

A **TATA** Product

**VOLTAS**

# Split Type INVERTER Air-Conditioner

**2** free service  
coupons inside

**OWNER'S MANUAL**  
For JZ, SZ, MZ, ZZ,  
IZ, CZ, GZ, AD, DZ  
SERIES/173V WZJ

Voltas 24x7 Customer Care - 9650694555/1860 599 4555 or SMS <AC> to 56677 [www.myvoltas.com](http://www.myvoltas.com)

Dear Customer,

Welcome to the Voltas family.

Congratulations for your new air conditioner and thank you for trusting Voltas and considering us. We understand what it takes to get this, and certainly there must have been lots of planning and research involved before the purchase. We reassure that what you've made is the right choice.

With over 6 decade of presence in the industry, our ACs have performed extremely well, saved electricity and the fine looks always helped them stay ahead of the competition. And that's why, we've always found our place on top of every shopper's list.

To get the best performance from your Voltas AC, follow these instructions:

- Make sure that a certified executive installs the AC
- Please read the directions in this Operation Manual carefully to make your Voltas experience a brilliant one.

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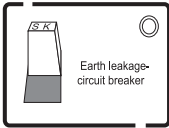
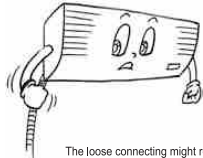
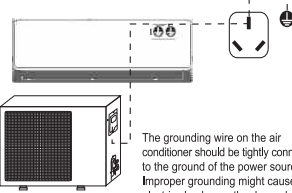
**Accessories****VOLTAS**

<b>S.No</b>	<b>Name of Accessory</b>	<b>Qty.</b>
1	Mounting Plate	1
2	Mounting Plate fixing Screws M4X25	6
3	Wireless remote controller	1
4	Batteries for remote controller (AAA size)	2
5	Drain Pan-(Applicable for Heat & Cool models only)	1
6	Owner's Manual	1






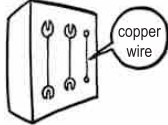
Please read the "Instruction Manual" carefully prior to the use of your air conditioner so as to ensure proper operations.
















**Instructions for Installation**

- Make sure to have the professional after-sale service persons of our company or the authorized dealers to install the units before you use.

<p>1. The units are not to be installed at places where there might be leakage of combustible gases.</p>  <p>In case that the leaked gas accumulates around the units, there might occur the accident of fire hazards.</p>	<p>Make sure that the earth leakage-circuit breaker is installed.</p>  <p>Absence of the earth leakage-circuit breaker might lead to electric shock and some other hazards.</p>
<p>After the connecting of the wires between the indoor unit and the outdoor unit, check whether the connecting is loose or not by pulling the wire with a little force.</p>  <p>The loose connecting might result in fire hazard.</p>	<p>Make sure that the air conditioner is properly grounded.</p>  <p>The grounding wire on the air conditioner should be tightly connected to the ground of the power source. Improper grounding might cause electric shocks or other hazards.</p>

**Instructions for Operation**

<p>Never try to stop the operation of the air conditioner by pulling out the power supply line.</p>  <p>Such performance might cause electric shocks or fire hazards.</p>	<p>Do not connect the power supply line to an intermediate connector. Use of prolonged power line is strictly forbidden. Nor is it allowed to share the same plug connector with other electric appliances.</p>  <p>It might cause electric shocks, overheating, fire hazards or other accidents.</p>	<p>Do not press, stretch, damage, heat or modify the power line.</p>  <p>It might cause electric shocks, overheating, fire hazards, etc. If the power line wire is damaged or needs to be replaced due to some other reasons, please make sure to have dealer or the authorized maintenance people to do the replacement.</p>
<p>Do not operate the switch by wet hands.</p>  <p>It might cause electric shocks.</p>	<p>Before the connector is plugged in, please make sure that there is no dust on it and that it is plugged fully in place.</p>  <p>If there is dust on the plug or if the plug is not in place, it might cause electric shocks or fire hazards.</p>	<p>Never use the fuse with incorrect capacity or any other metal wires.</p>  <p>The use of metal or copper wires for fuse might cause operational failures or fire hazards.</p>

<p>Try to avoid the sunlight and hot air from entering the room.</p>  <p>I'm scorched!</p> <p>During the cooling operation, curtains or window-blinds should be used to shade off the sunlight.</p>	<p>Try to minimize the generation of heat during the operation of cooling.</p>  <p>Place the heating sources out of the room.</p>	<p>Do not use combusting apparatuses in the air-conditioned room.</p>  <p>It might lead to the incomplete combustion of these apparatuses.</p>
<p>Do not place insecticides or paints and other flammable sprays near the air conditioner, or spray them directly at the air conditioner.</p>  <p>It might cause fire hazards.</p>	<p>When it is necessary to use the air conditioner and the combusting apparatuses in the same room, air ventilation has to be made from time to time.</p>  <p>Insufficient ventilation might lead to lack of oxygen or some other dangers.</p>	<p>Prior to the maintenance of the air conditioner, please cut off the power supply first. Never do the cleaning of the units when the fan is in high-speed operations.</p> 
<p>Do not insert sticks, bars or finger into the air vents.</p>  <p>Dangerous!</p> <p>As the fan is in high-speed operation, the insertion might lead to accidents or personal injury.</p>	<p>Adjust the air direction correctly.</p>  <p>Properly adjust the up/down and left/right directions of the air flow so as to get the even room temperature.</p>	<p>Do not keep exposed to the cool air/warm air for long time.</p>  <p>It might cause discomforts of the body, which is harmful to your health.</p>
<p>Do not clean the air conditioner with water.</p>  <p>It might cause electric shocks.</p>	<p>Do not attach, hang or stack articles on the air conditioner.</p>  <p>It might lead to the falling down of the air conditioner unit, which will result in accidents or injuries.</p>	<p>Check the supporting structures of the units carefully.</p>  <p>In case of damages, the supporting structures should be immediately repaired so as to avoid falling down of the unit, which might cause human injuries or other accidents.</p>
<p>Do not sit on the outdoor unit or place any other objects on it.</p>  <p>The falling down of the unit or the objects might cause human injuries and other accidents.</p>	<p>Do not use the following substances:</p>  <p>Hot water (over 40°C or 104°F) The use of hot water will deform the air conditioner or make it fade in color. Gasoline, paint diluent, benzene and polishing agents, etc. These substances will deform the air conditioner or cause scratches.</p>	<p>Pull out the plug when the unit is not in use for long time so as to ensure safety.</p>  <p>When the plug is to be pulled out, make sure that the switch of the air conditioner is turned off.</p>

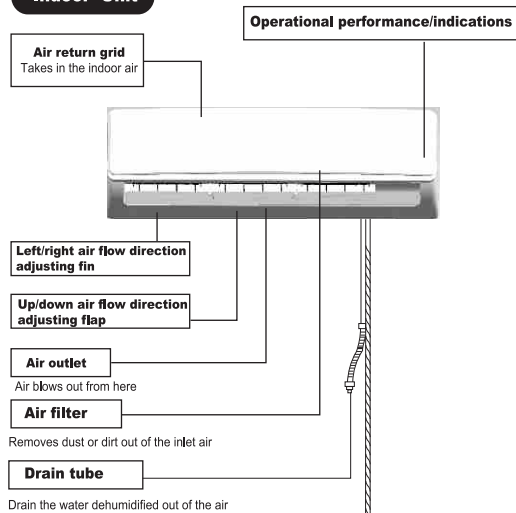
**Instructions for Removal and Repair**

- When removal or repair is needed, please contact the dealer or authorized maintenance & installation people.
- In case of any abnormal occurrences (smell of burning), please stop the operation at once, cut off the power supply and contact the dealer or authorized maintenance people.
- Beware of Fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. The refrigerant within the air conditioner is safe & normally does not leak. However in the event of leakage, contact with naked burner, heater or cooker may result in generation of noxious gas. Do not use the air conditioner until a qualified service person confirms that the leakage has been repaired.

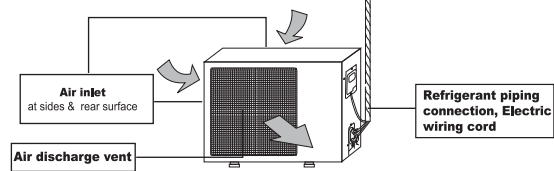
## Name of Each Part and its Function **VOLTAS**

Because there are many models, features and appearance will vary, we only introduce the following pattern, others please refer to using.

### Indoor Unit



### Outdoor Unit



### Unit operation section

#### How to open

Lightly pull both sides of the air inlet grill to this side till a resistance is felt.

#### How to close

Push down the air inlet grid and then push both sides of air inlet grid at the bottom.

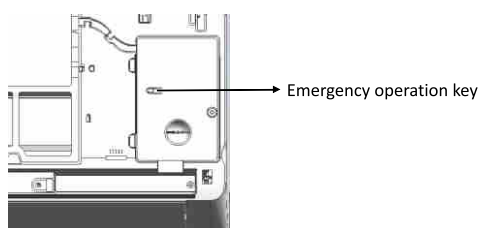


● **Note:** Do not open the grid at an angle over 60 degrees. Do not operate the units with too much force.

## Emergency Operation Key

**VOLTAS**

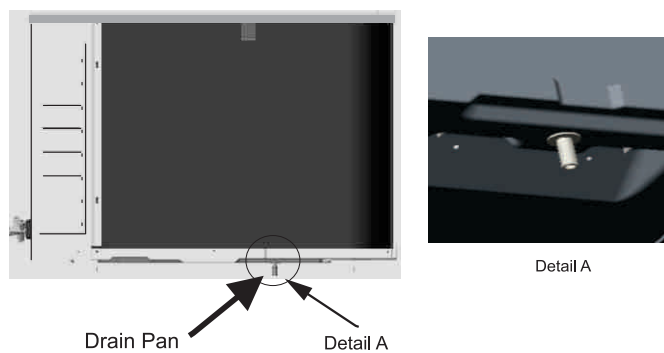
This button can be used as an emergency measure to turn on/off unit when remote controller is not available.



When the remote controller is lost or damaged, use the emergency operation key on the main unit. In such an event, the unit operates in the Cool Mode.

### Drain pan: (Applicable for Heat-Cool series models)

The provision of drain pan given in outdoor unit is for draining the water when machine runs in heat mode.



Refer the image for assembled drain pan in outdoor unit.



Unit are equipped with a switch to run emergency operation mode. It can be accessed by opening the front panel. This switch is used for manual operation (Turn On / Off) in case the remote controller fails to work or maintenance necessary. In such event, the unit operates in the Cool mode.



Manual  
Switch

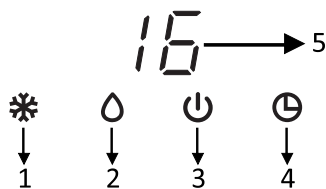
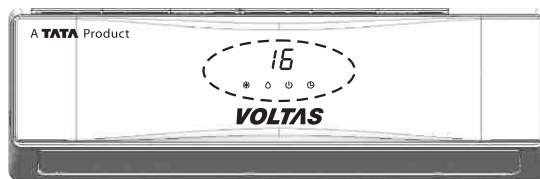
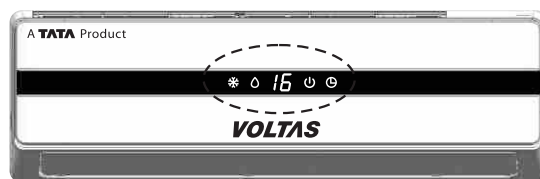
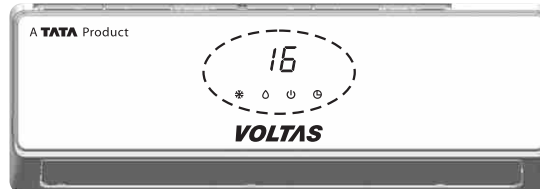
### **INDOOR DISPLAY**



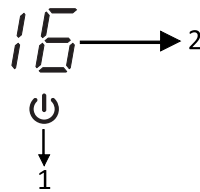
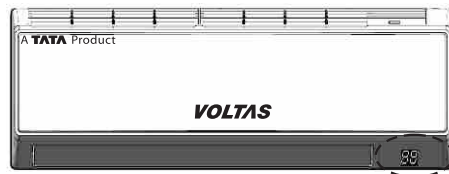
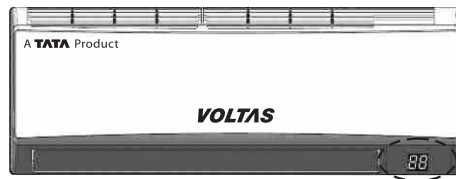
Display will be blank when AC will be in off condition.  
Set temperature will always appear on the display.  
Room temperature will appear on the display when room temperature command will be received by the controller from the remote.

## Indoor Display

**VOLTAS**

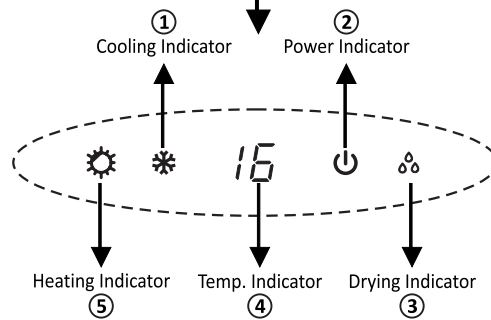


- 1. Cool Mode Indicator**  
Illuminates in white colour when the air conditioner runs in cool mode.
- 2. Dry Mode Indicator**  
Illuminates when the air conditioner is in the dry mode of operation.
- 3. Power Indicator**  
Illuminates when the air conditioner is in standby mode.
- 4. On/Off Timer Indicator**  
Illuminates when a timer has been set.
- 5. Digital Display Indicator**  
Display the current temperature setting when the air conditioner is in Cool/Dry Mode.  
"Ht" display when the air conditioner is in heat mode. (Heat mode will be applicable for heat cool series models only.)



- 1. Power indicator**  
Illuminates when the Air conditioner is in standby mode.
- 2. Digital Display indicator**  
Displays the current temperature setting when the air conditioner is in operation.

Note :- IDU Display/Size Depending upon Model to Model.



1. **Cool Mode Indicator**  
Illuminates in white colour when the air conditioner runs in cool mode.
2. **Power Indicator**  
Illuminates when the air conditioner is in standby mode.
3. **Dry Mode Indicator**  
Illuminates when the air conditioner is in the dry mode of operation.
4. **Digital Display Indicator (Temp. Indicator)**  
Display the current temperature setting when the air conditioner is in operation.
5. **Heating Indicator**  
Heat mode not available.

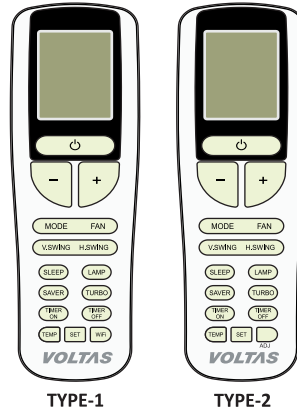
## General Feature & Replacement of Batteries **VOLTAS**

### **GENERAL FEATURE:**

The Controller has following features--

- Display : Dual digit display with 7 Led Indicators.
- Preset temperature setting from 16°C to 30°C.
- Compressor delay protection.
- Different fan speed i.e. Low, Medium, High and Auto.
- Timer can be set in hour to turn ON/OFF the machine.
- Memory backup in case of power failure.
- Anti Fungi Function.

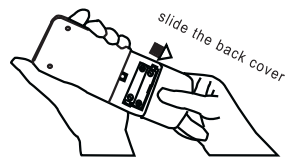
"Remote Key Features varies depending upon model to Model.  
Some Features might not work with the unit purchased"



### **Anti Fungi Function :**

While Compressor is ON and user turn OFF the Air Conditioner from the remote, then compressor will go OFF immediately but Blower remains ON and Louver open for some time, after that blower become off and Louver get closed.

### **REPLACEMENT OF BATTERIES**



- When the signal from the remote controller becomes weak and the indoor unit can not receive it properly; or the indications on the display screen becomes blurred, please slide the back cover and replace with two new batteries.
- The positive and negative poles must match the installation positions.
- New batteries of the same type have to be used for replacement.
- If the remote controller is not to be used for long time, take out the batteries so as to prevent the leakage of the electrolyte from damaging the controller.
- If when the remote controller is at abnormal state, you can take out the batteries on the back cover to clear off the display.

**I/O ON/OFF**

Press this key to turn the machine on/off. The AC always starts with the previous settings.

**FAN**

Pressing this key, Fan speed will change in Low - Medium -High -Auto speed sequence. Auto speed can be set only in cool mode. In Auto speed operation, Fan speed will be controlled automatically based on the difference between the set and room temperature. If user feel uncomfortable due to auto Fan operation, he can switch to manual selection of Fan speed.

**MODE**

Select Fan, Cool, Dry and Heat function by using mode key. (Heat mode will be applicable for heat cool series models Only.)

**UP/DOWN**

Set Temperature and timer value can be increased/decreased by using this key.

**VERTICAL SWING**

Vertical swing motor starts/stop by swing key. Fan motor starts running only after when the flap is opened.

**HORIZONTAL SWING**

Applicable for horizontal swing series models.

**TIMER**

ON/OFF timer can be set with the help of up & down Key, timer on, timer off and set key, to cancel the On timer press the respective key twice.

**SLEEP**

Sleep function can be set only in cool mode, in this function, Set temperature will increase by 1 degree C in first 1 hour, total 2 degree C will be increase in 2 hours.

**TURBO**

Turbo feature can be operated by pressing turbo key. Enabling turbo key will set the fan speed at high speed.

**LAMP**

This key is used to ON/OFF the display of indoor unit.

- i. Whenever Lamp function is enabled, display will go off except function indicator.
- ii. When Lamp is enabled, if user press the temperature up/down key, display will become on for 5 second only from last key pressed.

**SAVER**

This key is used to active/deactive saver feature. when saver is active, set temp will be 24 degree and fan speed will be set at medium.

**TEMP/FEELING**

If user presses the Temp/Feeling key, Room temperature will appear on the IDU display for 5 second.

**WI-FI**

This feature will be available only in Wi-Fi series models. For more information about Wi-Fi feature, please refer to other manual provided with the Machine or visit to [www.myvoltas.com](http://www.myvoltas.com) and download the Wi-Fi enabled Ac's reference manual.

**ADJ**

This key is used to Active/Deactive Flexi Cooling Feature.

(This Feature is applicable for selected models only.)

**REMOTE KEY PAD LOCK**

Press "+" & "-" Buttons simultaneously to lock remote keys & press both again to unlock.

## Special Features/Operating Modes **VOLTAS**

### **SPECIAL FEATURES :**

- 1. SUPER DRY** - Press Mode Key on remote to enter Dry Mode, Based on room temperature Dry Mode automatically starts with Super Dry function which removes humidity level quickly as compared to conventional Dry mode.  
While Super Dry is working
  - A. IDU Display continuously show "Sd"
  - B. FastAuto swing louver can not be changed.
  - C. Set temp & fan speed can not be changed.This Feature is applicable for selected models only.
- 2. FLEXI COOLING** - During this function Optimum Cooling with Low Power Consumption is achieved based on customer requirement . In Cool Mode press ADJ key on remote to select this function & to deselect this function press ADJ key again .  
While Flexi Cooling is working , IDU display show "Ad".  
In cool mode either Saver function or Flexi cooling function will work , Both function can not work together.  
This Feature is applicable for selected models only.

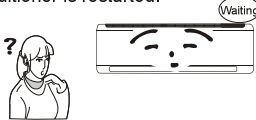




### **OPERATING MODES :**

- 1. FAN MODE :**
  - Indoor fan will run at selected speed (except Fan auto).
  - Compressor will be off in fan mode.
- 2. COOL :**
  - In Cool Mode set temperature is adjustable between 16 Degree to 30 Degree C.
  - Indoor fan will run at selected fan speed.
  - Compressor will adjust speed accordingly in order to maintain the room temperature when room temperature > set +1°C.
  - Compressor will adjust speed accordingly in order to maintain the room temperature when room temperature < set -1°C.
- 3. HEAT** (Applicable for Heat-Cool series models)
  - In Heat Mode, set temperature is adjustable between 16 Degree to 30 Degree C.
  - Indoor fan will run at selected fan speed.
  - Compressor will adjust speed accordingly in order to maintain the room temperature when room temperature < set -1°C.
  - Compressor will adjust speed accordingly in order to maintain the room temperature when room temperature > set +2°C.
- 4. DRY MODE :**  
In Dry Mode :-
  - Fan Speed will be low & set Temp 24°C can't be changed.
  - Compressor cycling will be same as it is in cool mode.
- 5. PROTECTION FEATURES :**
  - Sensor Fail Protection.
  - Defrost Protection in cool mode.
  - Defrost Protection in heat mode.
  - Fan Motor Protection.

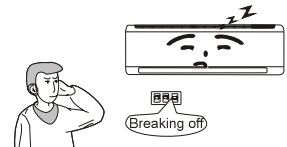
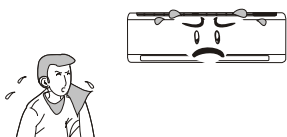
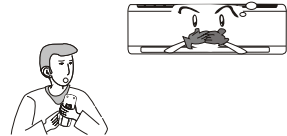


### CAUTION

Don't attempt to repair the air conditioner by yourself, it can cause an electric shock or fire. Please check the following items before asking for repair, it can save your time and money.

Phenomenon	Troubleshooting
<p>Does not operate immediately when the air conditioner is restarted.</p> 	<ul style="list-style-type: none"> <li>Once the air conditioner is stopped, Compressor will take approx. 3 minutes to restart.</li> </ul>
<p>There's unusual smell blowing from the outlet after operation is started.</p> 	<ul style="list-style-type: none"> <li>The unit has no peculiar smell by itself. If has, that is due to the smell accumulated in the ambient.</li> <li>Solution method : Cleaning the filter. If the problem still persists, so need to clean air conditioner. (Please contact with the authorized maintenance center.)</li> </ul>
<p>Sound of water flow can be heard during the operation.</p> 	<ul style="list-style-type: none"> <li>While air conditioner is running for while the compressor get started or stopped, Refrigerated sound can be heard.</li> <li>This is a normal function.</li> </ul>
<p>In COOL mode, sometimes the mist emitted from the air outlet vent.</p> 	<ul style="list-style-type: none"> <li>When the indoor temperature and humidity are very high, this phenomenon would happen. This is caused by the room air is swiftly cooled down. After running for a while, indoor temperature and humidity will fall down, the mist will go away.</li> </ul>
<p>Creaking noise can be heard when start or stop the unit.</p> 	<ul style="list-style-type: none"> <li>This is caused by the deformation of plastic due to the changes in temperature.</li> </ul>



Phenomenon	Troubleshooting
<p>The unit does not run.</p> 	<ul style="list-style-type: none"> <li>● Has the power been shut down?</li> <li>● Is the power plug loose?</li> <li>● Is the circuit protection device tripped off or not?</li> <li>● Is voltage higher or lower? (Tested by professionals)</li> <li>● Is the TIMER correctly used?</li> </ul>
<p>Cooling(Heating) efficiency is not good.</p> 	<ul style="list-style-type: none"> <li>● Is Temp. setting suitable?</li> <li>● Were inlet and outlet vents obstructed?</li> <li>● Is filter dirty?</li> <li>● Are the windows and doors closed?</li> <li>● Was Fan speed set at low speed?</li> <li>● Is there any heat sources in the room?</li> </ul>
<p>Wireless remote control is not available.</p> 	<ul style="list-style-type: none"> <li>● The unit is interfered by abnormal or frequent functions switchover occasionally the controller cannot operate. At this time, you need to pull out of the plug, and reinsert it.</li> <li>● Is it in its receiving range? Or obstructed? check the batteries is charged, otherwise to replace the batteries.</li> <li>● Whether the wireless remote control is damaged.</li> </ul>
<p>If water leakage in the room.</p>	<ul style="list-style-type: none"> <li>● The air humidity is on the high side.</li> <li>● Condensing water over flowed.</li> <li>● The connection position of indoor unit drainage pipe is loosed.</li> </ul>
<p>If water leakage in outdoor unit.</p>	<ul style="list-style-type: none"> <li>● When the unit is running in COOL mode, the pipe and connection of pipe would be condensed due to the water cooled down.</li> <li>● When the unit is running in Auto Defrosting mode the ice thaws and flows out.</li> <li>● When the unit is running in HEAT mode, the water adhered on heat exchanger drips off.</li> </ul>
<p>Noise from indoor unit emitted.</p>	<ul style="list-style-type: none"> <li>● The sound of fan or compressor relay is switching on or off.</li> <li>● When the defrosting is started or stop running, it. That is due to the refrigerant flowed to the reverse direction .Can be the sound of fan on the compressor, switching on and off while defrosting, as the refrigerant flows in the opposite direction.</li> </ul>

Phenomenon	Troubleshooting
<p>Indoor unit does not blow air.</p> <p>(* Applicable for Heat Cool models only.)</p>	<ul style="list-style-type: none"> <li>● In HEAT mode, when the temperature of indoor heat exchanger is very low, that will stop deliver air in order to prevent cool air. (Within 2min)</li> <li>* In HEAT mode, when the outdoor temperature is low or high humidity, there are much frost is formed on the outdoor heat exchanger, that the unit will automatically defrosting due to which, indoor unit stop blowing air for 3-12min. During the defrosting, there is water flowing out or vapor be produced.</li> <li>● In dehumidifying mode, sometimes indoor fan get stop, in order to avoid condensing water be vaporized again, to restrain temperature from rising.</li> </ul>
<p>Moisture on air outlet vent.</p>	<ul style="list-style-type: none"> <li>● If unit is running under the high humidity for a long time, the moisture will be condensed on the air outlet grill and drip off.</li> </ul>



**Immediately stop all operations and plug out, contact the dealer in following situations.**

- There is harsh sound during operation.
- The terrible odour emitted during operation.
- Water is leaking in the room.
- Air switch or protection switch often breaks.
- Carelessly splash water or something into unit.
- There is an abnormal heat in power supply cord and power plug.

▶ **Stop running and pull out of the plug.**



### Caution

- Turn power off and pull out the power plug before cleaning air conditioner, or it may cause electric shock.
- Never sprinkle water on the indoor unit and the outdoor unit for cleaning because it can cause an electric shock.
- Volatile liquid (e.g. thinner or gasoline) will damage the air conditioner. (So wipe the units with a dry soft cloth, or a cloth slightly moistened with water or cleanser.)

### Clean the front panel

When cleaning the front panel, please dip the cloth into the water temperature of 45°C below, then dry the cloth and wipe the dirty part.

Note: Please do not to immerse the front panel in water, due to as microcomputer components and circuit diagrams on the front panel.

### Clean the air filter (Recommended once every three months)

NOTE: If dust is much more around the air conditioner, the air filters should be cleaned many times. After taking off the filter, don't touch the fin of indoor unit, in order to avoid hurting your fingers.

#### ① Take down the air filter

At the slot of surface panel to open an angle, pull the air filter downward and take it out, please see the Fig. 4(a, b).

(Care should be taken while opening the Front Panel by lifting from both side properly.)

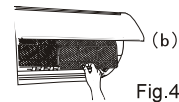
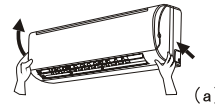
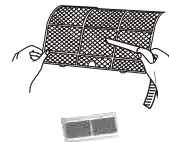


Fig.4

#### ② Clean the air filter

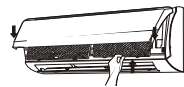
To clean the dust adhering to the filters, you can either use a vacuum cleaner, or wash them with warm water the water with the neutral detergent should below 45 degree), and dry it in the shade.

NOTE: Never use water above 45°C to clean, or it can cause deformation or discoloration. Never parch it by fire, or can cause a fire or deformation.



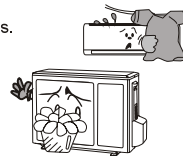
#### ③ Insert the air filter

Reinsert the filters along the direction of arrowhead, and then to cover and clasp it.



### Check before use

- ① Be sure that nothing obstructs the air outlet and intake vents.
- ② Check that whether ground wire is properly connected or not.
- ③ Check that whether the batteries of air conditioner are changed or not.
- ④ Check that whether the installation stand of the outdoor unit is damaged or not. If damaged, please contact the dealer.



## Maintain after use

- ① Turn main power off.
- ② Clean the filter and indoor and outdoor units' bodies.
- ③ Clear dust and obstructions from the outdoor unit.
- ④ Repaint the rubiginous place on the outdoor unit to prevent it from spreading.
- ⑤ Adopt the special shield to cover the outdoor unit, to avoid the rain water and dust to enter the unit and get rust.

**DC inverter testing procedure****Full Load Cooling testing procedure**

1. To enable the test mode, switch on the Unit and set it to "Cooling" Mode.
2. Set temp. as "16°C" and fan speed to "High".
3. Press "Lamp" button key on the remote for 8 times continuously.
4. As the test mode gets enable, twice buzzer sound will come with whole LED light panel lights up and starts blinking on indoor display.

Details set temperature and operating conditions information as below

Cooling condition		Setting temperature	Description
Indoor	Outdoor		
27/19	35/24	16°C	Full Load Cooling

**Half Load Cooling testing procedure**

1. To enable the test mode, switch on the Unit and set it to "Cooling" Mode.
2. Set temp. as "17°C" and fan speed to "High".
3. Press "Lamp" button key on the remote for 8 times continuously.
4. As the test mode gets enable, twice buzzer sound will come with whole LED light panel lights up and starts blinking on indoor display.

Details set temperature and operating conditions information as below

Cooling condition		Setting temperature	Description
Indoor	Outdoor		
27/19	35/24	17°C	Half Load Cooling

Note : On power reset, controller will come out from the test mode and will run in normal operation. To enter in test mode, user has to again follow the procedure from point 1 in both load condition.

## Instructions for Installation

**VOLTAS**

### ⚠ CAUTION

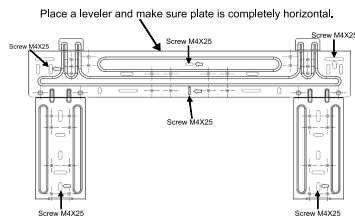
- Only authorised experienced & properly instructed person should handle gases under pressure.
- The air conditioner is not allowed to use in a room that has running fire (such as fire source, kitchen, working coal gasware, operating heater)
- Appliance shall be installed, operated & stored with a floor area larger than 4 sq meter with well ventilation.
- Check power condition of the house, it should have proper earthing, no power fluctuation and use of proper rated circuit breaker
- Extra precaution should be done during flaring of installation pipe, refrigerant may leak due to improper flaring.
- Make sure there is no loose wire connection or any loose fixing at terminals. If wire extension is required, use proper jointer to connect both wire.
- It is not allowed to drill hole or burn the connection pipe.
- Leak test is must after installation
- Do not install machine.
  - At Potentially explosive atmosphere
    - Places where there is risk of fire due to leakage of flammable gases (example- thinner or gasoline)
    - Places where corrosive gas (example- Sulphurous acid gas) is produced which can cause refrigerant leakage due to corrosion of copper pipes/solder parts
    - Near heat source/steam source.

### 【Selection of installation positions for indoor unit】

- To be installed at the position where the air delivered from the unit can reach every corner of the room;
- To avoid being affected by the outdoor air;
- To avoid blockage to the air inlet or outlet of the unit;
- To avoid too much oil smoke or steam;
- To avoid possible generation, inflow, lingering or leakage of flammable gases;
- To avoid high-frequency facilities (such as high frequency arc welders, etc.);
- To avoid the places where acid solutions are frequently used;
- To avoid the places where some special sprayers (sulfides) are frequently used.
- Not to install on top of the musical instruments, TV, computer etc. valuable appliance.
- Not to install a fire alarming device near the air outlet of the unit (during operation, the fire alarm device might be erroneously triggered by the warm air from the unit);

### ■ Make sure of enough space for installation and maintenance for Indoor & Outdoor Unit.

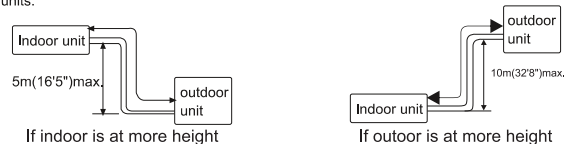
- To take into consideration the operational convenience and safety in installation, it is recommended to ensure enough space between the unit and the walls.



**Attention: If there are some additional function devices to install on the air conditioner, Be sure add to the installation space for the function devices.**

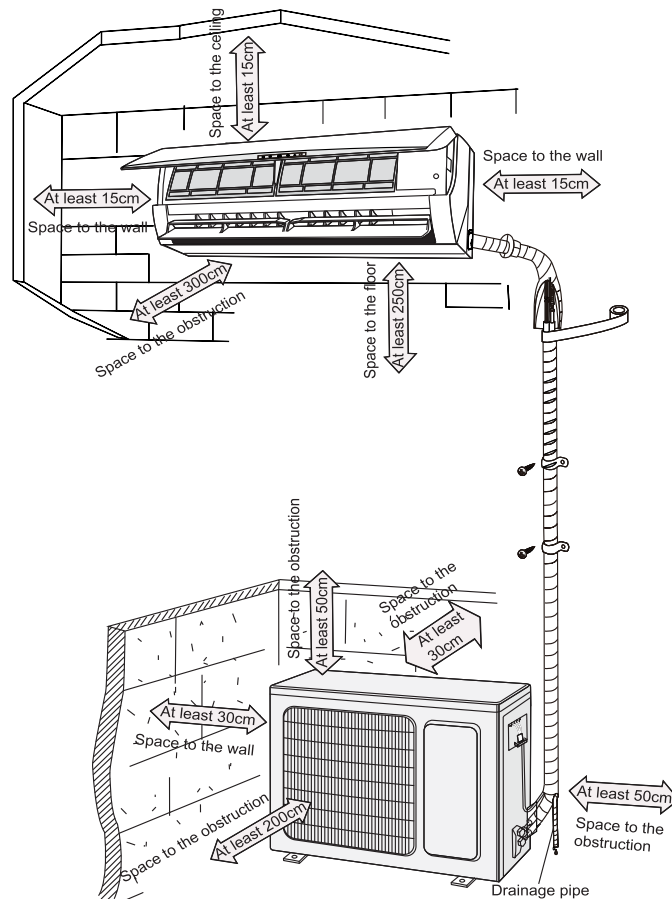
### ■ Height limits of indoor and outdoor units.

- Either the indoor unit or the outdoor unit can be higher, but the height difference must comply the stated requirements.
- Try to reduce the bending of the piping line as much as possible so as to avoid possible negative impacts upon the performances of the units.



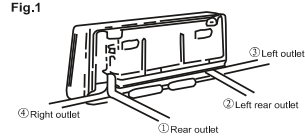
**[Selection of installation positions for outdoor unit]**

- To install the outdoor unit at the places which can stand the load of the machine weight and will not cause big vibrations and noises;
- To install the unit at the places not to be exposed to rain or direct sunshine, and the places with good ventilation;
- The noises generated from the unit will not affect the neighboring places;
- Do not install the unit on non-metal frame;
- Not to install the unit at the places where there might occur the generation, inflow, stay or leakage of inflammable gases;
- Pay attention to the drainage of the condensed water from the base plate during operations;
- To avoid the air outlet being directly against the wind.
- At least two sides to be kept open.



**【Installation fixture of indoor unit】**

Pipelines can be connected in the directions of ①、②、③ and ④ as indicated in Fig.1. When the pipelines are connected to the directions of ③ and ④, a groove for the pipes has to be opened at the proper place on the base stand.

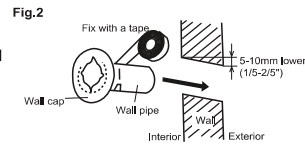


**1.Installation of wall-mounting plate**

Fix the wall-mounting plate firmly on the wall with screws. Make sure of the leveling of the plate. Slanted wall-mounting plate might jeopardize the smooth discharge of the condensed water.

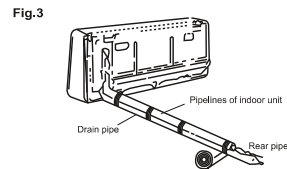
**2.Drill holes on the wall**

Drill holes at places slightly below the wall-mounting plate, with hole diameter of 65mm(2-3/5") and the outer edge of the hole 5-10mm(1/5-2/5") lower (Fig.2) so that the condensed water can smoothly flow out. Cut the wall penetrating pipe to proper length according to the thickness of the wall (3-5mm(1/10-1/5") longer than the wall thickness) and insert the pipe as indicated in Fig.2.



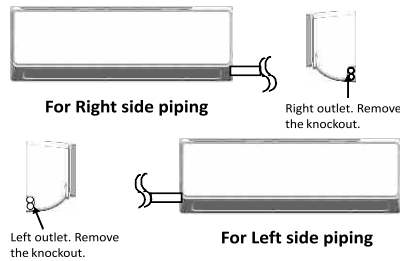
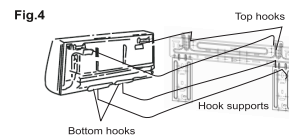
**3.Installation of drain pipe**

Install the pipelines of the indoor unit in accordance with the direction of the wall holes. Wrap tightly the drain pipe and the pipelines with tape. Make sure that the drain pipe is underneath the pipelines. (Fig.3) (When the drain pipe passes the room interior, some condensed water might occur to its surfaces if the humidity is very high).



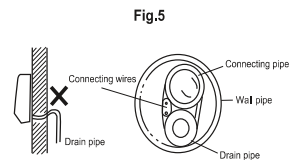
**4.Installation of indoor unit**

Pass the connection wires, connecting pipelines and drain pipe through the wall hole. Hang the indoor unit on the hooks at the top of the wall-mounting plate so that the hooks at the bottom of the indoor unit match the hooks of the wall-mounting plate. (Fig.4)



### Inspections:

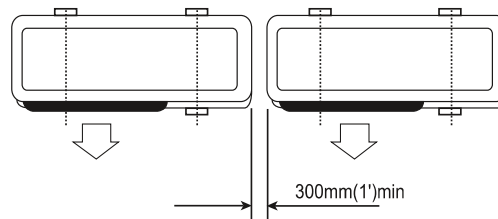
- Check if the hooks at the top and bottom are firmly fixed.
- Check if the position of the master unit is properly leveled.
- The drain pipe should not curve upward (Fig.5).
- The drain pipe should be at the lower part of the wall pipes (Fig. 5).



### 【Installation fixture of outdoor unit】

- Try to ship the product to the installation location in its original package;
- As the gravity center of the unit is not at the installation center, special caution should be taken when using hoisting cables to lift it up;
- During shipping, the outdoor unit must not be slanted to over 45 degrees (Do not store the unit in a horizontal way).
- Use expansion bolts to fix the mounting supports on the wall;
- Use bolts and nuts to fix the outdoor unit firmly on the supports and keep on the same level;
- If the unit is installed on the wall or at the rooftop, the supports have to be firmly fixed so as to resist earthquake or strong wind.

### Dimensions for parallel units installations



### 【 Ordinary pipelines connection & Air purging 】

- The following ordinary pipelines connection and air purging procedures are just suitable for non-quick coupler model.

#### ■ Ordinary pipelines connection

No dust, foreign articles, air or moisture should be allowed to enter the air conditioning system. Careful attention should be paid when pipeline connection for outdoor unit is made. Try to avoid repeated curves as much as possible, otherwise hardening or cracks might be caused to the copper pipes. Suitable wrenches should be used when the pipeline connection is done so as to ensure appropriate torque (refer to following torque Table 1). Excessive torque might damage the joints while too little torque might lead to leakage.



**Table 1** Torque based upon the wrench to be used

Outer diameter of copper pipe	Tightening torque	Strengthened tightening torque
Ø 6.35(1/4")	160kgf.cm(63kgf.inch)	200kgf.cm(79kgf.inch)
Ø 9.52(3/8")	300kgf.cm(118kgf.inch)	350kgf.cm(138kgf.inch)
Ø 12.7(1/2")	500kgf.cm(197kgf.inch)	550kgf.cm(216kgf.inch)
Ø 15.88(5/8")	750kgf.cm(295kgf.inch)	800kgf.cm(315kgf.inch)
Ø 19.05(3/4")	1200kgf.cm(472kgf.inch)	1400kgf.cm(551kgf.inch)

**■ Air purging with vacuum pump**

1.Check that pipelines connection have been properly connected,remove the charging port cap,and connect the manifold gauge and the vacuum pump to the charging valve by service hoses as shown Fig.6.

2.Open the valve of the low pressure side of manifold gauge,then,run the vacuum pump.Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below 1.5mmHG(The operation time for vacuuming is about 10 minutes).When the desired vacuum is reached,close the valve of the low pressure of the manifold and stop the vacuum pump.

3.Disconnect the service hoses and fit the cap to the charging valve.

4.Remove the blank caps,and fully open the spindles of the 2-way and 3-ways valves with a service valve wrench.

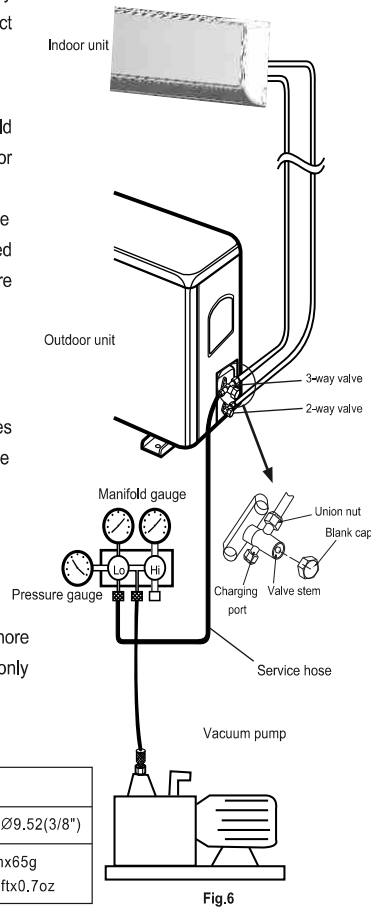
5.Tighten the blank caps of the 2-way and 3-ways valves,applying the above torque Table 1.

**■ Adding refrigerant**

Refrigerant must be added if the piping measures more than 5 metres(16'5") in length.This operation can only be performed by a professional technician,for the additional amount,see the table 2 below.

**Table 2**

Additional refrigerant amount	
Liquid pipe diameter Ø6.35(1/4")	Liquid pipe diameter:Ø9.52(3/8")
(piping length-5)m×30g or (piping length-16)ft×0.3oz	(piping length-5)m×65g or (piping length-16)ft×0.7oz



**Fig.6**

**■ Gas leakage inspection**

After the pipeline connection is done, use a leakage inspection device or soap suds to carefully check if there is any leakage at the joints. This is an important step to ensure the quality of installation. Once a leakage is detected, proper treatment should be taken immediately.

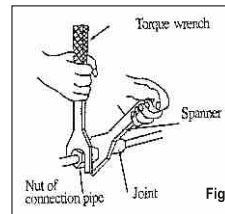
Applicable for coupler series model.

**【 Pipelines connection for Split type quick coupler model】**

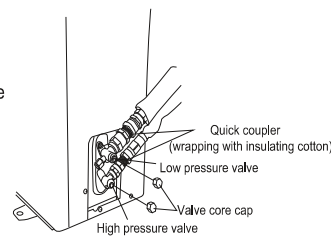
● If you purchase the machine for split type quick coupler model, please adopt the following pipelines connection procedures:

1. Remove the dust caps from the indoor and outdoor units, and the connecting pipe.

2. Align the joint counter of connecting pipe with the proper indoor and outdoor joint conic surfaces, tighten the connecting nut manually. Then, make it secure with a wrench as shown Fig.7, applying to above torque Table 1.



- 3. Remove the two valve core caps from the outdoor unit.
- 4. Turn on the high and low pressure valve cores with an socket wrench, then tighten the two valve core caps of the outdoor unit (Fig.8).
- 5. Finally, wrap the hot insulating cotton around the joints of indoor and outdoor units.



● **Notes on installation of quick coupler:**

1. Connecting pipe bending minimum radius parameters (Table 3)

2. Quick coupler assembly and disassembly limit: the assembly and disassembly times are inadvisably more than 7.

**Table 3** Minimum bending radius

Normal diameter(mm)	Minimum bending radius(mm)	cooling capacity
DN8(5/16")	80(3")	2100-2300W (7000-8000BTU)
DN10-12 (1/2")	100(4")	2500-5100W (9000-18000BTU)
DN14-16 (5/8")	150(6")	6100-7000W (22000-24000BTU)

**【 Is the unit installed correctly? 】****■ Suitable Installation Position**

- Isn't there anything which prevents ventilation or obstructs operation in front of the indoor unit ?  
Do not install the unit following place .
- Inflammable gases may leak .
- Oil splashes a lot .
- In case where the unit is used in such places as poisonous or sultry gases are generated or seaside district exposed to sea breezes corrosion may cause malfunction . Consult with your distributor .
- Air conditioner body and remote controller must be 1mtrs. (39-3/4") or more away from a TV or a radio. Drain the dehumidified water from the indoor unit to a place which drains well.

**■ Pay attention to operation noise**

- When installing the unit , choose a place which can stand the weight of the unit well and does not increase the operation noise or vibration . Especially where there is a possibility that vibration be transmitted to the house , fix the unit by inserting attached vibration -proof pads between the unit and fittings .
- Choose the place where hot air and operation noise from the outlet of the outdoor unit do not annoy the neighborhood .
- Things left near the outlet and inlet of the outdoor unit cause malfunction or increased operation noise . Do not leave obstacles near the outlet and inlet .
- If irregular sound is heard during operation , consult with your distributor .

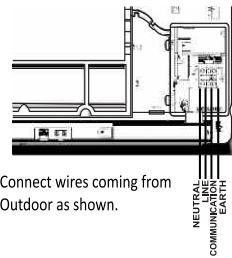
**■ Inspection and Maintenance**

- According to the service conditions and operating environment , the inside of the air conditioner will become dirty after several seasons (3 to 5years ) of service , resulting in decreased operating performance .Inspection and maintenance are recommended in addition to usual cleaning (The air conditioner can be used for a longer period and without anxiety .)
- As to inspection and maintenance , consult your dealer or any one of business offices of dealing companies .(Service charge is required in this case .)
- We recommend to perform inspection and maintenance during an off seasons.

**【Connection of power cable】**

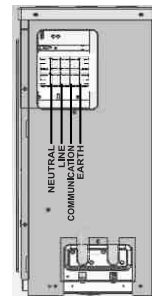
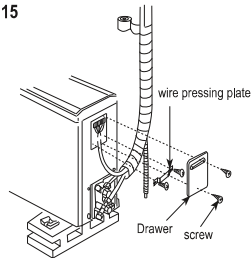
- 1.Remove the drawer of the outdoor unit.
- 2.**Non-quick coupler:**connect the indoor power and control wires with the matched outdoor wires in accordance with the electric schematic diagram and make sure that the connection is firmly done(Fig.15.)
- 3.Optional steps:In some cooling and heating models,you should connect the indoor wire connector with outdoor probe wire connector for defrosting.

Fig.14



Connect wires coming from Outdoor as shown.

Fig.15



Connect wires coming from indoor as shown.

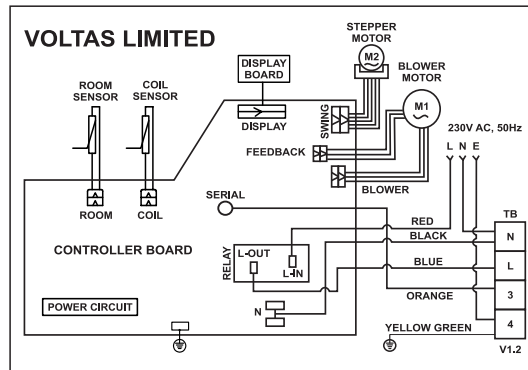
Note:Do not connect the wires in a wrong way,otherwise electric malfunctions will be caused and even damages to the units will occur.The appliance shall be installed in accordance with national wiring regulation.If the supply cord is damaged,it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.The plug shall be accessible after installing the appliance.If the model have not plug that a switch which have a contact separation of at least 3 mm in all poles shall be added in fixed wiring.

**【Finishing touches】**

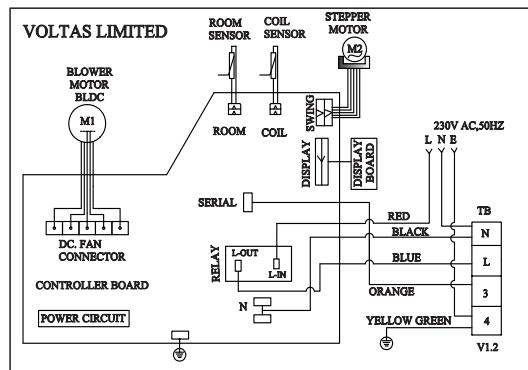
- wrap the pipelines tightly with ethylene tapes.
- Fix the wrapped pipelines on the exterior wall with clamps.
- Fill in the gaps left over by the pipeline hole and wall hole to prevent rain-water from entering.

**【Test running】**

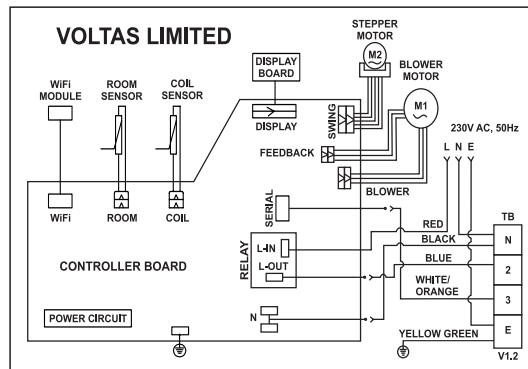
- Connect to the power source,check if the function selection keys on the remote controller are working properly.
- Check if the room temperature adjustments and timer settings are working properly.
- Check if the drain is smooth.
- Check if there is any abnormal noise or vibration during operation.
- Check if there is leakage of refrigerant.



IDU TYPE-1 :- AC FAN MOTOR



IDU TYPE-2 :- DC FAN MOTOR

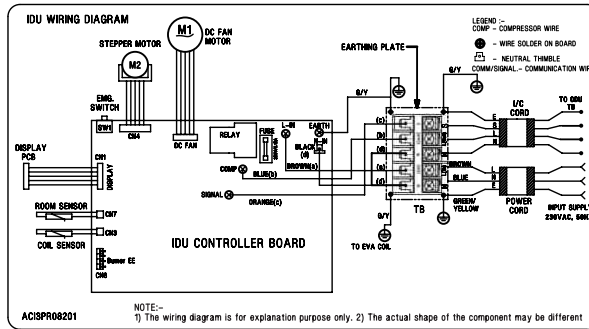


IDU TYPE-3 :- Wi-Fi IDU

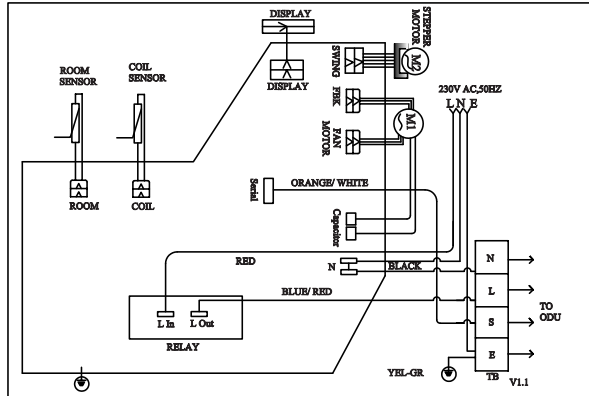
NOTE- 1. THE WIRING DIAGRAM IS ONLY FOR EXPLANATION PURPOSE.  
 2. THE ACTUAL SHAPE OF COMPONENT AND PCB MAY BE DIFFERENT.

# Instructions for Installation

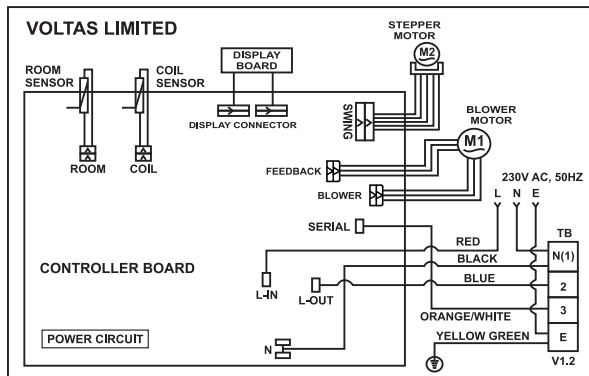
**VOLTAS**



IDU TYPE-2A :- DC FAN MOTOR

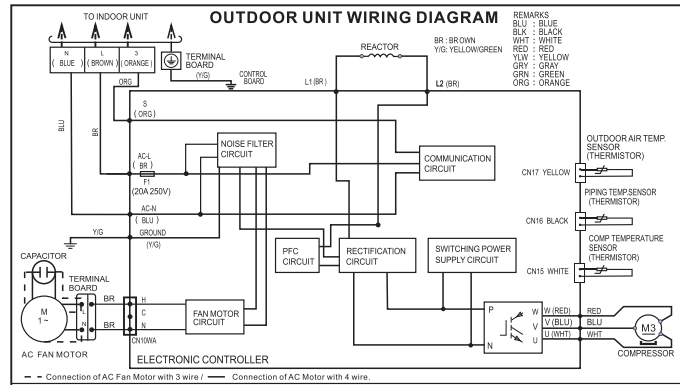


IDU TYPE-1A :- AC FAN MOTOR



IDU TYPE-1B :- AC FAN MOTOR

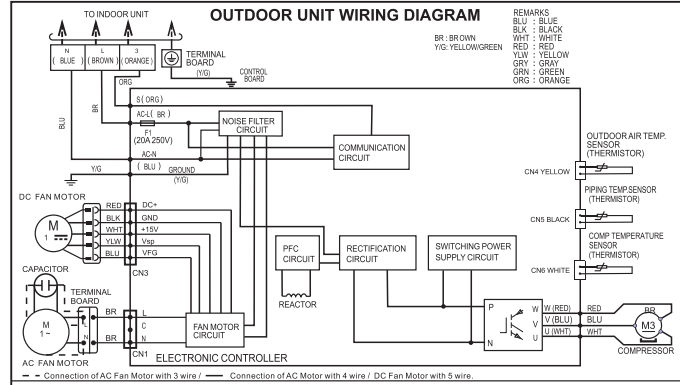
NOTE- 1. THE WIRING DIAGRAM IS ONLY FOR EXPLANATION PURPOSE.  
 2. THE ACTUAL SHAPE OF COMPONENT AND PCB MAY BE DIFFERENT.



**CAUTION**

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING TO THE TERMINALS IN THE CONTROL BOARD.

ODU TYPE-1A :- AC FAN (OUTSIDE REACTOR)



**CAUTION**

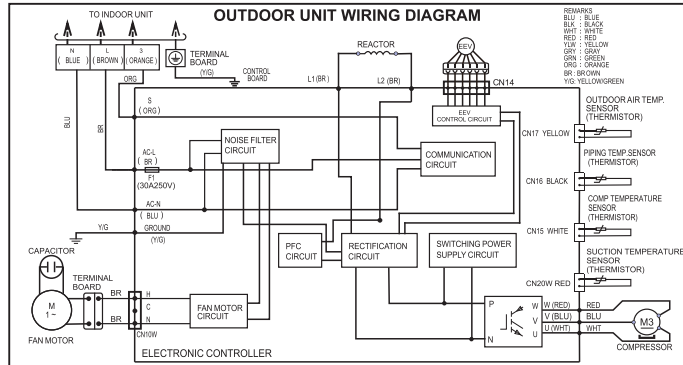
DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING TO THE TERMINALS IN THE CONTROL BOARD.

ODU TYPE-1B :- AC FAN / DC FAN (REACTOR ON PCB)

NOTE- 1. THE WIRING DIAGRAM IS ONLY FOR EXPLANATION PURPOSE.  
 2. THE ACTUAL SHAPE OF COMPONENT AND PCB MAY BE DIFFERENT.

# Instructions for Installation

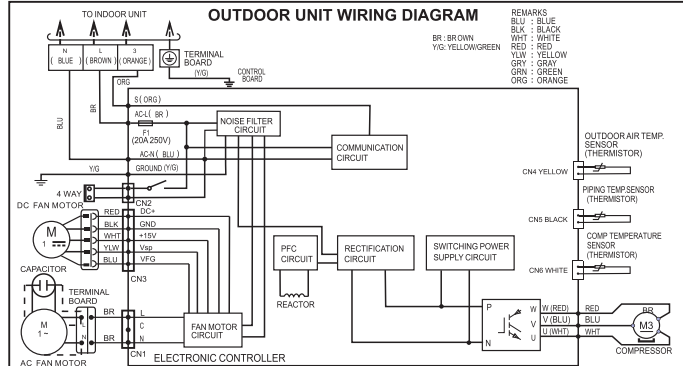
# VOLTAS



## CAUTION

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING TO THE TERMINALS IN THE CONTROL BOARD.

ODU TYPE-1C :- AC FAN (REACTOR OUTSIDE) WITH EEV



## CAUTION

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING TO THE TERMINALS IN THE CONTROL BOARD.

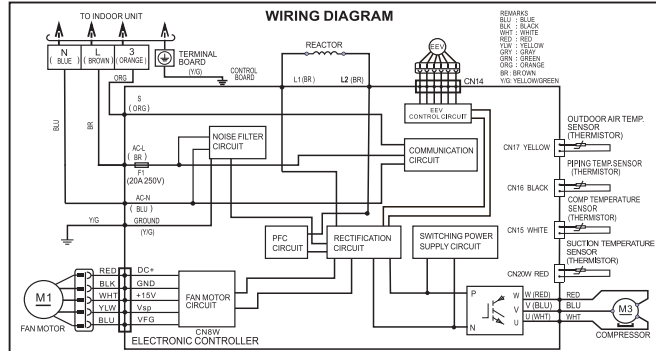
ODU TYPE-3 :- HEAT & COOL AC FAN / DC FAN (REACTOR ON PCB)

- NOTE- 1. THE WIRING DIAGRAM IS ONLY FOR EXPLANATION PURPOSE.  
 2. THE ACTUAL SHAPE OF COMPONENT AND PCB MAY BE DIFFERENT.



# Instructions for Installation

**VOLTAS**



**CAUTION**

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING TO THE TERMINALS IN THE CONTROL BOARD.

ODU TYPE-2 :- DC FAN MOTOR WITH EEV

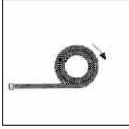


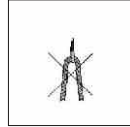

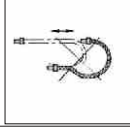
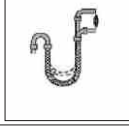
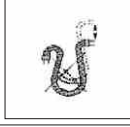
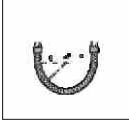

ODU LIGHT FLASH	IDU DISPLAY	FAULT DETAILS	ODU LIGHT FLASH	IDU DISPLAY	FAULT DETAILS
25	EE	Indoor machine EE fault	16	P4	DC voltage over-high or over-low voltage protection
26	E1	Indoor fan fault	17	P5	IPM over-high temperature protection
27	E2	Indoor fan zero-crossing detection abnormal	18	P6	Discharge temperature overheat protection
28	E3	Indoor coil fault and sensor fault	19	P7	Cooling indoor coil anti-freezing protection
29	E4	Indoor ambient temperature sensor fault	20	P8	Cooling outdoor coil overheat protection
			21	P9	Heating indoor coil overheat protection
1	E0	Outdoor EE fault	22	PC	Cooling outdoor ambient temperature over-low protection
2	E6	Indoor and outdoor machine communication fault	23	PH	Heating outdoor ambient temperature over-high protection
4	F1	Compressor starting abnormal (phase failure, reverse)			
5	F2	Compressor out-of-step fault			
6	F3	IPM module fault			
7	F4	Compressor shell roof fault/protection			
8	F5	Discharge temperature sensor fault	31	L1	Drive bus voltage over-high protection
9	F6	Suction temperature sensor fault	32	L2	Drive bus voltage over-low protection
10	F7	Outdoor coil temperature sensor fault	33	L3	Drive phase current overload fault
11	F8	Outdoor ambient temperature sensor fault	34	L4	Phase current sampling abnormal
12	F9	Outdoor DC fan fault			
/	E8	Outdoor communication fault			
13	P1	Outdoor machine AC current protection			Fault codes will show on display board once occur. Protection codes will not show on the display board directly. But customer can check these protection codes by pressing the "WIFI" / "ADJ" button 8 times in 10 seconds constantly. If there no protection is activated, "00" exhibits on the display board.
14	P2	Compressor phase current protection			
15	P3	Outdoor unit over-high/over-low AC voltage protection			

Note:- For W-Fi Model E9 Error (W-Fi Module Fault) can be seen while pressing the Emergency switch & power ON the IDU (Test Mode)

**ERROR CODE**

- NOTE- 1. THE WIRING DIAGRAM IS ONLY FOR EXPLANATION PURPOSE.
- 2. THE ACTUAL SHAPE OF COMPONENT AND PCB MAY BE DIFFERENT.

**Installation Guide**

<p>To keep the allowed bending radius, please make the packed soft pipes vertical for expanding.</p>			<p>Please do not expand only one side of the packed soft pipes.</p>
<p>Please make use of semicircle pulley to keep the allowed bending radius.</p>			<p>Extremely bending could damage the pipes.</p>
<p>Please use twisting wheel to avoid improper bending.</p>			<p>Over length soft pipes will lead to irregular bending.</p>
<p>Please use rigid elbow to keep the bending radius while soft pipes operating.</p>			<p>Undersize bending will damage the soft pipe.</p>
<p>Please Keep the minimum bending radius while installing.</p>			<p>Short soft pipes will have them bending undersize, it's not allowed.</p>

1st Free Service Coupon

**VOLTAS**

1st Free Service Coupon\*

Name : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

Tel. No.: \_\_\_\_\_

AC Model : \_\_\_\_\_ Machine Serial No.: \_\_\_\_\_

Date of Purchase : \_\_\_\_\_ Date of Installation : \_\_\_\_\_

Dealers Name & Stamp : \_\_\_\_\_ Bill No.: \_\_\_\_\_

Date of 1st Free Service : \_\_\_\_\_

Kindly fill and handover the service coupon to Voltas Authorised - Service Personnel to avail your 1st Free Machine Service.

**Check List**

(Tick 'Yes' for operation performed)

	(Yes)
Filter Cleaned	
Condenser Coil Cleaned	
Cooling Coil Cleaned	
General Cleaning and Brushing up	
Motor Checked	
Electricals Checked	
Drain System Checked	
Stabilizer Checked	
Insulation of AC Checked	
Grill Temperature	
Room Temperature	

**Customer's Remarks & Signature** \_\_\_\_\_

**Technician's Name & Signature** \_\_\_\_\_

\*valid within 6 months of purchase. To avail this free service contact, Customer Care 9650694555/1860 599 4555



2nd Free Service Coupon

**VOLTAS**

2nd Free Service Coupon\*

Name : \_\_\_\_\_

Address : \_\_\_\_\_  
\_\_\_\_\_

Tel. No.: \_\_\_\_\_

AC Model : \_\_\_\_\_ Machine Serial No.: \_\_\_\_\_

Date of Purchase : \_\_\_\_\_ Date of Installation : \_\_\_\_\_

Dealers Name & Stamp : \_\_\_\_\_ Bill No.: \_\_\_\_\_

Date of 2nd Free Service : \_\_\_\_\_

Kindly fill and handover the service coupon to Voltas Authorised - Service Personnel to avail your 2nd Free Machine Service.

**Check List**

(Tick 'Yes' for operation performed)

	(Yes)
Filter Cleaned	
Condenser Coil Cleaned	
Cooling Coil Cleaned	
General Cleaning and Brushing up	
Motor Checked	
Electricals Checked	
Drain System Checked	
Stabilizer Checked	
Insulation of AC Checked	
Grill Temperature	
Room Temperature	

**Customer's Remarks & Signature** \_\_\_\_\_

**Technician's Name & Signature** \_\_\_\_\_

\*valid within 12 months of purchase. To avail this free service contact, Customer Care 9650694555/1860 599 4555



**Machine Installation Coupon**

Customer Name : \_\_\_\_\_

Address : \_\_\_\_\_  
\_\_\_\_\_

Tel No. : \_\_\_\_\_

AC Model : \_\_\_\_\_

Serial No. : \_\_\_\_\_

Date of Purchase : \_\_\_\_\_

Date of Installation : \_\_\_\_\_

Voltas Dealer's Name : \_\_\_\_\_  
(Purchase point Identify)

Voltas Service provider : \_\_\_\_\_  
(To be filled by Voltas Dealer)

Customer's Remarks & Signature : \_\_\_\_\_

Technician's Name & Signature : \_\_\_\_\_





# Warranty Certificate

**VOLTAS**

Dear Customer,

We wish you a long and happy association with your Voltas Air Conditioner. However, we would like you to know your rights in respect of your Voltas Air Conditioner bearing serial number.

**You are entitled to:**

1. Repairs or replacement of any part or parts except plastic parts like Grill, louvers, etc. of the air conditioner for a period of 12 months from the date of purchase, when we identify the defects as due to faulty material or workmanship and not due to improper usage, or faulty electric supply/connection.
2. The defective part/material shall be replaced with a functionally working equivalent part material.
3. Free after-sales service during the above mentioned period is available within the municipal limits of the city or town where the company's office or your dealer is located.

**Voltas Guarantees** to honour your above mentioned rights.

You may please note

1. Repair or replacement of parts under your entitlement would be carried out by the nearest Voltas Service Station/Authorised Dealer. In case your air conditioner requires repairs at the workshop, our representative will advise you accordingly.
2. Your entitlement mentioned above, is confined to repair and replacement of the defective parts only and does not cover any consequential or resulting liability, damage or loss or replacement of the air conditioner itself or refund of the price.
3. We shall not be able to honour your entitlement if
  - A) your air conditioner is modified or improperly installed or repaired; or
  - B) damage is caused by accident, fire or misuse; or
  - C) the original serial numbers are removed, obliterated or altered from the air conditioner.
4. We request you to inform our nearest Voltas Service Station/Authorised dealer in advance, of any change in location of the unit or ownership to enable us to transfer your guarantee, after inspection to the new location/owner.

**Voltas Limited**

**Voltas House, 'A', Dr. Babasaheb Ambedkar Road, Chinchpokli, Mumbai - 400 033**

**Repair and replacement of the compressor will be done under the following terms and conditions:**

1. Replacement and repair will not be carried out in case of accident, misuse, corrosion and other environmental reasons.
2. It is a must for you to use a Voltage Stabiliser along with the air conditioner, which should meet the specifications laid down by Voltas personnel. We will not be responsible for any damages due to the defects in the electric installation or voltage fluctuations.
3. The owner must clean the air filter of the air conditioner at regular intervals.
4. We will not be responsible for any damage due to change of location of the unit. Any change in the location must be notified to us at least 15 days in advance.
5. If the compressor fails, Voltas has the right to have the machine inspected, to determine if the usage has been as per their advice, failing which Voltas will not replace the compressor.
6. All parts replaced other than the compressor will be charged extra. Transportation to and from the service station and gas charging will be charged extra.
7. The compressor will not be replaced or repaired under the 5 years warranty period if the air conditioner has been serviced or repaired by any non-Voltas service personnel.
8. Consequential damages and losses of any nature whatsoever are not covered under 5 years warranty.
9. To avail compressor replacement after 5 years warranty, Voltas advises that the AC is covered under Voltas AMC.

## ► 5 Year Compressor Warranty Certificate

Dear Customer,

Now your Voltas Air Conditioner comes along with complete 5 years Compressor Warranty. Voltas undertakes to repair or replace the compressor of your air conditioner, due to any malfunction during normal usage in the first five years. We wish you a long and happy association with your Voltas Air Conditioner. Please make sure to fill up the following details completely without which this certificate will not be legitimate.

Customer name : .....

Name of model : .....

Model No : .....

Air Conditioner Sr.No. : .....

Compressor Sr No. : .....

Date of Purchase : .....

Name of the dealer : .....

Voltas advises our customers to enter into an Annual Maintenance Contract with us, to increase the life of the compressor far beyond five years and also to ensure optimum electricity consumption during its entire life time.  
Please check the terms and conditions of the warranty on the reverse.

Customer Care No. 9650694555/1860 599 4555, 24 Hrs & 7 Days A Week.



Guarantee Registration Card

**VOLTAS**



GUARANTEE REGISTRATION CARD  
(Customer's Copy)

**VOLTAS**

Name of Purchaser \_\_\_\_\_

Invoice No and Date : \_\_\_\_\_

AC Model : \_\_\_\_\_

Sr. No. Unit: \_\_\_\_\_

Sr. No. of the Compressor : \_\_\_\_\_

Name & Address of the Seller (Voltas/Authorised Dealer)  
\_\_\_\_\_  
\_\_\_\_\_

Seller's Signature & Stamp



GUARANTEE REGISTRATION CARD  
(Dealer's Copy)

**VOLTAS**

Name of Purchaser \_\_\_\_\_

Invoice No and Date : \_\_\_\_\_

AC Model : \_\_\_\_\_

Sr. No. Unit: \_\_\_\_\_

Sr. No. of the Compressor : \_\_\_\_\_

Name & Address of the Seller (Voltas/Authorised Dealer)  
\_\_\_\_\_  
\_\_\_\_\_

Seller's Signature & Stamp



GUARANTEE REGISTRATION CARD  
(Office Copy)

**VOLTAS**

Name of Purchaser \_\_\_\_\_

Invoice No and Date : \_\_\_\_\_

AC Model : \_\_\_\_\_

Sr. No. Unit: \_\_\_\_\_

Sr. No. of the Compressor : \_\_\_\_\_

Name & Address of the Seller (Voltas/Authorised Dealer)  
\_\_\_\_\_  
\_\_\_\_\_

Seller's Signature & Stamp



## **Voltas recycling program for E-Waste**

### **What is E-Waste:**

Waste electrical and electronic equipment, whole or in part or rejects from their manufacturing and repair process, which are intended to be discarded.

E-waste can be considered as a resource that contains useful material of economic benefit for recovery of plastics, iron, glass, aluminum, copper and precious metals such as silver, gold, platinum, and palladium and lead, cadmium, mercury etc.

The e-waste Rules apply to all electrical and electronic equipment (EEE) listed in Schedule 1 (this includes Air Conditioners) and put on market in India, including their components and consumables which are part of the product at the time of discarding.

### **SCHEDULE I consists of the following**

Categories of Electrical and Electronic Equipments Covered under the Rules Sr. No. Categories of Electrical and Electronic Equipments

- (i) **Information Technology and Telecommunication Equipment**
- (ii) **Consumer electrical and electronics** - Television sets (including sets based on (Liquid Crystal Display and Light Emitting Diode technology), Refrigerator, Washing Machine, Air-Conditioners excluding centralized air conditioning plants.

E-waste (Management & Handling) Rules, 2011 :

The rules have been notified with primary objective to channelize the E-waste generated in the country for environmentally sound recycling which is largely controlled by the un-organized sector who are adopting crude practices that results into higher pollution and less recovery, thereby causing wastages of precious resources and damage to environment.

The E-waste Rules place main responsibility of e-waste management on the producers of the electrical and electronic equipment by introducing the concept of **“Extended Producer Responsibility”**(EPR). The E-waste (Management & Handling) Rules, 2011 have been notified in May 2011 and are **effective from 01-05-2012**.

### **Recycling of old electronic product is beneficial in following ways:**

1. There is need to encourage recycling of all useful and valuable material from e-waste so as to conserve the ever depleting natural resources. Recycling end-of-life products is vital if we are to save resources and minimize waste.
2. Also scientific disposal of e-waste reduces the environment pollution. The correct disposal of old product will help prevent potential negative consequences for the environment and human health.

## Voltas Recycling Program for E-Waste **VOLTAS**

### **Followings are negative consequences of disposal of product if not done in scientific way:**

1. Toxic material present in e-waste get mixed with earth, air, water etc and causes health issues.
2. Oil & Gases which is present in some of e-waste like compressor and refrigeration systems causes environment pollution.
3. Batteries contains highly hazardous element.
4. Burning of rubber & Plastic in open area causes air pollution.

Channel partners/Customers are urged to strictly follow the guidelines as per e-Waste rules as any failure on their part would invite penal action, which may attract imprisonment upto 5 years or with fine upto Rs. 1 Lac or both

### **Guidance on disposal:**

In India, E-Waste (Management and Handling) Rules 2011 have been notified by the Central Government. Voltas stands committed to implement E-Waste Rules. Voltas has done tie-up with the government authorized e-waste recycler for facilitating our Channel partners/customers to enable them to dispose of e-waste products after its end-of-life products (when a product is non-operational or non-repairable) and also defective spare parts.

In this process, the channel partners/customers need to get in touch with our Customer Care 9650694555/1860 599 4555. Voltas works closely with all consumer durable supply chains including authorized service providers, distributors, merchandiser's customers, and the recycling industry.

Channel partners/Consumers should contribute to resource conservation and prevent potential environmental problems by a simple action — the proper depositing of their old consumer durable products, its accessories or defective spares.

E-waste is will be disposed off separately from the general waste stream via designated collection facilities identified by Voltas.

### **Recycling of Products:**

Many customers might think that end-of-life products are worthless, but they still contain many reusable or recyclable materials. Let's see how all parts of old products could be recycled\*.

1. Metal components made of MS, copper, aluminium etc used in our products can be recycled and re used helping us save the environment.
2. Valuable metals are used as component materials for the circuit board and remotes. During the smelting process, valuable metals such as gold, silver, and copper can be retrieved from these electronic parts. The metals that are retrieved can be used for new electronic parts or can be sold separately on their own.
3. Plastic materials are used for structural components such as the case and cover. The plastic materials that have been collected are recycled as energy resources after going through a heat recovery process. Alternatively, they can be used as a form of recycled plastic once they have been broken down and processed.

Recycled plastic can be used to produce products such as traffic cones, plastic fencing, and car bumpers.

4. Paper is the main component used in packaging. Paper can be recycled. It is then used as recycled paper or in products made of paper.

\*The above usages are only suggestive and may not necessarily mean about the current usage

This initiative is the step towards a cleaner and greener earth. This move is one of the ways to show that we are concerned and thus we request all our customers to join this movement to make it successful by way of contributing their end-of-life products and defective spare parts.

**Do's & Don't:**

**Do's:**

1. All electrical and electronic products are required to be handed over only to the Authorised recycler.
2. The product should be handed over only to authorized recycler for disposal.
3. Keep the product in isolated area, after it becomes non-functional/ un-repairable so as to prevent its accidental breakage.

**Don'ts:**

1. The product should not be opened by the User himself/herself, but only by authorised service personnel.
2. The product is not meant for re-sale any unauthorised agencies/scrap dealer/kabariwalahs.
3. The product is not meant for mixing into household waste stream.
4. Do not keep any replaced spare part(s) from the product in exposed area.

**FAQ :**

■ **How to identify that this is an e-waste product**

Any electrical or electronic part/product/accessories having wires / PCB and, it is not usable and cannot be repaired

■ **Why re-cycling should be done? Benefits.**

Recycling of old electronic product is beneficial in following ways:

- There is need to encourage recycling of all useful and valuable material from e-waste so as to conserve the ever depleting natural resources. Recycling end-of-life products is vital if we are to save resources and minimize waste.
- Also scientific disposal of e-waste reduces the environment pollution. The correct disposal of old product will help prevent potential negative consequences for the environment and human health.

■ **What are the negative consequences if proper recycling is not done.**

- Any disposal through unauthorised agencies/person will attract action under Environment (Protection) Act 1986, which provides for imprisonment upto 5 years or with fine upto Rs. 1 Lac or both.
- Followings are negative consequences of disposal of product if not done in scientific way :
- Toxic material present in e-waste get mixed with earth, air, water etc and causes health issues.
- Oil & Gases which is present in some of e-waste like compressor and CRT causes environment pollution.
- Batteries contains highly hazardous element.
- Burning of rubber & Plastic in open area causes air pollution.

■ **How the product is to be properly handled while disposing it off.**

- Product should not be damage, dismantle or thrown in municipal waste. It should be packed and handed over to authorized re-cycler.

■ **What are the effects if the product is dismantled by the user.**

- All the products are safe for human being to use. However in case of breakage/dismantling in unscientific way could cause damage to environment or human being (directly or indirectly). Chances are there that user might come in contact with chemicals which could cause irritation in skin & eyes, might cause dizziness etc. Also sharp edges of electronic items could cause damage to body.

■ **What precautions to be taken in case of any accidental breakage and the person is exposed to such hazardous substances**

In case of accidental breakage of consumer durable products like:

- AC / Refrigerator :  
Gas Leakage from compressor – open the window & doors to allow proper ventilation.  
Oil Leakage from compressor – properly lock the oil-spillage point and clean your hand.
- Battery of Any Product:  
Don't touch the broken battery with bare-hand. Put it in bag/carton box.  
Clean your eyes & hand properly.

■ **What will happen if the product is not properly handled and is given/sold to scrap dealer like any other ordinary scrap.**

In case e-waste is sold to unauthorized dealers (Kabbadi), they don't have scientific tools to recycle the products and therefore they are not authorized by the Pollution Control Board, In open area they burn the plastic parts, break the seal of parts which carries gases and try to extract metals. Such smoke and gases pollute the environment. Also hazardous residual are thrown in landfills which is dangerous for land, water, air and living beings.







1. **Corporate Head Office**  
Voltas Limited : Voltas House 'B' 2nd Floor, T.B  
Kadam Marg, Chinchpokli, Mumbai-400033  
Phone : 022-66656333
2. **Delhi Office**  
Voltas Limited : 1st Floor, A-43, M.C.I.E.  
Mathura Road, New Delhi-110 044,  
Phone-011-66505550
3. **Lucknow Office**  
Voltas Limited : Shalimar Titanium,  
Block-C, 4th Floor, Office No. 410-412,  
Plot No. TCG-1/1, Opp. Indira Gandhi Prathisthan,  
Vibhuti Khand, Gomti Nagar, Lucknow - 226010  
Phone : 0522-6566961
4. **Ghaziabad Office**  
Voltas Limited : D-15, R S Plaza,  
3rd Floor, R.D.C. Raj Nagar  
Ghaziabad-201001
5. **Chandigarh Office**  
Voltas Limited : Plot No. 194 - 195, 1st Floor,  
Industrial Area, Phase-2, Chandigarh-160002  
Phone : 0172-4111800
6. **Jaipur Office**  
Voltas Limited : Diamond Tower, 201-203,  
Purani Chungi, Ajmer Road, Jaipur-302017  
Phone : 0141-6451747/48
7. **Haryana Office**  
Voltas Limited : 1st Floor, A-43,  
M.C.I.E. Mathura Road,  
New Delhi-110 044, Phone : 011-66505582
8. **Mumbai Office**  
Voltas Limited : Voltas House 'B' Block  
2nd Floor, T. B. Kadam Marg,  
Chinchpokli, Mumbai-400033,  
Phone : 022-66656333
9. **Ahmedabad Office**  
Voltas Limited : A-301, Shivalik  
Corporate Park, Behind IOCL Petrol Pump,  
Shivranjini Crossroad Satellite,  
Ahmedabad- 380015  
Phone: 0790-66301190/91
10. **Pune Office**  
Voltas Limited : 14, Equitorial Forum,  
2nd & 3rd Floor, Mumbai-Pune Road,  
Wakadewadi, Pune-411003  
Phone : 020-66011776
11. **Nagpur Office**  
Voltas Limited : UPBG, 280, Nirmithi House,  
WHC Road, Bajaj Nagar, Nagpur-440010  
Phone : 0712-6464692
12. **Goa Office**  
Voltas Limited : UPBG, B-18,  
Akshay Apts., Lacampala Colony,  
Miramar, Panjim, Goa-403001
13. **Raipur Office**  
Voltas Limited : UPBG, 2nd Floor, C-7,  
Sector 2, Near ICICI Atm, Main Road,  
Devendra Nagar, Raipur (C.G.)-492001  
Phone : 0771-4033886
14. **Kolkata Office**  
Voltas Limited : Unit No. 805, 8th Floor,  
Godrej Waterside Tower-2, Plot No. 5, Block DP,  
Sector-V, Salt Lake, Kolkata-700 091  
Phone : 033-66266207
15. **Jamshedpur Office**  
Voltas Limited : Voltas House, 3rd Floor,  
Main Road Bistupur, Jamshedpur-831001  
Phone : 0657-6455921
16. **Patna Office**  
Voltas Limited : Maharaja Complex, 306-A,  
3rd Floor, Frazer Road, Patna- 800001  
Phone : 0612-3222555/6455192
17. **Guwahati Office**  
Voltas Limited : Upasana Palace Complex,  
6th Floor, Dr. Rajendra Prasad Road,  
Near Ganesh Mandir, Ganesh Guri,  
Guwahati-781006  
Phone : 8811036281
18. **Bhubaneswar Office**  
Voltas Limited : B-15, Second Floor,  
Arihant Plaza, Shaheed Nagar,  
Bhubaneswar-751007  
Phone : 0674-2544919/18
19. **Hyderabad Office**  
Voltas Limited : 7-2-1735,  
Saathinagar, Hyderabad-500018  
Phone : 040-66743001
20. **Chennai Office**  
Voltas Limited : No. 624,  
Anna Salai, Chennai-600018  
Phone : 66760333/11
21. **Bangalore Office**  
Voltas Limited : 7th Floor 701, Pride Hulkul,  
116 Lalbagh, Bangalore-560027  
Phone : 080-22535600
22. **Kochi Office**  
Voltas Limited : Ambanat Building, 39/3522,  
M.G. Road, Ravipuram, Kochi-682016  
Phone : 0484-6605555
23. **Coimbatore Office**  
Voltas Limited : 24-2, Pykara Office Road,  
Tatabad, Coimbatore-6410102  
Phone : 0422-6502419/6530080
24. **Indore Office**  
Voltas Limited : UPBG, The View,  
305 Y.N. Road, 3rd Floor,  
Opp. South Tukoganj Thana,  
Above D.P. Jewellers, Indore-452001  
Phone : 0731-4046393/4043512
25. **Thane Office**  
Voltas Limited : UPBG, Unit II, 1st Floor,  
2nd Pokhran Road, Thane-400601  
Phone : 022-67920106/07



#### Voltas - V Service Stabiliser

Choosing the right stabiliser for your air conditioner goes a long way in ensuring trouble-free cooling that lasts a lifetime. Towards this end, we recommend Voltas - V Service Stabiliser-an accompaniment that will make sure your air conditioner performs without fail.



#### Voltas Recommended Genuine Spare Parts

Any machine is as good as the components that go into it. That's why, we recommend the use of Voltas Genuine Spare Parts that come safely packed and sealed, ensuring zero tampering. So, if you want your air conditioner to deliver top performance and savings, always go in for Voltas Recommended Genuine Spare Parts.



#### Voltas Annual Maintenance Contracts

Only a Voltas AMC offers you complete peace of mind as it is backed by a nationwide network of service centers with well trained engineers. In addition, you can expect the following from a Voltas AMC:

- Voltas - V Service Stabiliser
- Use of genuine parts
- Professional complaint management
- Schemes available for four or more services in a year



#### Call 4 Care

The Voltas 24x7 Customer Care Center has a dedicated team of professionals who are ready to register and attend to your service requirements anytime of the day. You can also get in touch with us in case you have any queries regarding our products and services. Simply call us at Customer Care **9650694555/1860 599 4555** or SMC <AC> to **56677**.



Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



**VOLTAS**  
www.myvoltas.com

Registered Office: Unitary Products Business Group  
Voltas House, 'A', Dr. Babasaheb Ambedkar Road, Chinchpokli,  
Mumbai - 400 033 Tel.: 022-66656666. [www.myvoltas.com](http://www.myvoltas.com)



The manufacturer reserves the right to discontinue, or change at any time, specifications or designs without incurring any obligation.