Before starting up, read this manual carefully and keep it for future reference.

INVERTER SPLIT-TYPE
ROOM AIR CONDITIONER HEAT PUMP

Installation Manual

MR COOL®
COMFORT MADE SIMPLE

PREMIER

• Please read this installation manual completely before installing the product.
• If the power cord is damaged, replacement work shall be performed by authorized personnel only.
• Installation work must be performed in accordance with the national wiring Standards by authorized personnel only.
• Contact an authorized service technician for repair, maintenance or installation of this unit.
CAUTION

- Contact an authorized service technician for repair or maintenance of this unit.
- The appliance shall be installed in accordance with national wiring regulations.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.
- Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.
SAFETY PRECAUTIONS

- Read the follow SAFETY PRECAUTIONS carefully before installation.
- Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications.

| WARNING | This symbol indicates the possibility of death or serious injury. |
| CAUTION | This symbol indicates the possibility of injury or damage to property. |

The items to be followed are classified by the symbols:

| | This symbol indicates items that are PROHIBITED from doing. |

### WARNING

1. Engage dealer or specialist for installation. If installation done by the user is improper, it will cause water leakage, electrical shock or fire.

2. Install according to this installation instructions strictly. If installation is improperly, it will cause water leakage, electrical shock or fire.

3. Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, electrical shock or fire.

4. Install at a strong and firm location which is able to withstand the set weight. If the strength is not enough or installation is not properly done, the set will drop and cause injury.

5. For electrical work, follow the local national wiring standards, regulations and this installation instructions. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in electrical work, it will cause electrical shock or fire.

6. Use the specified cable and connect tightly and clamp the cable so that no external force will be acted on the terminal. If connection or fixing is not perfect, it will cause heat-up or fire at the connection.

7. Wiring routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause heat-up at connection point of terminal, fire or electrical shock.

8. When carrying out piping connection, take care not to let air substances other than the specified refrigerant go into refrigeration cycle. Otherwise, it will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury.

9. Do not modify the length of the power supply cord or use of extension cord, and do not share the single outlet with other electrical appliances. Otherwise, it will cause fire or electrical shock.

### CAUTION

1. This equipment must be grounded and installed with earth leakage current breaker. It may cause electrical shock if grounding is not performed.

2. Do not install the unit at place where leakage of flammable gas may occur. In case gas leaks and accumulates around the unit, it may cause fire.

3. Carry out drainage piping as mentioned in installation instructions. If drainage is not effective, water may enter the room and damage the furniture.

4. For the units with auxiliary electric heater, keep at least 3½ feet away from combustible materials.

For more details visit www.MrCool.com
Selecting installation site

Read completely, then follow step by step.

Indoor unit
- There should not be any heat source, inflammable gas or stream near the unit.
- There should not be any obstacles blocking air circulation.
- A place where air circulation in the room is good.
- A place where drainage can be easily done.
- A place where noise prevention is taken into consideration.
- Do not install the unit near a door.
- Ensure the restrictions on installation specified in the indoor unit installation drawings are met.
- Select a location which is firm enough for installation so that the device is not subjected to vibrations.
- The device should be installed at a distance of at least 3½ ft from all other electrical devices and installations, (e.g. TV, radio, computer, etc).
- There should not be any direct sunlight. If unavoidable, attempt to reduce UV exposure when possible.

Outdoor unit
- If an awning is built over the unit to prevent direct sunlight or rain, be careful that heat radiation from the condenser is not obstructed.
- There should not be any animals or plants near by which could be affected by hot air discharged.
- Make sure that there is sufficient space as specified in the installation drawings.
- Do not place any obstacles which may cause a short circuit of discharged air.
- Select a location which avoids causing a nuisance to neighbors from noise and air emissions.
- Select a location which is sufficiently well ventilated.
- Never cover air inlets and outlets.
- The location must be sufficiently firm for installation and vibration prevention.
- There must be no risk presented by combustible gas escaping as a result of corrosion.
- Avoid a location where there is a high salt content.
- Avoid a location which is heavily exposed to dust.
- Avoid a location to which the general public have access.

Tools needed for installation:
- Level gauge
- Screwdriver
- Electric drill, Hole core drill (Ø65 mm)
- Flaring tool set
- Specified torque wrenches: 1.8kgf.m, 4.2kgf.m, 5.5kgf.m, 6.6kgf.m
  (different depending on model No.)
- Wrench (half union)
- Hexagonal wrench (4mm-6mm)
- Gas-leak detector
- Vacuum pump
- Gauge manifold
- Users manual
- Thermometer
- Multimeter
- Pipe cutter
- Measuring tape
## ACCESSORIES

<table>
<thead>
<tr>
<th>Number</th>
<th>Name of Accessories</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Installation Plate</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Clip Anchor</td>
<td>5-8 (depending on models)</td>
</tr>
<tr>
<td>3</td>
<td>Self-tapping Screw A ST3.9x25</td>
<td>5-8 (depending on models)</td>
</tr>
<tr>
<td>4</td>
<td>Seal (For cooling &amp; heating models only)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Drain Joint (For cooling &amp; heating models only)</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Connecting pipe Assembly</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Liquidside</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ф 6.35</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ф 9.52</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gasside</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ф 9.52</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ф 12.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ф 16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parts you must purchase. The pipe size differ from appliance to appliance. Consult the technician for the proper size.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Remote controller</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Self-tapping Screw B ST2.9x10</td>
<td>optional</td>
</tr>
<tr>
<td>9</td>
<td>Remote controller holder</td>
<td>parts</td>
</tr>
<tr>
<td>10</td>
<td>Air freshening filter (used to install on Air filter)</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTE:** Except the above parts provided, the other parts needed during installation you must purchase.

### Indoor & outdoor unit installation drawings

![Diagram showing installation instructions](image)

The mounting plate should be installed on a wall which can support the weight of the indoor unit.

### CAUTION

- Use a stud finder to locate studs to prevent unnecessary damage to the wall.
- Two of the A, B and C directions should be free from obstructions.
- This illustration is for explanation purposes only.
- Copper lines must be insulated independently.

**Fig. 1**

For more details visit www.MrCool.com
INDOOR UNIT INSTALLATION

NOTE:
Ensure the mounting wall is strong and solid enough to prevent it from the vibration.

1. Installation Plate Mounting.

1. Fit installation plate horizontally on structural parts of the wall with sufficient space around the plate itself.
2. If the wall is made of brick, concrete or the like, drill five or eight 5mm diameter holes in the wall. Insert Clip anchor for appropriate mounting screws.
3. Fit the installation plate on the wall with five or eight type “A” screws.

NOTE:
Mount the Installation Plate and drill holes in the wall according to the wall structure and corresponding mounting points on the installation plate. The installation plate provided with the machine differ from appliance to appliance. (Dimensions are in “mm” unless otherwise stated)

Correct orientation of Installation Plate

NOTE:
To protect the front panel of the indoor unit during transportation, the adhesive tape have been put on in the factory as shown in the picture. Please remove all the tape before installation.

For more details visit www.MrCool.com
2. Drilling

1. Determine hole positions according to left and right side of the installation plate. The hole center is obtained by measuring the distance as shown in the diagram of Fig.2.
2. Drill the piping plate hole with φ 65mm hole-core drill.
3. Drill the piping hole at either the right or the left and the hole should be slightly slanted to the outdoor side, see Fig.3.
4. Always take steps to protect the pipe when drilling metal grid, metal plate or the like.

3. Connect the cable to the indoor unit

Electrical work

1. If there is serious safety problem with the power supply, the electrician should refuse to install the air conditioner until the problem is solved.
2. Power voltage should be in the range of 90%~110% of rated voltage.
3. The surge protector and main power switch with a 1.5 times capacity of Max. Current of the unit should be installed in power circuit. Ensure the air conditioner is grounded well.
4. The appliance shall be installed in accordance with national wiring regulations. Do not operate your air conditioner in a wet room such as a bathroom or laundry room.
5. An all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device (RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
6. For units with auxiliary electric heater, keep at least 3½ feet away from combustible materials.
7. Refer to the attached Electrical Connection Diagram located on the panel of the indoor & outdoor unit to connect wires.
8. All wiring must comply with local and national electrical codes and be installed by qualified and skilled electrician.
9. An individual branch circuit and single receptacle used only for this air conditioner must be available. See the following table for suggested wire sizes and fuse specifications:

Minimum cross-sectional area of conductors:

<table>
<thead>
<tr>
<th>Appliance</th>
<th>AWG Wire Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>13</td>
<td>16</td>
</tr>
<tr>
<td>18</td>
<td>14</td>
</tr>
<tr>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>40</td>
<td>8</td>
</tr>
</tbody>
</table>

NOTE:
- The wire size of power supply cord and interconnected wire and the current of the fuse or switch are determined by the maximum current indicated on the nameplate which located on the side panel of the unit. Please refer to the nameplate before selecting the wire size, fuse or switch.
- The controller of the air conditioner designed with a fuse protection function under abnormal conditions, the specifications of the fuse have printed on the circuit board, such as: T3.15A/250VAC, T5A/250VAC, etc.

For more details visit www.MrCool.com
Cable Connection

NOTE: Before performing any electrical work, turn off the main power to the system.
1. The inside and outside connecting cable can be connected without removing the front grill.
2. The indoor power cord type is H05VV-F or H05V2V2-F, the outdoor power cord and interconnected cord type is H07RN-F.
3. Lift the indoor unit panel up, remove the electrical box cover by loosening the screw.
4. Ensure the color of wires of outdoor unit and the terminal Nos. are the same to the indoor's respectively.
5. Wrap those cables not connected with terminals with insulation tape, so that they will not touch any electrical components. Secure the cable onto the control board with the cord clamp.

NOTE: If used as MONO unit, for the standby control needs, the cross section area of cable connected to L1, W must be sufficient for the maximum system current. The maximum system current is equal to the sum of indoor unit and outdoor unit rated current. If used as MULTI unit, W on the terminal block does not need to be connected.

![Diagram of Cable Connection]

**NOTE**
- The cable used for test purpose in the factory must be removed before connecting the cable.
- While securing the cable with the cord clamp, the connecting cable should be mounted close to the right side.

4. Pipe and Drainage Installation

Drainage

1. Run the drain hose sloping downward.
   Do not install the drain hose as illustrated in Fig.5.

2. When connecting extension drain hose, insulate the connecting part of extension drain hose with a shield pipe, do not let the drain hose slack.

![Diagram of Pipe and Drainage Installation]

Fig.4

Fig.5
Connective pipe installation
1. For the left-hand and right-hand piping, remove the pipe cover from the side panel.
2. For the right back and left back piping, install the piping as shown.

NOTE: For 9K/12K model, there is only one side drainage structure design. For 18k/24K model, one side drainage structure is standard. Both sides drainage structure is optional and can only be customized from factory. For both sides drainage structure, you may chose right, left or both sides drainage connection. If choosing both sides drainage connection, another proper drain hose is needed as there is only one drain hose offered by factory. If choosing one side drainage connection, make sure the drain hole on the other side is well plugged. The connection of the drain hose is supposed to be done by qualified installer in case of water leakage.

3. Bundle the tubing, connecting cable, and drain hose with tape securely, evenly as shown in Figure on the right.
- Condensed water from rear of the indoor unit is gathered in ponding box and piped out. Do not put anything else in the box.

CAUTION
- Connect the indoor unit first, then the outdoor unit.
- Do not allow the piping to let out from the back of the indoor unit.
- Be careful not to let the drain hose slack.
- Heat insulation should be applied to the extension drain hose of indoor unit.
- Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause drain pan to overflow.
- Never intercross nor twist the power wire with any other wire.
Indoor unit mounting
1. Pass the piping through the hole in the wall.
2. Hook the indoor unit onto the upper portion of installation plate (engage the indoor unit with the upper edge of the installation plate). Ensure the hooks are properly seated on the installation plate by moving it in left and right.
3. Piping can easily be made by lifting the indoor unit with a cushioning material between the indoor unit and the wall. Get it out after finish piping.
4. Press the lower left and right side of the unit against the installation plate until hooks engages with the their slots.

Outdoor unit installation

Outdoor installation precaution
- Install the outdoor unit on a rigid base to prevent increasing noise level and vibration.
- Determine the air outlet direction where the discharged air is not blocked.
- In the case that the installation place is exposed to strong wind such as a seaside, make sure the fan operating properly by putting the unit lengthwise along the wall or using a dust or shield plates.
- In windy areas, install the unit to prevent the admission of wind. Using suspension installation, the installation bracket should coincide with technique requirements in the installation bracket diagram.
- The installation wall should be solid brick, concrete or the same intensity construction, or actions to reinforce, damping supporting should be taken. The connection between bracket and wall, bracket and the air conditioner should be firm, stable and reliable.
- Be sure there is no obstacle which blocks radiating air.
Settlement of outdoor unit

- Anchor the outdoor unit with a bolt and nut φ 10 or φ 8 tightly and horizontally on a concrete or rigid mount.

**NOTE:** The outdoor unit you purchase may be like one of the following. Install the outdoor unit according to the dimension as indicated in the table below:

<table>
<thead>
<tr>
<th>Outdoor unit dimension mm (WxHxD)</th>
<th>Mounting dimensions A (mm)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>700x540x240</td>
<td>458</td>
<td>250</td>
</tr>
<tr>
<td>685x430x260</td>
<td>460</td>
<td>276</td>
</tr>
<tr>
<td>780x540x250</td>
<td>549</td>
<td>276</td>
</tr>
<tr>
<td>760x590x285</td>
<td>530</td>
<td>290</td>
</tr>
<tr>
<td>845x700x320</td>
<td>560</td>
<td>335</td>
</tr>
<tr>
<td>810x558x310</td>
<td>549</td>
<td>325</td>
</tr>
<tr>
<td>670x540x265</td>
<td>481</td>
<td>276</td>
</tr>
</tbody>
</table>

**Drain joint**

**NOTE:** The drain joint is slightly different according to different unit specifications. For the drain joint with the seal(Fig.11 (A)), first fit the seal onto the drain joint, then insert the drain joint into the base pan hole of outdoor unit, rotate 90° to securely assemble. To install drain joint as shown in Fig.11 (B), insert the drain joint into the base pan hole of outdoor unit until it remains fixed with a clicking sound. Connect the drain joint with an extension drain hose (locally purchased) in case of water draining off the outdoor unit during heating mode.

**Refrigerant pipe connection**

**NOTE:** Connective pipe length will affect the capacity and energy efficiency of the unit. The nominal efficiency is tested basing on the pipe length of 16 1/2 feet.

**1. Flaring work**

Main cause for refrigerant leakage is due to a defect in the flaring work. Carry out correct flaring work using the following procedure:

A: Cut the pipes and the cable.
1. Use the piping kit accessory or pipes purchased locally.
2. Measure the distance between the indoor and the outdoor unit.
3. Cut the pipes slightly longer than the measured distance.
4. Cut the cable 5 feet longer than the pipe length.
B: Burr removal
1. Completely remove all burrs from the cut cross section of pipe/tube
2. Hold the end of the copper tube/pipe in a downward direction as you remove burrs in order to avoid dropping burrs into the tubing.

C: Putting nut on
Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal(not possible to put them on after flaring work).

D: Flaring work
Firmly hold copper pipe in a die in the dimension shown in the table below.

<table>
<thead>
<tr>
<th>Outer diam. (mm)</th>
<th>A(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max.</td>
</tr>
<tr>
<td>φ6.35</td>
<td>1.3</td>
</tr>
<tr>
<td>φ9.52</td>
<td>1.6</td>
</tr>
<tr>
<td>φ12.7</td>
<td>1.8</td>
</tr>
<tr>
<td>φ16</td>
<td>2.2</td>
</tr>
</tbody>
</table>

E: Pipe length

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (Btu/h)</th>
<th>Max. Length of refrigerant pipe (ft)</th>
<th>Max. drop height (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R410A inverter split air conditioner</td>
<td>&lt;15000</td>
<td>82</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>&gt;15000 ~ 24000</td>
<td>98</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>&gt;24000 ~ &lt;36000</td>
<td>164</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>&gt;36000 ~ &lt;60000</td>
<td>213</td>
<td>98</td>
</tr>
</tbody>
</table>

2. Tightening Connection
- Align the center of the pipes.
- Sufficiently tighten the flare nut with fingers, and then tighten it with a spanner and torque wrench as shown in Fig.16 & 17.

<table>
<thead>
<tr>
<th>Outer diam.</th>
<th>Tightening torque(N.cm)</th>
<th>Additional tightening torque(N.cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>φ6.35</td>
<td>1500 (153kgf.cm)</td>
<td>1600 (163kgf.cm)</td>
</tr>
<tr>
<td>φ9.52</td>
<td>2500 (255kgf.cm)</td>
<td>2600 (265kgf.cm)</td>
</tr>
<tr>
<td>φ12.7</td>
<td>3500 (357kgf.cm)</td>
<td>3600 (367kgf.cm)</td>
</tr>
<tr>
<td>φ16</td>
<td>4500 (459kgf.cm)</td>
<td>4700 (479kgf.cm)</td>
</tr>
</tbody>
</table>

Caution
- Excessive torque can break nut depending on installation conditions.

For more details visit www.MrCool.com
Connect the cable to the outdoor unit
1. Remove the electrical control board cover from the outdoor unit by loosening the screw.
2. Connect the connective cables to the terminals as identified with their respective matched numbers on the terminal block of indoor and outdoor units.
3. Secure the cable onto the control board with the cord clamp.
4. To prevent the ingress of water, form a loop of the connective cable as illustrated in the installation diagram of indoor and outdoor units.
5. Insulate unused cords (conductors) with PVC-tape. Place them so they do not touch any electrical or metal parts.

Air purging
Air and moisture in the refrigerant system may have undesirable effects such as:
- Rising system pressure.
- Rising operating current.
- Cooling or heating efficiency drops.
- Moisture in the refrigerant circuit may freeze and block capillary tubing.
- Water may lead to corrosion of parts in the refrigeration system.

Therefore, the indoor unit and tubing between the indoor and outdoor unit must be leak tested and evacuated to remove any trash and moisture from the system.

1. Air purging with vacuum pump
   - Preparation
     Check that each tube (both liquid and gas) between the indoor and outdoor units has been properly connected and all wiring for the test run is completed. Remove service valve caps from both the gas and the liquid side on the outdoor unit. Note that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

   - Pipe length and refrigerant amount:

<table>
<thead>
<tr>
<th>Connective pipe length</th>
<th>Air purging method</th>
<th>Additional amount of refrigerant to be charged</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 24.6ft</td>
<td>Use vacuum pump.</td>
<td></td>
</tr>
<tr>
<td>More than 24.6ft</td>
<td>Use vacuum pump.</td>
<td>Liquid side: +6.35 R22: (Pipe length-7.5)x30g/m R410A: (Pipe length-7.5)x15g/m</td>
</tr>
</tbody>
</table>

**NOTE:** Connective pipe length will affect the capacity and energy efficiency of the unit. The nominal efficiency is tested basing on the pipe length of 24.6ft.
OUTDOOR UNIT INSTALLATION

- When relocating the unit, perform evacuation using vacuum pump.
- Make sure refrigerant added into the air conditioner is liquid form in any case. (Not applicable to freon R22 units)

Exercise caution in handling the packed valve
- Open the valve stem until it hits against the stopper. Do not try to open it further.
- Securely tighten the valve stem cap with a spanner or the like.
- Valve stem cap tightening torque (See Tightening torque table in previous page).

2. When Using the Vacuum Pump
(For instructions on using a manifold valve, refer to its operation manual.)
1. Comptely tighten the flare nuts, A, B, C, D, connect the manifold valve charge hose to a charge port of the low-pressure valve on the gas pipe side.
2. Connect the charge hose connection to the vacuum pump.
3. Fully open the Handle Lo of the manifold valve.
4. Operate the vacuum pump to evacuate. After starting evacuation, slightly loose the flare nut of the Lo valve on the gas pipe side and check that the air is entering (Operation noise of the vacuum pump changes and a compound meter indicates 0 instead of minus).
5. After the evacuation is complete, fully close the handle Lo of the manifold valve and stop the operation of the vacuum pump. Make evacuation for 15 minutes or more and check that the compound meter indicates -76cmHg (-1x10^5 Pa).
6. Turn the stem of the packed valve B about 45° counterclockwise for 6~7 seconds after the gas coming out, then tighten the flare nut again. Make sure the pressure display in the pressure indicator is a little higher than the atmosphere pressure.
7. Remove the charge hose from the Low pressure charge hose.
8. Fully open the packed valve stems B and A.
9. Securely tighten the cap of the packed valve.
3. Safety and leakage check
   • Electrical safety check
   Perform the electric safe check after completing installation:
   1. Grounding work
      After finishing grounding work, measure the grounding resistance by visual detection and
grounding resistance tester. Make sure the grounding resistance is less than 4 Ω.

   2. Electrical leakage check (performing during test running)
      During test operation after finishing installation, the serviceman can use the electrophore
and multimeter to perform the electrical leakage check. Turn off the unit immediately if
leakage happens.

   • Gas leak check
   1. Soapy water method:
      Apply a soapy water or a liquid neutral detergent
on the indoor unit connections and outdoor unit
connections with a soft brush to check for leakage
of the connecting points of the piping. If bubbles
come out, it indicates that the pipes have leakage.

   2. Leak detector
      Use the leak detector to check for leakage.

   CAUTION
   A: Lo packed valve B: Hi packed valve
   C and D are ends of indoor unit connection.

TEST RUNNING
Perform test operation after completing gas leak check of the flare nut connections and
the electrical safety check.
• Check that all tubing and wiring have been properly connected.
• Check that the gas and liquid side service valves are fully open.

1. Connect the power, press the ON/OFF button on the remote controller to turn the unit on.
2. Use the MODE button to select COOL, HEAT, AUTO and FAN to check if all the functions
   works well.
3. When the ambient temperature is too low(lower than 62 °F), the unit cannot be controlled
   by the remote control to run at cooling mode, manual operation can be taken. Manual
operation is used only when the remote control is disabled or maintenance is necessary.
• The manual control button is on the bottom of the unit as shown in the picture. One press
   of the manual control button will lead to the forced AUTO operation. If button is pressed
twice within five seconds, the unit will operate under forced COOL operation(see User
Manual for details).
4. The test operation should last about 30 minutes.
Product design and specifications are subject to change without prior notification. Contact the original seller or the product manufacturer for additional details.

CS290I-BP11P(USHL)