Fan Coil Unit
Product Catalogue
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04 06 08

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Remark: All unit photos in this catalog are solely for illustration purpose, actual outlook may differ slightly.

All specifications are subjected to change by the manufacturer without prior notice.

Products Overview

Cooling Capacity

FWMT-CV1  FWMJCC-A  FWMJC-B  FWKE-E  FWMH-A  FWPMM-A  UAHMM-A

* With Brushless DC Motor
Wall Mounted Type

- Stylish Front Panel
- Quiet Operation
- Uniform Air Distribution
- 5 Selectable Fan Speeds
- Turbo/quiet Function Available
- Light Weight
- Easy Maintenance

- Microprocessor Control
- Automatic Air Swing
- Able To Communicate With Versatile NIM (Network Interface Module)
- Easy-To-Use Wireless Handset
- Wired Handset Available (Optional)

Wall Mounted Type

FWMT02CV1 FWMT03CV1 FWMT04CV1 FWMT05CV1 FWMT06CV1

<table>
<thead>
<tr>
<th>Model</th>
<th>Btu/h</th>
<th>W</th>
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<th>W</th>
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</table>

H X W X D mm

| High RPM | 1030 | 1050 | 1310 | 1035 | 1250 |
| Medium RPM | 890 | 910 | 1150 | 920 | 1070 |
| Low RPM | 760 | 780 | 955 | 825 | 970 |

H X W X D mm

| High | 1.85 | 2.03 | 2.51 | 3.43 | 4.01 |
| Medium | 1.75 | 1.84 | 2.30 | 3.20 | 3.70 |
| Low | 1.60 | 1.70 | 2.15 | 2.95 | 3.50 |

H X W X D mm

| High | 0.20 | 0.20 | 0.21 | 0.30 | 0.34 |
| Medium | 0.19 | 0.20 | 0.20 | 0.29 | 0.32 |
| Low | 0.17 | 0.19 | 0.19 | 0.26 | 0.31 |

Starting Current A

| High | 0.40 | 0.43 | 0.43 | 0.30 | 0.43 |
| Medium | 0.38 | 0.38 | 0.38 | 0.29 | 0.32 |
| Low | 0.17 | 0.19 | 0.19 | 0.26 | 0.29 |

Coil

| Material | Copper |
| Face Area | 0.18 |
| Water Volume | 0.52 |
| Type | Washable Sponge Filter |

Specifications for Wall Mounted Type
### Ceiling Cassette Compact Type (600x600)

- Aesthetically attractive and slim front panel
- 4 Way air discharge for better air distribution
- Compact design
- Easy installation and maintenance
- Built in high pressure head drain pump
- Washable saranet air filter
- Easy-to-use wireless handset
- Wired handset available (optional)

### Specification for Ceiling Cassette Compact Type

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FWMJCC2BV1</th>
<th>FWMJCC4BV1</th>
<th>FWMJCC5BV1</th>
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<td>COOLING CAPACITY (kW)</td>
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<td>NOMINAL SENSIBLE CAPACITY (W)</td>
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<tr>
<td>HEATING CAPACITY (W)</td>
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<td>10000</td>
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<tr>
<td>TOTAL INPUT POWER (W)</td>
<td>63</td>
<td>64</td>
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<tr>
<td>RUNNING CURRENT (A)</td>
<td>0.89</td>
<td>0.95</td>
<td>0.98</td>
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### Control
- 4 Way Air Conditioning (Up & Down)
- LCD Wireless Micro-Computer Remote Control

### Air Flow
- HIGH: CFM 380, W 2490, Btu/h 8500
- MEDIUM: CFM 320, W 4100, Btu/h 14000
- LOW: CFM 290, W 4540, Btu/h 15500

### Indoor Unit
- Fan Speed
  - HIGH: 1450 RPM
  - MEDIUM: 1180 RPM
  - LOW: 920 RPM

### Refrigerant
- TYPE: R410A
- MATERIAL: COPPER

### Condensate Drain Size
- 15 x 3 mm

### Pipe Connection
- Nominal Diameter: 220-240 / 1 / 50

### REFRIGERANT TYPE
- N/A

### Air Quality
- FILTER: Washable Saranet Filter

### Model Specifications

<table>
<thead>
<tr>
<th>MODE</th>
<th>POWER SOURCE</th>
<th>V/Ph/Hz</th>
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<tbody>
<tr>
<td>HIGH</td>
<td>200-240 / 1 / 50</td>
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</tbody>
</table>

### All Specifications are Subject to Change by the Manufacturer without Prior Notice.
Ceiling Cassette Type (900x900)

- Modern and elegant panel
- 4-way air discharge for better air distribution
- Wide capacity range
- Multi Comfort - 3 air swing patterns control
- 4 speeds fan motor
- Quiet function available

Modern and elegant panel
- Quiet operation
- Low casing height
- Built-in high-pressure head drain pump
- Washable saranet air filter
- Easy-to-use wireless handset
- Wired handset available (optional)

FWMJC-B
BRC52A62 BRC51A62

Specification for Ceiling Cassette Type

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<thead>
<tr>
<th>MODEL</th>
<th>FWMJC6BV1</th>
<th>FWMJC8BV1</th>
<th>FWMJC9BV1</th>
<th>FWMJC11BV1</th>
<th>FWMJC13BV1</th>
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<td>NOMINAL COOLING CAPACITY</td>
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<td>7.00</td>
<td>7.00</td>
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<td>ENTERING WATER TEMPERATURE</td>
<td>°C</td>
<td>27</td>
<td>27</td>
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<td>27</td>
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<tr>
<td>LEAVING WATER TEMPERATURE</td>
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<td>POWER SOURCE</td>
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<td>0.53</td>
<td>0.74</td>
<td>0.85</td>
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ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
Ceiling Cassette Type (900x900) With Brushless DC Motor

- Comfortable
- Energy Saving
- Low Noise
- Low-Maintenance & No Brush Sparking
- Modulating Fan Speed Control
- Optimum Air Discharge
- Multi Comfort - 3 Air Swing Pattern Control
- Branch Duct Connection
- Low Height Design
- Silent Fan
- Fresh Air Intake
- Low Water Pressure Drop
- Sleep Function For Cool And Heat Mode
- Low Noise
- Energy Saving
- Comfortable
- Multi-Application

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Energy Saving

Compared to the traditional AC motor, DC motor offers the advantages of lower power input, higher efficiency and hence more energy saving.

- Brushless DC motor has less internal resistance and better heat dissipation in the stator coils. As a result, it has lower shaft friction or inertia and hence provides maximum comfort and reduces energy consumption. Available in auto fan mode

Low Noise

Due to no brushes or a mechanical commutator, it has less shaft friction or inertia and hence less audible noise as low as 16 dB

- Low Maintenance & No Brush Sparking
- Modulating Fan Speed Control
- Energy Saving
- Comfortable

Recommended Applications

Ceiling Cassette type fan coil with Brushless DC motor provides a green and pleasant environment.

Office

Restaurant

Home

Technical Specifications

<table>
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<tr>
<th>Model</th>
<th>Fanway 52E</th>
<th>Fanway 52VE</th>
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<td>kW</td>
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<td>3800</td>
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<tr>
<td>5400</td>
<td>6400</td>
<td>5400</td>
</tr>
<tr>
<td>Nominal Cooling Capacity</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>2400</td>
<td>6500</td>
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<tr>
<td>5400</td>
<td>6400</td>
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A) Based on Eurovent Conditions
B) Based on JIS Conditions
C) Sound Pressure Level is tested as per JIS Standard as below:

- Model: FWKE 05E/08E/11E
- Sound Pressure Level: 48, 42, 37, 31, 25, 20, 15, 12, 9, 7, 5, 3.5, 2.5 dBA
- Operating Temperature: 20 °C DB / 19 °C WB
- Indoor Unit Dimensions: 275 X 680 X 700 (340 X 990 X 990)
Ceiling Concealed Type

- Wide Capacity Range
- Multiple Rooms Can Be Cooled By Just 1 Unit Of FWMH
- Simple Design With Easy Servicability Feature
- Extremely Low Height Of Unit - 251mm For Complete Range
- Fan Motor Assembly Is Not Covered, Allowing Free Return
- Black Return Or Bottom Return With Optional Return Plenum
- Availability Of Optional Extended Drain Pan To Receive The Condensate Water Dripping From The Water Piping Connection
- Following 2 Types Are Selectable:
  I. With Intake Plenum
  II. Without Intake Plenum

Optional accessory:
- i. Wired thermostat
- ii. Choice Of External Static Pressure, ESP (0Pa, 30Pa, 60Pa, 80Pa)
- iii. PTC (Positive Temperature Coefficient) Electric Heater
- iv. 2 Way & 3 Way Valves

Series Offer:
- i. FWMH2-12A(N)0(Z)V1*
- ii. FWMH2-12A(N)3(Z)V1*
- iii. FWMH2-12A(N)6(Z)V1*
- iv. FWMH2-12A(N)8(Z)V1*
  * With N, the unit without Intake Plenum
  * Without N, the unit with Intake Plenum
  * With Z, the unit with the piping taken out from the right viewed from the supply opening
  * Without Z, the unit with the piping taken out from the left viewed from the supply opening

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
### Specification for Ceiling Concealed Type (ESP = 30Pa)

<table>
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<th>MODEL</th>
<th>WITH INTAKE PLenum</th>
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<th>POWER SUPPLY</th>
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<th>SENSIBLE COOLING CAPACITY</th>
<th>HEATING CAPACITY</th>
<th>AIR FLOW</th>
<th>INTERNAL STATIC</th>
<th>WATER FLOW RATE (COOLING)</th>
<th>WATER FLOW RATE (HEATING)</th>
<th>SOUND PRESSURE LEVEL (SPL, dB)</th>
<th>FAN MOTOR</th>
<th>PACKING</th>
<th>UNIT GROSS</th>
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<tr>
<td></td>
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<td>RPM/min/Hz</td>
<td>kW/kg/h</td>
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<td>dBA</td>
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### Specification for Ceiling Concealed Type (ESP = 40Pa)

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<th>SENSIBLE COOLING CAPACITY</th>
<th>HEATING CAPACITY</th>
<th>AIR FLOW</th>
<th>INTERNAL STATIC</th>
<th>WATER FLOW RATE (COOLING)</th>
<th>WATER FLOW RATE (HEATING)</th>
<th>SOUND PRESSURE LEVEL (SPL, dB)</th>
<th>FAN MOTOR</th>
<th>PACKING</th>
<th>UNIT GROSS</th>
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<tbody>
<tr>
<td></td>
<td>RPM/min/Hz</td>
<td>RPM/min/Hz</td>
<td>kW/kg/h</td>
<td>Btu/h</td>
<td>Btu/h</td>
<td>Btu/h</td>
<td>m³/h</td>
<td>dBA</td>
<td>m³/h</td>
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**Note:** All specifications are subject to change by the manufacturer without prior notice.
### Specification for Ceiling Concealed Type (ESP =80Pa)

#### Model

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<td></td>
<td>W</td>
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<td>Internal Static Pressure</td>
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<td>Sound Pressure Level (Panel)</td>
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<td>Diameter</td>
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<td>Weight</td>
<td>kg / lb</td>
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<tr>
<td></td>
<td>Width</td>
<td>mm / in</td>
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### Model Details

- **Wide Capacity Range**
- **Double Protection Drainage System (Primary And Secondary Drain Pan)**
- **Flexible System Design**
- **Superior Air Distribution**

### Choices Of With Or Without Wired Handset

- **With Wired Handset**: FWPMM3-16A(Z)V1*
- **Without Wired Handset**: FWPMM3-16A(Z)V1-N*

* *Z, the unit with the piping taken out from the right viewed from the supply opening

* Without Z, the unit with the piping taken out from the left viewed from the supply opening

---

**Model Details**

- **DIAMETER**
- **THICKNESS**
- **FACE AREA**
- **UNIT DIMENSION**
- **WEIGHT**
- **RACKING DIMENSION**
- **UNIT WEIGHT**
- **UNIT CROSS SECTION**

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**Cooling Capabilities**

- **Cooling Temperature**
- **Sensible Cooling Capacity**
- **Latent Cooling Capacity**
- **Condensate Drain Pipe Size**

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**Heating Capabilities**

- **Heating Temperature**
- **Sensible Heating Capacity**
- **Latent Heating Capacity**

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**Dimensions**

- **Units**
- **Index of Protection (IP)**
- **Sound Pressure Level (H/M/L)**
- **Fan Motor**
- **Insulation Grade**
- **Fan Type**
- **Fan Quantity**

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**Power Supply**

- **Voltage**
- **Frequency**
- **Phase**

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All specifications are subject to change by the manufacturer without prior notice.
### Specification for Ceiling Concealed Type

<table>
<thead>
<tr>
<th>MODEL</th>
<th>POWER SOURCE</th>
<th>NOMINAL COOLING CAPACITY</th>
<th>NOMINAL SENSIBLE COOLING CAPACITY</th>
<th>NOMINAL HEATING CAPACITY</th>
<th>NOMINAL AIR QUALITY</th>
<th>NOMINAL TOTAL INPUT POWER</th>
<th>NOMINAL ELECTRICAL CURRENT</th>
<th>COOLING CAPACITY</th>
<th>POWER SOURCE</th>
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<td>Watts</td>
<td>Watts</td>
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</table>

#### Control
- **Air Discharge Operation**: Ducted
- **Control Type**: Wired Micro-Computer Remote Control

#### Indoor Unit
- **Entering Water Temp.**: 60°C (4 Pipes System)
- **Leaving Water Temp.**: 70°C (4 Pipes System)
- **Entering Water Temp.**: 50°C (2 Pipes System)

#### Outdoor Unit
- **Entering Water Temp.**: 20˚C DB
- **Leaving Water Temp.**: 26˚C DB

#### Electrical Information
- **Input Power**: 220-240 / 1 / 50
- **Rating**: 220-240 / 1 / 50
- **Motor Output**: 1.50 QM 9.52 M 8.52
- **Input Current**: 1.50 QM 9.52 M 8.52

#### Mechanical Information
- **Working Voltage**: 220-240 / 1 / 50
- **Frame Connection**: 220-240 / 1 / 50

#### Refrigerant Type
- **Type**: N/A
- **Brand**: N/A

#### Specifications
- **Face Area**: 0.11 m²
- **Material**: Aluminum
- **Filter Type**: N/A
- **Casings**: Aluminium

### Specification for Ceiling Concealed Type

<table>
<thead>
<tr>
<th>MODEL</th>
<th>POWER SOURCE</th>
<th>NOMINAL COOLING CAPACITY</th>
<th>NOMINAL SENSIBLE COOLING CAPACITY</th>
<th>NOMINAL HEATING CAPACITY</th>
<th>NOMINAL AIR QUALITY</th>
<th>NOMINAL TOTAL INPUT POWER</th>
<th>NOMINAL ELECTRICAL CURRENT</th>
<th>COOLING CAPACITY</th>
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<td>Watts</td>
<td>Watts</td>
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<td>220-240 / 1 / 50</td>
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</table>

#### Control
- **Air Discharge Operation**: Ducted
- **Control Type**: Wired Micro-Computer Remote Control

#### Indoor Unit
- **Entering Water Temp.**: 60°C (4 Pipes System)
- **Leaving Water Temp.**: 70°C (4 Pipes System)
- **Entering Water Temp.**: 50°C (2 Pipes System)

#### Outdoor Unit
- **Entering Water Temp.**: 20˚C DB
- **Leaving Water Temp.**: 26˚C DB

#### Electrical Information
- **Input Power**: 220-240 / 1 / 50
- **Rating**: 220-240 / 1 / 50
- **Motor Output**: 1.50 QM 9.52 M 8.52
- **Input Current**: 1.50 QM 9.52 M 8.52

#### Mechanical Information
- **Working Voltage**: 220-240 / 1 / 50
- **Frame Connection**: 220-240 / 1 / 50

#### Refrigerant Type
- **Type**: N/A
- **Brand**: N/A

#### Specifications
- **Face Area**: 0.11 m²
- **Material**: Aluminum
- **Filter Type**: N/A
- **Casings**: Aluminium

### Note
- All specifications are subject to change by the manufacturer without prior notice.
**Ducted Blower Type**

- Strong air flow
- High external static pressure
- Easy installation and maintenance
- Multiple choices of air flow speed (applicable for UAHMM30A/40A)
- Convertible air discharge (applicable for UAHMM40A)

### Specification for Ducted Blower Type

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UAHMM20A(Z)</th>
<th>UAHMM25A(Z)</th>
<th>UAHMM30A(Z)</th>
<th>UAHMM40A(Z)</th>
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<td>125000</td>
<td>150000</td>
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<td>27840</td>
<td>36640</td>
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<td>A</td>
<td>760</td>
<td>1800</td>
<td>1620</td>
<td>1910</td>
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<td>3.49</td>
<td>7.84</td>
<td>3.33</td>
<td>4.03</td>
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<td>4200</td>
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<td>3000</td>
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<td>1750</td>
<td>2800</td>
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<td>Pa</td>
<td>100 / 72 / 50</td>
<td>100 / 80 / 60</td>
<td>230</td>
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<td>64.00</td>
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<td>42.0</td>
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<td>2.80</td>
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<td>50/46/42</td>
<td>54/52/50</td>
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<td>H X W X D mm</td>
<td>762 x 1605 x 880</td>
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<td>176 x 189 x 605</td>
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<td>kg</td>
<td>92</td>
<td>102</td>
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<td>950</td>
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<td>MEDIUM RPM</td>
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<td>600</td>
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<td>56</td>
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<td>INSULATION GRADE</td>
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<td>W 760 M 1800</td>
<td>L 700 B 800</td>
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<tr>
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<td>M 611 L 470</td>
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<td>STARTING CURRENT</td>
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</tr>
<tr>
<td>COLOUR</td>
<td>IVORY</td>
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</tbody>
</table>

All specifications are subject to change by the manufacturer without prior notice.
Standard Features

**COMFORT**
- **Turbo Mode**: Rapid cooling/heating with highest fan speed for immediate comfort
- **Quiet Mode**: Effective cooling with lower noise level
- **Dry Mode**: Keeping the room dehumidified, while maintaining room temperature
- **Sleep Mode**

**FIN TYPE**
- **Bare Aluminium Fin** (AL)
- **Anti Corrosion Hydrophilic Blue Fin** (BL)

**AIR FLOW**
- **Selectable Fan Speed**: Different fan speed is available for comfort selection
- **Belt Driven Evaporator Motor**
- **Automatic Vertical Swing**: Automatic movement of air discharge louver for uniform air distribution
- **Manual Horizontal Air Flow**: Adjustable horizontal discharge grille for desired air flow direction
- **4 Way Air Discharge**

**CONTROLLER**
- **With Wireless Remote Controller**
- **With Wired Remote Controller**

**IAQ**
- **Washable Saranet Filter**: Removal of airborne dust particles through saranet filter ensures cleaner air supply

**Features:**
- Cool/Fan/Dry mode
- Auto-High/Medium/Low fan speed
- Temperature display in °C and °F
- Turbo and Quiet function
- Sleep function
- Swing function
- Real time clock and day display
- 7 days programmable timer (up to 2 sets)
- Error indicator
- Key lock and fan lock features
- Batteries back up and retain setting during power failure
- Last state memory (memory backup setting from main board)
- Delay timer (1 or 2 hours)
- Interaction with Wireless Handset (BRC52A62)

**Controller**

**Wireless Controller - BRC52A62**
1. Transmission Source
2. “Glow in the dark” Power ON/OFF
3. Vertical Automatic Air Swing
4. Selectable Mode: Cool, Dry, Fan
5. Turbo Function
6. Quiet Function
7. ON Timer Setting
8. Real Time Clock
9. OFF Timer Setting
10. Sleep Mode Function
11. Temperature Setting
12. Fan Speed Selection: High, Medium, Low, Auto

**Wired Controller - BRC51A62**

**FIN TYPE**
- **Bare Aluminium Fin** (AL)
- **Anti Corrosion Hydrophilic Blue Fin** (BL)

**IAQ**
- **Washable Saranet Filter**: Removal of airborne dust particles through saranet filter ensures cleaner air supply
**Intelligent Control Series**

Network Interface Module (NIM) is a networking system which enables communication among Daikin air conditioners. With the Network Interface Module (NIM), all your air conditioning systems can be controlled with just a single controller giving you benefits:

### Network Control NIM

**Benefits**
- More convenience. No more individually controlling air conditioning units
- Quicker and easier zone control from the master control unit
- Better control of air conditioning systems operating conditions

NIM utilizes master-slave type system whereby the master node will issue commands to each of the slave nodes.

Every master unit will have a group address so that every slave can only respond to their respective master. Each slave unit must have a unique address so that it can be addressed independently of other nodes.

The master unit will be operating in conjunction with a control panel. Any settings done via the control panel connected to the master will overwrite the settings of its slave units.

Slave unit can be operated with or without control panel. If a slave unit is operating with a control panel, its settings can be changed without following its master.

**Basic Features**
- DIP switch setting for Group & Unit address
- Master or slave system configuration
- Automatic detection of control panel existence
- Error type and unit ID indication through display control panel
- Maximum point to point communication bus up to 1000m
- A single master unit can control up to 15 slave units in each group
- Each slave unit will sense their individual local temperature
- Unit address range from 0 to 15 (0000-1111)

### The Nim System Consists Of

- Main Board controller
- Display control panel
- NIM controller
- Communications bus

**Communication Bus**

A 2-way twisted pair cable is used as the communication bus. Recommended cable for communication bus is a pair of screened & shielded, twisted single core wire with core diameter of 0.5mm to 1.0mm.

**Connection**

The communication bus must be connected serially to the adjacent NIM. (Daisy chain connection). The same polarity has to be connected between the NIMs (A to A, B to B).

**G-Way**

**Function**

- Gateway between fan coil unit and basic Building Management System (BMS).

**Note:**
- Remote (On/Off) control of air conditioner via BMS.
- Unit error indication via BMS and BRC51A62 controller.
- Unit operation status monitoring via BMS.
- Maximum point to point communication bus between air conditioner and BMS of up to 1000m.
- DIP switch setting for control or monitoring function.

**Supported Configuration**

<table>
<thead>
<tr>
<th>NIM Type</th>
<th>Master</th>
<th>Slave</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRC51A62</td>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>BRC52A62</td>
<td>-</td>
<td>☑️</td>
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</table>

**Connection**

<table>
<thead>
<tr>
<th>Connection</th>
<th>Recommended Maximum Cable Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First NIM to the furthest connected NIM</td>
<td>1000</td>
</tr>
<tr>
<td>NIM to Main Board</td>
<td>10</td>
</tr>
<tr>
<td>NIM to Wired Controller</td>
<td>10</td>
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</table>

**G-Way Controller**

<table>
<thead>
<tr>
<th>Control &amp; Monitor (Ext. Switch Closed = ON A/C)</th>
<th>DSW2 Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000</td>
<td></td>
</tr>
<tr>
<td>Control &amp; Monitor (Ext. Switch Open = ON A/C)</td>
<td>0010</td>
</tr>
<tr>
<td>Monitoring only</td>
<td>0001</td>
</tr>
</tbody>
</table>

**G-Way Diagram**

- **CN1**: RELAY 1
- **CN2**: RELAY 2
- **DIP Switch**: Terminal Blocks
- **Dry Contact Input**: Unit On/Off Indicator
- **Dry Contact Output 1**: Unit Error Indicator
- **Dry Contact Output 2**: