Inside you will find helpful hints on how to use and maintain your air conditioner properly. Just a little preventative care on your part can save you a great deal of time and money over the life of your air conditioner. Before operating this product, please read the instructions carefully and save this manual for future use.
CONGRATULATIONS...

on your purchase of Ideal Air’s Pro | Dual Mini-Split, indoor unit. We’re proud to offer this product and believe it’s the very best in its class.

READ THIS MANUAL

Please read through these instructions before you start the installation process. Improper installation can cause damage to the unit, your personal property, and also poses a personal safety hazard.

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SAFETY PRECAUTIONS

READ SAFETY PRECAUTIONS BEFORE INSTALLATION:
Incorrect operation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a WARNING or CAUTION.

This symbol indicates that ignoring instructions may cause damage to your unit, or other property, serious injury or death.

WARNING

DO NOT attempt to service the unit yourself. This unit has no user serviceable components. Opening or removing the cover will expose you to dangerous voltage.

Never put hands or objects into the air outlet of indoor or outdoor units. These units are installed with a fan running at high speed. To touch the moving fan will cause serious injury.

CAUTION

DO NOT attempt to install this unit by yourself. This unit requires installation by qualified professionals.

Ventilate the room regularly while the air conditioner is in use, especially if there is also a gas appliance in use in this room, failure to follow these directions may result in a loss of oxygen in the room.

To prevent electric shock, turn off the power or disconnect the power supply before beginning any cleaning or other routine maintenance. Follow the directions for cleaning in the user manual.

DO NOT use liquid cleaners or aerosol cleaners, use a soft and dry cloth for cleaning the unit. To avoid electric shock, never attempt to clean the units by spraying with water.

DO NOT use caustic household drain cleaners in the unit. Drain cleaners can quickly destroy the unit components (drain pan and heat exchanger coil etc).

NOTE:
For proper performance, operate the unit in temperature and humidity ranges indicated in this owner’s manual. If the unit is operated beyond these conditions, it may cause malfunctions of the unit or dew dripping from the unit.
FOUR-WAY CASSETTE (SLIM) TYPE

Indoor Unit

1. Air outlet
2. Drain hose
3. Infrared Signal receiver
4. Timer indicator
5. Alarm indicator

Outdoor Unit

6. Vertical louver
7. Manual button/SET button
8. Connecting pipe
9. Run lamp
10. Defrost indicator heating/cooling type or fan indicator (cooling only type)
11. Alarm indicator

NOTE:
This chart is based on 18000BTU/h type. So, a little differences may exist on the outlook and functions from yours.

NAMES AND FUNCTIONS

1. Indoor Unit
2. Outdoor Unit
3. Remote Control
4. Air outlet
5. Vertical louver
6. Connecting pipe
7. Drain hose
8. Air Inlet (Air filter installed inside to prevent the dust)
9. Drain Pump (Internal installed), water drain from indoor unit.
10. Infrared Signal receiver
11. Manual button/SET button
12. Run lamp
13. Defrost indicator heating/cooling type or fan indicator (cooling only type)
14. Alarm indicator

NOTE:
These three indication lamps flash in cycles when solar PV ECO function is activated. (Applicable to the unit adopts solar photovoltaic system only.)
MANUAL OPERATION

CEILING AND FLOOR
This function is used to operate the unit temporarily in case you misplace the remote control or its batteries are exhausted. Two modes including AUTO and FORCED COOL can be selected through the TEMPORARY BUTTON on the air-in grill control box of the indoor unit. Once you push this button, the air conditioner will run in such order: AUTO, FORCED COOL, OFF, and back to AUTO.

• AUTO: The OPERATION lamp is lit, and the air conditioner will run under AUTO mode. The remote control operation is enabled to operate according to the received signal.
• FORCED COOL: The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote control operation is disabled.
• OFF: The OPERATION lamp goes off. The air conditioner is OFF while the remote control operation is enabled.

FOUR-WAY CASSETTE
This function is used to operate the unit temporarily in case you misplace the remote control or its batteries are exhausted. Two modes including AUTO and MANDATORY COOL can be selected through the TEMPORARY BUTTON on the air inlet grill control box of the indoor unit. Once you push this button, the air conditioner will run in such order: AUTO, MANDATORY COOL, OFF, and back to AUTO.

• AUTO: The OPERATION lamp is lit, and the air conditioner will run under AUTO mode. The remote control operation is enabled to operate according to the received signal.
• MANDATORY COOL: The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote control operation is disabled.
• OFF: The OPERATION lamp goes off. The air conditioner is OFF while the remote control operation is enabled.

ADJUSTING AIR FLOW DIRECTION

CASSETTE TYPE
While the unit is in operation, you can adjust the air flow louver to change the flow direction and naturalize the room temperature evenly. Thus you can enjoy it more comfortably.

• Set the desired air flow direction. Push the SWING button to adjust the louver to the desired position and push this button again to maintain the louver at this position.
• Adjust the air flow direction automatically. Push the SWING button, the louver will swing automatically.

While this function is set, the swing fan of the indoor unit runs; otherwise, the swing fan doesn’t run. The swing scale of every side is 300°. When the air conditioner isn’t in operation the SWING button will be disabled.
DUCT AND CEILING TYPE
The following is how to adjust air flow direction when air outlet part (sold separately) is used with the indoor unit.

COOLING
To effectively cool the whole room, please set the louver so that the air can come out horizontally.

HEATING
To effectively heat the bottom of the room, Please set the louver so that the air can come out downwards.

MAINTENANCE

WARNING
Before you clean the air conditioner, be sure to disconnect the power supply.

CLEANING THE INDOOR UNIT AND REMOTE CONTROL

CAUTION
• Use a dry cloth to wipe the indoor unit and remote control.
• A cloth dampened with cold water may be used on the indoor unit if it is very dirty.
• Never use a damp cloth on the remote control.
• DO NOT use a chemically-treated duster for wiping or leave such material on the unit for long, because it may damage or fade the surface of the unit.
• DO NOT use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

If you do not plan to use the unit for at least 1 month.
• Operate the fan for about half a day to dry the inside of the unit.
• Stop the air conditioner and disconnect power.
• Remove the batteries from the remote control.

CHECKS BEFORE OPERATION

CAUTION
• Check that the wiring is not broken off or disconnected.
• Check that the air filter is installed.
• Check that the outdoor unit air outlet or inlet is not blocked.

Before you clean the air conditioner, be sure to disconnect the power supply.

CLEANING THE AIR FILTER
• The air filter can prevent the dust or other particulate from going inside. In case of blockage of the filter, the working efficiency of the air conditioner may be greatly decreased. Therefore, the filter must be cleaned once every two weeks.
• If the air conditioner is positioned in a dust place, the cleaning frequency of the air filter must be increased.
• If the accumulated dust is too heavy to be cleaned, please replace the filter with a new one (replaceable air filter is an optional fitting).
CASSETTE TYPE
1 Open the air-in grill: Push the grill switches towards the middle simultaneously as indicated in sketch A. Then pull down the air-in grill.

CAUTION
The control box cables, which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.

2 Take out the air-in grill (together with the air filter shown in Sketch B) Pull the air-in grill down at 45˚ and lift it up to take out the grill.
3 Dismantle the air filter.
4 Clean the air filter (Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use soft brush and mild detergent to clean it and dry out in cool place).

CEILING TYPE
1 Open the air-in grill: Push the grill switches towards the middle simultaneously as indicated in following figure sketch. Then pull down the air-in grill.

CAUTION
The control box cables, which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.

2 Take out the air-in grill.
3 Dismantle the air filter.
4 Clean the air filter (Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use soft brush and mild detergent to clean it and dry out in cool place).
a) The air-in side should face up when using vacuum cleaner (See FIG. 1).
b) The air-in side should face down when using water (See FIG. 2).

**CAUTION**
DO **NOT** dry out the air filter under direct sunshine or with fire.

5 Re-install the air filter.
6 Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body.

**NOTE:**
High-static Pressure Parvis Split Type has no air filter.

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**AIR CONDITIONER OPERATIONS AND PERFORMANCE**

**THREE-MINUTE PROTECTION FEATURE**

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it restarts immediately after operation.

**POWER FAILURE**

Power failure during operation will stop the unit completely.
- The OPERATION lamp on the indoor unit will start flashing when power is restored.
- To restart operation, push the ON/OFF button on the remote control.
- Disconnect the unit with the power and then connect the unit with the power again.
- Push the ON/OFF button on the remote control to restart operation.

**AIR CONDITIONER OPERATING CONDITIONS**

For proper performance, run the air conditioner under the following temperature conditions:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Mode</th>
<th>Cooling operation</th>
<th>Heating operation</th>
<th>Drying operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room temperature</td>
<td>17°C<del>32°C (62°F</del>90°F)</td>
<td>0°C<del>30°C (32°F</del>86°F)</td>
<td>17°C<del>32°C/ 62°F</del>90°F</td>
<td></td>
</tr>
<tr>
<td>Outdoor temperature</td>
<td>18°C<del>43°C (64°F</del>109°F)</td>
<td>0°C<del>24°C (20°F</del>76°F)</td>
<td>18°C<del>43°C/64°F</del>109°F</td>
<td></td>
</tr>
<tr>
<td>(-7°C<del>43°C/20°F</del>109°F: For the models with low temperature cooling system)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18°C<del>52°C/64°F</del>126°F: For special tropical models</td>
<td></td>
<td></td>
<td>18°C<del>52°C/64°F</del>126°F (For special tropical models)</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**
1. If air conditioner is used outside of the above conditions, certain safety protection features may come into operation and cause the unit to function abnormally.
2. Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation. Please set the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.
3. Optimum performance will be achieved within these operating temperature.
SPECIAL FUNCTIONS: REFRIGERANT LEAKAGE DETECTION (OPTIONAL):
With this new technology, the display area will appear EC (if applicable) and the LED indication lamps continue flashing when the outdoor unit detects refrigerant leakage.

SPECIAL FUNCTIONS: LOUVER ANGLE MEMORY FUNCTION (OPTIONAL):
For some models, the machine is specially designed with louver angle memory function. Power failure during operation or pressing the ON/OFF button on the remote control will stop the unit completely. When the power restores or pressing the ON/OFF button on the remote control again, the unit restarts automatically with the previous open angle of the horizontal louver by the memory function. So we strongly recommend that the open angle of the horizontal louver should not be set too small, in case the condensed water forms and drops from the horizontal louver. Press the MANUAL CONTROL BUTTON and the open angle of the horizontal louver will be restored to the standard angle.

INSTALLATION

LOCATION
• During cooling operation, the air conditioner will dry the room air, so please fix a pipe to drain all the water away from the air conditioner.
• Please keep the indoor unit more than 1m/40” away from the TV set and the radio in order to avoid the picture and noise interference.
• Powerful radio transmitters or any other devices radiating high frequency radio waves can cause the air conditioner to malfunction.
• If the air conditioner operates in an atmosphere containing oils (machine oil), salt (near a coastal area), sulfide gas (near a hot spring), etc., such substances may lead to failure of the air conditioner.

BE CAREFUL OF NOISE OR VIBRATIONS
• Please install the unit in a stable place to avoid noise or vibrations.
• Locate the outdoor unit where noise emitted by it or hot air from its air outlet will not cause nuisance to your neighbors.
• If the air conditioner sounds abnormal during operation, contact the service professional that installed your unit or Ideal-Air™ tech support.

WIRE
• To avoid electric shock, please link the air conditioner with the ground. The plug in the air conditioner has joined the ground wiring, please don’t change it freely.
• Don’t pull the power cord.
• When linking the air conditioner with the ground, observe the local rules.
• If you want to change the power wiring, please contact a certified electrician.

RELOCATION
If you move out or if it is desired to relocate the air conditioner, consult an HVAC technician, because special certification is required to withdraw Freon, purge air and perform other operations that are necessary.

TROUBLES AND CAUSES
Before you ask for servicing or repairs, check the following points.

RECHECK
Inoperative
• The power fuse is blown or the circuit breaker has been tripped.
• The batteries in the remote control are exhausted.
• The timer is set does not cool or heat well.
• The air inlet or outlet of the outdoor unit is blocked.
• Doors or windows are open.
• The air filter is clogged with dust.

• The louver is not at the correct position.
• The fan speed is set too low.
• The temperature setting is too high or too low.

THESE ARE NOT FAILURES
Room air is smelly – A bad odor comes from the air conditioner.
• Smells in the wall, carpet, furniture, clothing, or furs, are coming out. A white mist of chilled air or water is generated from the outdoor unit.
If any of the following conditions occur, stop the air conditioner immediately, cut all power to the system, and contact a service technician:
- The indicator lamps flash rapidly (five times per second), you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash.
- Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the air conditioner.
- Any other unusual condition is observed.

## Troubles and Causes (Concerning Remote Control)

Before you ask for servicing or repairs, check the following points.

<table>
<thead>
<tr>
<th>Setting Change is Impossible</th>
<th>Symptoms</th>
<th>Causes</th>
<th>Reason and Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>The fan speed can not be changed.</td>
<td></td>
<td>Check whether the MODE indicated on the display is &quot;AUTO&quot;</td>
<td>When the automatic mode is selected, the air conditioner automatically selects the fan speed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check whether the MODE indicated on the display is &quot;DRY&quot;</td>
<td>When dry operation is selected, the air conditioner automatically select the fan speed.</td>
</tr>
<tr>
<td>The Display Goes Off</td>
<td>The indication on the display disappears after a lapse of time.</td>
<td>Check whether the timer operation has come to an end when the OFF TIMER is indicated on the display.</td>
<td>The air conditioner operation stops since the set time elapsed.</td>
</tr>
<tr>
<td></td>
<td>The ON TIMER indicators go off after a lapse of certain time.</td>
<td>Check whether the timer operation is started when the ON TIMER is indicated on the display.</td>
<td>When the time set to start the air conditioner is reached, the air conditioner will automatically start and the appropriate indicator will go off.</td>
</tr>
<tr>
<td>The Signal Receiving Tone does Not Sound</td>
<td>No receiving tone sounds from the indoor unit even when the ON/OFF button is pushed.</td>
<td>Check whether the signal transmitter of the remote control is properly directed to the receiver of the indoor unit when the ON/OFF button is pushed.</td>
<td>Direct the signal transmitter of the remote control to the receiver of the indoor unit, and then repeatedly push the ON/OFF button twice.</td>
</tr>
<tr>
<td></td>
<td>Buttons on the remote controller don't work.</td>
<td></td>
<td>Press Reset button.</td>
</tr>
</tbody>
</table>
THE FOLLOWING DISPLAYS INDICATE AN ERROR OR PROBLEM:

<table>
<thead>
<tr>
<th>NO</th>
<th>Malfunction</th>
<th>Display (nixie tube)</th>
<th>timer lamp</th>
<th>running lamp (flashes per second)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Indoor EEPROM error</td>
<td>E0.</td>
<td>OFF</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Communication malfunction between indoor and outdoor units</td>
<td>E1.</td>
<td>OFF</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Indoor fan speed malfunction</td>
<td>E3.</td>
<td>OFF</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Indoor room temperature sensor open circuit or short circuit</td>
<td>E4.</td>
<td>OFF</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Evaporator coil temperature sensor open circuit or short circuit</td>
<td>E5.</td>
<td>OFF</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Refrigerant leakage detection malfunction</td>
<td>EC.</td>
<td>OFF</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>Water-level alarm malfunction</td>
<td>EE.</td>
<td>OFF</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>Communication malfunction between two indoor units (for twins model)</td>
<td>E8.</td>
<td>OFF</td>
<td>9</td>
</tr>
<tr>
<td>9</td>
<td>Other malfunction of twins model</td>
<td>E9.</td>
<td>OFF</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>Current overload protection</td>
<td>F0.</td>
<td>ON</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Outdoor room temperature sensor open circuit or short circuit</td>
<td>F1.</td>
<td>ON</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>Outdoor condenser pipe temperature sensor error</td>
<td>F2.</td>
<td>ON</td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>Discharging air temperature sensor error</td>
<td>F3.</td>
<td>ON</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>Outdoor EEPROM error (Only for DC fan motor)</td>
<td>F4.</td>
<td>ON</td>
<td>5</td>
</tr>
<tr>
<td>15</td>
<td>Outdoor fan speed malfunction</td>
<td>F5.</td>
<td>ON</td>
<td>6</td>
</tr>
<tr>
<td>16</td>
<td>T2b sensor error</td>
<td>F6.</td>
<td>ON</td>
<td>7</td>
</tr>
<tr>
<td>17</td>
<td>Lifting panel communication checking channel is abnormal</td>
<td>F7.</td>
<td>ON</td>
<td>8</td>
</tr>
<tr>
<td>18</td>
<td>Lifting panel malfunction</td>
<td>F8.</td>
<td>ON</td>
<td>9</td>
</tr>
<tr>
<td>19</td>
<td>Lifting panel is not closed</td>
<td>F9.</td>
<td>ON</td>
<td>10</td>
</tr>
<tr>
<td>20</td>
<td>Inverter module IPM protection</td>
<td>P0.</td>
<td>Flash</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>High/Low voltage protection</td>
<td>P1.</td>
<td>Flash</td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td>High temperature protection of compressor top</td>
<td>P2.</td>
<td>Flash</td>
<td>3</td>
</tr>
<tr>
<td>23</td>
<td>Outdoor low temp. Protection</td>
<td>P3.</td>
<td>Flash</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>Compressor drive error</td>
<td>P4.</td>
<td>Flash</td>
<td>5</td>
</tr>
<tr>
<td>25</td>
<td>Mode conflict</td>
<td>P5.</td>
<td>Flash</td>
<td>6</td>
</tr>
</tbody>
</table>

The displayed error code differs from appliance to appliance. The actual display of the indoor unit shall prevail.
IMPORTANT

Product not working properly?

DO NOT return this product to the store where you purchased it.

Contact Ideal-Air™ support directly at support@ideal-air.com or call 1-877-943-3251

For answers to most common questions and a complete technical support library please visit www.ideal-air.com

All design and specifications herein are subject to change without notice for product improvement. Contact Ideal-Air™ for details, updates and other information.