18.97 | 6.08 | 4.16 | 1.05 | 18.80 |  |
|          | 6  | 15                 | 2.66                      | 2.32 | 0.38 | 2.14  | 2.90 | 2.77 | 0.41 | 2.55  | 3.20 | 3.20 | 0.46 | 3.28  | 3.59 | 3.59 | 0.51 | 4.47  | 3.98 | 3.98 | 0.57 | 5.91  |  |
|          |    | 17                 | 3.61                      | 2.25 | 0.52 | 4.60  | 3.60 | 2.66 | 0.51 | 4.55  | 3.67 | 3.09 | 0.53 | 4.80  | 3.83 | 3.53 | 0.55 | 5.36  | 4.06 | 3.96 | 0.58 | 6.22  |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.95 | 2.70 | 0.71 | 9.60  | 4.92 | 3.11 | 0.70 | 9.50  | 4.89 | 3.51 | 0.70 | 9.40  | 4.88 | 3.91 | 0.70 | 9.37  |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.70 | 2.74 | 0.82 | 12.30 | 5.67 | 3.15 | 0.81 | 12.18 | 5.64 | 3.55 | 0.81 | 12.07 | 5.61 | 3.95 | 0.81 | 11.96 |  |
| 7        | 3  | 15                 | 2.85                      | 2.43 | 0.82 | 12.16 | 2.98 | 2.86 | 0.85 | 13.16 | 3.29 | 3.29 | 0.95 | 15.78 | 3.70 | 3.70 | 1.07 | 19.26 | 4.10 | 4.10 | 1.17 | 22.66 |  |
|          |    | 17                 | 4.09                      | 2.46 | 1.17 | 22.56 | 4.06 | 2.87 | 1.17 | 22.33 | 4.04 | 3.27 | 1.16 | 22.09 | 4.05 | 3.68 | 1.16 | 22.25 | 4.18 | 4.09 | 1.20 | 23.48 |  |
|          |    | 19                 | -                         | -    | -    | -     | 5.39 | 2.89 | 1.56 | 36.78 | 5.36 | 3.30 | 1.55 | 36.42 | 5.33 | 3.70 | 1.54 | 36.07 | 5.30 | 4.09 | 1.53 | 35.72 |  |
|          |    | 20                 | -                         | -    | -    | -     | 6.07 | 2.90 | 1.75 | 44.70 | 6.04 | 3.30 | 1.74 | 44.27 | 6.01 | 3.71 | 1.73 | 43.86 | 5.97 | 4.10 | 1.72 | 43.44 |  |
|          | 4  | 15                 | 2.48                      | 2.24 | 0.53 | 5.09  | 2.72 | 2.68 | 0.59 | 6.49  | 3.11 | 3.11 | 0.67 | 8.65  | 3.53 | 3.53 | 0.76 | 10.76 | 3.94 | 3.94 | 0.85 | 13.02 |  |
|          |    | 17                 | 3.62                      | 2.25 | 0.78 | 11.22 | 3.59 | 2.66 | 0.77 | 11.10 | 3.61 | 3.07 | 0.78 | 11.19 | 3.74 | 3.51 | 0.81 | 11.93 | 3.97 | 3.94 | 0.86 | 13.21 |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.96 | 2.70 | 1.07 | 19.12 | 4.93 | 3.11 | 1.06 | 18.93 | 4.90 | 3.51 | 1.05 | 18.75 | 4.87 | 3.91 | 1.05 | 18.56 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.67 | 2.72 | 1.22 | 24.03 | 5.64 | 3.13 | 1.21 | 23.80 | 5.61 | 3.53 | 1.21 | 23.58 | 5.57 | 3.93 | 1.20 | 23.35 |  |
|          | 5  | 15                 | 2.26                      | 2.11 | 0.39 | 2.24  | 2.56 | 2.54 | 0.44 | 3.03  | 2.94 | 2.94 | 0.51 | 4.44  | 3.34 | 3.34 | 0.57 | 6.20  | 3.75 | 3.75 | 0.65 | 8.02  |  |
|          |    | 17                 | 3.08                      | 2.02 | 0.53 | 5.04  | 3.09 | 2.44 | 0.53 | 5.11  | 3.22 | 2.88 | 0.55 | 5.68  | 3.44 | 3.32 | 0.59 | 6.66  | 3.76 | 3.76 | 0.65 | 8.06  |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.47 | 2.49 | 0.77 | 10.89 | 4.44 | 2.90 | 0.76 | 10.78 | 4.20 | 3.45 | 0.75 | 12.30 | 4.43 | 3.71 | 0.76 | 10.76 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.20 | 2.52 | 0.90 | 14.12 | 5.17 | 2.93 | 0.89 | 13.98 | 5.14 | 3.33 | 0.88 | 13.85 | 5.12 | 3.73 | 0.88 | 13.71 |  |
|          | 6  | 15                 | 2.04                      | 1.96 | 0.29 | 1.47  | 2.41 | 2.41 | 0.35 | 1.79  | 2.81 | 2.81 | 0.40 | 2.46  | 3.20 | 3.20 | 0.46 | 3.47  | 3.59 | 3.59 | 0.51 | 4.68  |  |
|          |    | 17                 | 2.69                      | 1.86 | 0.39 | 2.22  | 2.80 | 2.30 | 0.40 | 2.44  | 2.99 | 2.75 | 0.43 | 2.91  | 3.25 | 3.18 | 0.47 | 3.64  | 3.59 | 3.59 | 0.51 | 4.70  |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.89 | 2.26 | 0.56 | 5.83  | 3.87 | 2.66 | 0.55 | 5.73  | 3.90 | 3.08 | 0.56 | 5.85  | 4.02 | 3.51 | 0.58 | 6.28  |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.65 | 2.29 | 0.67 | 8.50  | 4.62 | 2.70 | 0.66 | 8.41  | 4.60 | 3.10 | 0.66 | 8.31  | 4.58 | 3.51 | 0.66 | 8.27  |  |
| 9        | 3  | 15                 | 2.08                      | 2.03 | 0.60 | 6.82  | 2.46 | 2.46 | 0.71 | 9.38  | 2.88 | 2.88 | 0.83 | 12.23 | 3.29 | 3.29 | 0.95 | 15.42 | 3.69 | 3.69 | 1.06 | 18.70 |  |
|          |    | 17                 | 3.09                      | 2.02 | 0.89 | 13.77 | 3.07 | 2.43 | 0.88 | 13.61 | 3.14 | 2.86 | 0.90 | 14.14 | 3.33 | 3.29 | 0.96 | 15.77 | 3.70 | 3.70 | 1.06 | 18.75 |  |
|          |    | 19                 | -                         | -    | -    | -     | 4.42 | 2.47 | 1.27 | 25.38 | 4.39 | 2.87 | 1.26 | 25.12 | 4.36 | 3.28 | 1.25 | 24.86 | 4.34 | 3.68 | 1.25 | 24.64 |  |
|          |    | 20                 | -                         | -    | -    | -     | 5.12 | 2.48 | 1.47 | 32.72 | 5.09 | 2.89 | 1.46 | 32.40 | 5.06 | 3.29 | 1.46 | 32.16 | 5.03 | 3.69 | 1.46 | 32.20 |  |
|          | 4  | 15                 | 1.90                      | 1.89 | 0.41 | 2.60  | 2.29 | 2.29 | 0.50 | 4.33  | 2.70 | 2.70 | 0.58 | 6.45  | 3.12 | 3.12 | 0.67 | 8.55  | 3.53 | 3.53 | 0.76 | 10.56 |  |
|          |    | 17                 | 2.52                      | 1.79 | 0.54 | 5.52  | 2.61 | 2.23 | 0.56 | 5.99  | 2.81 | 2.68 | 0.61 | 7.08  | 3.12 | 3.12 | 0.67 | 8.59  | 3.53 | 3.53 | 0.76 | 10.59 |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.94 | 2.27 | 0.85 | 12.69 | 3.91 | 2.68 | 0.84 | 12.55 | 3.89 | 3.08 | 0.84 | 12.45 | 3.96 | 3.50 | 0.85 | 12.80 |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.67 | 2.29 | 1.01 | 16.99 | 4.64 | 2.70 | 1.00 | 16.82 | 4.61 | 3.11 | 0.99 | 16.64 | 4.58 | 3.50 | 0.99 | 16.45 |  |
|          | 5  | 15                 | 1.74                      | 1.73 | 0.30 | 1.44  | 2.15 | 2.15 | 0.37 | 2.02  | 2.55 | 2.55 | 0.44 | 3.14  | 2.94 | 2.94 | 0.51 | 4.64  | 3.35 | 3.35 | 0.58 | 6.37  |  |
|          |    | 17                 | 2.15                      | 1.64 | 0.37 | 2.03  | 2.34 | 2.09 | 0.40 | 2.50  | 2.60 | 2.53 | 0.45 | 3.32  | 2.95 | 2.94 | 0.51 | 4.65  | 3.35 | 3.35 | 0.58 | 6.40  |  |
|          |    | 19                 | -                         | -    | -    | -     | 3.34 | 2.03 | 0.58 | 6.37  | 3.33 | 2.45 | 0.57 | 6.30  | 3.42 | 2.88 | 0.59 | 6.68  | 3.60 | 3.32 | 0.62 | 7.40  |  |
|          |    | 20                 | -                         | -    | -    | -     | 4.13 | 2.08 | 0.71 | 9.37  | 4.10 | 2.49 | 0.71 | 9.27  | 4.07 | 2.89 | 0.70 | 9.15  | 4.09 | 3.30 | 0.70 | 9.24  |  |
|          | 6  | 15                 | 1.57                      | 1.57 | 0.22 | 1.06  | 2.00 | 2.00 | 0.29 | 1.36  | 2.41 | 2.41 | 0.35 | 1.76  | 2.81 | 2.81 | 0.40 | 2.52  | 3.20 | 3.20 | 0.46 | 3.58  |  |
|          |    | 17                 | 1.80                      | 1.47 | 0.26 | 1.22  | 2.10 | 1.95 | 0.30 | 1.43  | 2.44 | 2.41 | 0.35 | 1.79  | 2.81 | 2.81 | 0.40 | 2.53  | 3.20 | 3.20 | 0.46 | 3.60  |  |
|          |    | 19                 | -                         | -    | -    | -     | 2.85 | 1.85 | 0.41 | 2.66  | 2.93 | 2.28 | 0.42 | 2.86  | 3.10 | 2.72 | 0.44 | 3.32  | 3.33 | 3.16 | 0.48 | 4.02  |  |
|          |    | 20                 | -                         | -    | -    | -     | 3.51 | 1.84 | 0.50 | 4.64  | 3.49 | 2.25 | 0.50 | 4.56  | 3.52 | 2.67 | 0.51 | 4.67  | 3.65 | 3.11 | 0.52 | 5.12  |  |

# Midea Fan Coil Unit



(Continued)

| MKD-V500 |    |                       |                           |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|----------|----|-----------------------|---------------------------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|--|
| EWT      | ΔT | Indoor temp<br>(W.B.) | Indoor temperature (D.B.) |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |  |
|          |    |                       | 21                        |      |      |      | 23   |      |      |       | 25   |      |      |       | 27   |      |      |       | 29   |      |      |       |  |
|          |    |                       | TC                        | SC   | WF   | WPD  | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   | TC   | SC   | WF   | WPD   |  |
| °C       | °C | °C                    | kW                        | kW   | m³/h | kPa  | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   | kW   | kW   | m³/h | kPa   |  |
| 11       | 3  | 15                    | 1.62                      | 1.62 | 0.46 | 3.72 | 2.04 | 2.04 | 0.58 | 6.55  | 2.47 | 2.47 | 0.70 | 9.15  | 2.88 | 2.88 | 0.82 | 11.92 | 3.29 | 3.29 | 0.94 | 15.04 |  |
|          |    | 17                    | 1.98                      | 1.57 | 0.56 | 6.12 | 2.16 | 2.02 | 0.62 | 7.31  | 2.47 | 2.47 | 0.70 | 9.18  | 2.89 | 2.89 | 0.82 | 11.95 | 3.30 | 3.30 | 0.94 | 15.08 |  |
|          |    | 19                    | -                         | -    | -    | -    | 3.36 | 2.04 | 0.96 | 15.45 | 3.34 | 2.45 | 0.95 | 15.35 | 3.35 | 2.86 | 0.95 | 15.36 | 3.47 | 3.28 | 0.99 | 16.33 |  |
|          |    | 20                    | -                         | -    | -    | -    | 4.08 | 2.05 | 1.16 | 21.54 | 4.05 | 2.46 | 1.16 | 21.31 | 4.02 | 2.87 | 1.15 | 21.08 | 4.00 | 3.27 | 1.14 | 20.87 |  |
|          | 4  | 15                    | 1.48                      | 1.48 | 0.32 | 1.50 | 1.89 | 1.89 | 0.40 | 2.60  | 2.29 | 2.29 | 0.49 | 4.38  | 2.71 | 2.71 | 0.58 | 6.49  | 3.12 | 3.12 | 0.67 | 8.38  |  |
|          |    | 17                    | 1.66                      | 1.43 | 0.36 | 1.86 | 1.93 | 1.87 | 0.41 | 2.76  | 2.29 | 2.29 | 0.49 | 4.39  | 2.71 | 2.71 | 0.58 | 6.51  | 3.13 | 3.13 | 0.67 | 8.40  |  |
|          |    | 19                    | -                         | -    | -    | -    | 2.76 | 1.81 | 0.59 | 6.76  | 2.80 | 2.23 | 0.60 | 6.92  | 2.96 | 2.68 | 0.63 | 7.63  | 3.20 | 3.12 | 0.69 | 8.74  |  |
|          |    | 20                    | -                         | -    | -    | -    | 3.54 | 1.85 | 0.76 | 10.35 | 3.52 | 2.26 | 0.75 | 10.23 | 3.50 | 2.67 | 0.75 | 10.15 | 3.58 | 3.09 | 0.77 | 10.53 |  |
|          | 5  | 15                    | 1.32                      | 1.32 | 0.23 | 1.03 | 1.75 | 1.75 | 0.30 | 1.39  | 2.16 | 2.16 | 0.37 | 2.09  | 2.55 | 2.55 | 0.44 | 3.29  | 2.95 | 2.95 | 0.51 | 4.83  |  |
|          |    | 17                    | 1.39                      | 1.28 | 0.24 | 1.09 | 1.76 | 1.75 | 0.30 | 1.40  | 2.16 | 2.16 | 0.37 | 2.10  | 2.55 | 2.55 | 0.44 | 3.30  | 2.96 | 2.96 | 0.51 | 4.85  |  |
|          |    | 19                    | -                         | -    | -    | -    | 2.28 | 1.63 | 0.39 | 2.44  | 2.44 | 2.07 | 0.42 | 2.91  | 2.67 | 2.52 | 0.46 | 3.73  | 2.98 | 2.95 | 0.51 | 4.94  |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.91 | 1.61 | 0.50 | 4.67  | 2.90 | 2.03 | 0.50 | 4.64  | 3.01 | 2.47 | 0.52 | 5.07  | 3.20 | 2.91 | 0.55 | 5.85  |  |
|          | 6  | 15                    | 1.14                      | 1.14 | 0.16 | 0.73 | 1.58 | 1.58 | 0.23 | 1.02  | 2.01 | 2.01 | 0.29 | 1.30  | 2.42 | 2.42 | 0.35 | 1.78  | 2.81 | 2.81 | 0.40 | 2.63  |  |
|          |    | 17                    | 1.16                      | 1.12 | 0.17 | 0.74 | 1.58 | 1.58 | 0.23 | 1.02  | 2.01 | 2.01 | 0.29 | 1.31  | 2.42 | 2.42 | 0.35 | 1.79  | 2.82 | 2.82 | 0.40 | 2.64  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.91 | 1.47 | 0.27 | 1.22  | 2.19 | 1.94 | 0.31 | 1.46  | 2.49 | 2.40 | 0.36 | 1.91  | 2.82 | 2.82 | 0.40 | 2.66  |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.42 | 1.44 | 0.35 | 1.78  | 2.52 | 1.88 | 0.36 | 1.97  | 2.71 | 2.32 | 0.39 | 2.39  | 2.95 | 2.77 | 0.42 | 3.01  |  |
| 13       | 3  | 15                    | 1.23                      | 1.23 | 0.35 | 1.84 | 1.63 | 1.63 | 0.47 | 3.97  | 2.05 | 2.05 | 0.59 | 6.67  | 2.47 | 2.47 | 0.71 | 9.16  | 2.89 | 2.89 | 0.83 | 11.90 |  |
|          |    | 17                    | 1.25                      | 1.22 | 0.36 | 1.92 | 1.63 | 1.63 | 0.47 | 3.99  | 2.05 | 2.05 | 0.59 | 6.69  | 2.48 | 2.48 | 0.71 | 9.18  | 2.89 | 2.89 | 0.83 | 11.94 |  |
|          |    | 19                    | -                         | -    | -    | -    | 2.16 | 1.59 | 0.62 | 7.28  | 2.29 | 2.03 | 0.66 | 8.03  | 2.53 | 2.47 | 0.73 | 9.49  | 2.89 | 2.89 | 0.83 | 11.96 |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.92 | 1.62 | 0.84 | 12.15 | 2.90 | 2.03 | 0.83 | 11.97 | 2.93 | 2.45 | 0.84 | 12.18 | 3.06 | 2.87 | 0.87 | 13.00 |  |
|          | 4  | 15                    | 1.06                      | 1.06 | 0.23 | 1.00 | 1.49 | 1.49 | 0.32 | 1.51  | 1.89 | 1.89 | 0.41 | 2.76  | 2.30 | 2.30 | 0.49 | 4.61  | 2.71 | 2.71 | 0.58 | 6.49  |  |
|          |    | 17                    | 1.06                      | 1.06 | 0.23 | 1.00 | 1.49 | 1.49 | 0.32 | 1.51  | 1.89 | 1.89 | 0.41 | 2.77  | 2.30 | 2.30 | 0.50 | 4.63  | 2.72 | 2.72 | 0.58 | 6.50  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.74 | 1.41 | 0.37 | 2.19  | 1.98 | 1.86 | 0.43 | 3.13  | 2.31 | 2.30 | 0.50 | 4.66  | 2.72 | 2.72 | 0.58 | 6.52  |  |
|          |    | 20                    | -                         | -    | -    | -    | 2.25 | 1.38 | 0.48 | 4.39  | 2.32 | 1.81 | 0.50 | 4.72  | 2.51 | 2.26 | 0.54 | 5.58  | 2.79 | 2.71 | 0.60 | 6.79  |  |
|          | 5  | 15                    | 0.88                      | 0.88 | 0.15 | 0.65 | 1.32 | 1.32 | 0.23 | 0.98  | 1.75 | 1.75 | 0.30 | 1.34  | 2.15 | 2.15 | 0.37 | 2.14  | 2.55 | 2.55 | 0.44 | 3.37  |  |
|          |    | 17                    | 0.88                      | 0.88 | 0.15 | 0.65 | 1.33 | 1.33 | 0.23 | 0.98  | 1.75 | 1.75 | 0.30 | 1.34  | 2.16 | 2.16 | 0.37 | 2.14  | 2.55 | 2.55 | 0.44 | 3.39  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.44 | 1.27 | 0.25 | 1.06  | 1.79 | 1.74 | 0.31 | 1.39  | 2.16 | 2.16 | 0.37 | 2.15  | 2.56 | 2.56 | 0.44 | 3.40  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.78 | 1.21 | 0.30 | 1.36  | 2.00 | 1.67 | 0.34 | 1.75  | 2.26 | 2.12 | 0.39 | 2.43  | 2.57 | 2.55 | 0.44 | 3.46  |  |
|          | 6  | 15                    | 0.67                      | 0.67 | 0.10 | 0.40 | 1.14 | 1.14 | 0.16 | 0.69  | 1.59 | 1.59 | 0.23 | 0.97  | 2.01 | 2.01 | 0.29 | 1.25  | 2.42 | 2.42 | 0.35 | 1.81  |  |
|          |    | 17                    | 0.67                      | 0.67 | 0.10 | 0.40 | 1.15 | 1.15 | 0.16 | 0.70  | 1.59 | 1.59 | 0.23 | 0.97  | 2.02 | 2.02 | 0.29 | 1.26  | 2.42 | 2.42 | 0.35 | 1.82  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.18 | 1.12 | 0.17 | 0.72  | 1.60 | 1.59 | 0.23 | 0.97  | 2.02 | 2.02 | 0.29 | 1.26  | 2.43 | 2.43 | 0.35 | 1.82  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.35 | 1.04 | 0.19 | 0.81  | 1.71 | 1.53 | 0.24 | 1.04  | 2.07 | 2.00 | 0.30 | 1.30  | 2.43 | 2.43 | 0.35 | 1.83  |  |
| 15       | 3  | 15                    | 0.80                      | 0.80 | 0.23 | 0.96 | 1.22 | 1.22 | 0.35 | 1.86  | 1.63 | 1.63 | 0.46 | 4.02  | 2.05 | 2.05 | 0.59 | 6.50  | 2.47 | 2.47 | 0.71 | 8.90  |  |
|          |    | 17                    | 0.80                      | 0.80 | 0.23 | 0.96 | 1.22 | 1.22 | 0.35 | 1.86  | 1.63 | 1.63 | 0.46 | 4.04  | 2.06 | 2.06 | 0.59 | 6.52  | 2.48 | 2.48 | 0.71 | 8.93  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.27 | 1.21 | 0.36 | 2.05  | 1.63 | 1.62 | 0.46 | 4.03  | 2.06 | 2.06 | 0.59 | 6.53  | 2.48 | 2.48 | 0.71 | 8.95  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.57 | 1.14 | 0.45 | 3.70  | 1.78 | 1.60 | 0.51 | 4.97  | 2.08 | 2.06 | 0.59 | 6.66  | 2.48 | 2.48 | 0.71 | 8.96  |  |
|          | 4  | 15                    | 0.61                      | 0.61 | 0.13 | 0.54 | 1.07 | 1.07 | 0.23 | 0.95  | 1.49 | 1.49 | 0.32 | 1.50  | 1.89 | 1.89 | 0.40 | 2.82  | 2.30 | 2.30 | 0.49 | 4.65  |  |
|          |    | 17                    | 0.61                      | 0.61 | 0.13 | 0.54 | 1.07 | 1.07 | 0.23 | 0.95  | 1.49 | 1.49 | 0.32 | 1.51  | 1.89 | 1.89 | 0.41 | 2.83  | 2.30 | 2.30 | 0.49 | 4.67  |  |
|          |    | 19                    | -                         | -    | -    | -    | 1.07 | 1.06 | 0.23 | 0.95  | 1.50 | 1.49 | 0.32 | 1.51  | 1.89 | 1.89 | 0.41 | 2.84  | 2.30 | 2.30 | 0.49 | 4.69  |  |
|          |    | 20                    | -                         | -    | -    | -    | 1.22 | 1.00 | 0.26 | 1.09  | 1.55 | 1.47 | 0.33 | 1.65  | 1.89 | 1.89 | 0.41 | 2.84  | 2.31 | 2.31 | 0.49 | 4.70  |  |
|          | 5  | 15                    | 0.39                      | 0.39 | 0.07 | 0.27 | 0.89 | 0.89 | 0.15 | 0.63  | 1.33 | 1.33 | 0.23 | 0.94  | 1.76 | 1.76 | 0.30 | 1.35  | 2.16 | 2.16 | 0.37 | 2.25  |  |
|          |    | 17                    | 0.39                      | 0.39 | 0.07 | 0.27 | 0.89 | 0.89 | 0.15 | 0.63  | 1.34 | 1.34 | 0.23 | 0.94  | 1.76 | 1.76 | 0.30 | 1.35  | 2.16 | 2.16 | 0.37 | 2.26  |  |
|          |    | 19                    | -                         | -    | -    | -    | 0.89 | 0.88 | 0.15 | 0.63  | 1.34 | 1.34 | 0.23 | 0.95  | 1.76 | 1.76 | 0.30 | 1.35  | 2.16 | 2.16 | 0.37 | 2.27  |  |
|          |    | 20                    | -                         | -    | -    | -    | 0.94 | 0.85 | 0.16 | 0.66  | 1.35 | 1.33 | 0.23 | 0.95  | 1.76 | 1.76 | 0.30 | 1.35  | 2.16 | 2.16 | 0.37 | 2.27  |  |
|          | 6  | 15                    | -                         | -    | -    | -    | 0.68 | 0.68 | 0.10 | 0.39  | 1.16 | 1.16 | 0.17 | 0.67  | 1.60 | 1.60 | 0.23 | 0.93  | 2.02 | 2.02 | 0.29 | 1.24  |  |
|          |    | 17                    | -                         | -    | -    | -    | 0.68 | 0.68 | 0.10 | 0.39  | 1.16 | 1.16 | 0.17 | 0.67  | 1.60 | 1.60 | 0.23 | 0.93  | 2.03 | 2.03 | 0.29 | 1.24  |  |
|          |    | 19                    | -                         | -    | -    | -    | 0.68 | 0.68 | 0.10 | 0.39  | 1.16 | 1.16 | 0.17 | 0.67  | 1.60 | 1.60 | 0.23 | 0.93  | 2.03 | 2.03 | 0.29 | 1.25  |  |
|          |    | 20                    | -                         | -    | -    | -    | 0.69 | 0.68 | 0.10 | 0.39  | 1.16 | 1.16 | 0.17 | 0.67  | 1.60 | 1.60 | 0.23 | 0.93  | 2.03 | 2.03 | 0.29 | 1.25  |  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

**Heating Capacity Table:**

| MKD-V300           |                    |                           |                   |       |      |                   |       |      |                   |       |      |                   |       |
|--------------------|--------------------|---------------------------|-------------------|-------|------|-------------------|-------|------|-------------------|-------|------|-------------------|-------|
| EWT                | $\Delta T$         | Indoor temperature (W.B.) |                   |       |      |                   |       |      |                   |       |      |                   |       |
|                    |                    | 16                        |                   |       | 18   |                   |       | 20   |                   |       | 22   |                   |       |
|                    |                    | TH                        | WF                | WPD   | TH   | WF                | WPD   | TH   | WF                | WPD   | TH   | WF                | WPD   |
| $^{\circ}\text{C}$ | $^{\circ}\text{C}$ | kW                        | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa   |
| 40                 | 8                  | 2.15                      | 0.23              | 4.28  | 1.89 | 0.20              | 3.43  | 1.63 | 0.18              | 2.52  | 1.39 | 0.15              | 1.66  |
|                    | 10                 | 1.92                      | 0.17              | 2.13  | 1.68 | 0.15              | 1.50  | 1.45 | 0.13              | 1.01  | 1.21 | 0.10              | 0.73  |
|                    | 12                 | 1.75                      | 0.13              | 1.02  | 1.50 | 0.11              | 0.78  | 1.25 | 0.09              | 0.64  | 0.99 | 0.07              | 0.51  |
|                    | 14                 | 1.53                      | 0.09              | 0.69  | 1.27 | 0.08              | 0.57  | 1.01 | 0.06              | 0.46  | 0.73 | 0.05              | 0.33  |
|                    | 16                 | 1.30                      | 0.07              | 0.53  | 1.03 | 0.06              | 0.42  | 0.75 | 0.04              | 0.31  | 0.44 | 0.02              | 0.18  |
| 45                 | 8                  | 2.80                      | 0.30              | 6.53  | 2.55 | 0.27              | 5.56  | 2.29 | 0.25              | 4.66  | 2.04 | 0.22              | 3.82  |
|                    | 10                 | 2.59                      | 0.22              | 3.93  | 2.33 | 0.20              | 3.29  | 2.07 | 0.18              | 2.64  | 1.81 | 0.16              | 1.95  |
|                    | 12                 | 2.36                      | 0.17              | 2.35  | 2.11 | 0.15              | 1.78  | 1.87 | 0.13              | 1.29  | 1.64 | 0.12              | 0.91  |
|                    | 14                 | 2.17                      | 0.13              | 1.24  | 1.93 | 0.12              | 0.92  | 1.69 | 0.10              | 0.71  | 1.43 | 0.09              | 0.58  |
|                    | 16                 | 1.98                      | 0.11              | 0.75  | 1.73 | 0.09              | 0.63  | 1.47 | 0.08              | 0.54  | 1.20 | 0.06              | 0.44  |
| 50                 | 8                  | 3.44                      | 0.37              | 9.07  | 3.18 | 0.34              | 7.96  | 2.93 | 0.32              | 6.92  | 2.68 | 0.29              | 5.94  |
|                    | 10                 | 3.25                      | 0.28              | 5.66  | 2.99 | 0.26              | 4.93  | 2.74 | 0.24              | 4.24  | 2.48 | 0.21              | 3.59  |
|                    | 12                 | 3.03                      | 0.22              | 3.71  | 2.78 | 0.20              | 3.19  | 2.51 | 0.18              | 2.69  | 2.25 | 0.16              | 2.17  |
|                    | 14                 | 2.80                      | 0.17              | 2.47  | 2.54 | 0.16              | 2.00  | 2.30 | 0.14              | 1.55  | 2.06 | 0.13              | 1.15  |
|                    | 16                 | 2.59                      | 0.14              | 1.49  | 2.36 | 0.13              | 1.14  | 2.12 | 0.11              | 0.87  | 1.88 | 0.10              | 0.67  |
| 55                 | 8                  | 4.07                      | 0.44              | 11.87 | 3.82 | 0.41              | 10.63 | 3.57 | 0.38              | 9.46  | 3.32 | 0.36              | 8.34  |
|                    | 10                 | 3.89                      | 0.34              | 7.54  | 3.64 | 0.31              | 6.72  | 3.38 | 0.29              | 5.94  | 3.13 | 0.27              | 5.20  |
|                    | 12                 | 3.69                      | 0.27              | 5.06  | 3.44 | 0.25              | 4.48  | 3.19 | 0.23              | 3.93  | 2.93 | 0.21              | 3.41  |
|                    | 14                 | 3.49                      | 0.22              | 3.56  | 3.23 | 0.20              | 3.13  | 2.97 | 0.18              | 2.71  | 2.71 | 0.17              | 2.30  |
|                    | 16                 | 3.26                      | 0.18              | 2.53  | 3.00 | 0.16              | 2.16  | 2.74 | 0.15              | 1.78  | 2.49 | 0.13              | 1.40  |
| 60                 | 8                  | 4.70                      | 0.51              | 15.02 | 4.45 | 0.48              | 13.57 | 4.20 | 0.45              | 12.27 | 3.94 | 0.43              | 11.03 |
|                    | 10                 | 4.53                      | 0.39              | 9.55  | 4.27 | 0.37              | 8.65  | 4.02 | 0.35              | 7.79  | 3.77 | 0.32              | 6.97  |
|                    | 12                 | 4.35                      | 0.31              | 6.55  | 4.09 | 0.29              | 5.91  | 3.84 | 0.28              | 5.30  | 3.59 | 0.26              | 4.71  |
|                    | 14                 | 4.15                      | 0.26              | 4.67  | 3.90 | 0.24              | 4.18  | 3.64 | 0.22              | 3.73  | 3.38 | 0.21              | 3.29  |
|                    | 16                 | 3.95                      | 0.21              | 3.44  | 3.69 | 0.20              | 3.05  | 3.43 | 0.18              | 2.70  | 3.17 | 0.17              | 2.36  |

Abbreviations:

**$\Delta t$ :** Temperature Difference ( $^{\circ}\text{C}$ )      **TH:** Total Heating Capacity (kW)      **WF:** Water Flow (m<sup>3</sup>/h)      **WPD:** Water Pressure Drop (kPa)

# Midea Fan Coil Unit



## Heating Capacity

| MKD-V400           |                    |                           |                   |       |      |                   |       |      |                   |       |      |                   |      |
|--------------------|--------------------|---------------------------|-------------------|-------|------|-------------------|-------|------|-------------------|-------|------|-------------------|------|
| EWT                | $\Delta T$         | Indoor temperature (W.B.) |                   |       |      |                   |       |      |                   |       |      |                   |      |
|                    |                    | 16                        |                   |       | 18   |                   |       | 20   |                   |       | 22   |                   |      |
|                    |                    | TH                        | WF                | WPD   | TH   | WF                | WPD   | TH   | WF                | WPD   | TH   | WF                | WPD  |
| $^{\circ}\text{C}$ | $^{\circ}\text{C}$ | kW                        | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa  |
| 40                 | 8                  | 3.59                      | 0.39              | 3.85  | 3.20 | 0.34              | 3.17  | 2.80 | 0.30              | 2.52  | 2.41 | 0.26              | 1.82 |
|                    | 10                 | 3.32                      | 0.29              | 2.26  | 2.92 | 0.25              | 1.67  | 2.54 | 0.22              | 1.15  | 2.17 | 0.19              | 0.76 |
|                    | 12                 | 3.07                      | 0.22              | 1.15  | 2.69 | 0.19              | 0.81  | 2.29 | 0.17              | 0.60  | 1.87 | 0.14              | 0.48 |
|                    | 14                 | 2.81                      | 0.17              | 0.65  | 2.39 | 0.15              | 0.54  | 1.96 | 0.12              | 0.44  | 1.50 | 0.09              | 0.34 |
|                    | 16                 | 2.49                      | 0.13              | 0.50  | 2.05 | 0.11              | 0.42  | 1.57 | 0.08              | 0.32  | 1.03 | 0.06              | 0.21 |
| 45                 | 8                  | 4.56                      | 0.49              | 5.63  | 4.17 | 0.45              | 4.84  | 3.79 | 0.41              | 4.10  | 3.40 | 0.37              | 3.42 |
|                    | 10                 | 4.33                      | 0.37              | 3.55  | 3.93 | 0.34              | 3.01  | 3.54 | 0.31              | 2.52  | 3.13 | 0.27              | 2.03 |
|                    | 12                 | 4.07                      | 0.29              | 2.35  | 3.66 | 0.26              | 1.91  | 3.26 | 0.24              | 1.45  | 2.88 | 0.21              | 1.04 |
|                    | 14                 | 3.79                      | 0.23              | 1.41  | 3.40 | 0.21              | 1.06  | 3.02 | 0.19              | 0.77  | 2.63 | 0.16              | 0.56 |
|                    | 16                 | 3.54                      | 0.19              | 0.82  | 3.15 | 0.17              | 0.62  | 2.74 | 0.15              | 0.50  | 2.31 | 0.12              | 0.42 |
| 50                 | 8                  | 5.51                      | 0.59              | 7.61  | 5.12 | 0.55              | 6.72  | 4.74 | 0.51              | 5.87  | 4.36 | 0.47              | 5.08 |
|                    | 10                 | 5.31                      | 0.46              | 4.91  | 4.92 | 0.43              | 4.31  | 4.53 | 0.39              | 3.74  | 4.14 | 0.36              | 3.21 |
|                    | 12                 | 5.08                      | 0.36              | 3.34  | 4.68 | 0.34              | 2.91  | 4.28 | 0.31              | 2.50  | 3.88 | 0.28              | 2.12 |
|                    | 14                 | 4.82                      | 0.30              | 2.37  | 4.41 | 0.27              | 2.02  | 4.00 | 0.25              | 1.67  | 3.60 | 0.22              | 1.31 |
|                    | 16                 | 4.53                      | 0.24              | 1.64  | 4.13 | 0.22              | 1.31  | 3.74 | 0.20              | 1.01  | 3.35 | 0.18              | 0.75 |
| 55                 | 8                  | 6.46                      | 0.70              | 9.80  | 6.07 | 0.65              | 8.80  | 5.68 | 0.61              | 7.85  | 5.30 | 0.57              | 6.96 |
|                    | 10                 | 6.27                      | 0.54              | 6.38  | 5.88 | 0.51              | 5.71  | 5.49 | 0.47              | 5.08  | 5.10 | 0.44              | 4.48 |
|                    | 12                 | 6.06                      | 0.44              | 4.41  | 5.66 | 0.41              | 3.93  | 5.27 | 0.38              | 3.47  | 4.88 | 0.35              | 3.04 |
|                    | 14                 | 5.83                      | 0.36              | 3.20  | 5.43 | 0.34              | 2.84  | 5.03 | 0.31              | 2.49  | 4.63 | 0.29              | 2.16 |
|                    | 16                 | 5.58                      | 0.30              | 2.37  | 5.17 | 0.28              | 2.08  | 4.76 | 0.26              | 1.80  | 4.35 | 0.23              | 1.51 |
| 60                 | 8                  | 7.40                      | 0.80              | 12.17 | 7.01 | 0.75              | 11.07 | 6.62 | 0.71              | 10.07 | 6.23 | 0.67              | 9.08 |
|                    | 10                 | 7.22                      | 0.62              | 7.95  | 6.82 | 0.59              | 7.21  | 6.44 | 0.55              | 6.52  | 6.05 | 0.52              | 5.86 |
|                    | 12                 | 7.03                      | 0.51              | 5.58  | 6.63 | 0.48              | 5.05  | 6.24 | 0.45              | 4.55  | 5.85 | 0.42              | 4.07 |
|                    | 14                 | 6.82                      | 0.42              | 4.07  | 6.42 | 0.40              | 3.67  | 6.02 | 0.37              | 3.29  | 5.63 | 0.35              | 2.93 |
|                    | 16                 | 6.59                      | 0.36              | 3.07  | 6.19 | 0.33              | 2.76  | 5.79 | 0.31              | 2.46  | 5.38 | 0.29              | 2.18 |

Abbreviations:

**$\Delta t$ :** Temperature Difference ( $^{\circ}\text{C}$ )

**TH:** Total Heating Capacity (kW)

**WF:** Water Flow (m<sup>3</sup>/h)

**WPD:** Water Pressure Drop (kPa)

## Heating Capacity

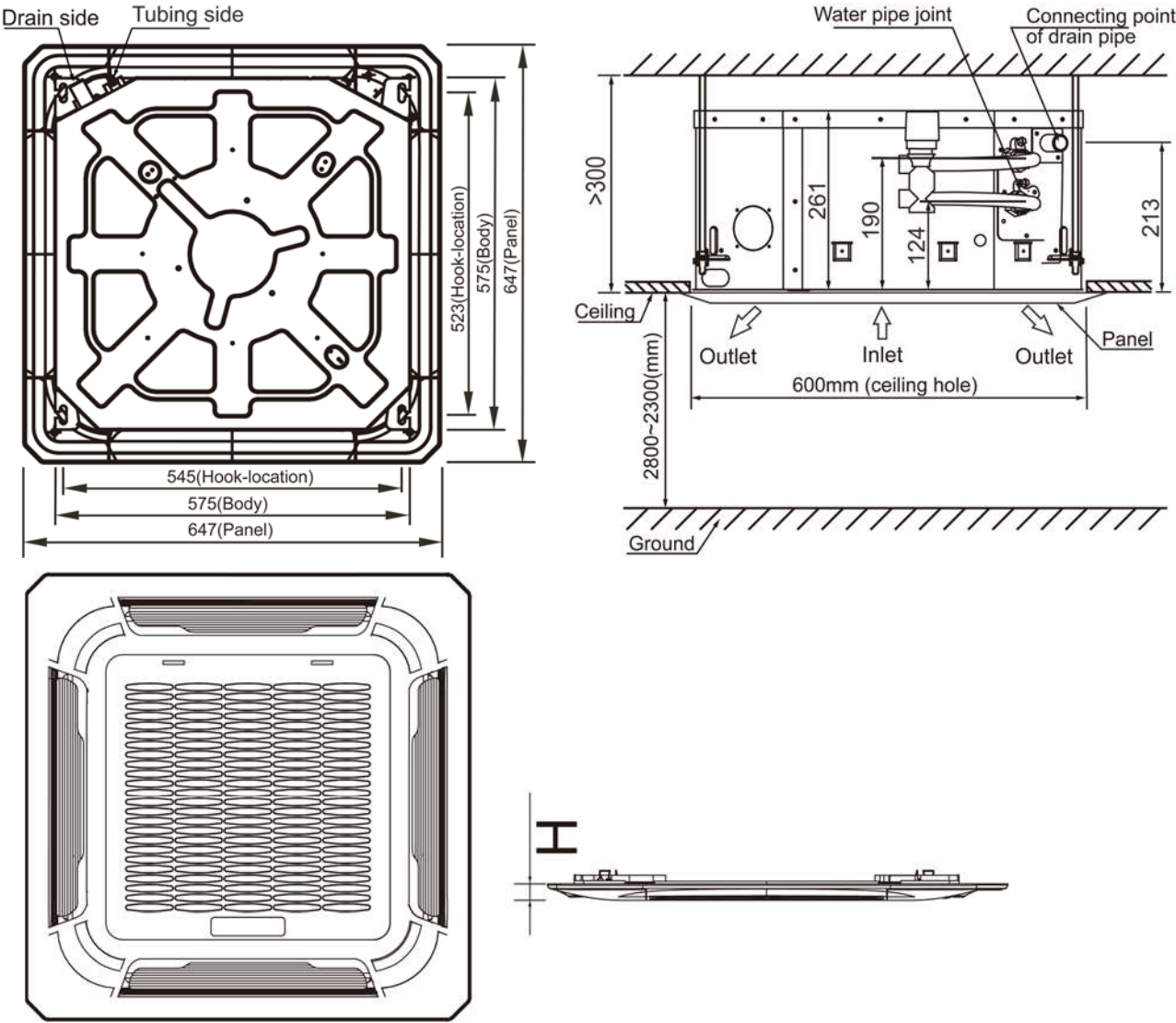
| MKD-V500           |                    |                           |                   |       |      |                   |       |      |                   |       |      |                   |      |
|--------------------|--------------------|---------------------------|-------------------|-------|------|-------------------|-------|------|-------------------|-------|------|-------------------|------|
| EWT                | $\Delta T$         | Indoor temperature (W.B.) |                   |       |      |                   |       |      |                   |       |      |                   |      |
|                    |                    | 16                        |                   |       | 18   |                   |       | 20   |                   |       | 22   |                   |      |
|                    |                    | TH                        | WF                | WPD   | TH   | WF                | WPD   | TH   | WF                | WPD   | TH   | WF                | WPD  |
| $^{\circ}\text{C}$ | $^{\circ}\text{C}$ | kW                        | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa   | kW   | m <sup>3</sup> /h | kPa  |
| 40                 | 8                  | 4.25                      | 0.46              | 3.77  | 3.78 | 0.41              | 3.08  | 3.30 | 0.36              | 2.44  | 2.81 | 0.30              | 1.74 |
|                    | 10                 | 3.89                      | 0.34              | 2.18  | 3.42 | 0.29              | 1.60  | 2.96 | 0.26              | 1.09  | 2.52 | 0.22              | 0.71 |
|                    | 12                 | 3.57                      | 0.26              | 1.09  | 3.12 | 0.22              | 0.76  | 2.64 | 0.19              | 0.56  | 2.14 | 0.15              | 0.45 |
|                    | 14                 | 3.24                      | 0.20              | 0.61  | 2.75 | 0.17              | 0.50  | 2.23 | 0.14              | 0.41  | 1.68 | 0.10              | 0.31 |
|                    | 16                 | 2.84                      | 0.15              | 0.47  | 2.32 | 0.13              | 0.38  | 1.75 | 0.09              | 0.29  | 1.12 | 0.06              | 0.19 |
| 45                 | 8                  | 5.43                      | 0.59              | 5.56  | 4.96 | 0.54              | 4.77  | 4.49 | 0.48              | 4.03  | 4.03 | 0.43              | 3.34 |
|                    | 10                 | 5.13                      | 0.44              | 3.46  | 4.65 | 0.40              | 2.93  | 4.16 | 0.36              | 2.44  | 3.68 | 0.32              | 1.95 |
|                    | 12                 | 4.78                      | 0.34              | 2.27  | 4.29 | 0.31              | 1.83  | 3.81 | 0.27              | 1.38  | 3.35 | 0.24              | 0.98 |
|                    | 14                 | 4.41                      | 0.27              | 1.34  | 3.95 | 0.24              | 0.99  | 3.50 | 0.22              | 0.72  | 3.03 | 0.19              | 0.53 |
|                    | 16                 | 4.11                      | 0.22              | 0.76  | 3.64 | 0.20              | 0.58  | 3.14 | 0.17              | 0.47  | 2.63 | 0.14              | 0.39 |
| 50                 | 8                  | 6.59                      | 0.71              | 7.57  | 6.12 | 0.66              | 6.67  | 5.66 | 0.61              | 5.82  | 5.19 | 0.56              | 5.03 |
|                    | 10                 | 6.32                      | 0.55              | 4.84  | 5.85 | 0.51              | 4.24  | 5.37 | 0.46              | 3.67  | 4.90 | 0.42              | 3.14 |
|                    | 12                 | 6.01                      | 0.43              | 3.26  | 5.53 | 0.40              | 2.83  | 5.05 | 0.36              | 2.43  | 4.56 | 0.33              | 2.04 |
|                    | 14                 | 5.67                      | 0.35              | 2.29  | 5.17 | 0.32              | 1.95  | 4.68 | 0.29              | 1.60  | 4.20 | 0.26              | 1.24 |
|                    | 16                 | 5.30                      | 0.29              | 1.56  | 4.81 | 0.26              | 1.24  | 4.35 | 0.23              | 0.95  | 3.89 | 0.21              | 0.70 |
| 55                 | 8                  | 7.74                      | 0.83              | 9.79  | 7.27 | 0.78              | 8.79  | 6.81 | 0.73              | 7.83  | 6.34 | 0.68              | 6.93 |
|                    | 10                 | 7.49                      | 0.65              | 6.33  | 7.02 | 0.61              | 5.66  | 6.54 | 0.57              | 5.03  | 6.08 | 0.53              | 4.43 |
|                    | 12                 | 7.21                      | 0.52              | 4.34  | 6.73 | 0.48              | 3.86  | 6.25 | 0.45              | 3.41  | 5.78 | 0.42              | 2.98 |
|                    | 14                 | 6.91                      | 0.43              | 3.13  | 6.42 | 0.40              | 2.77  | 5.94 | 0.37              | 2.42  | 5.45 | 0.34              | 2.10 |
|                    | 16                 | 6.57                      | 0.35              | 2.30  | 6.08 | 0.33              | 2.01  | 5.58 | 0.30              | 1.73  | 5.08 | 0.27              | 1.45 |
| 60                 | 8                  | 8.89                      | 0.96              | 12.21 | 8.42 | 0.91              | 11.10 | 7.95 | 0.86              | 10.08 | 7.48 | 0.81              | 9.09 |
|                    | 10                 | 8.65                      | 0.75              | 7.93  | 8.17 | 0.70              | 7.19  | 7.70 | 0.66              | 6.49  | 7.23 | 0.62              | 5.82 |
|                    | 12                 | 8.34                      | 0.60              | 5.53  | 7.98 | 0.57              | 5.00  | 7.44 | 0.54              | 4.50  | 6.97 | 0.50              | 4.02 |
|                    | 14                 | 8.11                      | 0.50              | 4.01  | 7.63 | 0.47              | 3.61  | 7.15 | 0.44              | 3.23  | 6.67 | 0.41              | 2.87 |
|                    | 16                 | 7.81                      | 0.42              | 3.01  | 7.32 | 0.39              | 2.70  | 6.83 | 0.37              | 2.40  | 6.35 | 0.34              | 2.12 |

### Abbreviations:

**$\Delta t$ :** Temperature Difference ( $^{\circ}\text{C}$ )      **TH:** Total Heating Capacity (kW)      **WF:** Water Flow (m<sup>3</sup>/h)      **WPD:** Water Pressure Drop (kPa)



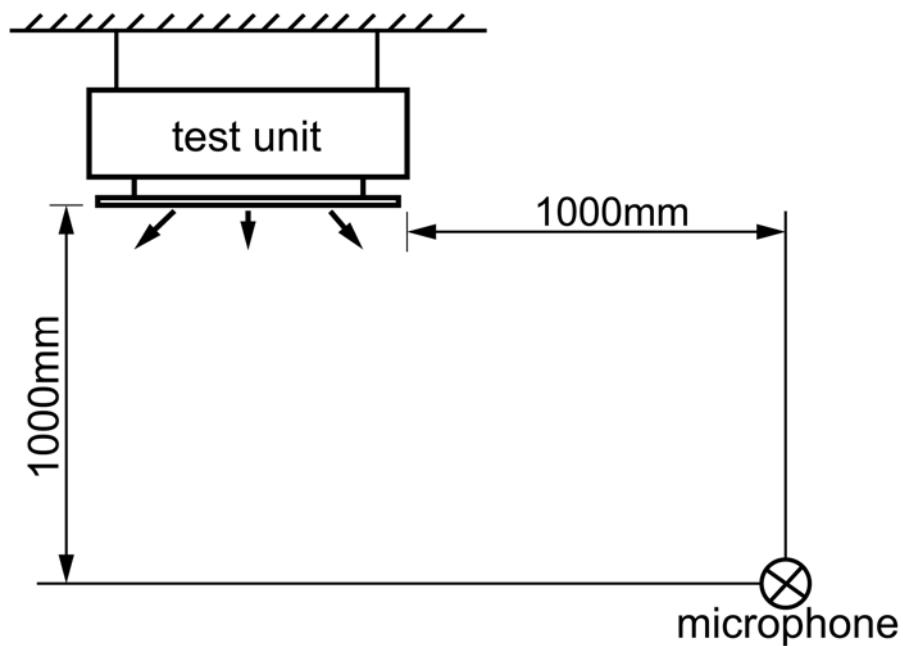
7. Dimension



|       |    |
|-------|----|
| H(mm) | 50 |
|-------|----|

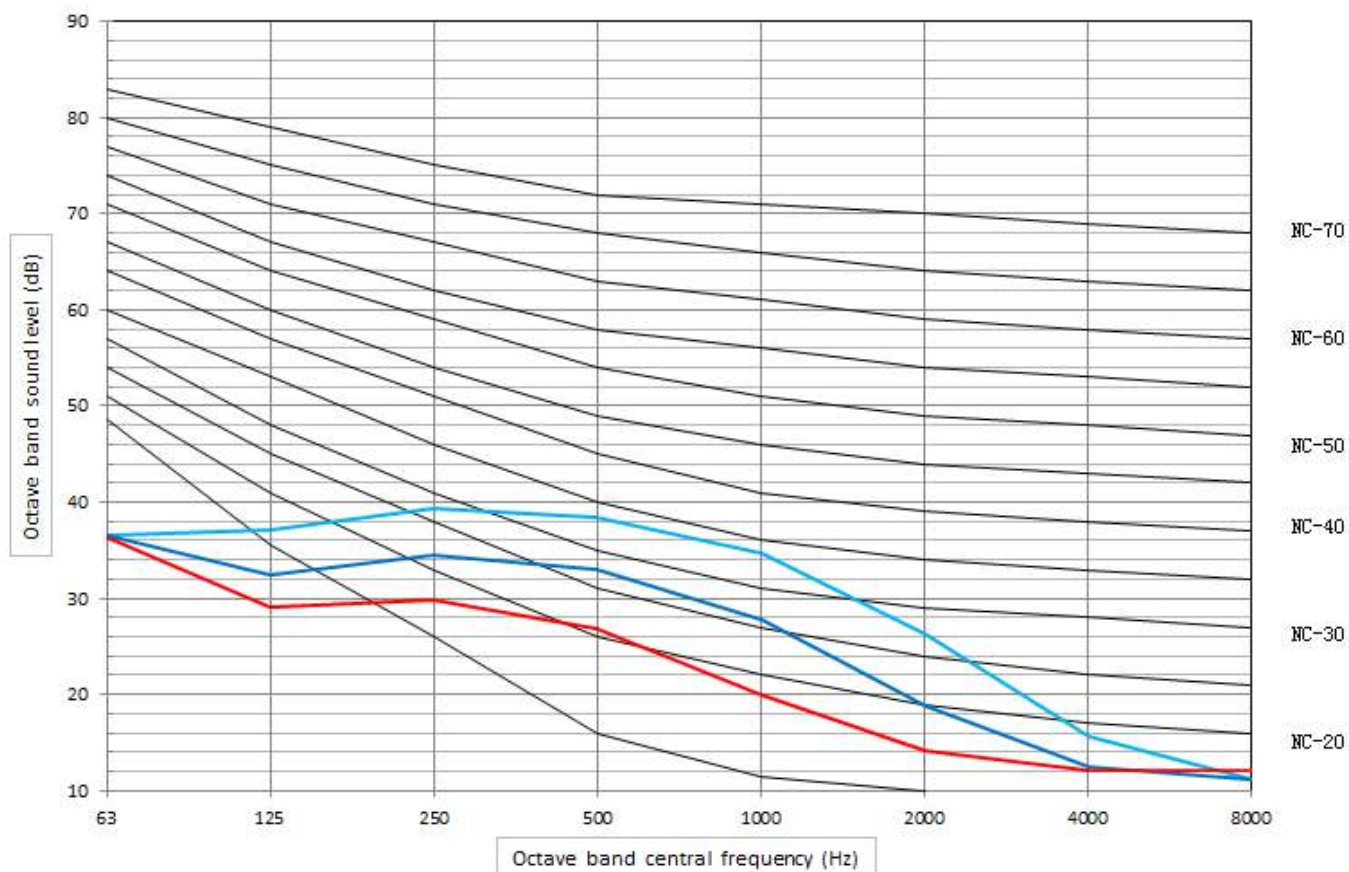


## 8. Sound Levels

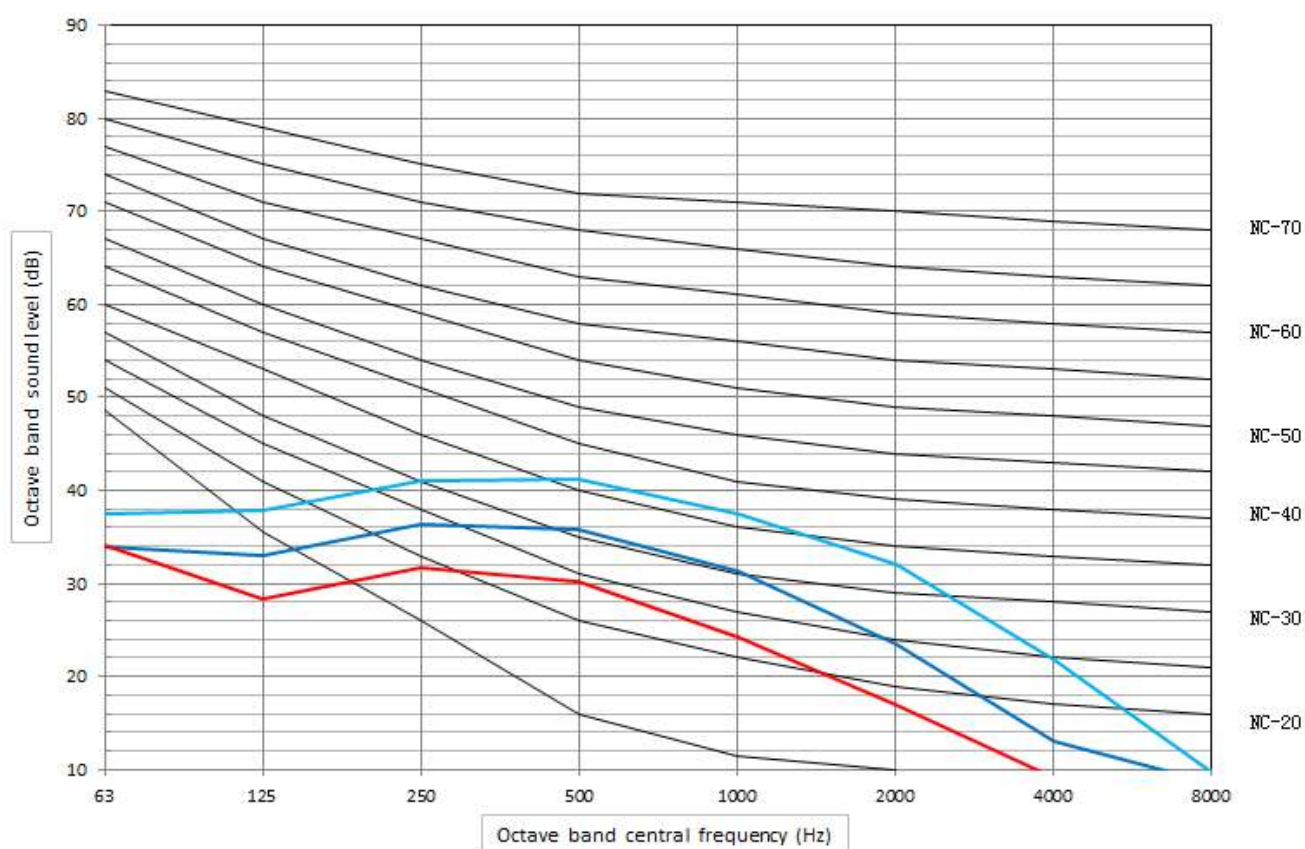


| Type          | 300      | 400      | 500      |
|---------------|----------|----------|----------|
| H/M/L [dB(A)] | 39/33/27 | 42/36/30 | 43/38/32 |

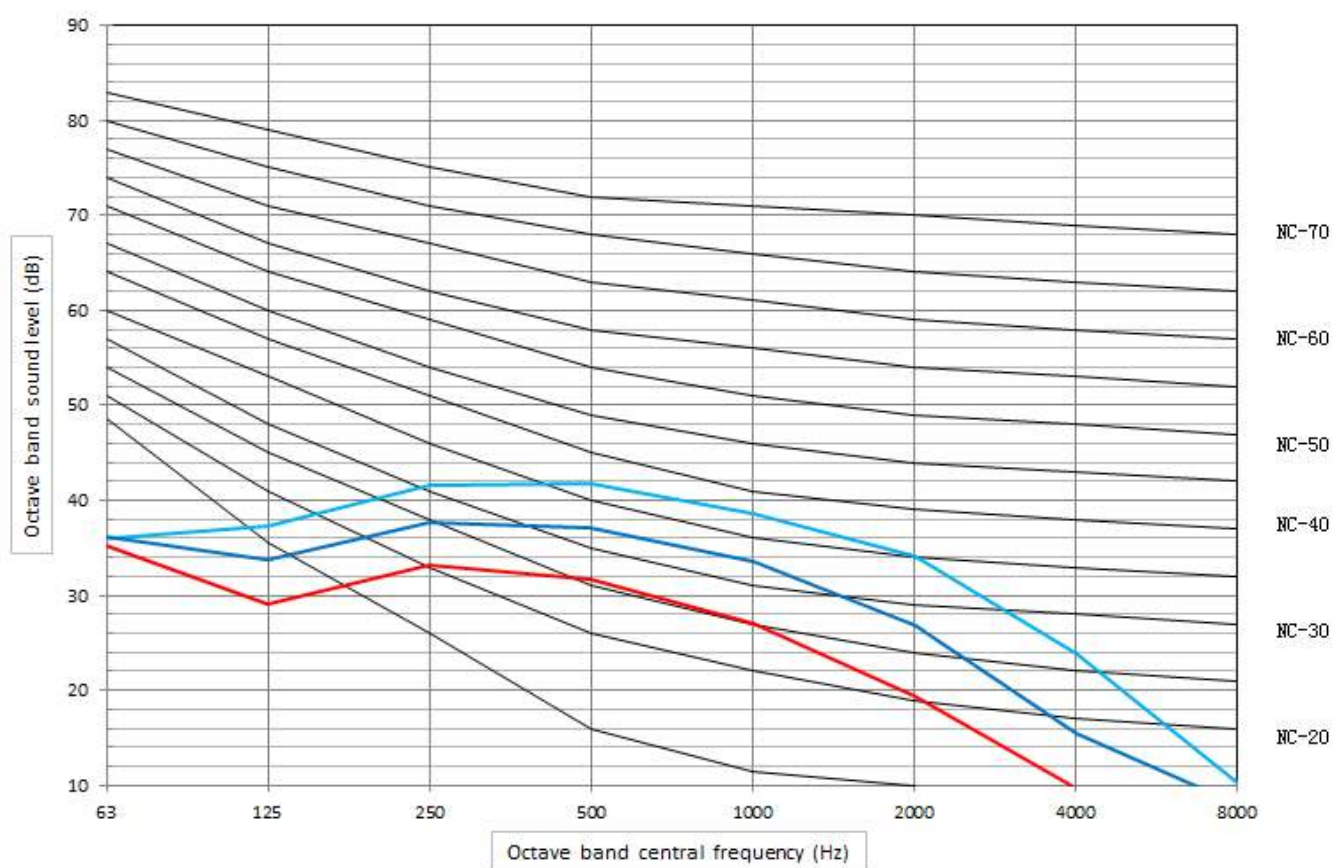
### MKD-V300



## MKD-V400



## MKD-V500



## 9. Temperature and Airflow Distributions

### 9.1 Simulate condition

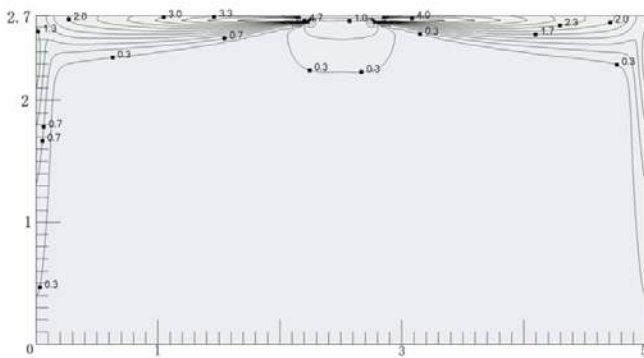
| Model name | Room size (m) | Ceiling height (m) | Flow angle (Cooling/Heating) | Placing |
|------------|---------------|--------------------|------------------------------|---------|
| MKD-V300   | 5*5           | 2.7                | 15° /50°                     | Center  |
| MKD-V400   | 6*6           | 2.7                | 15° /50°                     | Center  |
| MKD-V500   | 8*8           | 2.7                | 15° /50°                     | Center  |

Note:

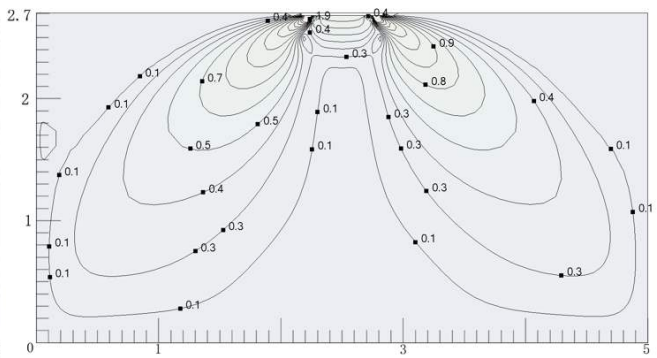
- These figures and videos are based on software simulation. They show typical temperature and airflow distributions in the conditions above. In the actual installation, they may differ from these figures and videos under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

### 9.2 Airflow distributions (unit: m/s)

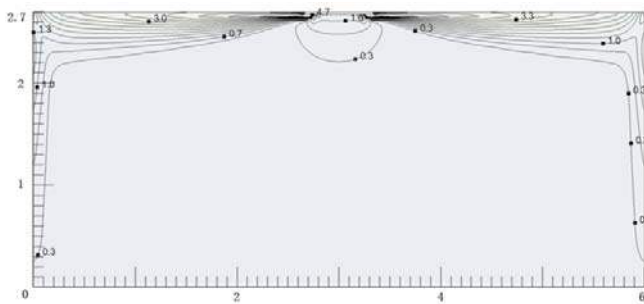
MKD-V300 cooling at 300S



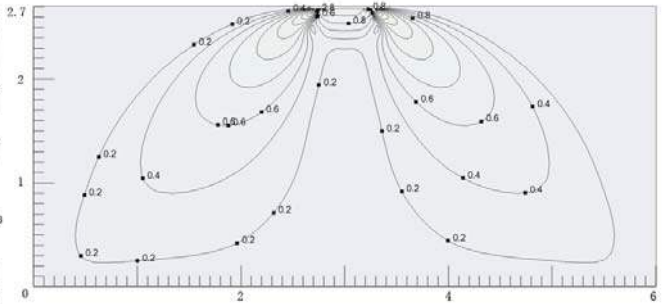
MKD-V300 heating at 300S



MKD-V400 cooling at 300S



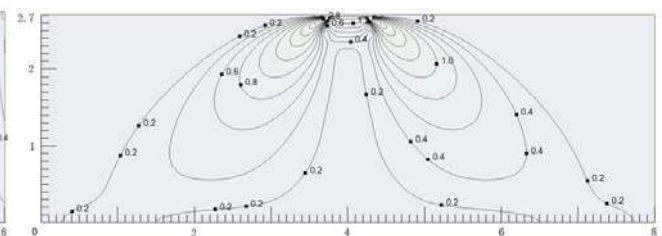
MKD-V400 heating at 300S



MKD-V500 cooling at 300S

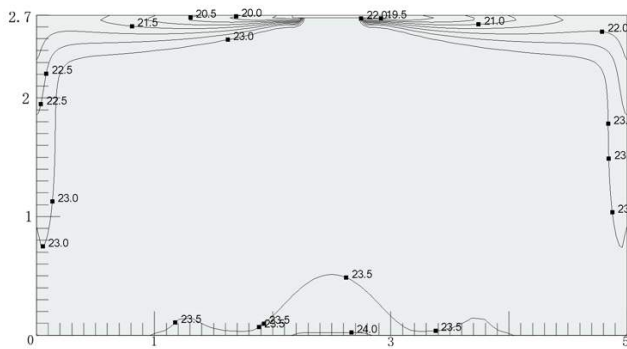


MKD-V500 heating at 300S

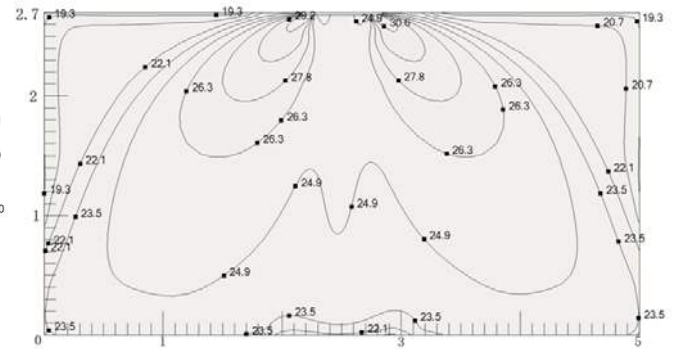


### 9.3 Temperature distributions (unit: °C)

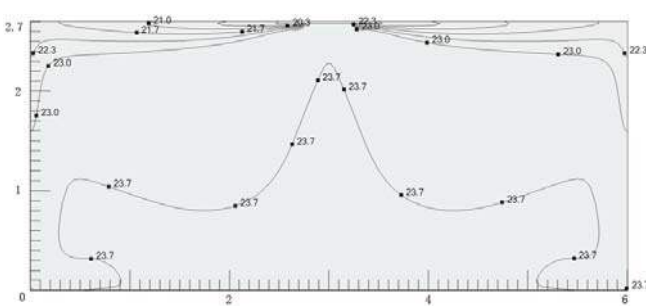
MKD-V300 cooling at 300S



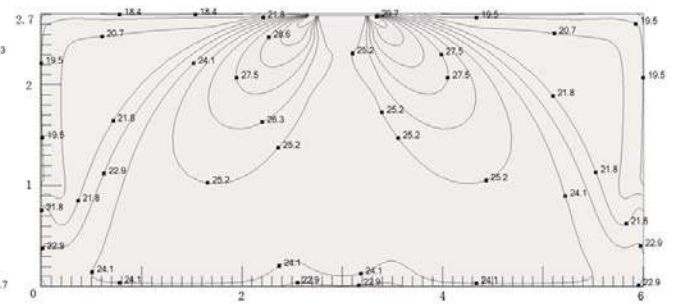
MKD-V300 heating at 300S



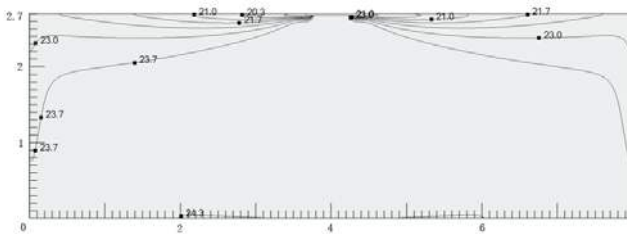
MKD-V400 cooling at 300S



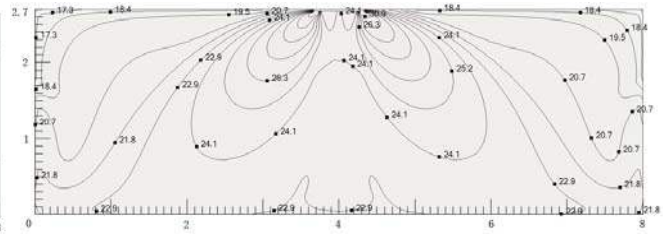
MKD-V400 heating at 300S



MKD-V500 cooling at 300S

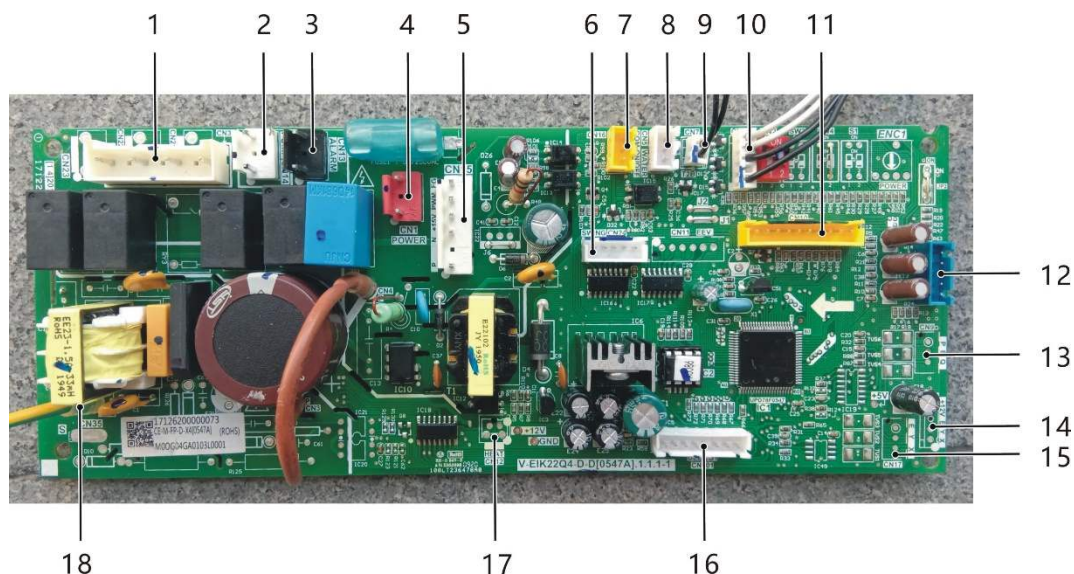


MKD-V500 heating at 300S





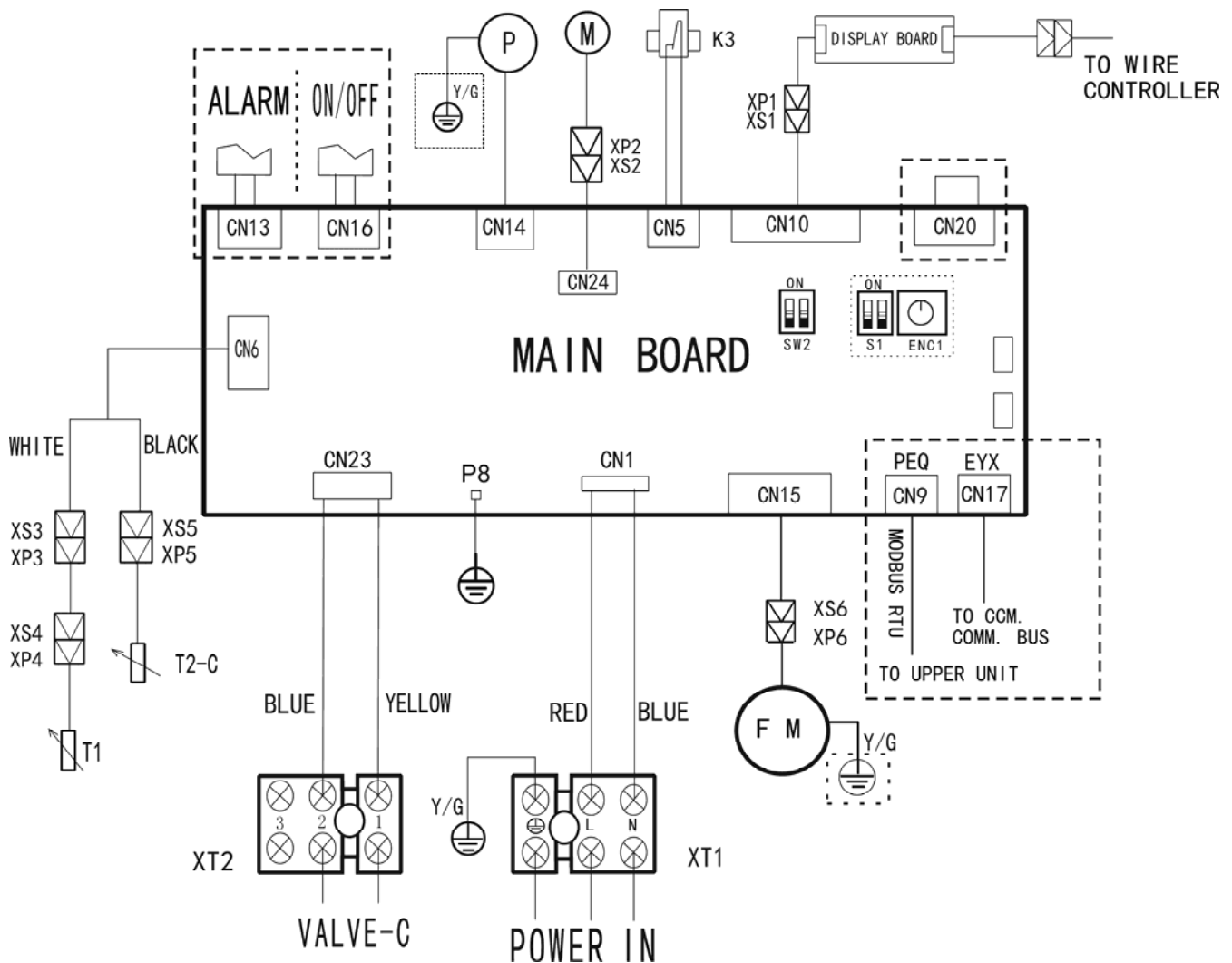
## 10. Main PCB ports



Main PCB port description:

| No. | Bit No. | Description                                             | Remarks        |
|-----|---------|---------------------------------------------------------|----------------|
| 1   | CN16    | L: Low fan speed output port                            |                |
|     |         | M: Medium fan speed output port                         |                |
|     |         | H: High fan speed output port for                       |                |
|     |         | N: Null line output port                                |                |
| 2   | CN14    | PUMP: Water pump output port                            |                |
| 3   | CN13    | ALARM: Fault alarm output                               |                |
| 4   | CN1     | POWER: Mains input                                      |                |
| 5   | CN15    | DC Fan                                                  |                |
| 6   | CN24    | SWING: Swing motor port                                 |                |
| 7   | CN16    | ON/OFF: Remote on/off port                              |                |
| 8   | CN5     | WATER: Water level switch port                          |                |
| 9   | CN7     | T2B: Heating pipe temperature sensor port               | Four pipe only |
| 10  | CN6     | T2: Refrigerating pipe temperature sensor port          |                |
|     |         | T1: Room temperature sensor port                        |                |
| 11  | CN10    | Display panel docking port (ten cores)                  |                |
| 12  | CN20    | External network module docking port                    |                |
| 13  | CN9     | PQE: Modbus communication port                          |                |
| 14  | CN40    | XYE: Centralized control communication port (four pin)  |                |
| 15  | CN17    | XYE: Centralized control communication port (three pin) |                |
| 16  | CN301   | DEBUG1: Main control program burn port                  |                |
| 17  | CN12    | HEAT: Control port for auxiliary electric heating relay |                |
| 18  | P8      | Grounding screw position                                |                |

## 11. Wiring Diagrams



| CODE          | PART NAME          |
|---------------|--------------------|
| XT1-2         | 3-WAY TERMINAL     |
| CN1-22, P1-8  | P.C. BOARD SOCKETS |
| SW2, S1, ENC1 | SWUTCH             |
| FM            | INDOOR FAN MOTOR   |
| K3            | WATER LEVEL SWITCH |
| M             | SWING MOTOR        |
| P             | PUMP               |
| T1            | ROOM TEMPERATURE   |
| T2-C          | PIPE TEMPERATURE   |
| XP1-6         | CONNECTORS         |
| XS1-6         | CONNECTORS         |

| MODEL  | DIP SW2                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------|
| 300CFM | ON<br><br>SW 2 |
| 400CFM | ON<br><br>SW 2 |
| 500CFM | ON<br><br>SW 2 |

- Notes:**
1. "0~F" of the ENC1 and "ON/OFF" of the S1 mean the addresses of different units, respectively.
  2. Alarm port, strong signal when alarm output.
  3. ON/OFF port, when closed, shut down; disconnect perform power-down memory function.

## 12. Troubleshooting

### Troubles and causes of air conditioner

If one of the following malfunctions occur, stop operation, shut off the power, and contact with your dealer.

- The operation lamp is flashing rapidly (five times per second),  
Disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash.
- Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the air conditioner.
- Water leaks from the indoor unit.
- Other malfunctions.

If the system does not properly operate except the above mentioned cases or the above mentioned malfunctions are evident, investigate the system according to the following procedures.

| Symptoms                                          | Causes                                                                                                                                                                                                                                                                       | Solution                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit does not start                               | <ul style="list-style-type: none"> <li>Power failure.</li> <li>Power switch is off.</li> <li>Fuse of power switch may have burned.</li> <li>Batteries of remote controller exhausted or other problem of controller.</li> </ul>                                              | <ul style="list-style-type: none"> <li>Wait for the comeback of power.</li> <li>Switch on the power.</li> <li>Replace the fuse.</li> <li>Replace the batteries or check the controller.</li> </ul>                                                                                                              |
| Air flowing normally but completely can't cooling | <ul style="list-style-type: none"> <li>Temperature is not set correctly.</li> </ul>                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>Set the temperature properly.</li> </ul>                                                                                                                                                                                                                                 |
| Units start or stop frequently                    | <ul style="list-style-type: none"> <li>Air or no concreting gas in the watering circuit.</li> <li>Three-way valve is malfunction.</li> <li>Voltage is too high or too low.</li> <li>System circuit is blocked.</li> <li>Temperature is not set correctly</li> </ul>          | <ul style="list-style-type: none"> <li>Vacuum.</li> <li>Maintenance or change three-way valve.</li> <li>Install manostat.</li> <li>Find reasons and solution.</li> </ul>                                                                                                                                        |
| Low cooling effect                                | <ul style="list-style-type: none"> <li>Indoor unit heat exchanger is dirty.</li> <li>The air filter is dirty.</li> <li>Inlet/outlet of indoor units is blocked.</li> <li>Doors and windows are open.</li> <li>Sunlight directly shine.</li> <li>Leakage of water.</li> </ul> | <ul style="list-style-type: none"> <li>Clean the heat exchanger.</li> <li>Clean the air filter.</li> <li>Eliminate all dirties and make air smooth.</li> <li>Close doors and windows.</li> <li>Make curtains in order to shelter from sunshine.</li> <li>Reduce heat source.</li> <li>Check leakage.</li> </ul> |
| Low heating effect                                | <ul style="list-style-type: none"> <li>Doors and windows not completely closed.</li> <li>Leakage of water.</li> </ul>                                                                                                                                                        | <ul style="list-style-type: none"> <li>Use heating device.</li> <li>Close doors and windows.</li> <li>Check leakage.</li> </ul>                                                                                                                                                                                 |

### Troubles and causes of remote controller

Before asking for serving or repairing, check the following points.

| Symptoms                                                                               | Causes                                                                                                                                                                                                                     | Solution                                                                                                                                                                |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The fan speed cannot be changed.                                                       | <ul style="list-style-type: none"> <li>Check whether the MODE indicated on the display is "AUTO".</li> </ul>                                                                                                               | When the automatic mode is selected, the air conditioner will automatically change the fan speed.                                                                       |
|                                                                                        | <ul style="list-style-type: none"> <li>Check whether the MODE indicated on the display is "DRY".</li> </ul>                                                                                                                | When dry operation is selected, the air conditioner change the fan speed automatically. The fan speed can be selected during "COOL", "FAN ONLY", and "HEAT".            |
| The remote controller signal is not transmitted even when the ON/OFF button is pushed. | <ul style="list-style-type: none"> <li>Check whether the batteries in the remote controller are exhausted.</li> </ul>                                                                                                      | The power supply is off.                                                                                                                                                |
| The TEMP. indicator does not come on.                                                  | <ul style="list-style-type: none"> <li>Check whether the MODE indicated on display is FAN ONLY.</li> </ul>                                                                                                                 | The temperature cannot be set during FAN mode.                                                                                                                          |
| The indication on the display disappears after a lapse of certain time.                | <ul style="list-style-type: none"> <li>Check whether the timer operation has come to an end when the TIMER OFF is indicated on the display.</li> </ul>                                                                     | The air conditioner operation will stop up to the set time.                                                                                                             |
| The TIMER on indicator goes off after a lapse of certain time.                         | <ul style="list-style-type: none"> <li>Check whether the timer operation is started when the TIMER ON is indicated on the display.</li> </ul>                                                                              | Up to the set time, the air conditioner will automatically start and the appropriate indicator will go off.                                                             |
| No receiving tone sounds from the indoor unit even when the ON/OFF button is pressed.  | <ul style="list-style-type: none"> <li>Check whether the signal transmitter of the remote controller is properly directed to the infrared signal receiver of the indoor unit when the ON/OFF button is pressed.</li> </ul> | Directly transmit the signal transmitter of the remote controller to the infrared signal receiver of the indoor unit, and then repeatedly push the ON/OFF button twice. |



### Malfunction and malfunction code

If anything happens like the situation described below, please shut off the power supply of the unit and contact with the customer service center immediately.

| NO. | Malfunction                                                   | running lamp | timer lamp | defrosting lamp | alarm lamp |
|-----|---------------------------------------------------------------|--------------|------------|-----------------|------------|
| 1   | Room temperature sensor checking channel is abnormal.         | X            | ☆          | X               | X          |
| 2   | Evaporator sensor checking channel is abnormal.               | ☆            | X          | X               | X          |
| 3   | EEprom malfunction.                                           | ☆            | ☆          | X               | X          |
| 4   | Water-level switch malfunction.                               | X            | X          | X               | ☆          |
| 5   | Indoor unit switch at long-range controller is dialed to OFF. | X            | X          | ☆               | X          |
| 6   | Avoid cold & heat fan                                         | ✓            | X          | ✓               | X          |
| 7   | Fan failure                                                   | ☆            | X          | ☆               | X          |

(X, Extinguish; ☆, Flash at 5Hz.; ✓, ON)

## 13. Installation

### 13.1 Installation space

The indoor unit should be installed in a location that meets the following requirements:

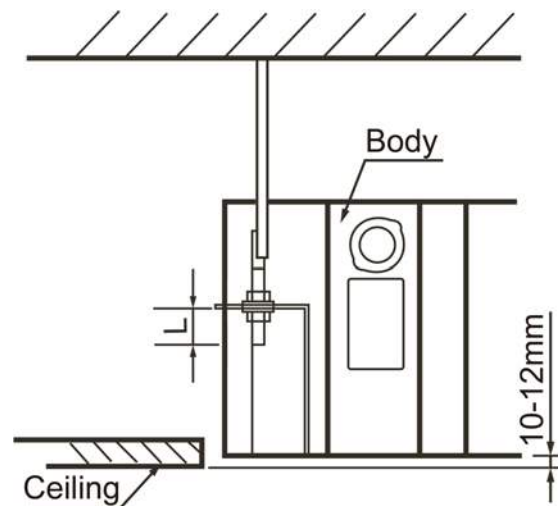
- There is enough room for installation and maintenance.
- The ceiling is horizontal, and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting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

**Caution:** Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)

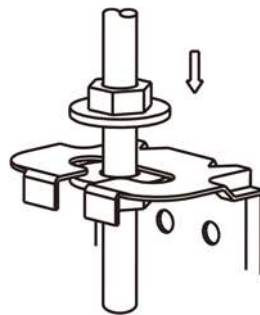
### 13.2 Install the main body

#### A. The existing ceiling (to be horizontal)

- Cut a quadrangular hole of 880×880mm in the ceiling according to the shape of the installation paper board.
  - The center of the hole should be at the same position of that of the air conditioner body.
  - Determine the lengths and outlets of the connecting pipe, drain pipe and cables.
  - To balance the ceiling and to avoid vibration, please enforce the ceiling when necessary.
- Select the position of installation hooks according to the hook holes on the installation board.
  - Drill four holes of Ø12mm, 50~55mm deep at the selected positions on the ceiling. Then embed the expansible hooks (fittings).
  - Face the concave side of the installation hooks toward the expansible hooks. Determine the length of the installation hooks from the height of ceiling, and then cut off the unnecessary part.
  - If the ceiling is extremely high, please determine the length of the installation hook according to facts.
- Adjust the hexangular nuts on the four installation hooks evenly, to ensure the balance of the body.
  - If the drainpipe is awry, leakage will be caused by the malfunction of the water-level switch.
  - Adjust the position to ensure the gaps between the body and the four sides of ceiling are even. The body's lower part should sink into the ceiling for 10~12 mm.

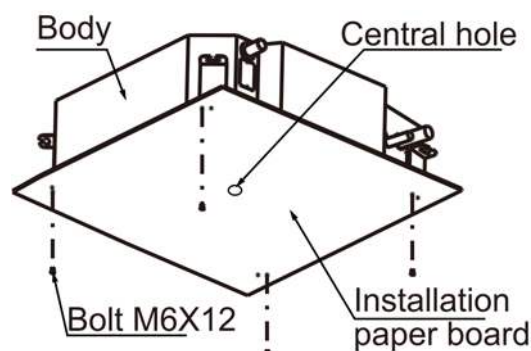


- In general, L is half of the screw length of the installation hook.
- Locate the air conditioner firmly by wrenching the nuts after having adjusted the body's position well.



### B. New built houses and ceilings

- In the case of new built house, the hook can be embedded in advance (refer to the A.b mentioned above). But it should be strong enough to bear the indoor unit and will not become loose because of concrete shrinking.
- After installing the body, please fasten the installation paper board onto the air conditioner with bolts (M6\*12) to determine in advance the sizes and positions of the hole opening on ceiling.



- Please first guarantee the flatness and horizontal of ceiling when installing it.
- Refer to the A.a mentioned above for others.
- c. Refer to the A.c mentioned above for installation.
- d. Remove the installation paper board.

**Caution:** After installing the body, the four bolts(M6x12) must be fastened to the air conditioner onto ensure the body is grounded well.

### 13.3 Install the Panel

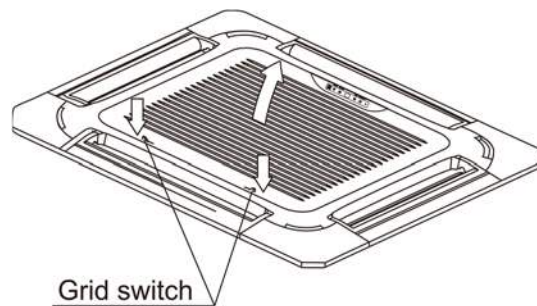
**Caution:**

Never put the panel face down on floor or against the wall, or on bulgy objects.

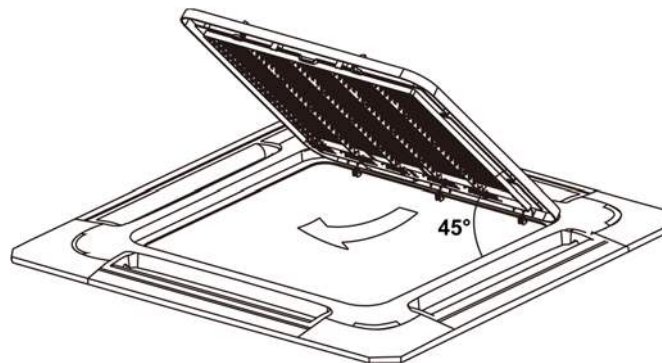
Never crash or strike it.

### (1) Remove the air inlet grill.

- a. Slide two grid switches toward the middle at the same time, and then pull them up.

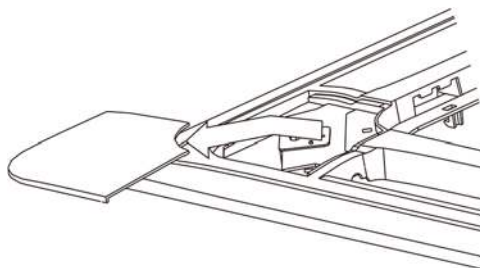


- b. Draw the grid up to an angle of about 45°, and remove it.



### (2) Remove the installation covers at the four corners.

Wrench off the bolts, loose the rope of the installation covers, and remove them.



### (3) Install the panel

- a. Align the swing motor on the panel to the tubing joints of the body properly.
- b. Fix hooks of the panel at swing motor and its opposite sides to the hooks of corresponding water receiver. Then hang the other two panel hooks onto corresponding hangers of the body.

**Cautions:** Do not coil the wiring of the swing motor into the seal sponge.

- c. Adjust the four panel hook screws to keep the panel horizontal, and screw them up to the ceiling evenly.
- d. Regulate the panel in the direction of the arrow slightly to fit the panel's center to the center of the ceiling's opening. Guarantee that hooks of four corners are fixed well.
- e. Keep fastening the screws under the panel hooks, until the thickness of the sponge between the body and the panel's outlet has been reduced to about 4~6mm. The edge of the panel should contact with the ceiling well.
  - If the gap between the panel and ceiling still exists after fastening the screws, the height of the indoor unit should be modified again.

- You can modify the height of the indoor unit through the openings on the panel's four corners; if the lift of the indoor unit and the drainpipe is not influenced.

(4) Hang the air-in grid to the panel, and then connect the lead terminator of the swing motor and that of the control box with corresponding terminators on the body respectively.

(5) Relocate the air-in grid in the procedure of reversed order.

(6) Relocate the installation cover.

- Fasten the rope of installation cover on the bolt of the installation cover. (Refer to chart 16-left)
- Press the installation cover into the panel slightly. (Refer to chart 16-right)

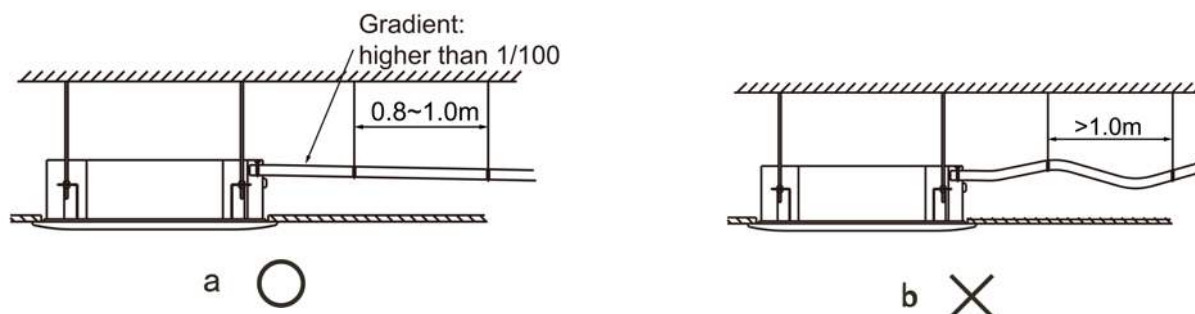
### 13.4 Connect the Drain Pipe

#### 13.4.1 Install the drainpipe

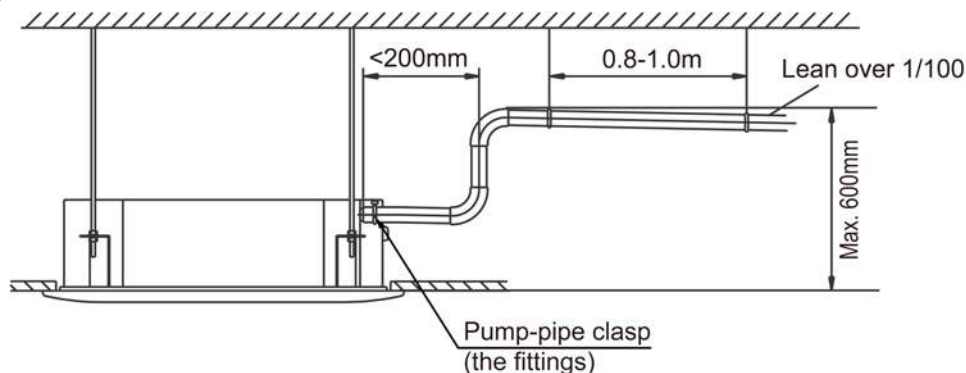
- The drainpipe can use PVC pipe (out-dia. 37~39mm, in-dia. 32mm). It could be bought at local market or from your dealer.
- Joint drainpipe connector to the end side of water pumping pipe, and fix drainpipe together with water outflow pipe and thermal insulation tube by clasp of water outflow pipe (attached).

**Caution:** Don't use forcing strength to crack the water-pumping pipe.

- Water-pumping pipe and drainpipe from main body must be wrapped by insulation tube evenly, and bound by tighten band for obstructing air getting in and coagulation.
- Prevent from water backflow into unit inside during shutdown, the drain pipe shall place down side and drain water to outdoor (drain side), the gradient of the drain pipe should be higher than (1/100), without salient and water remain.
- When connecting drainpipe, don't drag the pipe that would pull the main unit. For this, please arrange bearing points every 0.8 to 1.0 meter to avoid pipe be bended.



- When connect a lengthen drainpipe, apply protective tube to wrap its indoor parts for ensuring the lengthen part connected tightly.
- In case the drainpipe outlet is higher than pumping connective pipe of the main body, the drainpipe must be arranged upwards vertically by using connective assembly of the water outlet for vertical bending, and the height of the drainpipe shall set to the defrosting pan surface no more than 600mm, otherwise, too much backflow while shutdown would leads to overflow.



- Base on the actual requirement to bend piping, and use connective assembly of water outlet in terminal box for pipe layout.

**Caution:** All the joints of the drain system must be sealed to prevent water leakage.

- The height from floor to the end of drainpipe or the bottom of drain slot must more than 50mm. Don't immerse the end of drainpipe or the bottom of drain slot into water. When drain condensate liquid to raceway, please bend the drainpipe to a U-shaped hydrosel for avoiding stench transmitted by drainpipe to indoor.

**Note:** All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased (depend on model).The actual shape shall prevail.

### 13.4.2 Drainage test

- Check whether the drainpipe is unhindered.
  - New built house should have this test done before paving the ceiling.
1. Remove the test cover, and stow water of about 2000ml to the water receiver through the stow tube.
  2. Turn on the power, and operate the air conditioner under the "COOLING" mode. Listen to the sound of the drain pump. Check whether the water is discharged well (a lag of 1min is allowed before discharging, according to the length of the drain pipe), and check whether water leaks from the joints.

**Caution:** If there is any malfunction, please resolve it immediately.

3. Stop the air conditioner for three minutes, check if everything is ok. If the drain hose is located unreasonable, water overflow will cause the Alarm indicator lamp flashing (For both cooling and heating type or cooling only type), even the water leak out from the water receiver.
  4. Check the drain pump whether drain water immediately when alarm sound for the high water level. If the water level can't come down below to the limited water level, the air conditioner will stop. Restart it until turn off the power and drain off all the water.
  5. Turn off the power, drain the water away.
- The drain plug is used to empty the water-receiver for maintenance of the air conditioner. Please stuff it imposition at all times during operation to avoid leakage.

### 13.5 Cleaning the air filter

The air filter can prevent the dust or other particulate from going inside. In case of blockage of the filter, the working efficiency of the air conditioner may greatly decrease.

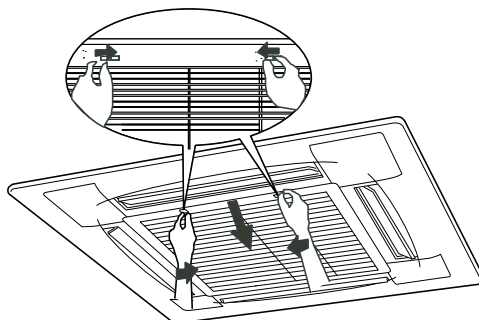
Therefore, the filter must be cleaned once two weeks during long time frequent.

If the accumulated dust is too heavy to be cleaned, please replace the filter with a new one(replaceable air filter is an optional filter).

#### 1. Open the air-in grill

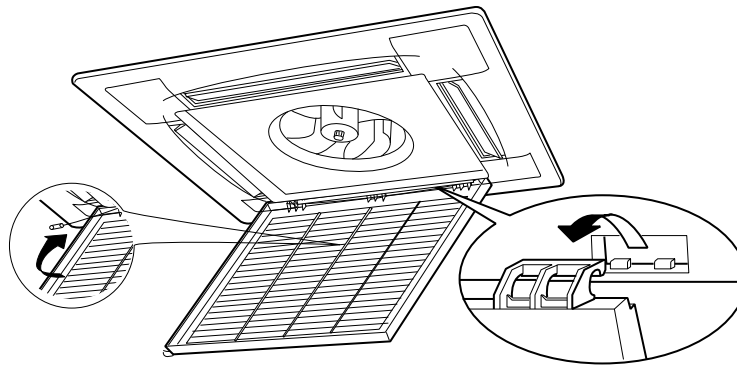
Push the grill switches towards the middle simultaneously as the following fig. Then pull down the air-in grill.

The control box cables, which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.



#### 2. Take out the air-in grill (together with the air filter shown the following fig.

Pull the air-in grill down at 45° and lift it up to take out the grill.



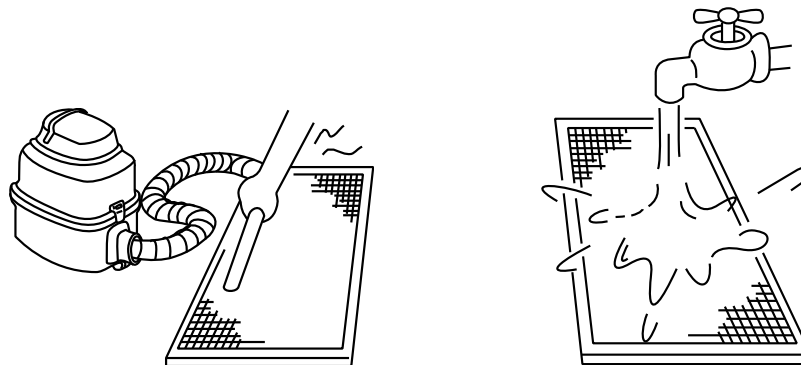
**3. Dismantle the air filter.**

**4. Clean the air filter**

Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use soft brush and mild detergent to clean it and dry out in cool place.

- The air-in side should face up when using vacuum cleaner.
- The air-in side should face down when using water.

**Caution:** Do not dry out the air filter under direct sunshine or with fire.



**5. Re-install the air filter.**

**6. Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body.**

## 13.6 Wiring

**Caution:**

1. The air conditioner should use separate power supply with rated voltage.
2. The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.
3. The wiring work should be done by qualified persons according to circuit drawing.
4. An all-pole disconnection switch having a contact separation of at least 3mm in a pole should be connected in fixed wiring.
5. Be sure to locate the power wiring and the signal wiring well to avoid cross-disturbance.
6. Do not turn on the power until you have checked carefully after wiring.

**Note:**

Remark per EMC Directive 2004/108/EC to prevent flicker impressions during the start of the compressor (technical process), following installation conditions do apply.

1. The power connection for the air conditioner has to be done at the main power distribution. The distribution has to be of a low impedance, normally the required impedance reaches at a 32A fusing point.
2. No other equipment has to be connected with this power line.
3. For detailed installation acceptance please refer to your power supplier, if restrictions do apply for

products like washing machines, air conditioners or electrical ovens.

4. For power details of the air conditioner refer to the rating plate of the product.
5. For any question contact your local dealer.

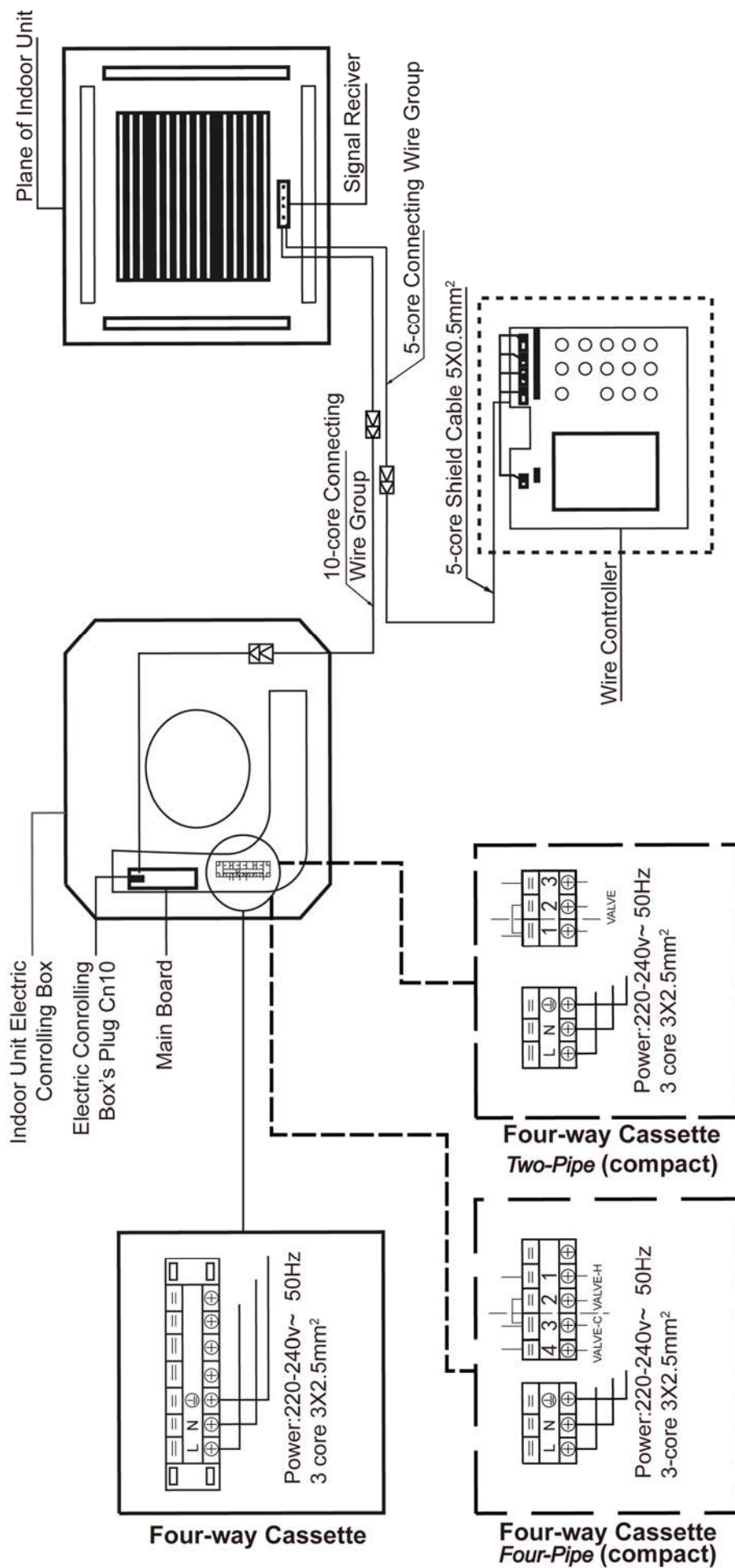
### 13.6.1 Connect the cable

- Disassemble the bolts from the cover.(If there isn't a cover on the outdoor unit, disassemble the bolts from the maintenance board, and pull it in the direction of the arrow to remove the protection board.)
- Connect the connective cables to the terminals as identified with their respective matched numbers on the terminal block of indoor and outdoor units.
- Re-install the cover or the protection board.

|                                                |                    |                                       |
|------------------------------------------------|--------------------|---------------------------------------|
| AIR FLOW (m <sup>3</sup> /h)                   |                    | 510~2550                              |
| POWER                                          | PHASE              | 1-phase                               |
|                                                | FREQUENCY AND VOLT | 220-240V~ 50Hz                        |
| CIRCUIT BREAKER/FUSE (A)                       |                    | 15/15                                 |
| INDOOR UNIT POWER<br>WIRING (mm <sup>2</sup> ) | BELOW 20m          | Twisted pair wire 2.5 mm <sup>2</sup> |
|                                                | BELOW 50m          | Twisted pair wire 6 mm <sup>2</sup>   |
| GROUND WIRING (mm <sup>2</sup> )               |                    | 2.5                                   |

### 13.6.2 Wiring figure





### 13.7 Test operation

**(1) The test operation must be carried out after the entire installation has been completed.**

**(2) Please confirm the following points before the test operation.**

- The indoor unit and outdoor unit are installed properly.
- Tubing and wiring are correctly completed.
- The refrigerant pipe system is leakage-checked.
- The drainage is unimpeded.
- The ground wiring is connected correctly.
- The length of the tubing and the added stow capacity of the refrigerant have been recorded.
- The power voltage fits the rated voltage of the air conditioner.
- There is no obstacle at the outlet and inlet of the outdoor and indoor units.
- The gas-side and liquid-side stop valves are both opened.
- The air conditioner is pre-heated by turning on the power.

**(3) According to the user's requirement, install the remote controller when the remote controller's signal can reach the indoor unit smoothly.**

**(4) Test operation**

Set the air conditioner under the mode of "COOLING" with the remote controller, and check the following points.

- Whether the switch on the remote controller works well.
- Whether the buttons on the remote controller works well.
- Whether the air flow louver moves normally.
- Whether the room temperature is adjusted well.
- Whether the indicator lights normally.
- Whether the temporary buttons works well.
- Whether the drainage is normal.
- Whether there is vibration or abnormal noise during operation.
- Whether the air conditioner heats well in the case of the HEATING/COOLING type.