



## *HIGH WALL CHILL WATER UNIT*

*MKHW SERIES*



## EXPAND YOUR PRODUCT LINE AND BUSINESS GROWTH WITH EXCITING INVENTION

A new design enriched with features that capture your hearts and increase their loyalty in our brands.

### LUXURIOUS NEW DESIGN WITH FLAT FRONT PANEL

The trendy new design is a perfect fit for both residential and business places. From a serene bedroom to a buzzing night club or a world-class building, the MKHW Series subtly blend in and enhance the atmosphere at every places where they are in.

### TOTAL DARKNESS OR NIGHT LIGHT? ON/OFF DISPLAY BOARD LEAVES THE CHOICE TO USERS

While the LED display of the MKHW Series is already glowing merely softly and comforting to the users' eyes, if the consumers desire total darkness in their bedrooms, they are able to turn off the display board or simply leave it on as a night light.

### VERSATILE WITH WIRED AND WIRELESS ELECTRONIC THERMOSTAT CONTROL

Whether it is a remote control or wall pad, the MKHW Series puts control in users' hands wherever they are in the room.

### REST ASSURED WITH NOISELESS COOL AIR

A reliable and quiet fan motor with 50 or 60 Hz operation (on selected models), users can comfortably work or rest in pleasant temperature without hardly ever noticing that the MKHW Series is in the room with them.

### COMFORTABLE IN EVERY ROOM CORNER WITH LONGER DISTANCE AIR FLOW

With a new cross slow fan design, the MKHW Series emit cool air that flow farther and comfort every person in every corner of the room (available on selected models).

### DURABLE AND EASY TO MAINTAIN WITH REMOVABLE FLAT FRONT PANEL

It can be a simple DIY task for users who want to clean the filter themselves as the MKHW Series' flat front panel is removable allowing for easy maintenance and longer lasting lifetime.

### EXTREMELY SAFE WITH ETL AND CE DIRECTIVES COMPLIANCE

The MKHW Series is designed to compliant with the latest U.S. and European safety standards (ETL and CE Directives), so you can confidently produce high-quality air-conditioning units that help you expand your market and business growth.

## FEATURES



#### Built-in Water Control Valve with Actuator

3-way or 2-way valves provided for Chilled water units to divert cooling/heating media when reaching indoor set temperature.



#### Flexible Copper Tube

Provided to all heat exchanger – Direct expansion or Chilled water units for quick and easy installation.



## MKHW CHILL WATER HIGH WALL UNIT WITH VALVE INSTALLED

| MODEL                            |                     |                                   | MKHW-07V          | MKHW-10V          | MKHW-16V                             | MKHW-21V     | MKHW-26V          | MKHW-32V       |
|----------------------------------|---------------------|-----------------------------------|-------------------|-------------------|--------------------------------------|--------------|-------------------|----------------|
| CAPACITY                         | Nominal Cooling     |                                   | 2.0 (7,000)       | 2.9 (10,000)      | 4.7 (16,000)                         | 6.2 (21,000) | 7.6 (26,000)      | 9.4 (32,000)   |
|                                  | Sound Pressure Lev. | H/M/L dB(A)                       | 36/35/34          | 37/36/35          | 40/39/38                             | 43/42/41     | 44/43/42          | 46/44/43       |
|                                  | Air Flow Rate       | H/M/L m <sup>3</sup> /h           | 374/340/306       | 425/382/340       | 722/660/612                          | 850/782/714  | 1274/1147/1019    | 1402/1223/1104 |
|                                  |                     | CFM                               | 220/200/180       | 260/225/200       | 425/400/360                          | 500/460/420  | 760/675/600       | 750/675/601    |
| COIL                             | Configuration       |                                   | Straight          |                   | L-Type                               |              | Straight          | Straight       |
|                                  | Tube Ø              | mm (Inch)                         |                   |                   | 9.525 (3/8)                          |              |                   |                |
|                                  | Fin Type            |                                   |                   |                   | Hydrophilic Aluminum                 |              |                   |                |
|                                  | No. of Rows         |                                   | 2                 |                   | 3                                    | 3            | 2                 | 3              |
| PIPING CONNECTION                | Coil Face Area      | m <sup>2</sup> (Ft <sup>2</sup> ) | 0.13 (1.40)       | 0.15 (1.61)       | 0.21 (2.26)                          |              | 0.29 (3.12)       |                |
|                                  | Ø                   | mm (Inch)                         | 12.7 (1/2)        |                   | 15.88 (5/8)                          |              | 19.05 (3/4)       |                |
|                                  | Liquid              | mm (Inch)                         | 12.7 (1/2)        |                   | 15.88 (5/8)                          |              | 19.05 (3/4)       |                |
|                                  | Type                |                                   |                   |                   | Flare                                |              |                   |                |
| 3-WAY VALVE WITH ACTUATOR WATER  |                     |                                   | 19.05 (3/4)       |                   |                                      |              | 25.4 (1)          |                |
|                                  | Pressure Drop       | kPa (Ft. of Water)                | 18.0 (6.0)        | 19.0 (6.40)       | 22.0 (7.4)                           | 36.0 (12.0)  | 21.0 (7.0)        | 30.0 (10)      |
|                                  | Flow Rate           | Ls (GPM)                          | 0.09 (1.5)        | 0.12 (2.0)        | 0.20 (3.2)                           | 0.26 (4.2)   | 0.33 (5.2)        | 0.4 (6.4)      |
|                                  |                     |                                   |                   |                   |                                      |              |                   |                |
| POWER SUPPLY                     |                     | Vac / Hz / Ph                     |                   |                   | 220 - 50/60 - 1                      |              |                   |                |
|                                  | FAN SPEED           |                                   |                   |                   | 3 - Auto Fan                         |              |                   |                |
|                                  | FAN MOTOR           | Watts (Hp)                        | 9 (1/80)          |                   | 35 (1/20)                            | 45 (1/16)    | 60 (1/12)         |                |
|                                  | AIR FILTER          |                                   |                   |                   | Anti Bacterial Air Filter (Washable) |              |                   |                |
| FAN DRAIN CONNECTION Ø DIMENSION |                     | Type - Qty                        |                   |                   | Cross Flow - 1                       |              | Cross Flow - 2 *  |                |
|                                  |                     | mm (Inches)                       | 12.7 (1/2)        |                   |                                      |              | 19.05 (3/4)       |                |
|                                  | (H x W x D)         | mm                                | 295 x 880 x 205   | 305 x 990 x 205   | 330 x 1170 x 225                     |              | 365 x 1450 x 240  |                |
|                                  |                     | (Inches)                          | 11.7 x 34.6 x 8.0 | 12.0 x 35.9 x 8.0 | 12.9 x 46.0 x 8.8                    |              | 14.4 x 57.1 x 9.4 |                |
| WEIGHT                           | Net                 | kgs (Lb)                          | 10.4 (22.9)       | 11.4 (25.1)       | 18.0 (39.6)                          | 19.0 (41.8)  | 26.5 (58.4)       | 27.5 (60.6)    |
|                                  | Gross               | kgs (Lb)                          | 11.9 (26.2)       | 13.0 (28.6)       | 21.0 (46.3)                          | 22.0 (48.5)  | 30.6 (66.1)       | 31.0 (68.3)    |
|                                  |                     | 20 ft'                            | 300               | 256               | 162                                  |              | 124               |                |
|                                  |                     | 40 ft'                            | 592               | 528               | 315                                  |              | 259               |                |
| LOADING QUANTITY                 |                     | 40 ft' HQ                         | 724               | 605               | 360                                  |              | 295               |                |
|                                  |                     |                                   | SMALL BODY        | MEDIUM BODY       | LARGE BODY                           |              | JUMBO BODY        |                |

Notes:

1. Cooling: Entering Air Temperature: 27 °C DB/19 °C WB; Water Inlet Temperature: 7 °C; 5 °C Δt
2. Certain specification can be changed upon request. Please contact us for details.
3. Due to continuous research and development , the specification may change without prior notice.

## MKHW CHILL WATER HIGH WALL UNIT WITH OUT VALVE

| MODEL                            |                      |                                   | MKHW-09           | MKHW-12           | MKHW-18                              | MKHW-24       | MKHW-30           | MKHW-36       |
|----------------------------------|----------------------|-----------------------------------|-------------------|-------------------|--------------------------------------|---------------|-------------------|---------------|
| CAPACITY                         | Nominal Cooling      |                                   | 2.6 (9,000)       | 3.5 (12,000)      | 5.3 (18,000)                         | 7.0 (24,000)  | 8.8 (30,000)      | 10.6 (36,000) |
|                                  | Sound Pressure Level | H/M/L dB(A)                       | 38/35/34          | 39/37/36          | 42/40/39                             | 44/42/39      | 48/46/44          |               |
|                                  | Air Flow Rate        | H/M/L m <sup>3</sup> /h           | 467/424/390       | 560/467/424       | 1105/900/820                         | 1231/1019/860 | 1444/1274/1189    |               |
|                                  |                      | CFM                               | 275/250/230       | 330/275/250       | 650/530/483                          | 725/600/500   | 850/750/700       |               |
| COIL                             | Configuration        |                                   | Straight          |                   | L-Type                               |               | Straight          | Straight      |
|                                  | Tube Ø               | mm (Inch)                         |                   |                   | 9.525 (3/8)                          |               |                   |               |
|                                  | Fin Type             |                                   |                   |                   | Hydrophilic Aluminum                 |               |                   |               |
|                                  | No. of Rows          |                                   | 2                 |                   | 3                                    | 3             | 2                 | 3             |
| PIPING CONNECTION                | Coil Face Area       | m <sup>2</sup> (Ft <sup>2</sup> ) | 0.15 (1.69)       | 0.18 (1.94)       | 0.24 (2.70)                          |               | 0.32 (3.54)       |               |
|                                  | Ø                    | mm (Inch)                         | 12.7 (1/2)        |                   | 15.88 (5/8)                          |               | 19.05 (3/4)       |               |
|                                  | Liquid               | mm (Inch)                         | 12.7 (1/2)        |                   | 15.88 (5/8)                          |               | 19.05 (3/4)       |               |
|                                  | Type                 |                                   |                   |                   | Flare                                |               |                   |               |
| WATER                            | Pressure Drop        | kPa (Ft. of Water)                | 5.4 (1.8)         | 8.4 (2.8)         | 26.8 (8.9)                           | 31.5 (10.5)   | 33.4 (11.0)       | 35.0 (11.7)   |
|                                  | Flow Rate            | Ls (GPM)                          | 0.11 (1.8)        | 0.15 (2.4)        | 0.28 (4.4)                           | 0.30 (4.8)    | 0.36 (6.0)        | 0.45 (7.1)    |
|                                  |                      |                                   |                   |                   |                                      |               |                   |               |
|                                  |                      |                                   |                   |                   |                                      |               |                   |               |
| POWER SUPPLY                     |                      | Vac / Hz / Ph                     |                   |                   | 220 - 50/60 - 1                      |               |                   |               |
|                                  | FAN SPEED            |                                   |                   |                   | 3 - Auto Fan                         |               |                   |               |
|                                  | FAN MOTOR            | Watts (Hp)                        | 9 (1/80)          |                   | 35 (1/20)                            | 45 (1/16)     | 60 (1/12)         |               |
|                                  | AIR FILTER           |                                   |                   |                   | Anti Bacterial Air Filter (Washable) |               |                   |               |
| FAN DRAIN CONNECTION Ø DIMENSION |                      | Type - Qty                        |                   |                   | Cross Flow - 1                       |               | Cross Flow - 2 *  |               |
|                                  |                      | mm (Inches)                       | 12.7 (1/2)        |                   |                                      |               | 19.05 (3/4)       |               |
|                                  | (H x W x D)          | mm                                | 298 x 880 x 205   | 305 x 990 x 205   | 330 x 1170 x 225                     |               | 365 x 1450 x 240  |               |
|                                  |                      | (Inches)                          | 11.7 x 34.6 x 8.0 | 12.0 x 38.9 x 8.0 | 12.9 x 46.0 x 8.8                    |               | 14.4 x 57.1 x 9.4 |               |
| WEIGHT                           | Net                  | kgs (Lb)                          | 10.4 (22.9)       | 11.4 (25.1)       | 18.0 (39.6)                          | 19.0 (41.8)   | 26.0 (57.3)       | 27.0 (59.5)   |
|                                  | Gross                | kgs (Lb)                          | 11.9 (26.2)       | 13.0 (28.6)       | 21.0 (46.3)                          | 22.0 (48.5)   | 29.5 (65.0)       | 30.5 (67.2)   |
|                                  |                      | 20 ft'                            | 300               | 256               | 162                                  |               | 124               |               |
|                                  |                      | 40 ft'                            | 592               | 528               | 315                                  |               | 259               |               |
| LOADING QUANTITY                 |                      | 40 ft' HQ                         | 724               | 605               | 360                                  |               | 295               |               |
|                                  |                      |                                   | SMALL BODY        | MEDIUM BODY       | LARGE BODY                           |               | Jumbo Body        |               |

Notes:

1. Cooling: Entering Air Temperature: 27 °C DB/19 °C WB; Water Inlet Temperature: 7 °C; 5 °C Δt
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## HIGH WALL MOUNTED

MKHW SERIES

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**JUMBO**



**LARGE**



**MEDIUM**



**SMALL**

