

Ceiling & floor

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1 Specifications

MI2-36DLH1 / MI2-45DLH1 / MI2-56DLH1 / MI2-71DLH1

Table 1.1: MI2-36(45,56,71)DLH1 specifications

| Model | | | MI2-36DLH1 | MI2-45DLH1 | MI2-56DLH1 | MI2-71DLH1 |
|-----------------------------------|-------------------------------------|-------------------|---------------------------------|--|-----------------------------|--|
| Power supply | | | 1 phase, 220-240V, 50/60Hz | | | |
| Cooling ¹ | Capacity | kW | 3.6 | 4.5 | 5.6 | 7.1 |
| | | kBtu/h | 12.3 | 15.4 | 19.1 | 24.2 |
| | Power input | W | 49 | 115 | 115 | 115 |
| Heating ² | Capacity | kW | 4.0 | 5.0 | 6.3 | 8.0 |
| | | kBtu/h | 13.6 | 17.1 | 21.5 | 27.3 |
| | Power input | W | 49 | 115 | 115 | 115 |
| Fan motor | Model | | WZDK100-38GS-2 | | | |
| | Type | | DC | | | |
| | Brand | | Panasonic/Match-Well | | | |
| | Speed ³ | r/min | 770/740/700/680 /650/630/610 | 1380/1330/1300/1260/ 1210/1140/1070 | | 1380/1340/1300/12 60/1190/1140/1120 |
| Indoor coil | Number of rows | | 2 | 3 | 3 | 3 |
| | Tube pitch × row pitch | mm | 25.4×22 | | | |
| | Fin spacing | mm | 1.8 | | | |
| | Fin type | | Hydrophilic aluminum | | | |
| | Tube OD and type | mm | Φ9.52 Inner-groove | | | |
| | Dimensions (L×H×W) | mm | 804×254×44 | 804×254×66 | 804×254×66 | |
| | Number of circuits | | 3 | | | |
| Air flow rate ³ | | m ³ /h | 550/525/500/480/460/440/420 | | 930/895/860/830/792/755/720 | |
| Sound pressure level ⁴ | | dB(A) | 40/39/38/38/37/36/36 | | 43/42/41/41/39/38/38 | |
| Unit | Net dimensions ⁵ (W×H×D) | | 990×660×203 | | | |
| | Packed dimensions (W×H×D) | | 1089×744×296 | | | |
| | Net/Gross weight | | 26/32 | | 28/34 | |
| Refrigerant type | | | R410A | | | |
| Throttle | Type | | Electronic expansion valve | | | |
| | Model | | D20MISZ-1R(L) | | | |
| Design pressure (H/L) | | MPa | 4.4/2.6 | | | |
| Pipe connections | Liquid/Gas pipe | | Φ6.35/Φ12.7 | | Φ9.53/Φ15.9 | |
| | Drain pipe | | OD Φ16 | | | |

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Table 1.2: MI2-80(90,112,140)DL DHN1 specifications

| Model | | | MI2-80DL DHN1 | MI2-90DL DHN1 | MI2-112DL DHN1 | MI2-140DL DHN1 |
|-----------------------------------|--|-------------------|------------------------------------|---------------|------------------------------------|----------------|
| Power supply | | | 1 phase, 220-240V, 50/60Hz | | | |
| Cooling ¹ | Capacity | kW | 8.0 | 9.0 | 11.2 | 14.0 |
| | | kBtu/h | 27.2 | 30.7 | 38.2 | 47.8 |
| | Power input | W | 130 | 130 | 180 | 180 |
| Heating ² | Capacity | kW | 9.0 | 10.0 | 12.5 | 15.0 |
| | | kBtu/h | 30.7 | 34.1 | 42.7 | 51.2 |
| | Power input | W | 130 | 130 | 180 | 180 |
| Fan motor | Model | | WZDK100-38GS-1 | | WZDK100-38GS-2 | |
| | Type | | DC | | DC | |
| | Brand | | Panasonic/Match-Well | | | |
| | Speed ³ | r/min | 1300/1270/1230/1200/1160/1120/1090 | | 1140/1090/1060/1040/1010/990/970 | |
| Indoor coil | Number of rows | | 3 | | | |
| | Tube pitch × row pitch | mm | 25.4×22 | | | |
| | Fin spacing | mm | 1.8 | | | |
| | Fin type | | Hydrophilic aluminum | | | |
| | Tube OD and type | mm | Φ9.52 Inner-groove | | | |
| | Dimensions (L×H×W) | mm | 1094×254×66 | | 1360×254×66 | |
| | Number of circuits | | 5 | | | |
| Air flow rate ³ | | m ³ /h | 1280/1245/1210/1170/1130/1085/1050 | | 1890/1830/1765/1700/1660/1620/1580 | |
| Sound pressure level ⁴ | | dB(A) | 45/44/43/43/42/41/40 | | 47/46/45/45/44/43/42 | |
| Unit | Net dimensions ⁵ (W×H×D) | | mm | 1280×660×203 | | 1670×680×244 |
| | Packed dimensions (W×H×D) | | mm | 1379×744×296 | | 1915×760×330 |
| | Net/Gross weight | | kg | 35/41 | | 48/58 |
| Refrigerant type | | | R410A | | | |
| Throttle | Type | | Electronic expansion valve | | | |
| | Model | | BD24FKS(L) | | | |
| Design pressure (H/L) | | MPa | 4.4/2.6 | | | |
| Pipe connections | Liquid/Gas pipe | | mm | Φ9.53/Φ15.9 | | |
| | Drain pipe | | mm | OD Φ16 | | |

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

2 Dimensions

2.1 Unit Dimensions

Figure 2.1: Ceiling & floor dimensions (unit: mm)

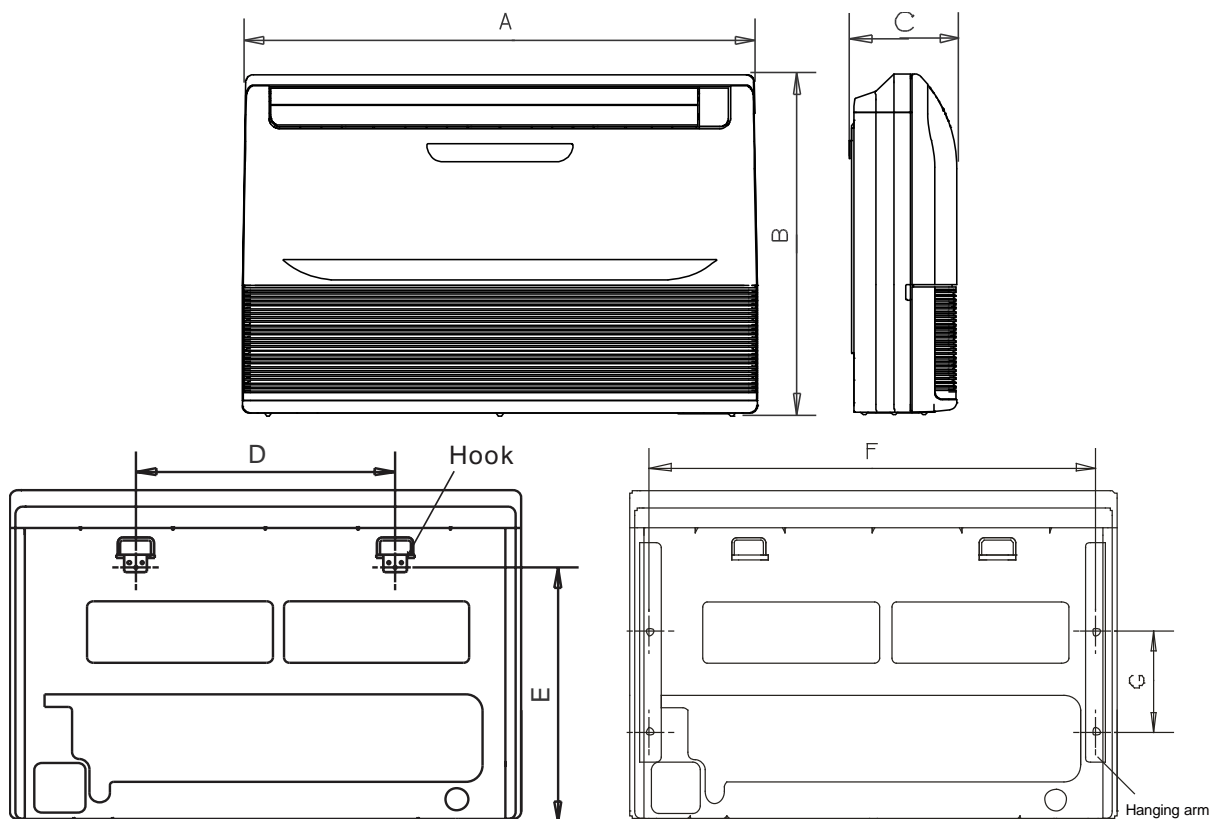


Table 2.1: Ceiling & floor dimensions

| Model | Dimensions (mm) | | | | | | |
|--|-----------------|-----|-----|------|-----|------|-----|
| | A | B | C | D | E | F | G |
| MI2-36DLH1 MI2-45DLH1 MI2-71DLH1 | 990 | 660 | 203 | 505 | 506 | 907 | 200 |
| MI2-80DLH1 MI2-90DLH1 | 1280 | 660 | 203 | 795 | 506 | 1195 | 200 |
| MI2-112DLH1 MI2-140DLH1 | 1670 | 680 | 244 | 1070 | 450 | 1542 | 200 |

Table 2.2: Ceiling & floor piping connections

| Model | Gas pipe (mm) | Liquid pipe (mm) |
|--|---------------|------------------|
| MI2-36DLH1 MI2-45DLH1 | Φ12.7 | Φ6.35 |
| MI2-71DLH1 MI2-80DLH1 MI2-90DLH1 MI2-112DLH1 MI2-140DLH1 | Φ15.9 | Φ9.53 |

3 Unit Placement

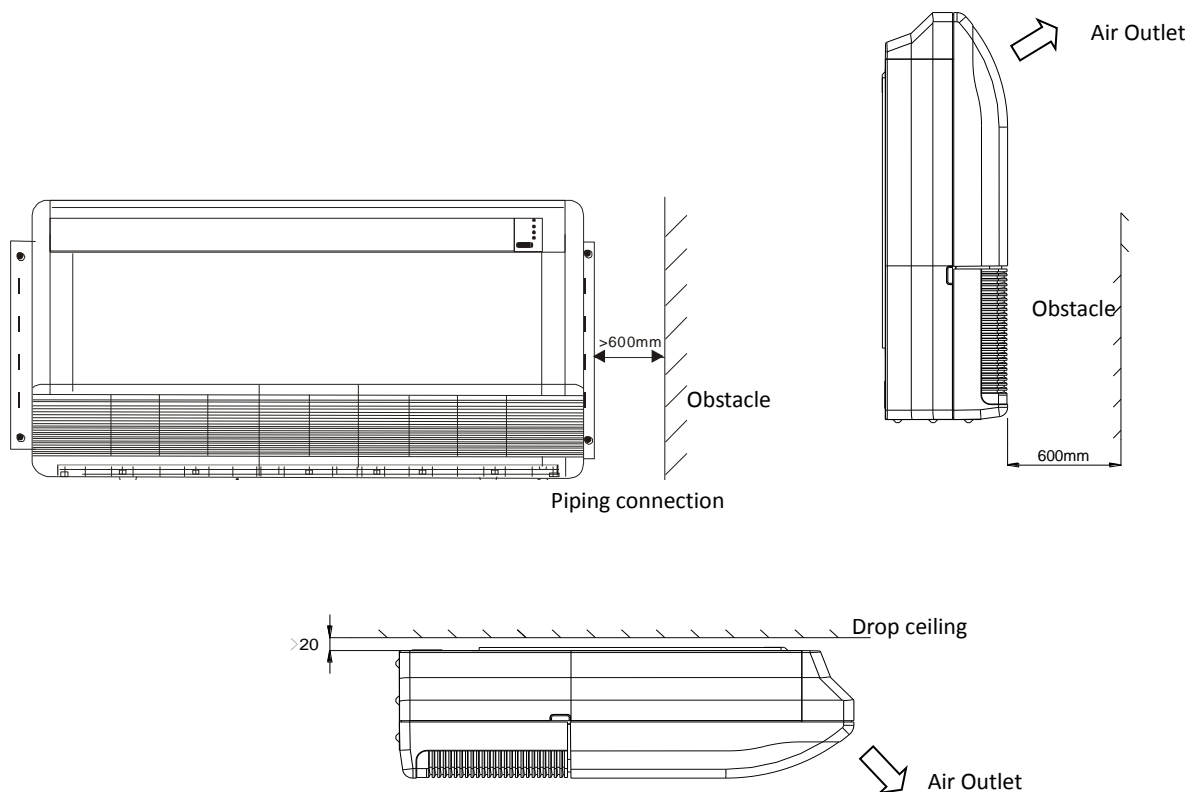
3.1 Placement Considerations

Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
 - Where exposure to direct radiation from a high-temperature heat source or to interference from a source of electromagnetic radiation may occur.
 - Where dust or dirt may affect heat exchangers.
 - Where exposure to oil or to corrosive or harmful gases, such as acidic or alkaline gases, may occur.
 - Where exposure to salinity may occur, such as seaside locations.
 - Where highly flammable materials are present.
 - Where exposure to oily air may occur, such as a kitchen.
 - Where exposure to very high humidity may occur, such as a laundry.
- Units should be installed in positions where:
 - The ceiling is horizontal and is able to bear the unit's weight.
 - There are no obstructions that could impede the airflow into and out of the unit.
 - The airflow out of the unit can reach throughout the room.
 - There is sufficient space for access during installation, servicing and maintenance.
 - The refrigerant piping and drain piping can be easily connected to the refrigerant piping and drain piping systems.
 - Short-circuit ventilation (where outlet air returns quickly to a unit's air inlet) will not occur.

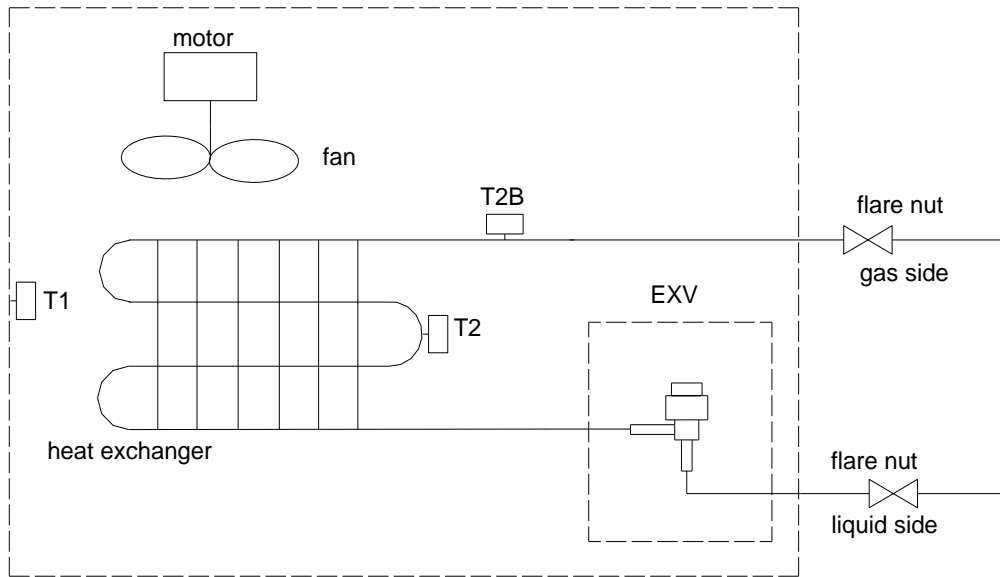
3.2 Space Requirements

Figure 3.1: Ceiling & floor space requirements (unit: mm)



4 Piping Diagram

Figure 4.1: Ceiling & floor piping diagram



| Legend | |
|--------|--|
| T1 | Indoor ambient temperature sensor |
| T2 | Indoor heat exchanger mid-point temperature sensor |
| T2B | Indoor heat exchanger outlet temperature sensor |

The 2nd Generation DC Series VRF Indoor Units

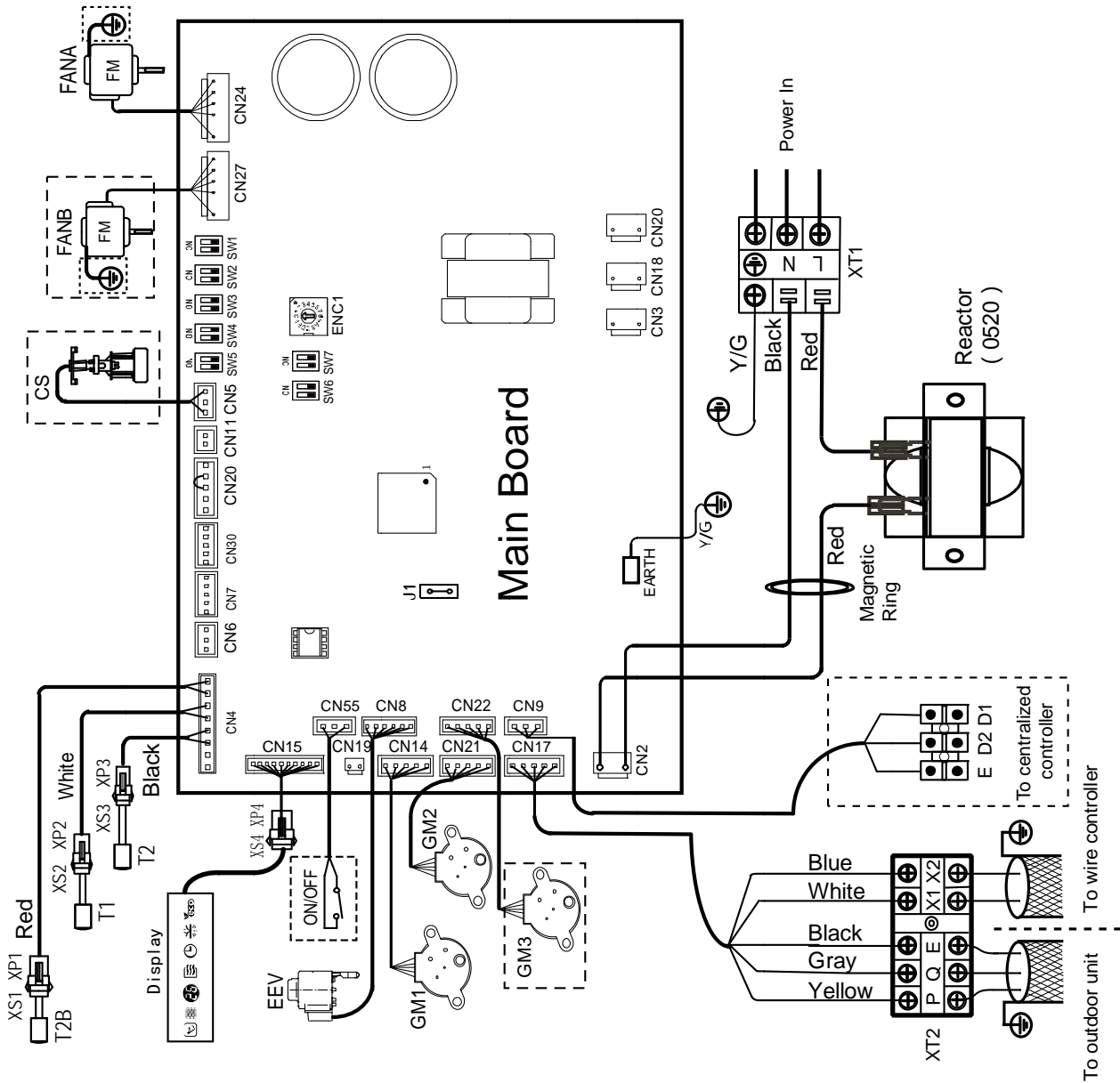


5 Wiring Diagram

Figure 5.1: Ceiling & floor wiring diagram

| Code | Title |
|-------|----------------------------|
| FM | Indoor fan motor |
| PUMP | Pump motor |
| T1 | Room temp. sensor |
| T2B | Outlet pipe temp. sensor |
| T2 | Middle pipe temp. sensor |
| EEV | Electronic expansion valve |
| XT1-2 | Terminal |
| GM1-3 | Swing motor |
| CS | Water level switch |
| XP1-5 | Connectors |
| XS1-5 | |

| ENC1 | Toggle Switch Code | Set horsepower Capacity |
|------|--------------------|-------------------------|
| | 0 | 2200W |
| | 1 | 2800W |
| | 2 | 3600W |
| | 3 | 4500W |
| | 4 | 5600W |
| | 5 | 7100W |
| | 6 | 8000W |
| | 7 | 9000W |
| | 8 | 10000W |
| | 9 | 11200W |
| A | 12500W | |
| B | 14000W | |



Notes for installers and service engineers **Caution**

- All installation, servicing and maintenance must be carried out by competent and suitably qualified, certified and accredited professionals and in accordance with all applicable legislation.
- Units should be grounded in accordance with all applicable legislation. Metal and other conductive components should be insulated in accordance with all applicable legislation.
- Power supply wiring should be securely fastened at the power supply terminals – loose power supply wiring would represent a fire risk.
- After installation, servicing or maintenance, the electric control box cover should be closed. Failing to close the electric control box cover risks fire or electric shock.
- Switch ENC1 (indoor unit capacity setting) is factory-set and its setting should normally not be changed. The only circumstances in which a switch ENC1 might need to be set in the field is when replacing a main PCB. When replacing a main PCB, ensure that the capacity setting on switch ENC1 on the new PCB is consistent with the unit capacity given on the unit's nameplate.

6 Capacity Tables

6.1 Cooling Capacity Table

Table 6.1: Ceiling & floor cooling capacity

| Capacity (kW) | Outdoor air temperature (°C DB) | Indoor air temperature (°C WB/DB) | | | | | | | | | | | | | |
|---------------|---------------------------------|-----------------------------------|-----|-------|-----|-------|-----|------------|-----|-------|-----|-------|-----|-------|-----|
| | | 14/20 | | 16/23 | | 18/26 | | 19/27 | | 20/28 | | 22/30 | | 24/32 | |
| | | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC |
| | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 3.6 | 10.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.3 | 2.4 | 4.7 | 2.5 |
| | 12.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.3 | 2.4 | 4.7 | 2.5 |
| | 14.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.3 | 2.4 | 4.6 | 2.4 |
| | 16.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.3 | 2.4 | 4.5 | 2.4 |
| | 18.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.3 | 2.4 | 4.5 | 2.4 |
| | 20.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.3 | 2.4 | 4.4 | 2.3 |
| | 21.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.3 | 2.4 | 4.4 | 2.3 |
| | 23.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.1 | 2.3 | 4.3 | 2.2 |
| | 25.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.1 | 2.3 | 4.2 | 2.2 |
| | 27.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.0 | 2.2 | 4.2 | 2.2 |
| | 29.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.0 | 2.2 | 4.1 | 2.2 |
| | 31.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.2 | 2.6 | 4.1 | 2.2 |
| | 33.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.2 | 2.6 | 3.9 | 2.1 |
| | 35.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.8 | 2.5 | 4.2 | 2.6 | 3.9 | 2.1 |
| | 37.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 3.8 | 2.3 | 3.9 | 2.1 |
| | 39.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 3.8 | 2.3 | 3.8 | 2.1 |
| 42.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 3.8 | 2.3 | 3.8 | 2.1 | |
| 44.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 3.8 | 2.3 | 3.8 | 2.1 | |
| 46.0 | 2.5 | 1.9 | 2.9 | 2.1 | 3.4 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 3.8 | 2.3 | 3.8 | 2.1 | |
| 4.5 | 10.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.9 | 3.0 |
| | 12.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.9 | 3.0 |
| | 14.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.8 | 3.0 |
| | 16.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.6 | 2.9 |
| | 18.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.7 | 3.0 |
| | 20.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.7 | 3.0 |
| | 21.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.6 | 3.0 |
| | 23.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.3 | 3.4 | 5.5 | 3.0 |
| | 25.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.2 | 3.0 | 5.4 | 2.9 |
| | 27.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.1 | 3.0 | 5.2 | 2.8 |
| | 29.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.1 | 2.9 | 5.2 | 2.8 |
| | 31.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.0 | 2.9 | 5.1 | 2.7 |
| | 33.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 4.9 | 2.8 | 5.1 | 2.7 |
| | 35.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 4.8 | 2.8 | 5.0 | 2.7 |
| | 37.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 4.8 | 2.9 | 4.9 | 2.6 |
| | 39.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.6 | 2.8 | 4.7 | 2.8 | 4.8 | 2.6 |
| 42.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.6 | 2.8 | 4.7 | 2.8 | 4.8 | 2.6 | |
| 44.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.6 | 2.8 | 4.7 | 2.8 | 4.8 | 2.6 | |
| 46.0 | 3.1 | 2.4 | 3.7 | 2.6 | 4.2 | 2.8 | 4.5 | 2.9 | 4.6 | 2.8 | 4.7 | 3.1 | 4.8 | 2.6 | |

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 6.1: Four-way Cassette cooling capacity (continued)

| Capacity (kW) | Outdoor air temperature (°C DB) | Indoor air temperature (°C WB/DB) | | | | | | | | | | | | | |
|------------------|---------------------------------------|-----------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| | | 14/20 | | 16/23 | | 18/26 | | 19/27 | | 20/28 | | 22/30 | | 24/32 | |
| | | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC |
| | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 5.6 | 10.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 7.3 | 3.5 |
| | 12.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 7.2 | 3.5 |
| | 14.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 7.1 | 3.5 |
| | 16.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 7.0 | 3.4 |
| | 18.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 6.8 | 3.4 |
| | 20.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 6.7 | 3.3 |
| | 21.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 6.6 | 3.3 |
| | 23.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 6.6 | 3.3 |
| | 25.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.6 | 3.6 | 6.5 | 3.2 |
| | 27.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.4 | 3.5 | 6.4 | 3.2 |
| | 29.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.3 | 3.5 | 6.4 | 3.3 |
| | 31.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.2 | 3.4 | 6.2 | 3.2 |
| | 33.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.2 | 3.4 | 6.2 | 3.2 |
| | 35.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 6.0 | 3.3 | 6.0 | 3.1 |
| | 37.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.9 | 3.5 | 5.9 | 3.2 | 6.0 | 3.1 |
| | 39.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.7 | 3.4 | 5.8 | 3.2 | 6.0 | 3.1 |
| | 42.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.7 | 3.4 | 5.8 | 3.2 | 6.0 | 3.1 |
| 44.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.7 | 3.4 | 5.8 | 3.2 | 6.0 | 3.1 | |
| 46.0 | 3.9 | 2.7 | 4.6 | 3.0 | 5.3 | 3.3 | 5.6 | 3.4 | 5.7 | 3.7 | 5.8 | 3.2 | 6.0 | 3.1 | |
| 7.1 | 10.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 9.2 | 4.6 |
| | 12.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 9.1 | 4.5 |
| | 14.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 9.0 | 4.5 |
| | 16.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 8.9 | 4.4 |
| | 18.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 8.7 | 4.3 |
| | 20.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 8.5 | 4.2 |
| | 21.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 8.4 | 4.2 |
| | 23.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 8.3 | 4.1 |
| | 25.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.4 | 4.5 | 8.2 | 4.1 |
| | 27.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.4 | 8.1 | 4.3 | 8.2 | 4.1 |
| | 29.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.5 | 8.0 | 4.3 | 8.1 | 4.1 |
| | 31.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.5 | 7.9 | 4.3 | 7.8 | 4.0 |
| | 33.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.5 | 7.8 | 4.2 | 7.8 | 4.0 |
| | 35.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.5 | 4.5 | 7.6 | 4.1 | 7.7 | 3.9 |
| | 37.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.4 | 4.4 | 7.5 | 4.1 | 7.6 | 4.0 |
| | 39.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.2 | 4.3 | 7.4 | 4.1 | 7.6 | 4.0 |
| | 42.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.2 | 4.3 | 7.4 | 4.1 | 7.6 | 4.0 |
| 44.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.2 | 4.3 | 7.4 | 4.1 | 7.6 | 4.0 | |
| 46.0 | 4.9 | 3.6 | 5.8 | 4.0 | 6.7 | 4.3 | 7.1 | 4.5 | 7.2 | 4.3 | 7.4 | 4.1 | 7.6 | 4.0 | |

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

Table continued on next page ...

The 2nd Generation DC Series VRF Indoor Units



Table 6.1: Ceiling & floor cooling capacity (continued)

| Capacity (kW) | Outdoor air temperature (°C DB) | Indoor air temperature (°C WB/DB) | | | | | | | | | | | | | |
|------------------|---------------------------------------|-----------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| | | 14/20 | | 16/23 | | 18/26 | | 19/27 | | 20/28 | | 22/30 | | 24/32 | |
| | | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC |
| | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 8.0 | 10.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 10.4 | 5.6 |
| | 12.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 10.2 | 5.5 |
| | 14.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 10.2 | 5.5 |
| | 16.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 10.0 | 5.4 |
| | 18.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 9.8 | 5.3 |
| | 20.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 9.6 | 5.2 |
| | 21.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 9.4 | 5.1 |
| | 23.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 9.4 | 5.1 |
| | 25.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.4 | 5.5 | 9.3 | 5.0 |
| | 27.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.4 | 9.1 | 5.3 | 9.2 | 5.1 |
| | 29.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.5 | 9.0 | 5.3 | 9.1 | 5.0 |
| | 31.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.5 | 8.9 | 5.2 | 8.8 | 4.8 |
| | 33.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.5 | 8.8 | 5.2 | 8.8 | 4.8 |
| | 35.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.4 | 5.5 | 8.6 | 5.1 | 8.6 | 4.8 |
| | 37.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.3 | 5.4 | 8.4 | 5.0 | 8.6 | 4.9 |
| | 39.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.1 | 5.3 | 8.3 | 5.0 | 8.6 | 4.9 |
| 42.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.1 | 5.3 | 8.3 | 5.0 | 8.6 | 4.9 | |
| 44.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.1 | 5.3 | 8.3 | 5.0 | 8.6 | 4.9 | |
| 46.0 | 5.5 | 4.4 | 6.6 | 4.9 | 7.5 | 5.3 | 8.0 | 5.5 | 8.1 | 5.3 | 8.3 | 5.0 | 8.6 | 4.9 | |
| 9.0 | 10.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 11.7 | 6.0 |
| | 12.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 11.5 | 5.9 |
| | 14.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 11.4 | 5.9 |
| | 16.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 11.3 | 5.8 |
| | 18.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 11.0 | 5.8 |
| | 20.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 10.8 | 5.7 |
| | 21.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 10.6 | 5.6 |
| | 23.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 10.5 | 5.5 |
| | 25.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.6 | 6.1 | 10.4 | 5.5 |
| | 27.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.3 | 5.9 | 10.4 | 5.4 |
| | 29.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.1 | 5.7 | 10.3 | 5.4 |
| | 31.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 10.0 | 5.7 | 9.9 | 5.3 |
| | 33.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.6 | 6.0 | 9.9 | 5.6 | 9.9 | 5.3 |
| | 35.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.5 | 6.0 | 9.6 | 5.5 | 9.7 | 5.3 |
| | 37.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.3 | 5.8 | 9.5 | 5.4 | 9.6 | 5.3 |
| | 39.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.2 | 5.7 | 9.4 | 5.3 | 9.6 | 5.3 |
| 42.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.2 | 5.7 | 9.4 | 5.3 | 9.6 | 5.3 | |
| 44.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.2 | 5.7 | 9.4 | 5.3 | 9.6 | 5.3 | |
| 46.0 | 6.2 | 4.9 | 7.3 | 5.3 | 8.4 | 5.8 | 9.0 | 5.9 | 9.2 | 5.7 | 9.4 | 5.3 | 9.6 | 5.3 | |

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 6.1: Ceiling & floor cooling capacity (continued)

| Capacity (kW) | Outdoor air temperature (°C DB) | Indoor air temperature (°C WB/DB) | | | | | | | | | | | | | |
|------------------|---------------------------------------|-----------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|
| | | 14/20 | | 16/23 | | 18/26 | | 19/27 | | 20/28 | | 22/30 | | 24/32 | |
| | | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC | TC | SC |
| | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 11.2 | 10.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.3 | 7.6 | 15.5 | 8.2 |
| | 12.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.3 | 7.6 | 14.4 | 7.7 |
| | 14.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.3 | 7.6 | 14.2 | 7.6 |
| | 16.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.3 | 7.6 | 14.1 | 7.5 |
| | 18.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.3 | 7.6 | 14.0 | 7.5 |
| | 20.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.3 | 7.6 | 13.9 | 7.4 |
| | 21.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.3 | 7.6 | 13.8 | 7.4 |
| | 23.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.1 | 7.5 | 13.7 | 7.3 |
| | 25.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 13.0 | 7.4 | 13.6 | 7.2 |
| | 27.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 12.9 | 7.3 | 13.4 | 7.2 |
| | 29.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 12.8 | 7.3 | 13.3 | 7.2 |
| | 31.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 12.7 | 7.2 | 12.8 | 6.9 |
| | 33.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.9 | 7.4 | 12.5 | 7.2 | 12.5 | 6.8 |
| | 35.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.8 | 7.4 | 12.4 | 7.1 | 12.3 | 6.7 |
| | 37.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.6 | 7.3 | 12.3 | 7.0 | 12.1 | 6.6 |
| | 39.0 | 7.7 | 5.9 | 9.1 | 6.5 | 10.5 | 7.1 | 11.2 | 7.2 | 11.4 | 7.1 | 12.2 | 7.0 | 11.9 | 6.6 |
| 42.0 | 7.7 | 6.0 | 9.1 | 6.6 | 10.4 | 7.2 | 11.2 | 7.3 | 11.4 | 7.1 | 11.6 | 6.6 | 12.0 | 6.6 | |
| 44.0 | 7.7 | 6.0 | 9.1 | 6.6 | 10.4 | 7.2 | 11.2 | 7.3 | 11.4 | 7.1 | 11.6 | 6.6 | 12.0 | 6.6 | |
| 46.0 | 7.7 | 6.0 | 9.1 | 6.6 | 10.4 | 7.2 | 11.2 | 7.3 | 11.4 | 7.1 | 11.6 | 6.6 | 12.0 | 6.6 | |
| 14.0 | 10.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.7 | 9.3 | 18.2 | 9.4 |
| | 12.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.7 | 9.3 | 17.9 | 9.2 |
| | 14.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.7 | 9.3 | 17.8 | 9.2 |
| | 16.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.7 | 9.3 | 17.5 | 9.0 |
| | 18.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.7 | 9.3 | 17.1 | 8.8 |
| | 20.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.7 | 9.3 | 16.8 | 8.7 |
| | 21.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.7 | 9.3 | 16.5 | 8.5 |
| | 23.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.4 | 9.3 | 16.4 | 8.4 |
| | 25.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.2 | 9.3 | 16.2 | 8.4 |
| | 27.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.1 | 9.2 | 16.1 | 8.4 |
| | 29.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 16.0 | 9.1 | 16.0 | 8.4 |
| | 31.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 15.8 | 9.0 | 15.4 | 8.1 |
| | 33.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.8 | 9.0 | 15.7 | 8.9 | 15.4 | 8.1 |
| | 35.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.7 | 8.9 | 15.1 | 8.6 | 15.1 | 8.1 |
| | 37.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.6 | 8.8 | 15.1 | 8.6 | 15.0 | 8.0 |
| | 39.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.3 | 8.7 | 14.6 | 8.4 | 15.0 | 8.1 |
| 42.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.3 | 8.7 | 14.6 | 8.4 | 15.0 | 8.1 | |
| 44.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.3 | 8.7 | 14.6 | 8.4 | 15.0 | 8.1 | |
| 46.0 | 9.7 | 7.2 | 11.3 | 7.9 | 13.2 | 8.8 | 14.0 | 9.0 | 14.3 | 8.7 | 14.6 | 8.4 | 15.0 | 8.1 | |

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

The 2nd Generation DC Series VRF Indoor Units



6.2 Heating Capacity Table

Table 6.2: Ceiling & floor heating capacity

| Capacity (kW) | Outdoor air temperature (°C) | | Indoor air temperature (°C DB) | | | | | |
|---------------|------------------------------|--------|--------------------------------|------|------|------|------|------|
| | | | 16 | 18 | 20 | 21 | 22 | 24 |
| | WB | DB | TC | TC | TC | TC | TC | TC |
| 3.6 | -20 | -19.8 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 |
| | -19 | -18.8 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 |
| | -17 | -16.7 | 2.52 | 2.52 | 2.52 | 2.52 | 2.52 | 2.52 |
| | -15 | -14.7 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 |
| | -13.00 | -12.60 | 2.68 | 2.68 | 2.68 | 2.68 | 2.68 | 2.68 |
| | -11.00 | -10.50 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| | -10.00 | -9.50 | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 |
| | -9.10 | -8.50 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| | -7.60 | -7.00 | 3.04 | 3.04 | 3.04 | 3.04 | 3.04 | 3.04 |
| | -5.60 | -5.00 | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 |
| | -3.70 | -3.00 | 3.32 | 3.32 | 3.32 | 3.32 | 3.32 | 3.32 |
| | -0.70 | 0.00 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.36 |
| | 2.20 | 3.00 | 3.76 | 3.76 | 3.76 | 3.76 | 3.68 | 3.36 |
| | 4.10 | 5.00 | 3.88 | 3.88 | 3.88 | 3.88 | 3.68 | 3.36 |
| | 6.00 | 7.00 | 4.00 | 4.00 | 4.00 | 3.88 | 3.68 | 3.36 |
| | 7.90 | 9.00 | 4.12 | 4.12 | 4.00 | 3.88 | 3.68 | 3.36 |
| 9.80 | 11.00 | 4.24 | 4.24 | 4.00 | 3.88 | 3.68 | 3.36 | |
| 11.80 | 13.00 | 4.40 | 4.32 | 4.00 | 3.88 | 3.68 | 3.36 | |
| 13.70 | 15.00 | 4.52 | 4.32 | 4.00 | 3.88 | 3.68 | 3.36 | |
| 4.5 | -20 | -19.8 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| | -19 | -18.8 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| | -17 | -16.7 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 |
| | -15 | -14.7 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| | -13.00 | -12.60 | 3.35 | 3.35 | 3.35 | 3.35 | 3.35 | 3.35 |
| | -11.00 | -10.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| | -10.00 | -9.50 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 |
| | -9.10 | -8.50 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 |
| | -7.60 | -7.00 | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 |
| | -5.60 | -5.00 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 |
| | -3.70 | -3.00 | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 |
| | -0.70 | 0.00 | 4.45 | 4.45 | 4.45 | 4.45 | 4.45 | 4.20 |
| | 2.20 | 3.00 | 4.70 | 4.70 | 4.70 | 4.70 | 4.60 | 4.20 |
| | 4.10 | 5.00 | 4.85 | 4.85 | 4.85 | 4.85 | 4.60 | 4.20 |
| | 6.00 | 7.00 | 5.00 | 5.00 | 5.00 | 4.85 | 4.60 | 4.20 |
| | 7.90 | 9.00 | 5.15 | 5.15 | 5.00 | 4.85 | 4.60 | 4.20 |
| 9.80 | 11.00 | 5.30 | 5.30 | 5.00 | 4.85 | 4.60 | 4.20 | |
| 11.80 | 13.00 | 5.50 | 5.40 | 5.00 | 4.85 | 4.60 | 4.20 | |
| 13.70 | 15.00 | 5.65 | 5.40 | 5.00 | 4.85 | 4.60 | 4.20 | |

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 6.2: Ceiling & floor heating capacity (continued)

| Capacity (kW) | Outdoor air temperature (°C) | | Indoor air temperature (°C DB) | | | | | |
|---------------|------------------------------|--------|--------------------------------|------|-------------|------|------|------|
| | | | 16 | 18 | 20 | 21 | 22 | 24 |
| | | | TC | TC | TC | TC | TC | TC |
| | WB | DB | kW | kW | kW | kW | kW | kW |
| 5.6 | -20 | -19.8 | 3.53 | 3.53 | 3.53 | 3.53 | 3.53 | 3.53 |
| | -19 | -18.8 | 3.78 | 3.78 | 3.78 | 3.78 | 3.78 | 3.78 |
| | -17 | -16.7 | 3.97 | 3.97 | 3.97 | 3.97 | 3.97 | 3.97 |
| | -15 | -14.7 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 |
| | -13.00 | -12.60 | 4.22 | 4.22 | 4.22 | 4.22 | 4.22 | 4.22 |
| | -11.00 | -10.50 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 |
| | -10.00 | -9.50 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 |
| | -9.10 | -8.50 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 |
| | -7.60 | -7.00 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 |
| | -5.60 | -5.00 | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 |
| | -3.70 | -3.00 | 5.23 | 5.23 | 5.23 | 5.23 | 5.23 | 5.23 |
| | -0.70 | 0.00 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.29 |
| | 2.20 | 3.00 | 5.92 | 5.92 | 5.92 | 5.92 | 5.80 | 5.29 |
| | 4.10 | 5.00 | 6.11 | 6.11 | 6.11 | 6.11 | 5.80 | 5.29 |
| | 6.00 | 7.00 | 6.30 | 6.30 | 6.30 | 6.11 | 5.80 | 5.29 |
| | 7.90 | 9.00 | 6.49 | 6.49 | 6.30 | 6.11 | 5.80 | 5.29 |
| 9.80 | 11.00 | 6.68 | 6.68 | 6.30 | 6.11 | 5.80 | 5.29 | |
| 11.80 | 13.00 | 6.93 | 6.80 | 6.30 | 6.11 | 5.80 | 5.29 | |
| 13.70 | 15.00 | 7.12 | 6.80 | 6.30 | 6.11 | 5.80 | 5.29 | |
| 7.1 | -20 | -19.8 | 4.48 | 4.48 | 4.48 | 4.48 | 4.48 | 4.48 |
| | -19 | -18.8 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 |
| | -17 | -16.7 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 |
| | -15 | -14.7 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 |
| | -13.00 | -12.60 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 |
| | -11.00 | -10.50 | 5.60 | 5.60 | 5.60 | 5.60 | 5.60 | 5.60 |
| | -10.00 | -9.50 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 |
| | -9.10 | -8.50 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| | -7.60 | -7.00 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 |
| | -5.60 | -5.00 | 6.32 | 6.32 | 6.32 | 6.32 | 6.32 | 6.32 |
| | -3.70 | -3.00 | 6.64 | 6.64 | 6.64 | 6.64 | 6.64 | 6.64 |
| | -0.70 | 0.00 | 7.12 | 7.12 | 7.12 | 7.12 | 7.12 | 6.72 |
| | 2.20 | 3.00 | 7.52 | 7.52 | 7.52 | 7.52 | 7.36 | 6.72 |
| | 4.10 | 5.00 | 7.76 | 7.76 | 7.76 | 7.76 | 7.36 | 6.72 |
| | 6.00 | 7.00 | 8.00 | 8.00 | 8.00 | 7.76 | 7.36 | 6.72 |
| | 7.90 | 9.00 | 8.24 | 8.24 | 8.00 | 7.76 | 7.36 | 6.72 |
| 9.80 | 11.00 | 8.48 | 8.48 | 8.00 | 7.76 | 7.36 | 6.72 | |
| 11.80 | 13.00 | 8.80 | 8.64 | 8.00 | 7.76 | 7.36 | 6.72 | |
| 13.70 | 15.00 | 9.04 | 8.64 | 8.00 | 7.76 | 7.36 | 6.72 | |

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

Table continued on next page ...

The 2nd Generation DC Series VRF Indoor Units



Table 6.2: Ceiling & floor heating capacity (continued)

| Capacity (kW) | Outdoor air temperature (°C) | | Indoor air temperature (°C DB) | | | | | |
|---------------|------------------------------|--------|--------------------------------|-------|-------|------|------|------|
| | | | 16 | 18 | 20 | 21 | 22 | 24 |
| | WB | DB | TC | TC | TC | TC | TC | TC |
| 8.0 | -20 | -19.8 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 |
| | -19 | -18.8 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 |
| | -17 | -16.7 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 |
| | -15 | -14.7 | 5.85 | 5.85 | 5.85 | 5.85 | 5.85 | 5.85 |
| | -13.00 | -12.60 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 |
| | -11.00 | -10.50 | 6.30 | 6.30 | 6.30 | 6.30 | 6.30 | 6.30 |
| | -10.00 | -9.50 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 |
| | -9.10 | -8.50 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 |
| | -7.60 | -7.00 | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 |
| | -5.60 | -5.00 | 7.11 | 7.11 | 7.11 | 7.11 | 7.11 | 7.11 |
| | -3.70 | -3.00 | 7.47 | 7.47 | 7.47 | 7.47 | 7.47 | 7.47 |
| | -0.70 | 0.00 | 8.01 | 8.01 | 8.01 | 8.01 | 8.01 | 7.56 |
| | 2.20 | 3.00 | 8.46 | 8.46 | 8.46 | 8.46 | 8.28 | 7.56 |
| | 4.10 | 5.00 | 8.73 | 8.73 | 8.73 | 8.73 | 8.28 | 7.56 |
| | 6.00 | 7.00 | 9.00 | 9.00 | 9.00 | 8.73 | 8.28 | 7.56 |
| | 7.90 | 9.00 | 9.27 | 9.27 | 9.00 | 8.73 | 8.28 | 7.56 |
| 9.80 | 11.00 | 9.54 | 9.54 | 9.00 | 8.73 | 8.28 | 7.56 | |
| 11.80 | 13.00 | 9.90 | 9.72 | 9.00 | 8.73 | 8.28 | 7.56 | |
| 13.70 | 15.00 | 10.17 | 9.72 | 9.00 | 8.73 | 8.28 | 7.56 | |
| 9.0 | -20 | -19.8 | 5.60 | 5.04 | 5.60 | 5.60 | 5.60 | 5.60 |
| | -19 | -18.8 | 6.00 | 5.40 | 6.00 | 6.00 | 6.00 | 6.00 |
| | -17 | -16.7 | 6.30 | 6.30 | 6.30 | 6.30 | 6.30 | 6.30 |
| | -15 | -14.7 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 |
| | -13.00 | -12.60 | 6.70 | 6.70 | 6.70 | 6.70 | 6.70 | 6.70 |
| | -11.00 | -10.50 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| | -10.00 | -9.50 | 7.30 | 7.30 | 7.30 | 7.30 | 7.30 | 7.30 |
| | -9.10 | -8.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| | -7.60 | -7.00 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 |
| | -5.60 | -5.00 | 7.90 | 7.90 | 7.90 | 7.90 | 7.90 | 7.90 |
| | -3.70 | -3.00 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 |
| | -0.70 | 0.00 | 8.90 | 8.90 | 8.90 | 8.90 | 8.90 | 8.40 |
| | 2.20 | 3.00 | 9.40 | 9.40 | 9.40 | 9.40 | 9.20 | 8.40 |
| | 4.10 | 5.00 | 9.70 | 9.70 | 9.70 | 9.70 | 9.20 | 8.40 |
| | 6.00 | 7.00 | 10.00 | 10.00 | 10.00 | 9.70 | 9.20 | 8.40 |
| | 7.90 | 9.00 | 10.30 | 10.30 | 10.00 | 9.70 | 9.20 | 8.40 |
| 9.80 | 11.00 | 10.60 | 10.60 | 10.00 | 9.70 | 9.20 | 8.40 | |
| 11.80 | 13.00 | 11.00 | 10.80 | 10.00 | 9.70 | 9.20 | 8.40 | |
| 13.70 | 15.00 | 11.30 | 10.80 | 10.00 | 9.70 | 9.20 | 8.40 | |

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 6.2: Ceiling & floor heating capacity (continued)

| Capacity (kW) | Outdoor air temperature (°C) | | Indoor air temperature (°C DB) | | | | | |
|---------------|------------------------------|--------|--------------------------------|-------|-------|-------|-------|-------|
| | | | 16 | 18 | 20 | 21 | 22 | 24 |
| | | | TC | TC | TC | TC | TC | TC |
| | WB | DB | kW | kW | kW | kW | kW | kW |
| 11.2 | -20 | -19.8 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| | -19 | -18.8 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| | -17 | -16.7 | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 |
| | -15 | -14.7 | 8.13 | 8.13 | 8.13 | 8.13 | 8.13 | 8.13 |
| | -13.00 | -12.60 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 |
| | -11.00 | -10.50 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 | 8.75 |
| | -10.00 | -9.50 | 9.13 | 9.13 | 9.13 | 9.13 | 9.13 | 9.13 |
| | -9.10 | -8.50 | 9.38 | 9.38 | 9.38 | 9.38 | 9.38 | 9.38 |
| | -7.60 | -7.00 | 9.50 | 9.50 | 9.50 | 9.50 | 9.50 | 9.50 |
| | -5.60 | -5.00 | 9.88 | 9.88 | 9.88 | 9.88 | 9.88 | 9.88 |
| | -3.70 | -3.00 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 |
| | -0.70 | 0.00 | 11.13 | 11.13 | 11.13 | 11.13 | 11.13 | 10.50 |
| | 2.20 | 3.00 | 11.75 | 11.75 | 11.75 | 11.75 | 11.50 | 10.50 |
| | 4.10 | 5.00 | 12.13 | 12.13 | 12.13 | 12.13 | 11.50 | 10.50 |
| | 6.00 | 7.00 | 12.50 | 12.50 | 12.50 | 12.13 | 11.50 | 10.50 |
| | 7.90 | 9.00 | 12.88 | 12.88 | 12.50 | 12.13 | 11.50 | 10.50 |
| 9.80 | 11.00 | 13.25 | 13.25 | 12.50 | 12.13 | 11.50 | 10.50 | |
| 11.80 | 13.00 | 13.75 | 13.50 | 12.50 | 12.13 | 11.50 | 10.50 | |
| 13.70 | 15.00 | 14.13 | 13.50 | 12.50 | 12.13 | 11.50 | 10.50 | |
| 14.0 | -20 | -19.8 | 8.96 | 8.96 | 8.96 | 8.96 | 8.96 | 8.96 |
| | -19 | -18.8 | 9.60 | 9.60 | 9.60 | 9.60 | 9.60 | 9.60 |
| | -17 | -16.7 | 10.08 | 10.08 | 10.08 | 10.08 | 10.08 | 10.08 |
| | -15 | -14.7 | 10.40 | 10.40 | 10.40 | 10.40 | 10.40 | 10.40 |
| | -13.00 | -12.60 | 11.04 | 11.04 | 11.04 | 11.04 | 11.04 | 11.04 |
| | -11.00 | -10.50 | 11.20 | 11.36 | 11.36 | 11.36 | 11.36 | 11.36 |
| | -10.00 | -9.50 | 11.68 | 11.68 | 11.68 | 11.68 | 11.68 | 11.68 |
| | -9.10 | -8.50 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 |
| | -7.60 | -7.00 | 12.16 | 12.16 | 12.16 | 12.16 | 12.16 | 12.16 |
| | -5.60 | -5.00 | 12.64 | 12.64 | 12.64 | 12.64 | 12.64 | 12.64 |
| | -3.70 | -3.00 | 13.28 | 13.28 | 13.28 | 13.28 | 13.28 | 13.28 |
| | -0.70 | 0.00 | 14.24 | 14.24 | 14.24 | 14.24 | 14.24 | 13.44 |
| | 2.20 | 3.00 | 15.04 | 15.04 | 15.04 | 15.04 | 14.72 | 13.44 |
| | 4.10 | 5.00 | 15.52 | 15.52 | 15.52 | 15.52 | 14.72 | 13.44 |
| | 6.00 | 7.00 | 16.00 | 16.00 | 16.00 | 15.52 | 14.72 | 13.44 |
| | 7.90 | 9.00 | 16.48 | 16.48 | 16.00 | 15.52 | 14.72 | 13.44 |
| 9.80 | 11.00 | 16.96 | 16.96 | 16.00 | 15.52 | 14.72 | 13.44 | |
| 11.80 | 13.00 | 17.60 | 17.28 | 16.00 | 15.52 | 14.72 | 13.44 | |
| 13.70 | 15.00 | 18.08 | 17.28 | 16.00 | 15.52 | 14.72 | 13.44 | |

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

7 Electrical Characteristics

Table 7.1: Ceiling & floor electrical characteristics

| Model | Power supply | | | | | | Indoor fan motors | |
|----------------|--------------|---------|------------|------------|------|-----|-------------------------|------|
| | Hz | Volts | Min. volts | Max. volts | MCA | MFA | Rated motor output (kW) | FLA |
| MI2-36DL DHN1 | 50/60 | 220-240 | 198 | 264 | 0.38 | 15 | 0.1 | 0.3 |
| MI2-45DL DHN1 | 50/60 | 220-240 | 198 | 264 | 1.01 | 15 | 0.1 | 0.81 |
| MI2-56DL DHN1 | 50/60 | 220-240 | 198 | 264 | 1.03 | 15 | 0.1 | 0.82 |
| MI2-71DL DHN1 | 50/60 | 220-240 | 198 | 264 | 1.03 | 15 | 0.1 | 0.82 |
| MI2-80DL DHN1 | 50/60 | 220-240 | 198 | 264 | 1.10 | 15 | 0.1 | 0.88 |
| MI2-90DL DHN1 | 50/60 | 220-240 | 198 | 264 | 1.10 | 15 | 0.1 | 0.88 |
| MI2-112DL DHN1 | 50/60 | 220-240 | 198 | 264 | 1.43 | 15 | 0.10*2 | 1.14 |
| MI2-140DL DHN1 | 50/60 | 220-240 | 198 | 264 | 1.43 | 15 | 0.10*2 | 1.14 |

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps

8 Sound Levels

8.1 Overall

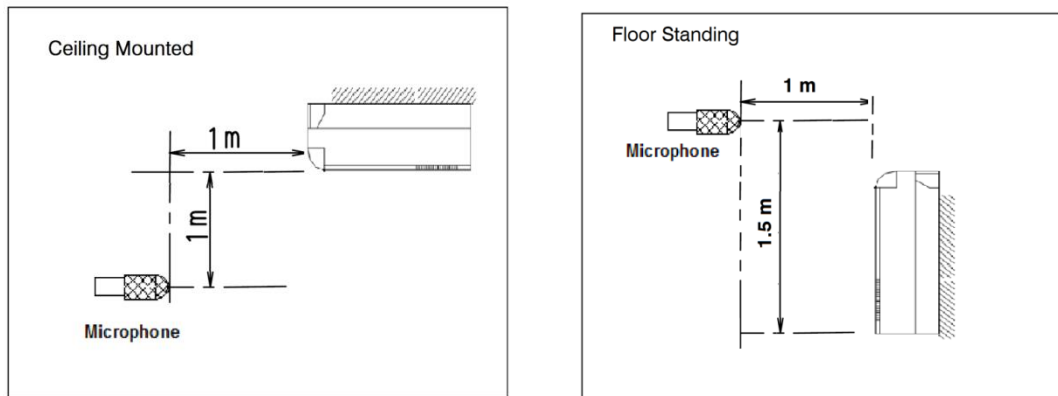
Table 8.1: Ceiling & floor sound pressure levels¹

| Model name | Sound pressure levels dB(A) | | | | | | |
|-------------|-----------------------------|----|----|----|----|----|-----|
| | SSH | SH | H | M | L | SL | SSL |
| MI2-36DLH1 | 40 | 39 | 38 | 38 | 37 | 36 | 36 |
| MI2-45DLH1 | 43 | 42 | 41 | 41 | 39 | 38 | 38 |
| MI2-56DLH1 | 43 | 42 | 41 | 41 | 39 | 38 | 38 |
| MI2-71DLH1 | 43 | 42 | 41 | 41 | 39 | 38 | 38 |
| MI2-80DLH1 | 45 | 44 | 43 | 43 | 42 | 41 | 40 |
| MI2-90DLH1 | 45 | 44 | 43 | 43 | 42 | 41 | 40 |
| MI2-112DLH1 | 47 | 46 | 45 | 45 | 44 | 43 | 42 |
| MI2-140DLH1 | 47 | 46 | 45 | 45 | 44 | 43 | 42 |

Notes:

1. Sound pressure levels are measured in a semi-anechoic chamber. During in-situ operation, sound pressure levels may be higher as a result of ambient noise.

Figure 8.1: Ceiling & floor sound pressure level measurement



8.2 Octave Band Levels

Figure 8.2: MI2-36DLH1 octave band levels

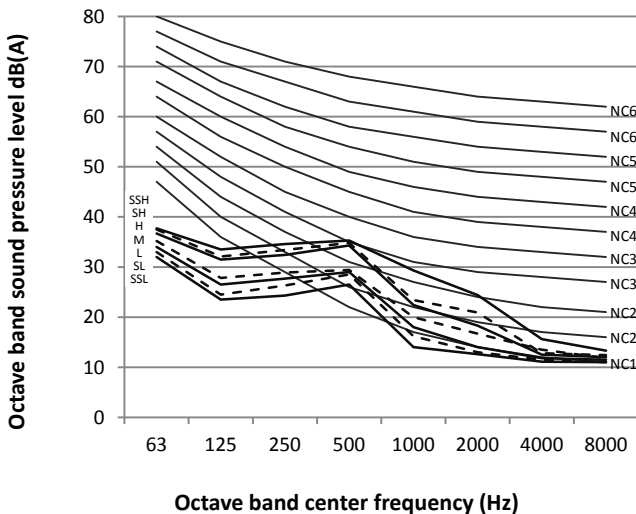
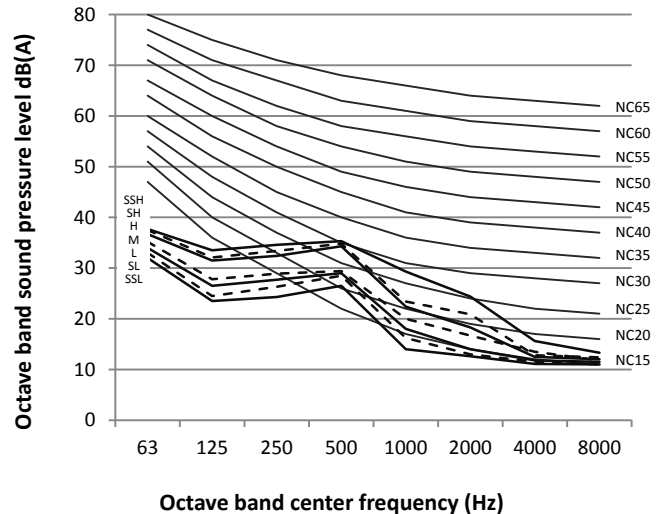


Figure 8.3: MI2-45(56,71)DLH1 octave band levels



The 2nd Generation DC Series VRF Indoor Units



Figure 8.4: MI2-80(90)DL DHN1 octave band levels

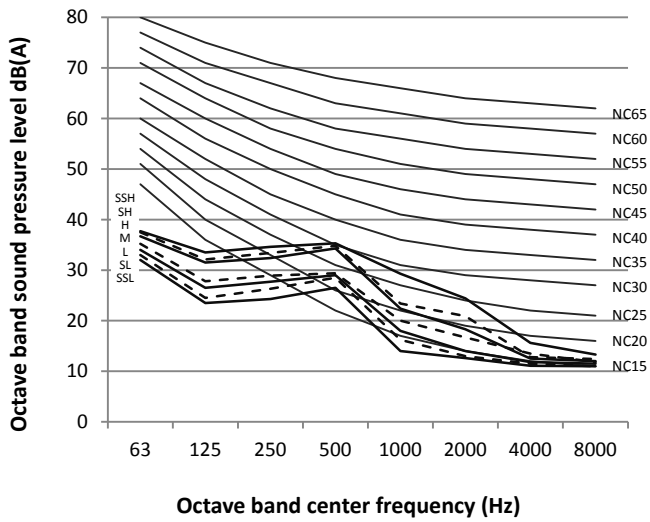


Figure 8.5: MI2-112(140)DL DHN1 octave band levels

