



# CHW DRAW THROUGH FAN COIL UNIT (MDF)



**AHRI** CERTIFIED®  
[www.ahrirectory.org](http://www.ahrirectory.org)

Air-Cooling and Air-Heating Coils  
AHRI Standard 410

# CONTENTS

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| <b>Page 01</b>    | <b>PRODUCT INTRODUCTION</b>                                  |
| <b>Page 02</b>    | <b>NOMENCLATURE</b>                                          |
| <b>Page 03-06</b> | <b>ENGINEERING SPECIFICATION<br/>(3 SPEEDS COOLING COIL)</b> |
| <b>Page 07-10</b> | <b>ENGINEERING SPECIFICATION<br/>(BELT DRIVEN)</b>           |
| <b>Page 11-14</b> | <b>MODEL DIAGRAM</b>                                         |
| <b>Page 15</b>    | <b>NOTE</b>                                                  |

# PRODUCT INTRODUCTION



MDF features a 25mm thick panel with powder-coated steel on the outside and galvanized steel on the inside, filled with high-pressure PU foam. This creates a strong, lightweight structure with excellent thermal insulation and anti-rust properties. The hidden aluminium alloy frame, fastened with bolts and nuts, reinforces the panel.

The patented "Labyrinth" design integrates the frame and panel, reducing air leakage and isolating metal surfaces from outside air, preventing cold bridges and condensation, and minimizing energy loss. MDF's modular design allows flexibility in length and width to suit various site conditions. The product range offers airflow from 1,000 to 15,000 m<sup>3</sup>/h with three ESP options, making it versatile for different needs.

## DESIGN

- Special Panel Structure Design
- Low Air Leakage
- No Cold Bridge
- Wide Product Range
- Computer Aided Coil Design
- ARI Performance Certified Coil

# NOMENCLATURE

MDF 600 D C L R 6 N 04 B D

C Direct Drive / 3 Speed  
D Belt Driven

B Blue outer panel  
W White outer panel

04 External static pressure  
(4 x 10Pa = 40Pa)

1 1 row hot water coil  
2 2 rows hot water coil  
N No hot water coil

6 Rows of chill water coil

R Return air  
F Fresh air

L Left type  
R Right type

C Ceiling hung type

S Single skin  
D Double skin

600 CFM

MDF Draw Through  
Fan Coil Unit

## GENERAL DATA (3 SPEEDS COOLING COIL - 4 ROWS) RETURN AIR

| Model                       |        | MDF      | 600C            | 800C | 1000C | 1300C | 1500C | 2000C         | 2500C | 3000C | 3500C |
|-----------------------------|--------|----------|-----------------|------|-------|-------|-------|---------------|-------|-------|-------|
| Air Flow                    | High   | CFM      | 620             | 790  | 1050  | 1310  | 1580  | 2100          | 2630  | 3150  | 3710  |
|                             | Medium | CFM      | 430             | 550  | 740   | 920   | 1100  | 1470          | 1840  | 2210  | 2590  |
|                             | Low    | CFM      | 310             | 390  | 530   | 660   | 790   | 1050          | 1310  | 1580  | 1850  |
| Total Cooling Capacity      | High   | kW       | 5.2             | 6.5  | 9.2   | 11.5  | 13.4  | 19.8          | 23.1  | 28.6  | 32.6  |
|                             | Medium | kW       | 4.1             | 5.2  | 7.3   | 9.2   | 11.0  | 15.7          | 18.4  | 22.9  | 26.4  |
|                             | Low    | kW       | 3.3             | 4.2  | 5.9   | 7.4   | 8.8   | 12.3          | 14.6  | 18.1  | 21.2  |
| Water Flow Rate             | High   | l/s      | 0.25            | 0.31 | 0.44  | 0.55  | 0.64  | 0.95          | 1.10  | 1.36  | 1.55  |
|                             | Medium | l/s      | 0.20            | 0.25 | 0.35  | 0.44  | 0.52  | 0.75          | 0.88  | 1.09  | 1.26  |
|                             | Low    | l/s      | 0.16            | 0.20 | 0.28  | 0.35  | 0.42  | 0.59          | 0.70  | 0.86  | 1.01  |
| Water Pressure Drop         | High   | kPa      | 4.1             | 6.4  | 14.2  | 17.7  | 25.3  | 62.4          | 49.0  | 56.0  | 20.0  |
|                             | Medium | kPa      | 2.7             | 4.3  | 9.3   | 11.7  | 17.6  | 40.7          | 32.2  | 37.3  | 13.5  |
|                             | Low    | kPa      | 1.8             | 2.9  | 6.2   | 7.8   | 11.6  | 25.9          | 21.2  | 24.1  | 9.0   |
| External Static Pressure    | High   | Pa       | 140             | 140  | 140   | 190   | 190   | 160           | 160   | 220   | 260   |
|                             | Medium | Pa       | 110             | 110  | 110   | 150   | 150   | 130           | 130   | 175   | 210   |
|                             | Low    | Pa       | 90              | 90   | 90    | 120   | 120   | 100           | 100   | 140   | 165   |
| Dimension                   | Length | mm       | 900             | 900  | 900   | 900   | 900   | 950           | 950   | 950   | 950   |
|                             | Width  | mm       | 717             | 757  | 877   | 907   | 997   | 1217          | 1437  | 1497  | 1687  |
|                             | Height | mm       | 545             | 545  | 545   | 620   | 620   | 620           | 620   | 620   | 680   |
| Chilled Water Pipe Diameter |        | mm(in)   | DN32 (1 1/4")   |      |       |       |       | DN40 (1 1/2") |       |       |       |
| Condensate Drain Size       |        | mm(in)   | DN25 (1")       |      |       |       |       |               |       |       |       |
| Net Weight                  |        | kg       | 48              | 52   | 72    | 74    | 85    | 95            | 124   | 140   | 146   |
| Sound Pressure Level        |        | dB (A)   | 52              | 52   | 54    | 55    | 57    | 58            | 60    | 62    | 62    |
| Power Input                 |        | kW       | 0.35            | 0.45 | 0.5   | 0.7   | 0.7   | 1.0           | 1.4   | 2.3   | 2.7   |
| Current Input               |        | A        | 1.4             | 1.7  | 3.2   | 3.5   | 3.5   | 5.0           | 7.0   | 9.0   | 12.0  |
| Power Supply                |        | V/ Ph/Hz | 220~240/1/50~60 |      |       |       |       |               |       |       |       |

### Note:

- Nominal cooling capacity is based on the following condition:
  - Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - Air entering condition: 27.0°C DB / 19.5°C WB
- All the specifications are subjected to change by manufacturer without prior notice.

## GENERAL DATA (3 SPEEDS COOLING COIL - 6 ROWS) RETURN AIR

| Model                       |        | MDF       | 600C            | 800C | 1000C | 1300C | 1500C | 2000C         | 2500C | 3000C | 3500C     |
|-----------------------------|--------|-----------|-----------------|------|-------|-------|-------|---------------|-------|-------|-----------|
| Air Flow                    | High   | CFM       | 620             | 790  | 1050  | 1310  | 1580  | 2100          | 2630  | 3150  | 3710      |
|                             | Medium | CFM       | 430             | 550  | 740   | 920   | 1100  | 1470          | 1840  | 2210  | 2590      |
|                             | Low    | CFM       | 310             | 390  | 530   | 660   | 790   | 1050          | 1310  | 1580  | 1850      |
| Total Cooling Capacity      | High   | kW        | 7.2             | 8.9  | 12.5  | 15.0  | 17.8  | 25.2          | 30.0  | 36.4  | 41.2      |
|                             | Medium | kW        | 5.6             | 7.0  | 9.7   | 11.7  | 13.9  | 19.4          | 23.7  | 28.4  | 32.3      |
|                             | Low    | kW        | 4.3             | 5.4  | 7.5   | 9.1   | 10.8  | 15.1          | 18.4  | 22.0  | 25.5      |
| Water Flow Rate             | High   | l/s       | 0.34            | 0.42 | 0.60  | 0.72  | 0.85  | 1.20          | 1.43  | 1.74  | 1.96      |
|                             | Medium | l/s       | 0.27            | 0.33 | 0.46  | 0.56  | 0.66  | 0.92          | 1.13  | 1.35  | 1.54      |
|                             | Low    | l/s       | 0.20            | 0.26 | 0.36  | 0.44  | 0.52  | 0.72          | 0.88  | 1.05  | 1.22      |
| Water Pressure Drop         | High   | kPa       | 10.6            | 16.4 | 35.1  | 40.6  | 21.0  | 47.5          | 38.6  | 39.5  | 43.2      |
|                             | Medium | kPa       | 6.7             | 10.5 | 22.0  | 25.8  | 13.3  | 29.3          | 24.9  | 25.0  | 27.5      |
|                             | Low    | kPa       | 4.1             | 6.6  | 13.8  | 16.4  | 8.4   | 18.5          | 15.5  | 15.7  | 17.8      |
| External Static Pressure    | High   | Pa        | 80              | 80   | 80    | 130   | 130   | 100           | 100   | 160   | 200       |
|                             | Medium | Pa        | 65              | 65   | 65    | 105   | 105   | 80            | 80    | 130   | 160       |
|                             | Low    | Pa        | 50              | 50   | 50    | 85    | 85    | 65            | 65    | 105   | 130       |
| Dimension                   | Length | mm        | 900             | 900  | 900   | 900   | 900   | 950           | 950   | 950   | 950       |
|                             | Width  | mm        | 717             | 757  | 877   | 907   | 997   | 1217          | 1437  | 1497  | 1687      |
|                             | Height | mm        | 545             | 545  | 545   | 620   | 620   | 620           | 620   | 620   | 680       |
| Chilled Water Pipe Diameter |        | mm(in)    | DN32 (1 1/4")   |      |       |       |       | DN40 (1 1/2") |       |       | DN50 (2") |
| Condensate Drain Size       |        | mm(in)    | DN25 (1")       |      |       |       |       |               |       |       |           |
| Net Weight                  |        | kg        | 50              | 55   | 77    | 79    | 90    | 98            | 128   | 143   | 151       |
| Sound Pressure Level        |        | dB (A)    | 52              | 52   | 54    | 55    | 57    | 58            | 60    | 62    | 62        |
| Power Input                 |        | kW        | 0.35            | 0.45 | 0.5   | 0.7   | 0.7   | 1.0           | 1.4   | 2.3   | 2.7       |
| Current Input               |        | A         | 1.4             | 1.7  | 3.2   | 3.5   | 3.5   | 5.0           | 7.0   | 9.0   | 12.0      |
| Power Supply                |        | V/ Ph/ Hz | 220~240/1/50~60 |      |       |       |       |               |       |       |           |

### Note:

- Nominal cooling capacity is based on the following condition:
  - Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - Air entering condition: 27.0°C DB / 19.5°C WB
- All the specifications are subjected to change by manufacturer without prior notice.

## GENERAL DATA (3 SPEEDS COOLING COIL - 4 ROWS) FRESH AIR

| Model                       |        | MDF     | 600C            | 800C | 1000C | 1300C | 1500C         | 2000C | 2500C     | 3000C | 3500C |
|-----------------------------|--------|---------|-----------------|------|-------|-------|---------------|-------|-----------|-------|-------|
| Air Flow                    | High   | CFM     | 620             | 790  | 1050  | 1310  | 1580          | 2100  | 2630      | 3150  | 3710  |
|                             | Medium | CFM     | 430             | 550  | 740   | 920   | 1100          | 1470  | 1840      | 2210  | 2590  |
|                             | Low    | CFM     | 310             | 390  | 530   | 660   | 790           | 1050  | 1310      | 1580  | 1850  |
| Total Cooling Capacity      | High   | kW      | 12.9            | 15.3 | 22.2  | 25.5  | 32.4          | 40.7  | 52.5      | 60.1  | 70.7  |
|                             | Medium | kW      | 10.4            | 12.4 | 17.8  | 20.6  | 26.0          | 34.5  | 42.8      | 49.4  | 58.0  |
|                             | Low    | kW      | 8.11            | 9.9  | 14.1  | 16.4  | 20.8          | 27.9  | 34.3      | 39.5  | 47.0  |
| Water Flow Rate             | High   | l/s     | 0.62            | 0.73 | 1.06  | 1.21  | 1.51          | 1.51  | 2.42      | 2.72  | 3.02  |
|                             | Medium | l/s     | 0.49            | 0.59 | 0.85  | 0.98  | 1.24          | 1.51  | 2.04      | 2.35  | 2.76  |
|                             | Low    | l/s     | 0.39            | 0.47 | 0.67  | 0.78  | 0.99          | 1.33  | 1.63      | 1.88  | 2.24  |
| Water Pressure Drop         | High   | kPa     | 22.0            | 31.5 | 71.5  | 76.0  | 64.7          | 76.1  | 78.1      | 64.5  | 68.7  |
|                             | Medium | kPa     | 14.6            | 21.3 | 47.5  | 51.5  | 44.7          | 76.3  | 56.5      | 49.2  | 58.2  |
|                             | Low    | kPa     | 9.3             | 14.0 | 30.9  | 34.1  | 29.5          | 60.2  | 37.2      | 32.5  | 39.3  |
| External Static Pressure    | High   | Pa      | 140             | 140  | 140   | 190   | 190           | 160   | 160       | 220   | 260   |
|                             | Medium | Pa      | 110             | 110  | 110   | 150   | 150           | 130   | 130       | 175   | 210   |
|                             | Low    | Pa      | 90              | 90   | 90    | 120   | 120           | 100   | 100       | 140   | 165   |
| Dimension                   | Length | mm      | 900             | 900  | 900   | 900   | 900           | 950   | 950       | 950   | 950   |
|                             | Width  | mm      | 717             | 757  | 877   | 907   | 997           | 1217  | 1437      | 1497  | 1687  |
|                             | Height | mm      | 545             | 545  | 545   | 620   | 620           | 620   | 620       | 620   | 680   |
| Chilled Water Pipe Diameter |        | mm(in)  | DN32 (1 1/4")   |      |       |       | DN40 (1 1/2") |       | DN50 (2") |       |       |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |      |       |       |               |       |           |       |       |
| Net Weight                  |        | kg      | 48              | 52   | 72    | 74    | 85            | 95    | 124       | 140   | 146   |
| Sound Pressure Level        |        | dB (A)  | 52              | 52   | 54    | 55    | 57            | 58    | 60        | 62    | 62    |
| Power Input                 |        | kW      | 0.35            | 0.45 | 0.5   | 0.7   | 0.7           | 1.0   | 1.4       | 2.3   | 2.7   |
| Current Input               |        | A       | 1.4             | 1.7  | 3.2   | 3.5   | 3.5           | 5.0   | 7.0       | 9.0   | 12.0  |
| Power Supply                |        | V/Ph/Hz | 220~240/1/50~60 |      |       |       |               |       |           |       |       |

### Note:

- Nominal cooling capacity is based on the following condition:
  - Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - Air entering condition: 35.0°C DB / 28.0°C WB
- All the specifications are subjected to change by manufacturer without prior notice.

## GENERAL DATA (3 SPEEDS COOLING COIL – 6 ROWS) FRESH AIR

| Model                       |        | MDF       | 600C            | 800C | 1000C         | 1300C | 1500C | 2000C     | 2500C | 3000C | 3500C         |
|-----------------------------|--------|-----------|-----------------|------|---------------|-------|-------|-----------|-------|-------|---------------|
| Air Flow                    | High   | CFM       | 620             | 790  | 1050          | 1310  | 1580  | 2100      | 2630  | 3150  | 3710          |
|                             | Medium | CFM       | 430             | 550  | 740           | 920   | 1100  | 1470      | 1840  | 2210  | 2590          |
|                             | Low    | CFM       | 310             | 390  | 530           | 660   | 790   | 1050      | 1310  | 1580  | 1850          |
| Total Cooling Capacity      | High   | kW        | 15.3            | 20.0 | 27.6          | 33.3  | 36.2  | 53.5      | 61.8  | 77.0  | 88.4          |
|                             | Medium | kW        | 12.0            | 15.5 | 21.5          | 25.8  | 28.6  | 42.1      | 49.3  | 60.5  | 69.6          |
|                             | Low    | kW        | 9.3             | 12.0 | 16.5          | 20.2  | 22.6  | 32.6      | 38.4  | 47.4  | 54.1          |
| Water Flow Rate             | High   | l/s       | 0.66            | 0.42 | 0.60          | 0.72  | 0.85  | 1.20      | 1.43  | 1.72  | 1.95          |
|                             | Medium | l/s       | 0.57            | 0.74 | 1.03          | 1.23  | 1.36  | 2.01      | 2.35  | 2.88  | 3.32          |
|                             | Low    | l/s       | 0.44            | 0.57 | 0.79          | 0.96  | 1.07  | 1.55      | 1.83  | 2.26  | 2.58          |
| Water Pressure Drop         | High   | kPa       | 35.0            | 16.5 | 35.4          | 40.8  | 21.0  | 47.7      | 38.8  | 38.8  | 42.7          |
|                             | Medium | kPa       | 27.3            | 17.1 | 35.7          | 38.5  | 27.0  | 64.3      | 31.0  | 39.5  | 36.5          |
|                             | Low    | kPa       | 17.0            | 10.6 | 21.9          | 24.4  | 17.3  | 39.7      | 19.4  | 25.0  | 23.0          |
| External Static Pressure    | High   | Pa        | 80              | 80   | 80            | 130   | 130   | 100       | 100   | 160   | 200           |
|                             | Medium | Pa        | 65              | 65   | 65            | 105   | 105   | 80        | 80    | 130   | 160           |
|                             | Low    | Pa        | 50              | 50   | 50            | 85    | 85    | 65        | 65    | 105   | 130           |
| Dimension                   | Length | mm        | 900             | 900  | 900           | 900   | 900   | 950       | 950   | 950   | 950           |
|                             | Width  | mm        | 717             | 757  | 877           | 907   | 997   | 1217      | 1437  | 1497  | 1687          |
|                             | Height | mm        | 545             | 545  | 545           | 620   | 620   | 620       | 620   | 620   | 680           |
| Chilled Water Pipe Diameter |        | mm(in)    | DN32 (1 1/4")   |      | DN40 (1 1/2") |       |       | DN50 (2") |       |       | DN65 (2 1/2") |
| Condensate Drain Size       |        | mm(in)    | DN25 (1")       |      |               |       |       |           |       |       |               |
| Net Weight                  |        | kg        | 50              | 55   | 77            | 79    | 90    | 98        | 128   | 143   | 151           |
| Sound Pressure Level        |        | dB (A)    | 52              | 52   | 54            | 55    | 57    | 58        | 60    | 62    | 62            |
| Power Input                 |        | kW        | 0.35            | 0.45 | 0.5           | 0.7   | 0.7   | 1.0       | 1.4   | 2.3   | 2.7           |
| Current Input               |        | A         | 1.4             | 1.7  | 3.2           | 3.5   | 3.5   | 5.0       | 7.0   | 9.0   | 12.0          |
| Power Supply                |        | V/ Ph/ Hz | 220~240/1/50~60 |      |               |       |       |           |       |       |               |

### Note:

- Nominal cooling capacity is based on the following condition:
  - Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - Air entering condition: 35.0°C DB / 28.0°C WB
- All the specifications are subjected to change by manufacturer without prior notice.

## GENERAL DATA (BELT DRIVEN - 4 ROWS) RETURN AIR

| Model                       |        | MDF     | 2000B           | 2500B     | 3000B | 3500B         | 4000B |
|-----------------------------|--------|---------|-----------------|-----------|-------|---------------|-------|
| Air Flow                    |        | CFM     | 2100            | 2630      | 3150  | 3710          | 4320  |
| Total Cooling Capacity      |        | kW      | 19.8            | 23.1      | 28.6  | 32.6          | 40.2  |
| Water Flow Rate             |        | l/s     | 0.95            | 1.10      | 1.36  | 1.55          | 1.92  |
| Water Pressure Drop         |        | kPa     | 47.7            | 38.8      | 38.8  | 42.7          | 105.6 |
| External Static Pressure    |        | Pa      | 200             | 200       | 200   | 240           | 240   |
| Motor Power                 | 50Hz   | kW      | 0.75            | 1.1       | 1.5   | 1.5           | 1.5   |
| Dimension                   | Length | mm      | 950             | 950       | 950   | 950           | 950   |
|                             | Width  | mm      | 1217            | 1437      | 1497  | 1687          | 1817  |
|                             | Height | mm      | 620             | 620       | 620   | 680           | 680   |
| Net Weight                  |        | kg      | 99              | 128       | 139   | 192           | 231   |
| Sound Pressure Level        |        | dB (A)  | 60              | 62        | 63    | 64            | 64    |
| Chilled Water Pipe Diameter |        | mm(in)  | DN40 (1 1/2")   |           |       |               |       |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |           |       |               |       |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |           |       |               |       |
| Model                       |        | MDF     | 5000B           | 5500B     | 6500B | 7500B         | 8000B |
| Air Flow                    |        | CFM     | 4940            | 5560      | 6490  | 7410          | 8340  |
| Total Cooling Capacity      |        | kW      | 43.1            | 49.3      | 58.9  | 65.1          | 75.7  |
| Water Flow Rate             |        | l/s     | 2.05            | 2.35      | 2.81  | 3.10          | 3.61  |
| Water Pressure Drop         |        | kPa     | 27.1            | 37.4      | 57.4  | 63.7          | 56.6  |
| External Static Pressure    |        | Pa      | 280             | 280       | 280   | 320           | 320   |
| Motor Power                 | 50Hz   | kW      | 2.2             | 3.0       | 3.0   | 4.0           | 4.0   |
| Dimension                   | Length | mm      | 950             | 950       | 1050  | 1050          | 1150  |
|                             | Width  | mm      | 1817            | 1857      | 2097  | 2197          | 2157  |
|                             | Height | mm      | 770             | 770       | 770   | 830           | 930   |
| Net Weight                  |        | kg      | 270             | 279       | 287   | 368           | 372   |
| Sound Pressure Level        |        | dB (A)  | 66              | 67        | 68    | 68.5          | 69    |
| Chilled Water Pipe Diameter |        | mm(in)  | DN40 (1 1/2")   | DN50 (2") |       |               |       |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |           |       | DN32 (1 1/4") |       |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |           |       |               |       |

### Note:

- 1) Nominal cooling capacity is based on the following condition:
  - a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - b) Air entering condition: 27.0°C DB / 19.5°C WB
- 2) All the specifications are subjected to change by manufacturer without prior notice.

## GENERAL DATA (BELT DRIVEN - 6 ROWS) RETURN AIR

| Model                       |        | MDF     | 2000B           | 2500B | 3000B | 3500B         | 4000B |
|-----------------------------|--------|---------|-----------------|-------|-------|---------------|-------|
| Air Flow                    |        | CFM     | 2100            | 2630  | 3150  | 3710          | 4320  |
| Total Cooling Capacity      |        | kW      | 25.2            | 30.0  | 36.4  | 41.2          | 49.07 |
| Water Flow Rate             |        | l/s     | 1.20            | 1.43  | 1.74  | 1.96          | 2.34  |
| Water Pressure Drop         |        | kPa     | 47.5            | 38.6  | 39.5  | 43.2          | 65.9  |
| External Static Pressure    |        | Pa      | 200             | 200   | 200   | 240           | 240   |
| Motor Power                 | 50Hz   | kW      | 1.1             | 1.1   | 1.5   | 2.2           | 2.2   |
| Dimension                   | Length | mm      | 950             | 950   | 950   | 950           | 950   |
|                             | Width  | mm      | 1217            | 1437  | 1497  | 1687          | 1817  |
|                             | Height | mm      | 620             | 620   | 620   | 680           | 680   |
| Net Weight                  |        | kg      | 129             | 158   | 180   | 222           | 271   |
| Sound Pressure Level        |        | dB (A)  | 60              | 62    | 63    | 64            | 64    |
| Chilled Water Pipe Diameter |        | mm(in)  | DN40 (1 1/2")   |       |       | DN50 (2")     |       |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |       |       |               |       |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |       |       |               |       |
| Model                       |        | MDF     | 5000B           | 5500B | 6500B | 7500B         | 8000B |
| Air Flow                    |        | CFM     | 4940            | 5560  | 6490  | 7410          | 8340  |
| Total Cooling Capacity      |        | kW      | 56.44           | 62.69 | 72.17 | 89.00         | 96.46 |
| Water Flow Rate             |        | l/s     | 2.69            | 2.99  | 3.44  | 4.24          | 4.59  |
| Water Pressure Drop         |        | kPa     | 20.7            | 27.0  | 37.4  | 53.2          | 50.4  |
| External Static Pressure    |        | Pa      | 280             | 280   | 280   | 320           | 320   |
| Motor Power                 | 50Hz   | kW      | 3.0             | 3.0   | 3.0   | 4.0           | 4.0   |
| Dimension                   | Length | mm      | 950             | 950   | 1050  | 1050          | 1150  |
|                             | Width  | mm      | 1817            | 1857  | 2097  | 2197          | 2157  |
|                             | Height | mm      | 770             | 770   | 770   | 830           | 930   |
| Net Weight                  |        | kg      | 305             | 309   | 311   | 398           | 414   |
| Sound Pressure Level        |        | dB (A)  | 66.0            | 67.0  | 68.0  | 68.5          | 69.0  |
| Chilled Water Pipe Diameter |        | mm(in)  | DN50 (2")       |       |       | DN65 (2 1/2") |       |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |       |       | DN32 (1 1/4") |       |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |       |       |               |       |

### Note:

- Nominal cooling capacity is based on the following condition:
  - Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - Air entering condition: 27.0°C DB / 19.5°C WB
- All the specifications are subjected to change by manufacturer without prior notice.

## GENERAL DATA (BELT DRIVEN - 4 ROWS) FRESH AIR

| Model                       |        | MDF     | 2000B           | 2500B         | 3000B | 3500B         | 4000B |
|-----------------------------|--------|---------|-----------------|---------------|-------|---------------|-------|
| Air Flow                    |        | CFM     | 2100            | 2630          | 3150  | 3710          | 4320  |
| Total Cooling Capacity      |        | kW      | 40.7            | 52.5          | 60.1  | 70.7          | 83.8  |
| Water Flow Rate             |        | l/s     | 1.51            | 2.42          | 2.72  | 3.02          | 3.02  |
| Water Pressure Drop         |        | kPa     | 76.1            | 78.1          | 64.5  | 68.7          | 75.2  |
| External Static Pressure    |        | Pa      | 200             | 200           | 200   | 240           | 240   |
| Motor Power                 | 50Hz   | kW      | 0.75            | 1.1           | 1.5   | 1.5           | 1.5   |
| Dimension                   | Length | mm      | 950             | 950           | 950   | 950           | 950   |
|                             | Width  | mm      | 1217            | 1437          | 1497  | 1687          | 1817  |
|                             | Height | mm      | 620             | 620           | 620   | 680           | 680   |
| Net Weight                  |        | kg      | 99              | 128           | 139   | 192           | 231   |
| Sound Pressure Level        |        | dB (A)  | 60              | 62            | 63    | 64            | 64    |
| Chilled Water Pipe Diameter |        | mm(in)  | DN40 (1 1/2")   | DN50 (2")     |       |               |       |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |               |       |               |       |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |               |       |               |       |
| Model                       |        | MDF     | 5000B           | 5500B         | 6500B | 7500B         | 8000B |
| Air Flow                    |        | CFM     | 4940            | 5560          | 6490  | 7410          | 8340  |
| Total Cooling Capacity      |        | kW      | 95.8            | 106.1         | 119.9 | 139.2         | 156.7 |
| Water Flow Rate             |        | l/s     | 3.63            | 5.05          | 5.71  | 6.63          | 7.46  |
| Water Pressure Drop         |        | kPa     | 78.0            | 22.2          | 30.6  | 37.1          | 36.8  |
| External Static Pressure    |        | Pa      | 280             | 280           | 280   | 320           | 320   |
| Motor Power                 | 50Hz   | kW      | 2.2             | 3.0           | 3.0   | 4.0           | 4.0   |
| Dimension                   | Length | mm      | 950             | 950           | 1050  | 1050          | 1150  |
|                             | Width  | mm      | 1817            | 1857          | 2097  | 2197          | 2157  |
|                             | Height | mm      | 770             | 770           | 770   | 830           | 930   |
| Net Weight                  |        | kg      | 270             | 279           | 287   | 368           | 372   |
| Sound Pressure Level        |        | dB (A)  | 66              | 67            | 68    | 68.5          | 69    |
| Chilled Water Pipe Diameter |        | mm(in)  |                 | DN65 (2 1/2") |       |               |       |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |               |       | DN32 (1 1/4") |       |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |               |       |               |       |

### Note:

- 1) Nominal cooling capacity is based on the following condition:
  - a) Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - b) Air entering condition: 35.0°C DB / 28.0°C WB
- 2) All the specifications are subjected to change by manufacturer without prior notice.

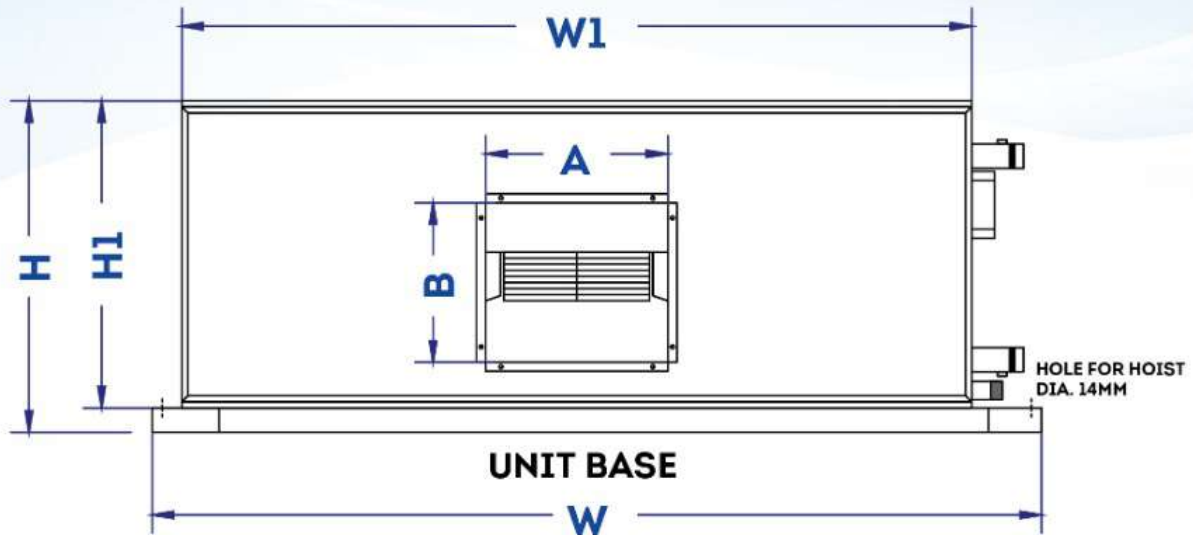
## GENERAL DATA (BELT DRIVEN - 6 ROWS) FRESH AIR

| Model                       |        | MDF     | 2000B           | 2500B | 3000B  | 3500B         | 4000B  |
|-----------------------------|--------|---------|-----------------|-------|--------|---------------|--------|
| Air Flow                    |        | CFM     | 2100            | 2630  | 3150   | 3710          | 4320   |
| Total Cooling Capacity      |        | kW      | 53.5            | 61.8  | 77.0   | 88.4          | 102.49 |
| Water Flow Rate             |        | l/s     | 1.20            | 1.43  | 1.72   | 1.95          | 2.29   |
| Water Pressure Drop         |        | kPa     | 47.7            | 38.8  | 38.8   | 42.7          | 63.5   |
| External Static Pressure    |        | Pa      | 200             | 200   | 200    | 240           | 240    |
| Motor Power                 | 50Hz   | kW      | 1.1             | 1.1   | 1.5    | 2.2           | 2.2    |
| Dimension                   | Length | mm      | 950             | 950   | 950    | 950           | 950    |
|                             | Width  | mm      | 1217            | 1437  | 1497   | 1687          | 1817   |
|                             | Height | mm      | 620             | 620   | 620    | 680           | 680    |
| Net Weight                  |        | kg      | 129             | 158   | 180    | 222           | 271    |
| Sound Pressure Level        |        | dB (A)  | 60              | 62    | 63     | 64            | 64     |
| Chilled Water Pipe Diameter |        | mm(in)  | DN50 (2")       |       |        | DN65 (2 1/2") |        |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |       |        |               |        |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |       |        |               |        |
| Model                       |        | MDF     | 5000B           | 5500B | 6500B  | 7500B         | 8000B  |
| Air Flow                    |        | CFM     | 4940            | 5560  | 6490   | 7410          | 8340   |
| Total Cooling Capacity      |        | kW      | 117.86          | 132.6 | 162.43 | 194.48        | 216.3  |
| Water Flow Rate             |        | l/s     | 2.63            | 2.97  | 3.37   | 4.11          | 4.41   |
| Water Pressure Drop         |        | kPa     | 19.0            | 25.7  | 36.1   | 47.7          | 42.6   |
| External Static Pressure    |        | Pa      | 280             | 280   | 280    | 320           | 320    |
| Motor Power                 | 50Hz   | kW      | 3.0             | 3.0   | 3.0    | 4.0           | 4.0    |
| Dimension                   | Length | mm      | 950             | 950   | 1050   | 1050          | 1150   |
|                             | Width  | mm      | 1817            | 1857  | 2097   | 2197          | 2157   |
|                             | Height | mm      | 770             | 770   | 770    | 830           | 930    |
| Net Weight                  |        | kg      | 305             | 309   | 311    | 398           | 414    |
| Sound Pressure Level        |        | dB (A)  | 66              | 67    | 68     | 68.5          | 69     |
| Chilled Water Pipe Diameter |        | mm(in)  | DN65 (2 1/2")   |       |        | DN80 (3")     |        |
| Condensate Drain Size       |        | mm(in)  | DN25 (1")       |       |        | DN32 (1 1/4") |        |
| Power Supply                |        | V/Ph/Hz | 380~415/3/50~60 |       |        |               |        |

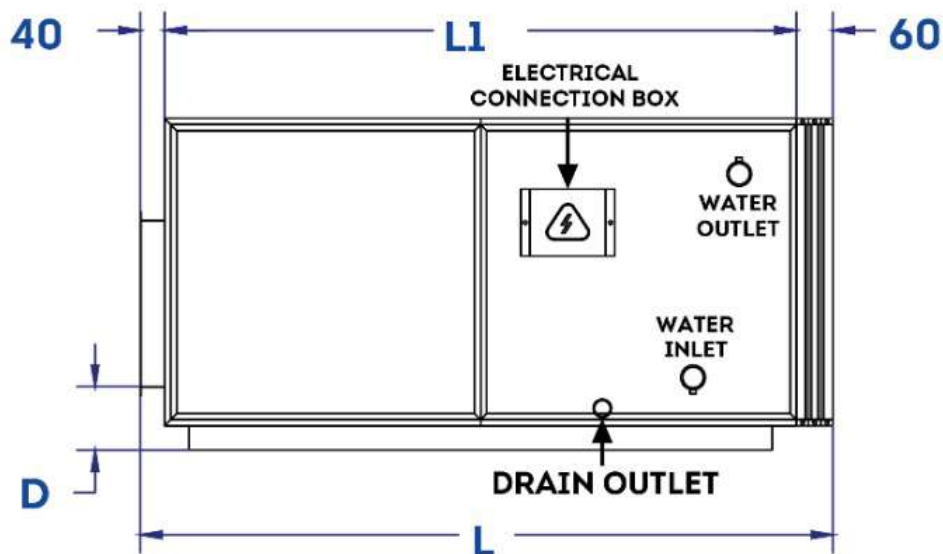
### Note:

- Nominal cooling capacity is based on the following condition:
  - Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
  - Air entering condition: 35.0°C DB / 28.0°C WB
- All the specifications are subjected to change by manufacturer without prior notice.

## MODEL: MDF 600C - 1500C (3 SPEEDS)

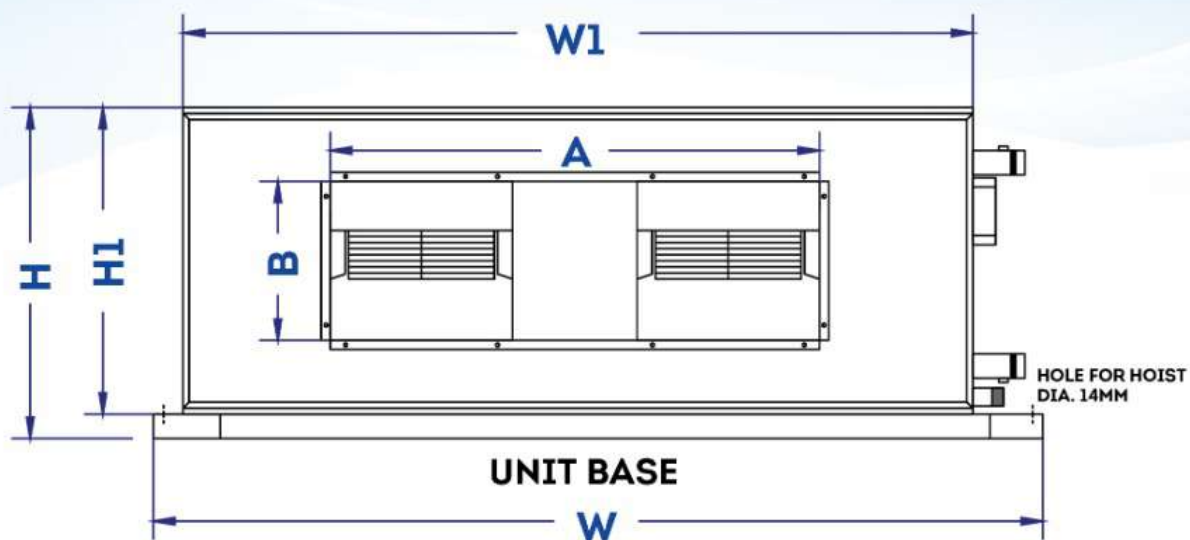
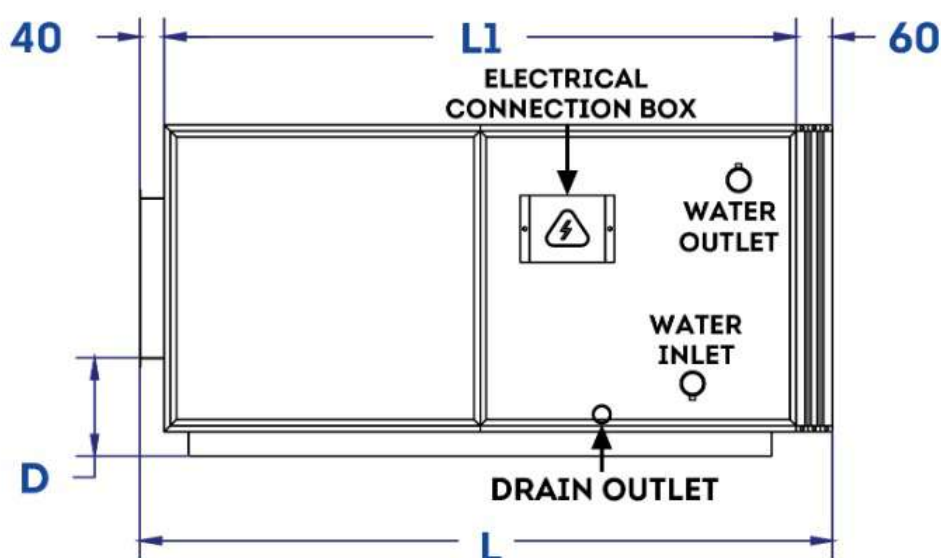


**FRONT VIEW**



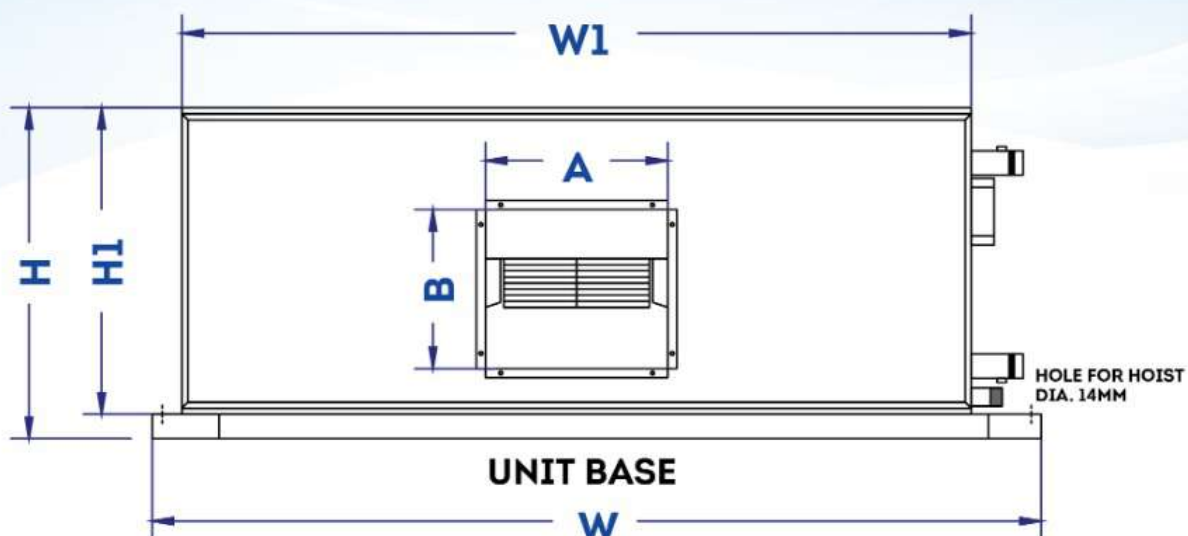
**SIDE VIEW**

| MDF   | W   | H   | L   | W1  | H1  | L1  | A   | B   | D  | RETURN AIR FLANGE<br>( LENGTH X WIDTH ) | FRESH AIR FLANGE<br>( LENGTH X WIDTH ) |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----------------------------------------|----------------------------------------|
| 600C  | 717 | 545 | 900 | 553 | 505 | 800 | 300 | 262 | 88 | 493 X 445                               | 300 X 262                              |
| 800C  | 757 | 545 | 900 | 553 | 505 | 800 | 300 | 262 | 88 | 533 X 445                               | 300 X 262                              |
| 1000C | 877 | 545 | 900 | 713 | 505 | 800 | 300 | 262 | 88 | 653 X 445                               | 300 X 262                              |
| 1300C | 907 | 620 | 900 | 743 | 580 | 800 | 300 | 262 | 88 | 683 X 520                               | 300 X 262                              |
| 1500C | 997 | 620 | 900 | 833 | 580 | 800 | 300 | 262 | 88 | 773 X 520                               | 300 X 262                              |

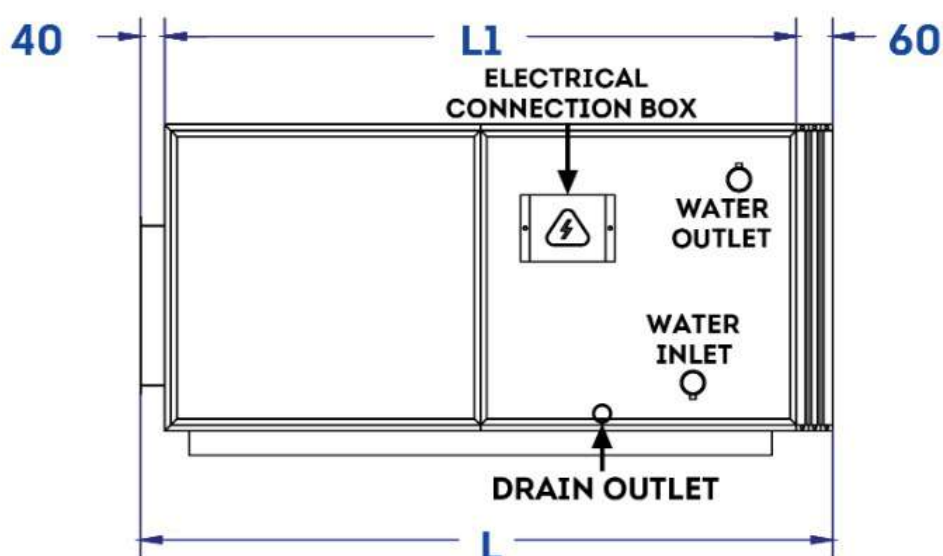
**MODEL: MDF 2000C - 3500C (3 SPEEDS)**

**FRONT VIEW**

**SIDE VIEW**

| MDF   | W    | H   | L   | W1   | H1  | L1  | A   | B   | D   | RETURN AIR FLANGE<br>( LENGTH X WIDTH ) | FRESH AIR FLANGE<br>( LENGTH X WIDTH ) |
|-------|------|-----|-----|------|-----|-----|-----|-----|-----|-----------------------------------------|----------------------------------------|
| 2000C | 1217 | 620 | 950 | 1053 | 580 | 850 | 805 | 262 | 88  | 993 X 520                               | 805 X 262                              |
| 2500C | 1437 | 620 | 950 | 1273 | 580 | 850 | 930 | 262 | 89  | 1213 X 520                              | 930 X 262                              |
| 3000C | 1497 | 620 | 950 | 1333 | 580 | 850 | 970 | 289 | 234 | 1273 X 520                              | 970 X 289                              |
| 3500C | 1687 | 680 | 950 | 1523 | 640 | 850 | 970 | 289 | 234 | 1463 X 580                              | 970 X 289                              |

## MODEL: MDF 2000B - 2500B (BELT DRIVEN)



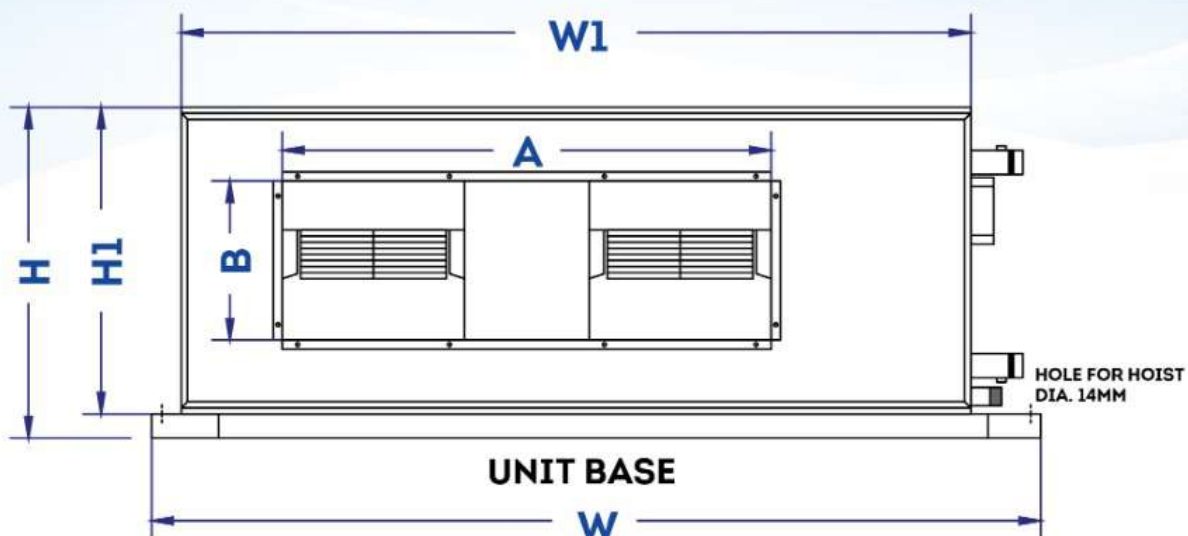
**FRONT VIEW**



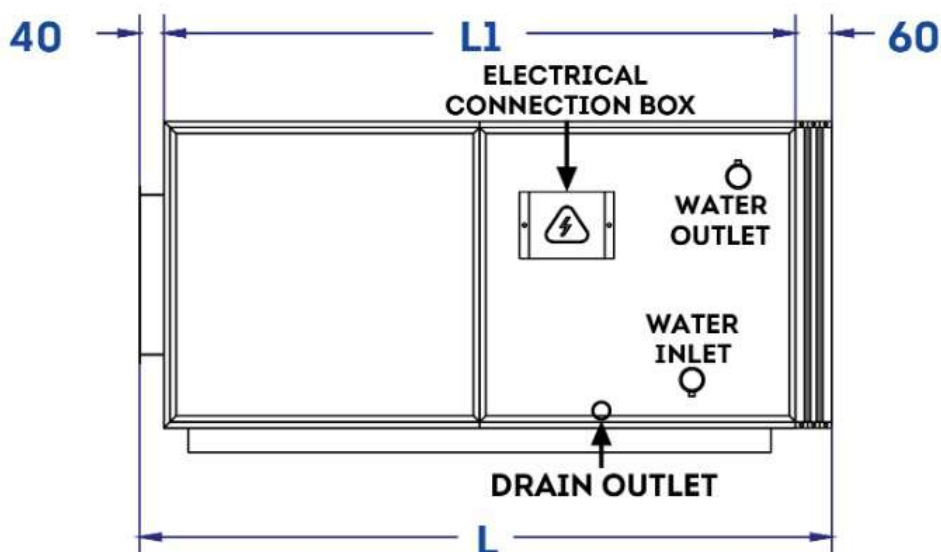
**SIDE VIEW**

| MDF   | W    | H   | L   | W1   | H1  | L1  | A   | B   | RETURN AIR FLANGE<br>( LENGTH X WIDTH ) | FRESH AIR FLANGE<br>( LENGTH X WIDTH ) |
|-------|------|-----|-----|------|-----|-----|-----|-----|-----------------------------------------|----------------------------------------|
| 2000B | 1217 | 620 | 950 | 1053 | 580 | 850 | 302 | 264 | 993 X 520                               | 302 X 264                              |
| 2500B | 1437 | 620 | 950 | 1273 | 580 | 850 | 330 | 290 | 1213 X 520                              | 330 X 290                              |

## MODEL: MDF 3000B - 8000B (BELT DRIVEN)



**FRONT VIEW**



**SIDE VIEW**

| MDF   | W    | H   | L    | W1   | H1  | L1   | A    | B   | RETURN AIR FLANGE<br>( LENGTH X WIDTH ) | FRESH AIR FLANGE<br>( LENGTH X WIDTH ) |
|-------|------|-----|------|------|-----|------|------|-----|-----------------------------------------|----------------------------------------|
| 3000B | 1497 | 620 | 950  | 1333 | 580 | 850  | 652  | 264 | 1273 X 520                              | 652 X 264                              |
| 3500B | 1687 | 680 | 950  | 1523 | 640 | 850  | 840  | 264 | 1463 X 580                              | 840 X 264                              |
| 4000B | 1817 | 680 | 950  | 1653 | 640 | 850  | 930  | 291 | 1593 X 670                              | 930 X 291                              |
| 5000B | 1817 | 770 | 950  | 1653 | 730 | 850  | 930  | 291 | 1593 X 670                              | 930 X 291                              |
| 5500B | 1857 | 770 | 950  | 1693 | 730 | 850  | 930  | 291 | 1633 X 670                              | 930 X 291                              |
| 6500B | 2097 | 770 | 1050 | 1933 | 730 | 950  | 864  | 343 | 1873 X 670                              | 864 X 343                              |
| 7500B | 2197 | 830 | 1050 | 2033 | 790 | 950  | 1114 | 343 | 1973 X 730                              | 1114 X 343                             |
| 8000B | 2157 | 930 | 1150 | 1993 | 890 | 1050 | 1044 | 404 | 1593 X 830                              | 1044 X 404                             |

# NOTE





**MICRONAIRE GLOBAL SDN BHD**

Office No: 03-3122 8863  
Website: [www.macglobal.com.my](http://www.macglobal.com.my)

Office Fax: 03-5192 6626  
Enquiry: [sales@macglobal.com.my](mailto:sales@macglobal.com.my)

MC6-2022-01A