WALL MOUNTED WATER COOLED SPLIT TYPE AIR CONDITIONER

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### OUTLINE AND DIMENSIONS

**Indoor Unit (WM)**

![Indoor Unit Diagram]

All dimensions are in mm / (in)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 / 15F / FR</td>
<td>815 (32.1)</td>
<td>291 (11.4)</td>
<td>181 (7.1)</td>
<td>719 (28.3)</td>
<td>278 (10.9)</td>
<td>47 (1.9)</td>
<td>47 (1.9)</td>
<td>12 (0.5)</td>
<td>32 (1.3)</td>
<td>35 (1.4)</td>
<td>302 (11.9)</td>
<td>342 (13.5)</td>
<td>100 (3.9)</td>
<td>118 (4.6)</td>
<td>172 (6.8)</td>
</tr>
<tr>
<td>20 / 25F / FR</td>
<td>1060 (41.7)</td>
<td>310 (12.2)</td>
<td>200 (7.9)</td>
<td>912 (35.9)</td>
<td>294 (11.6)</td>
<td>99 (3.9)</td>
<td>51 (2.0)</td>
<td>8 (0.3)</td>
<td>48 (1.9)</td>
<td>43 (1.7)</td>
<td>354 (13.9)</td>
<td>403 (15.9)</td>
<td>160 (6.3)</td>
<td>138 (5.4)</td>
<td>160 (6.3)</td>
</tr>
</tbody>
</table>

**Outdoor Unit (WSC-A Series)**

![Outdoor Unit Diagram]

All dimensions are in mm / (in)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>10A / 10AR</td>
<td>795 (31.3)</td>
<td>495 (19.5)</td>
<td>470 (18.5)</td>
</tr>
<tr>
<td>15A / 15AR</td>
<td>805 (31.7)</td>
<td>550 (21.7)</td>
<td>525 (20.7)</td>
</tr>
<tr>
<td>20A / 20AR</td>
<td>807 (31.8)</td>
<td>495 (19.5)</td>
<td>470 (18.5)</td>
</tr>
<tr>
<td>25A / 25AR</td>
<td>798 (31.4)</td>
<td>550 (21.7)</td>
<td>525 (20.7)</td>
</tr>
</tbody>
</table>
Caution: Sharp edges and coil surfaces are potential locations which may cause injury hazards. Avoid from being in contact with these places.

Avertissement: Les bords coupants et les surfaces du refroidisseur tubulaire présentent un risque de blessure. Mieux vaut éviter le contact avec ces endroits.


Cautela: Per preservarsi da eventuali ferite, evitare di toccare gli spigoli affiliati e la superficie dei serpentini.

Cuidado: Los Bordes afilados y la superficie del serpentín pueden producir lesiones. Evite tocarlos.

Осторожно: Острые края и поверхности змеевиков являются потенциальными местами нанесения травм. Остерегайтесь контакта с этими местами.

NOTICE

This product is subjected to Waste of Electrical and Electronic Equipment Regulations (WEEE Regulations). The waste product shall be separately collected by specific collection and treatment centre. Please refer to local authority for these centres. This is only applicable to European Union countries.

Ce produit est soumis à la réglementation concernant les déchets des équipements électriques et électroniques (réglementation DEEE). Le déchet doit être collecté séparément par un centre de collecte et de traitement spécifique. Veuillez vous référer aux autorités locales pour connaître ces centres. Ceci est uniquement applicable aux pays de l’Union Européenne.


Questo prodotto è soggetto alle disposizioni RAEE (Rifiuti di apparecchiature elettriche ed elettroniche). Il prodotto da smaltire verrà ritirato da un centro incaricato del ritiro e smaltimento. Per conoscere il nome del centro pertinente, contattare le autorità locali. Questa disposizione è valida solamente i paesi dell’U.E.

Este producto está sujeto a las Regulaciones del Equipamiento Eléctrico y Electrónico en materia de desechos (Regulaciones WEEE). El producto dañado será retirado por separado por el centro específico de colección y tratamiento. Por favor remitirse a las autoridades locales de estos centros. Esto es solamente aplicable a los países de la Unión Europea.

Процесс утилизации данного продукта регулируется правилами по утилизации отходов электroteхнического и электронного оборудования (WEEE Regulations). Такие отходами должен заниматься специальный центр по сборке и обработке отходов. За информацией о таких центрах, обращайтесь к местным властям. Эти правила применяются только в странах Европейского Союза.
This manual provides the procedures of installation to ensure a safe and good standard of operation for the air conditioner unit. Special adjustment may be necessary to suit local requirements. Before using your air conditioner, please read this instruction manual carefully and keep it for future reference.

**WALL MOUNTED WATER COOLED SPLIT TYPE AIR CONDITIONER**

**MODEL**

<table>
<thead>
<tr>
<th>COOLING UNIT</th>
<th>HEAT PUMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM10F / AWM10F / MWM010F</td>
<td>WM10FR / AWM10FR / MWM010FR</td>
</tr>
<tr>
<td>WSC10A / AWSC10A / MWSC010A</td>
<td>WSC10AR / AWSC10AR / MWSC010AR</td>
</tr>
<tr>
<td>WM15F / AWM15F / MWM015F</td>
<td>WM15FR / AWM15FR / MWM015FR</td>
</tr>
<tr>
<td>WSC15A / AWSC15A / MWSC015A</td>
<td>WSC15AR / AWSC15AR / MWSC015AR</td>
</tr>
<tr>
<td>WM20F / AWM20F / MWM020F</td>
<td>WM20FR / AWM20FR / MWM020FR</td>
</tr>
<tr>
<td>WSC20A / AWSC20A / MWSC020A</td>
<td>WSC20AR / AWSC20AR / MWSC020AR</td>
</tr>
</tbody>
</table>
CONTENTS

- Outline And Dimensions  page i  - Indicator Lights  page 8
- Safety Precautions  page 2  - Air Conditioner Unit Operation  page 10
- Installation Diagram  page 3  - Standard Operating Conditions  page 10
- Installation Of The Outdoor Unit  page 3  - Electrostatic Filter  page 10
- Installation Of The Indoor Unit  page 4  - Auto Random Re-Start Function  page 11
- Refrigerant Piping  page 5  - Phase Protector (Optional)  page 11
- Electrical Wiring Connection  page 6  - Service And Maintenance  page 12
- Vacuuming and Charging  page 7  - Troubleshooting  page 12

SAFETY PRECAUTIONS

Before installing the air conditioner unit, please read the following safety precautions carefully.

⚠️ Warning

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazards due to insulation failure.
- All electrical wiring must not touch the refrigerant piping, compressor or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.

⚠️ Caution

Please take note of the following important points when installing.

- Do not install the unit where leakage of flammable gas may occur.
  - If gas leaks and accumulates around the unit, it may cause fire ignition.

- Ensure that the drainage piping is connected properly.
  - If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.

- Do not overcharge the unit.
  - This unit is factory pre-charged. Overcharge will cause over-current or damage to the compressor.

- Ensure that the units panel is closed after service or installation.
  - Unsecured panels will cause the unit to operate noisily.

- Sharp edges and coil surfaces are potential locations which may cause injury hazards. Avoid from being in contact with these places.
The location of the outdoor unit is very flexible, it can be installed in ceiling, stairs, toilet and out wall or other places. In order to operate the unit reliably, precaution steps:

1) Leave enough space for service person to perform maintenance of repair and provide sufficient room to make water, electrical connections.

2) The place can withstand the weight of the outdoor unit and isolate the noise and vibration.

3) If unit is suspended from the ceiling by four threaded rods. The rods are attached to the unit supportably by a hanger bracket through a rubber isolator.

Caution: Do not use rods smaller than specified above. The rods must be securely anchored to the ceiling or to the bar joist.
The indoor unit must be installed in such a way so as to prevent short circuit of the cool discharged air with the hot return air. Please follow the installation clearance shown in the figure. Do not place the indoor unit where there could be direct sunlight shining on it. Also, this location must be suitable for piping and drainage, and be away from doors or windows.

**Mounting Installation Plate**

Ensure that the wall is strong enough to withstand the weight of the unit. Otherwise, it is necessary to reinforce the wall with plates, beams or pillars.

Use the level gauge for horizontal mounting, and fix it with 4 suitable screws.

In case the rear piping draws out, drill a hole 65mm in diameter with a cone drill, slightly lower on the outside wall (see figure).

**Plate Mounting Installation**

![Diagram of plate mounting installation]

**Hole With Cone Drill**

![Diagram of hole with cone drill]

**Mount The Unit Onto The Installation Plate**

Hook the indoor unit onto the upper portion of the installation plate (Engage the two hooks at the rear top of the indoor unit with the upper edge of the installation plate). Ensure that the hooks are properly seated on the installation plate by moving it to the left and right.

1. Hook the unit onto the installation plate.

**Water Drainage Piping**

The indoor drain pipe must be in a downward gradient for smooth drainage. Avoid situations that are likely to cause water to leak.

**Water Drainage**

- Correct
- Wrong
- Wrong
- Wrong

**Routing Of Piping**

Remove the screw holding the front panel.

**Piping Routing**

![Diagram of piping routing]

The refrigerant piping can be routed to the unit in a number of ways (left or right from the back of the unit), by using the cut-out holes on the casing of the unit (see figure). Bend the pipes carefully to the required position in order to aligned it with the holes. For the right hand and rear side out, hold the bottom of the piping and then position it to the required direction (see figure). The condensation drain hose can be taped to the pipes.

**Right & Rear Side Routing**

![Diagram of right & rear side routing]
Piping Length & Elevation

If the pipe is too long, both the capacity and reliability of the unit will drop. As the number of bends increases, resistance to the flow of refrigerant system increases, thus lowering cooling capacity. As a result, the compressor may become defective. Always choose the shortest path and follow the recommendations as tabulated below:

### Refrigerant Piping

<table>
<thead>
<tr>
<th>Outdoor Unit</th>
<th>Indoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove Burr</td>
<td>Cut Copper Tube</td>
</tr>
</tbody>
</table>

**Piping Works**

- Do not use contaminated or damaged copper tubing. Do not remove plastic, rubber plugs and brass nuts from the valves, fittings, tubings and coils until you are ready to connect suction or liquid line into valves or fittings.
- If any brazing work is required, ensure that the nitrogen gas is passed through coil and joints while the brazing work is being done. This will eliminate soot formation on the inside walls of the copper tubings.
- Cut the connection pipe with a pipe cutter.
- Remove burrs from cut edges of the pipes with remover. Hold the end of the pipe downwards to prevent metal chips from entering the pipe.
- Insert the flare nuts, mounted on the connection parts of both the indoor unit and outdoor unit onto the copper pipes.
- Flare the pipe with extra length above the flaring tool as shown in the table.
- The flared edge must be even and not cracked or scratched.

### Table: Ø Tube, D & A (mm)

<table>
<thead>
<tr>
<th>Ø Tube, D (mm)</th>
<th>A (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>mm</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>6.35</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>9.52</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>12.70</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>15.88</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>19.05</td>
</tr>
</tbody>
</table>

### Remark:
The refrigerant pre-charged in the outdoor unit is for piping length up to 7.62 m/25 ft.

### Piping Connection To The Units

- Align the center of the piping and tighten the flare nut sufficiently with fingers.
- Finally, tighten the flare nut with the torque wrench until the wrench clicks.
**ELECTRICAL WIRING CONNECTION**

**IMPORTANT:** The figures shown in the table are for information purpose only. They should be checked and selected to comply with the local/national codes of regulations. This is also subject to the type of installation and conductors used.

### Cooling unit (single phase)

**WM 10/15/20/25 F - WSC 10/15/20/25 A**

- **Indoor Unit Terminal Block**
- **Outdoor Unit Terminal Block**
- **Connecting Cable**
- **Power Supply Wire**
  - 220 - 240/1/50

**Note:** Power supply from Indoor Unit

**Heat pump unit (single phase)**

**WM 10/15/20/25 FR - WSC 10/15/20/25 AR**

- **Indoor Unit Terminal Block**
- **Outdoor Unit Terminal Block**
- **Connecting Cable**
- **Power Supply Wire**
  - 220 - 240/1/50

**Note:** Power supply from Outdoor Unit

---

### Cooling unit (single phase)

**WM 10/15/20/25 F - WSC 10/15/20/25 A**

- **Indoor Unit Terminal Block**
- **Outdoor Unit Terminal Block**
- **Connecting Cable**
- **Power Supply Wire**
  - 220 - 240/1/50

**Note:** Power supply from Outdoor Unit

**Heat pump unit (single phase)**

**WM 10/15/20/25 FR - WSC 10/15/20/25 AR**

- **Indoor Unit Terminal Block**
- **Outdoor Unit Terminal Block**
- **Connecting Cable**
- **Power Supply Wire**
  - 220 - 240/1/50

**Note:** Power supply from Outdoor Unit

---

## Table: Electrical Wiring Connection

<table>
<thead>
<tr>
<th>Model</th>
<th>10 / 15</th>
<th>20 / 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage range</td>
<td>220V-240V / 1Ph / 50Hz +</td>
<td></td>
</tr>
<tr>
<td>Power supply cable size* mm²</td>
<td>1.5</td>
<td>2.5</td>
</tr>
<tr>
<td>Number of wire</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Interconnection cable size* mm²</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Number of wire</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Recommended Fuse A</td>
<td>15</td>
<td>20</td>
</tr>
</tbody>
</table>
VACUUMING AND CHARGING

Purging the piping and the indoor unit
Except for the outdoor unit which is pre-charged with refrigerant, the indoor unit and the refrigerant connection pipes must be air-purged because the air containing moisture that remains in the refrigerant cycle may cause malfunction of the compressor.
- Remove the caps from the valve and the service port.
- Connect the center of the charging gauge to the vacuum pump.
- Connect the charging gauge to the service port of the 3-way valve.
- Start the vacuum pump. Evacuate for approximately 30 minutes. The evacuation time varies with different vacuum pump capacity. Confirm that the charging gauge needle has moved towards -760mmHg.

Caution
If the gauge needle does not move to -760mmHg, be sure to check for gas leaks (using the refrigerant detector) at flare type connection of the indoor and outdoor unit and repair the leak before proceeding to the next step.
- Close the valve of the changing gauge and stop the vacuum pump.
- On the outdoor unit, open the suction valve (3 way) and liquid valve (2 way) (in anti-clockwise direction) with 4mm key for hexagon shecked screw.

Additional charge
The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.62m (25ft), then additional charge after vacuuming is not necessary. If the piping length is more than 7.62m (25ft), then use the additional charge valve as indicated in the table.

<table>
<thead>
<tr>
<th>Model</th>
<th>10m/32.8ft</th>
<th>12m/39.4ft</th>
<th>15m/49.2ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>10F/ 15F</td>
<td>35</td>
<td>65</td>
<td>–</td>
</tr>
<tr>
<td>20F</td>
<td>35</td>
<td>65</td>
<td>110</td>
</tr>
<tr>
<td>25F</td>
<td>90</td>
<td>165</td>
<td>280</td>
</tr>
<tr>
<td>10FR / 15FR</td>
<td>50</td>
<td>90</td>
<td>–</td>
</tr>
<tr>
<td>20FR</td>
<td>60</td>
<td>110</td>
<td>185</td>
</tr>
<tr>
<td>25FR</td>
<td>120</td>
<td>220</td>
<td>370</td>
</tr>
</tbody>
</table>

Charge operation
This operation must be done by using a gas cylinder and a precise weighing machine. The additional charge is topped-up into the outdoor unit using the suction valve via the service port.
- Remove the service port cap.
- Connect the low pressure side of the charging gauge to the suction service port center of the cylinder tank and close the high pressure side of the gauge. Purge the air from the service hose.
- Start the air conditioner unit.
- Open the gas cylinder and low pressure charging valve.
- When the required refrigerant quantity is pumped into the unit, close the low pressure side and the gas cylinder valve.
- Disconnect the service hose from service port. Put back the service port cap.
**IR signal receiver**

When an infrared remote control operating signal has been transmitted, the signal receiver on the indoor unit will make a <beep> sound to confirm acceptance of the signal transmission.

**Cooling unit**

The table shows the LED indicator lights for the air conditioner unit under normal operation and fault conditions. The LED indicator lights are located at the bottom right side of the air conditioner unit.

### LED Indicator Lights : Normal Operation And Fault Conditions For Cooling Unit

<table>
<thead>
<tr>
<th>Timer</th>
<th>Sleep mode</th>
<th>Power ON</th>
<th>Dry mode</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>○</td>
<td>○</td>
<td>○</td>
<td></td>
<td>Timer on.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Sleep mode on.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Dry mode.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Frost prevention.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Room air sensor contact loose/short.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Indoor coil sensor contact loose/short.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Sensor contact problem, compressor overload protection trip or gas leak</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Call your dealer.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Call your dealer.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Call your dealer.</td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td>Call your dealer.</td>
</tr>
</tbody>
</table>

ON | ON or OFF | Blinking
Heat pump unit

The table shows the LED indicator lights for the air conditioner unit under normal operation and fault conditions. The LED indicator lights are located at the bottom right side of the air conditioner unit. The heat pump units are equipped with an “auto” mode sensor whereby it will provide reasonable room temperature by switching automatically to either “cool” or “heat” mode according to the temperature set by the user.

LED Indicator Lights For Heat Pump Unit

<table>
<thead>
<tr>
<th>Cool</th>
<th>Dry</th>
<th>Fan</th>
<th>Heat</th>
<th>Sleep</th>
<th>Normal Operation/Fault Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>○</td>
<td></td>
<td></td>
<td>○</td>
<td>○/●</td>
<td>Cooling mode.</td>
<td>–</td>
</tr>
<tr>
<td>○</td>
<td></td>
<td></td>
<td>○</td>
<td>●</td>
<td>Dry mode.</td>
<td>–</td>
</tr>
<tr>
<td>○</td>
<td></td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>Fan mode.</td>
<td>–</td>
</tr>
<tr>
<td>○</td>
<td>○/●</td>
<td>○/●</td>
<td>○</td>
<td>●</td>
<td>Heat mode.</td>
<td>–</td>
</tr>
<tr>
<td>●</td>
<td>○/●</td>
<td>○/●</td>
<td>●</td>
<td>●</td>
<td>Auto mode in heating operation.</td>
<td>–</td>
</tr>
<tr>
<td>○</td>
<td>○/●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Auto mode in cooling operation.</td>
<td>–</td>
</tr>
<tr>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Compressor overload protection.</td>
<td>Call your dealer.</td>
</tr>
<tr>
<td>●</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td>Indoor coil sensor contact loose /short.</td>
<td>Call your dealer.</td>
</tr>
<tr>
<td>●</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td>Outdoor coil sensor contact loose /short.</td>
<td>Call your dealer.</td>
</tr>
<tr>
<td>●</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td>Room air sensor contact loose /short.</td>
<td>Call your dealer.</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>If the system is in cool mode or heat mode (with the sleep function off), the sensor may have a contact problem, compressor overload protection trip or gas leak.</td>
<td>–</td>
</tr>
</tbody>
</table>

〇 ON 〇/● ON or OFF 〇 Blinking
AIR CONDITIONER UNIT OPERATION

Dry mode
- When the air humidity is high, the unit can operate in dry mode. Press <MODE> button and choose <DRY>.
- If the room temperature is 2°C/3.6°F higher than the set temperature, the air conditioner will operate under cooling mode until it reaches within the 2°C/3.6°F range of difference compared to the set temperature before it converts to dry mode.
- If the room temperature is within the 2°C/3.6°F range of difference compared to the set temperature, it will directly operate under dry mode.
- The unit will operate at LOW speed under dry mode.

Heat mode (for heat pump unit only)
- When the unit is switched on from cold start or defrosting cycle, the indoor fan will start to operate only after the coil reaches the desired temperature.
- When the set temperature is achieved, the indoor fan will operate until the coil cannot provide anymore additional heat.

Horizontal Air Flow Control
- For more effective air circulation, you can manually adjust the air discharge grille to the left or right.
- During cool mode operation and dry mode operation, do not direct the air discharge louver downwards for too long. If operating continues in this way, condensation may occur on the louver, thus resulting in drippings.

Hot Keep (for heat pump only)
- During compressor cut off, the indoor fan can be switched to
  (i) ON (default) or
  (ii) OFF or
  (iii) Interval on and off by setting the slide switch shown in the diagram.
- The switch is located at the front frame cover (next to the ON/OFF switch).

NOTE: When the option is selected, the power supply of the unit need to be reset in order to activate the function.

STANDARD OPERATING CONDITIONS

| Temperature                  | Ts °C / °F | Th °C / °F |
|------------------------------|--------------------------------------------|
| Minimum indoor temperature   | 19.4 / 66.9 | 13.9 / 57.0 |
| Maximum indoor temperature   | 26.7 / 80.1 | 19.4 / 66.9 |
| Minimum outdoor temperature  | 19.4 / 66.9 | 13.9 / 57.0 |
| Maximum outdoor temperature  | 46 / 114.8 | 24 / 75.2 |

| Temperature                  | Ts °C / °F | Th °C / °F |
|------------------------------|--------------------------------------------|
| Minimum indoor temperature   | 10 / 50  | –         |
| Maximum indoor temperature   | 26.7 / 80.1 | –         |
| Minimum outdoor temperature  | -8 / 17.6 | -9 / 15.8 |
| Maximum outdoor temperature  | 24 / 75.2 | 18 / 64.4 |

Ts: Dry bulb temperature.    Th: Wet bulb temperature.

ELECTROSTATIC FILTER

DUAL ACTION ELECTROSTATIC AIR PURIFYING AND DEODORIZING FILTER MEDIA AND FILTER FRAME

ACTION 1-
ELECTROSTATIC AIR PURIFYING FILTER
Removes microscopic dust, smoke and small invisible particles to keep the room air clean with pre-charged electrostatic polypropylene filter.

ACTION 2-
DEODORIZING FILTER
Removes unwanted smells and odors in the air and keeps the room air fresh with activated carbon filter.
Caution

1. The electrostatic air purifying and deodorizing filter should be replaced once every 6 months or when the filter changes color to brownish, whichever is sooner.
2. Used dusty filters should be disposed and shouldn’t be reused, even if it has been cleaned and washed.
3. The filter is a consumable part which you can purchase from your air conditioner dealer.
4. Use the new filter immediately once it has been taken out from its sealed packing. Do not unpack the new filter too early before it is actually used as this may decrease its deodorizing effect.

Warning

- Disconnect from the main power supply before servicing the air conditioner unit.
- DO NOT pull out the power cord when the power is ON. This may cause serious electrical shocks which may result in fire hazards.

AUTO RANDOM RE-START FUNCTION

If there is a power cut when the unit is operating, it will automatically resume the same operating mode when the power is restored.

Caution

Before turning off the power supply, set the remote controller’s ON/OFF switch to the “OFF” position to prevent the nuisance tripping of the unit.
If this is not done, the unit’s fans will start turning automatically when power resumes, posing a hazard to service personnel or the user.

SERVICE AND MAINTENANCE

<table>
<thead>
<tr>
<th>Service Parts</th>
<th>Maintenance Procedures</th>
<th>Period</th>
</tr>
</thead>
</table>
| Indoor air filter | 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C/104°F) with a neutral cleaning detergent.  
2. Rinse the filter well and dry before placing it back onto the unit.  
3. Do not use gasoline, volatile substances or chemicals to clean the filter. | At least once every 2 weeks. More frequently if necessary. |
| Indoor unit   | 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C/104°F) and a neutral detergent solution.  
2. Do not use gasoline, volatile substances or chemicals to clean the indoor unit. | At least once every 2 weeks. More frequently if necessary. |
**Caution**

Do not operate any heating apparatus too close to the air conditioner unit. This may cause the plastic panel to melt or deform as a result of the excessive heat.

When The Unit Is Not To Be Used For An Extended Long Period Of Time

- Operate the unit for 2 hours with the following setting.
  - Operating mode: cool
  - Temperature: 30°C/86°F
- Remove the power plug.
  - If you are using an independent electric circuit for your unit, cut off the circuit.
  - Remove the batteries in the remote control.

TROUBLESHOOTING

If any malfunction of the air conditioner unit is noted, immediately switch off the power supply to the unit. Check the following fault conditions and causes for some simple troubleshooting tips.

**Warning**

- Troubleshooting must be performed by qualified personnel.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Causes / Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The compressor does not operate 3 minutes after the air conditioner unit is started.</td>
<td>- Protection against frequent starting. Wait for 3 to 4 minutes for the compressor to start operating.</td>
</tr>
<tr>
<td>2. The air conditioner unit does not operate.</td>
<td>- Power failure, or the fuse needs to be replaced.</td>
</tr>
<tr>
<td></td>
<td>- The power plug is disconnected.</td>
</tr>
<tr>
<td></td>
<td>- It is possible that your delay timer has been set incorrectly.</td>
</tr>
<tr>
<td></td>
<td>- If the fault persist after all these verifications, please contact the air conditioner unit installer.</td>
</tr>
<tr>
<td>3. The air flow is too low.</td>
<td>- The air filter is dirty.</td>
</tr>
<tr>
<td></td>
<td>- The doors or windows are open.</td>
</tr>
<tr>
<td></td>
<td>- The air suction and discharge are clogged.</td>
</tr>
<tr>
<td></td>
<td>- The regulated temperature is not high enough.</td>
</tr>
<tr>
<td>4. Discharge air flow has bad odor.</td>
<td>- Odors may be caused by cigarettes, smoke particles, perfume etc. which might have adhered onto the coil.</td>
</tr>
<tr>
<td>5. Condensation on the front air grille of the indoor unit.</td>
<td>- This is caused by air humidity after an extended long period of operation.</td>
</tr>
<tr>
<td></td>
<td>- The set temperature is too low, increase the temperature setting and operate the unit at high fan speed.</td>
</tr>
<tr>
<td>6. Water flowing out from the air conditioner unit.</td>
<td>- Switch off unit and call dealer.</td>
</tr>
<tr>
<td>7. Hissing air flow sound from the air conditioner unit during operation.</td>
<td>- Refrigerant fluid flowing into the evaporator coil.</td>
</tr>
</tbody>
</table>

If the fault persists, please call your local dealer / serviceman.
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