



## **Operation Manual**


### **Electric Water Heater**

DT30V20CN(P)  
DT50V20CN(P)  
DT80V20CN(P)  
DT100V20CN(P)



Please read the instruction manual carefully before use, and keep it for future reference.

V01.

Sincerely thank you for selecting our  electric water heater. Please read this manual carefully before use; correctly grasp the methods for installation and use of this electric water heater, to make full use of its excellent performances.

## **>> GENERAL INSTRUCTIONS <<**

1. This appliance **MUST** be earthed.
2. This appliance must be permanently connected to fixed wiring.
3. The spray head must be descaled regularly.
4. The outlet must not be connected to any tap or fitting other than those specified.
5. This appliance is not to be installed in a location where freezing can occur.
6. Do not install this appliance near to tinder or strong magnetic field place.
7. Do not switch on if there is a possibility that the water inside the water heater is frozen, as this could result in serious damage to the appliance. Wait until you are sure that is completely thawed out before you switch it on.
8. In order to avoid a hazard due to inadvertent resetting of the thermal cutout, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
9. This appliance is for its intended use only.
10. Please install the appliance close to floor drain if possible.
11. Disconnect the appliance from electrical supply before cleaning, servicing, or removing the cover.

## **>> SAFETY GUIDANCE <<**

1. This appliance can be used by children aged from 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
2. Children shall not play with the appliance.
3. Cleaning and user maintenance shall not be made by children without supervision.
4. This appliance is not intended for using 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 .

**WARNING:** Children should be supervised to ensure that they do not play with the appliance.

5. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

6. This appliance is intended to be permanently connected to the water mains and not connected by a hose-set.

7. The water inlet of this appliance shall not be connected to inlet water obtained from any other water heating system.

**WARNING:** This appliance is not to be used for a potable water supply.

8. This appliance is for its intended use only.

**WARNING:** If the water heater is used incorrectly, the user shall be responsible for any problems.

9. The pressure-relief device must be attached with the machine and be installed at the cold-water inlet and the installation.

10. This appliance must be installed and serviced by a licensed electrician and plumber, or a professional service technician in accordance with the national electrical codes, local electrical and plumbing codes and regulations.

**WARNING:** Improper installation and operation, or installation and service by an unqualified person may cause property damage, serious body injury or even death.

## >> FEATURES AND FUNCTIONS <

1. Flat slim and Top outlook design can be saving space and beautify your home.

2. Completely automatic control: automatic addition of cold water, automatic heating.

3. Multiple safety protection, safe and reliable devices, such as:

Dry heating protection,

Extra temperature protection,

Tank leakage protection,

High hydraulic pressure protection

4. Sapphire enamel double inner tank: manufactured by using advanced wet method enamel technique, anti-rust, corrosion-proof, incrustation-resistant, leak-prevention, with longer lifetime.

5. Heating element designed with low thermal load: Good quality Stainless steel 316L, safe and reliable, with longer lifetime.

6. Equipped with corrosion-proof and incrustation-retardant equipment: durable products.
7. Thickened urethane integral foaming: keep water 24h warm, good thermal insulation effect, energy efficient and electricity saving.
8. Big Temperature controller: accurate and reliable control of temperature.
9. Adjustable range of water temperature from 30 to 75°C.
10. Power switch function: It has four kinds of personalized power options to meet various hot water needs.
11. Simple operation and easy to use at daily life.

## >> TECHNICAL SPECIFICATION <<

Wall Mounting	Vertical	Vertical	Vertical
Model No.	DT50V20CN(P)	DT80V20CN(P)	DT100V20CN(P)
Rated capacity	50L	80L	100L
Rated frequency	50Hz	50Hz	50Hz
Rated power	2000W	2000W	2000W
Rated Voltage	AC220~	AC220~	AC220~
Rated current,	9.09A	9.09A	9.09A
Heating element	S/S316L	S/S316L	S/S316L
Rated pressure	0.75MPa	0.75MPa	0.75MPa
Max. water Temp.	(75±5)°C	(75±5)°C	(75±5)°C
Ingress Protection	IPX4	IPX4	IPX4
Classification	Class I	Class I	Class I
Product size, mm	450*240*870	530*290*955	530*290*1155
Package size,mm	505*295*925	585*335*1020	585*335*1220

## >> PACKING LIST <<

No.	Description	Quantity
1	Water heater	1 pc
2	Pressure Relief Device	1 pc
3	Operation manual with warranty	1 pc
4	Expansion Bolt	1 set

## Product Appearance & Structure

1. Outer Tank
2. Double inner Tank
3. Hot water Outlet Pipe
4. Heating element
5. Polyurethane Insulation
6. Control Panel
7. Magnesium Anode
8. Power cable
9. Cold Water Inlet
10. Hot Water Outlet

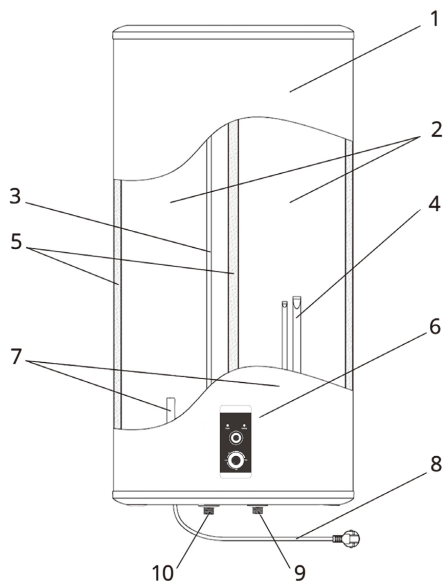


Fig.1

## Accessories

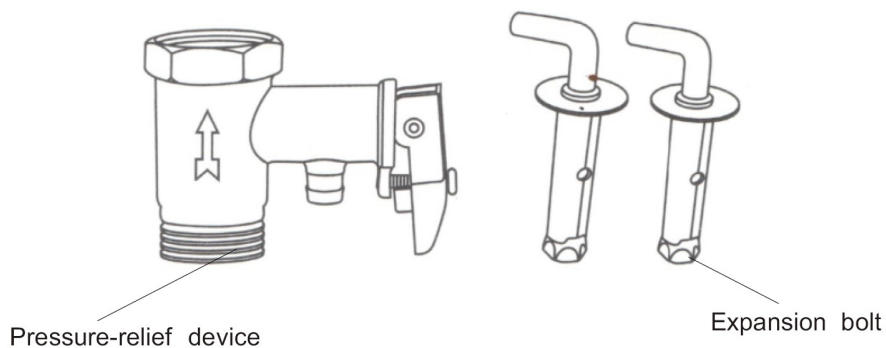
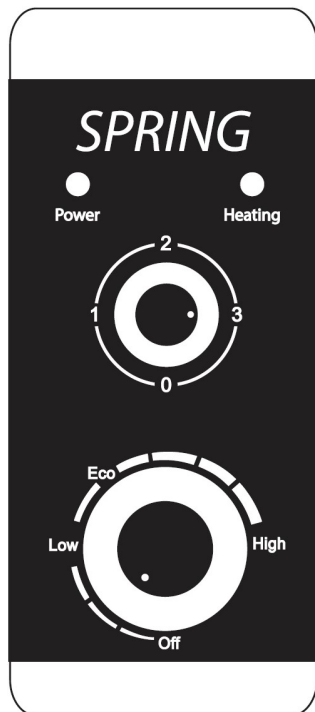


Fig. 2

**--Two Indicator**

(Power) is the power indicator, which remains green when powered on  
 (Heating) is the heating indicator, which displays red light in the heating state. When the heat preservation state is reached, the heating lamp will go out.

**--Power Switch**

The small knob is a power conversion switch, with a total of 4 power options.

0 means 0W

1 means 800W

2 means 1200W

3 means 2000W

**-- Temperature controller:**

Off: The thermostat will be off and heater isn't heating.

Eco : Energy-Saving Mode,  
 Temperature 40-50 ° C

High: Max. Temperature 70 ° C-80 ° C

**>> INSTALLATION INSTRUCTIONS <<****General guidance**

Before installing this water heater, check and confirm the earth electrode on the socket is reliably grounded, without electricity. Otherwise, the electric water heater can not be installed and used.

1. Electrical water heater should be installed by a qualified personal and in accordance with the national electrical codes, local electrical and plumbing codes and regulations.
2. Check the wire, circuit breaker, fuse and watt-hour meter before installation, making sure they are applicable to your water heater.
3. Install the water heater as per its intended installation method, do not install upside down.
4. Ensure the water heater is properly earthed.

## Before installation

1. Choose a smooth surface for installation.
2. Please install water heater close to floor drain if possible.
3. Keep away from violent vibration.

**Caution: Outdoor installation is not recommended.**

### **WARNING:**

1. Please be sure to use the accessories (see Fig.2) provided by our company to install this electric water heater.
2. This electric water heater shall be installed in the solid wall. If the strength of the wall can not bear the load equal to two times of the total weight of the heater filled fully with water, it is necessary to install a special support.
3. When determining the locations of the bolt holes, it shall be ensured that there is a clearance not less than 0.2m for the electric heater, to convenient the maintenance of the heater, if necessary.
4. This electric water heater can not be hung on the support until it has been confirmed to be firm and reliable. Otherwise, the electric water heater may drop off from the wall, resulting in damage of the heater, even serious accidents of injury.
5. This appliance must be installed and serviced by a licensed electrician and plumber, or a professional service technician in accordance with the national electrical codes, local electrical and plumbing codes and regulations.
6. Improper installation and operation, or installation and service by an unqualified person may cause property damage, serious body injury or even death.

## Wall-mounting instructions

1. After selecting a proper location, determine the positions of the two install holes used for hook as guidance:

Installation	Capacity	Distance of two holes (D)
Vertical installation	30L,50L,80L,100L	210mm

2. Make two holes in the wall with the corresponding depth by using a driller with the size matching the expansion screws supplied with the water heater.

3. Insert the expansion screws, make the hook upwards, tighten the screws to fix firmly. (see Fig.3 )
4. Hang the water heater on the hooks.

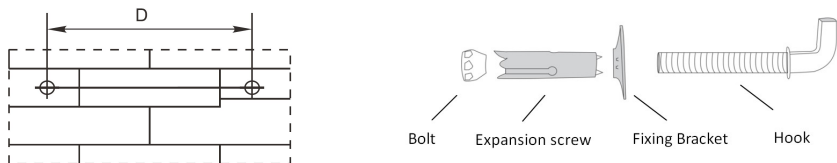


Fig. 3

## >> PLUMBING INSTRUCTIONS <<

### General guidance

1. The water inlet and the water outlet shall be identified according to the indications or marks on the water heater. If colors are used, blue should be used for the inlet and red for the outlet.
2. The water inlet and the water outlet must be connected correctly, otherwise the water heater cannot function.
3. Do not use plumbing cement on connection. If necessary, use only thread or sealing tape.
4. Water inlet valve should be installed at water inflow pipe.
5. Choose and install a suitable water valve first, then connect the water heater with the inlet valve.
6. In order to avoid leakage when connecting the pipelines, the rubber seal gaskets must be added at the end of the threads.
7. Connect water hose with water heater at the outflow pipe, then connect the shower with water hose.
8. Spray head holder is installed on the wall at an appropriate height, then place the spray head into the holder.
9. Verify all fittings are tight and secure.
10. The dimension of inlet and outlet pipe should be G1/2.
11. Connection of Pressure-relief device: install the Pressure-relief device attached with the machine at the water inlet of the main machine.

### Schematic diagram water supply

1. Hard connection: water mixer connecting the appliance: see Fig. 3



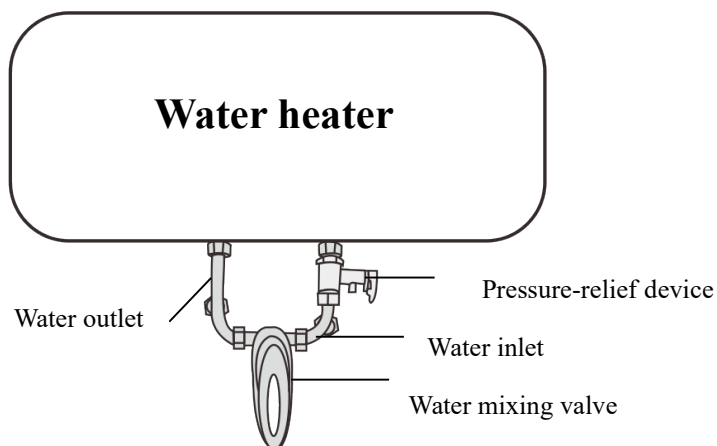


Fig. 4

2. Soft connection: water mixer installation by flexible hose: see Fig. 4

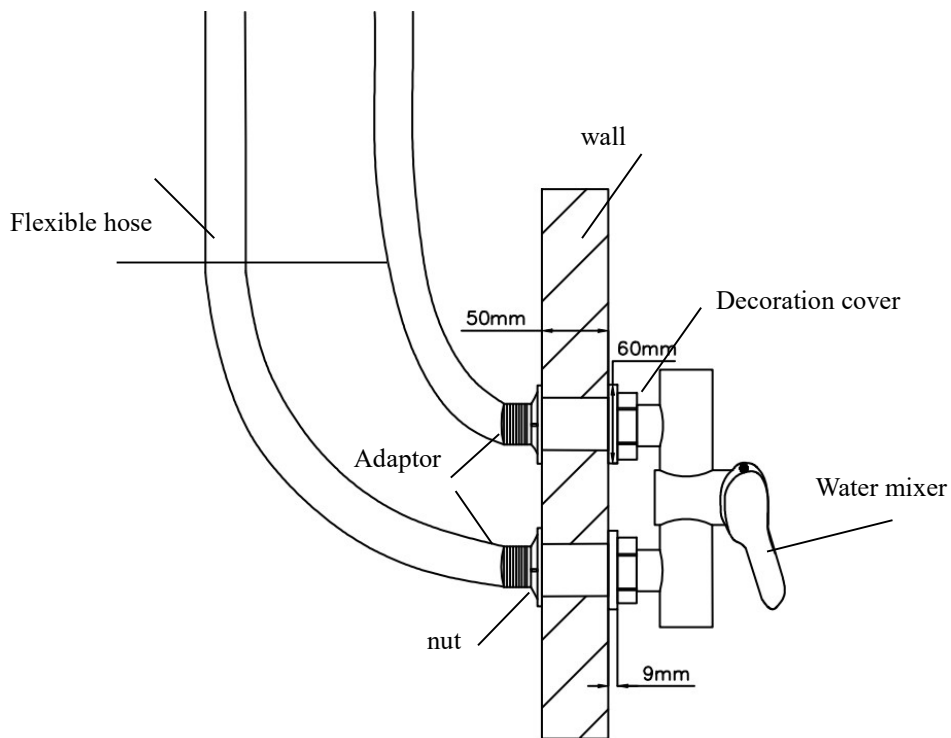


Fig.5

**CAUTION:** Must keep the installed drainage flexible pipes of the Pressure-relief device sloping downward and connected with the atmosphere.

### **Electric connection**

1. Install the supply socket in the wall. Requirements for the socket are: 250V/16A, single phase, two electrodes.
2. It is recommended to place the socket on the right above the water heater. The height of the socket to the ground shall not be less than 1.8m.
3. If the bathroom is too small, the water heater can be installed at another place in an environment of no direct exposure under the sun or the rain. However, in order to minimize heat loss between pipelines, the water heater is to be installed at a position that is as close as possible to the location of use of the water heater.

**CAUTION:** The supply socket must be earthed reliably. The rated current of the socket shall not be lower than 10A or other specified by the manufacturer. The socket and plug shall be kept dry to prevent electric leakage. Inspect frequently whether the plugs contact well with the socket.

Inspect method is as follows: insert the power supply plug into socket, after using for half an hour, shut down the unit and pull the plug out, then inspect the plug whether it scalds hand or not. If it scalds (temperature over 50°C), please change another well-contacted socket to avoid fire, property damage, or body injury caused by bad-contacting.

**WARNING:** In order to avoid a hazard due to inadvertent resetting of the thermal cutout, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.

### **Pressure-relief device**

1. Pressure-relief device must be fitted during installation of the water heater.
2. The Pressure-relief device must be attached with the machine and be installed at the cold water inlet, and the installation direction must be correct with the pressure release hole downward (see Fig. 6).
3. Pls pay attention to keep the installed drainage flexible pipes of the Pressure-relief device sloping downward in an environment above zero and connected with the atmosphere.

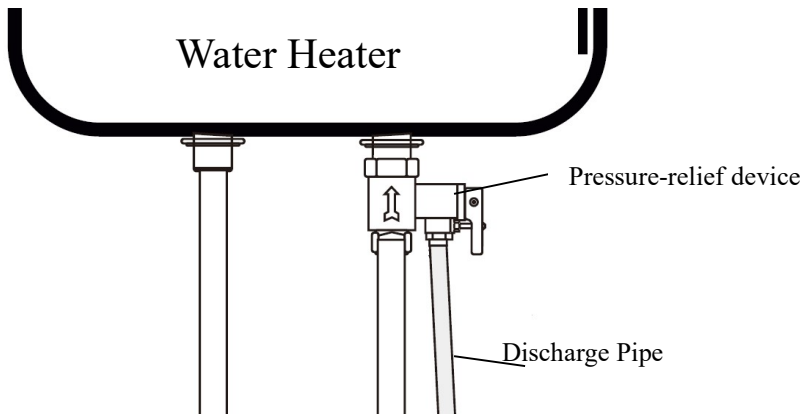


Fig.6

4. A discharge pipe connected to the Pressure-relief device is to be installed in a continuously downward direction and in a frost-free environment.
5. The water may drip from the discharge pipe of the Pressure-relief device and that this pipe must be left open to the atmosphere.
6. The Pressure-relief device is to be regularly operated to remove lime deposits and to verify that is not blocked.
7. Specification of Pressure-relief device:
  - a. Type / model: One-way Pressure-relief device
  - b. Material: brass
  - c. Rated operation pressure: 0.75 MPa
  - d. Connector: G 1/2
  - e. Installation method: per the arrow mark on the valve
8. How to drain the water (and to verify the Pressure-relief device is not blocked):
  - a. Shut off power supply
  - b. Close water inlet and outlet
  - c. Unfasten the screw on the handle (as shown in Fig. 7)
  - d. Lift the handle (by following the direction as shown in Fig. 7)
  - e. Drain the water
  - f. Restore the handle to its original position
  - g. Fasten the screw

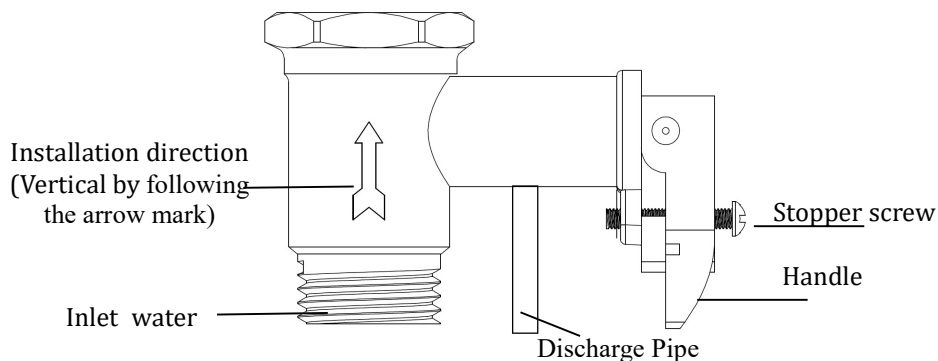


Fig.7

## >> OPERATION INSTRUCTIONS <<

1. First, open the water outlet of the water heater, then open the water inlet, the water heater begins to be filled with water.
2. When there is water coming out of the outlet, it indicates that the water heater has been filled fully with water.
3. Then the water outlet can be closed.
4. After that, the water heater is ready to use.
5. Insert the supply plug into the socket, the indicator light are on at this time.

**CAUTION:** For the use of the first time (or the first use after maintenance or cleaning), the water heater can not be switched on until it has been filled fully with water. When filling the water, at least one of water outlets of the water heater must be open to exhaust the air.

**CAUTION:** During normal operation, the water inlet shall be set in the status of OPEN.

6. Since the water temperature inside water heater can reach up to 75°C, the hot water must not be exposed to human bodies when it is initially used. Adjust the water temperature to a proper point to avoid scald.
7. This appliance can automatically control the temperature. When the water temperature inside the water heater has reached the set temperature (It is set to 75°C), it will be turned off automatically, and enter into the status of KEEP WARM. When the water temperature is decreased to a certain point, it will be turned on automatically to restore the heating, thus hot water will not be interrupted. When the water heater is switched off automatically, the heating indicator will turn off.

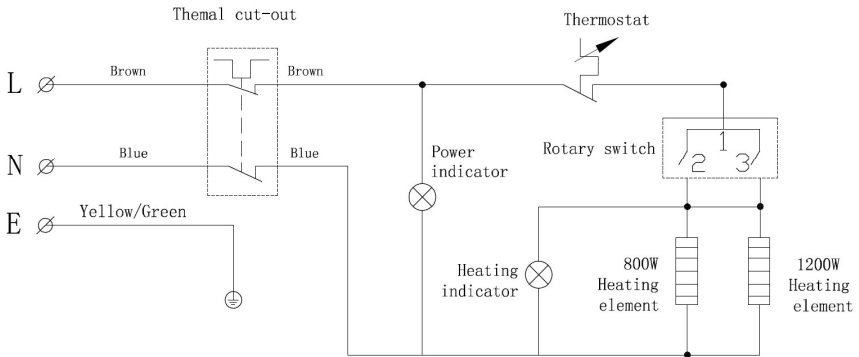
**WARNING:** If the supply cord is damaged during use, it must be replaced by the manufacturer, its service agent or similar qualified persons in order to avoid a hazard.

8. If any parts and components of the water heater are damaged, please contact local service agent or similar qualified personnel for repair, and use the spare parts and components provided by the manufacturer.

## >> TROUBLE-SHOOTING <<

Failure	Root cause	Solution
no power / no work / no function	a. no power supply b. water heater not power on	a. check mains power supply b. check the plug and socket
heating indicator light-off	Failure of temperature control device	Contact local service agent or similar qualified personnel for repair
no hot water coming out	a. running water supply cut-off b. too low water pressure c. inlet water not open	a. wait for restoration of running water supply b. use water heater when pressure is normal c. open the water inlet
too high outlet water temperature	Failure of temperature control device	Contact local service agent or similar qualified personnel for repair
water leakage	sealing problem of the joints of pipes	check the joints of pipes, replace sealing materials if needed

## >> ELECTRIC DIAGRAM <<



## >> MAINTENANCE <<

1. Check the power supply plug and socket frequently to make sure that they have good, reliable contact and are well grounded without over-heat.
2. If the water heater will not be used for a long time, especially in the regions with low atmospheric temperature (lower than 0°C), the water inside the container shall be drained in order to prevent the appliance being damaged due to freeze of the water in the container.
3. In order to ensure that the water heater can operate efficiently for long term, it is recommended to periodically clean the container and the deposits on the heating element.
4. It is recommended to examine the anode rod every half a year. If anode protection materials have been consumed, replace with a new anode rod.

## >> WARRANTY CARD <<

This Water Heater is guaranteed for three years for inner tank, against all manufacturing defects, from the date of production.

In the event of any complaint, please contact your dealer or the nearest Company Service Centre.

### **This warranty is valid only when...**

1. The appliance has not been opened or tampered with, by any unauthorized person.
2. The unit has to be left in place and to call at our service centre for inspection.
3. The warranty card or purchase receipt is duly signed by the authorized dealer and is presented with the complaint.
4. The appliance has been installed, used and maintained in accordance with the instruction manual.

### **This warranty does not apply for...**

1. Damages due to chipping, peeling, plating and denting.
2. Breakage or damage to components made out of bakelite, Urea, SAN and such plastic materials, rubber parts and cord.
3. Normal wear and tear of parts.
4. Damage resulting from accident, mishandling or negligence and wrong installations on part of customer.

### **Liability for consequential loss or damage is neither accepted nor implied.**

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Purchase Receipt Date: \_\_\_\_\_

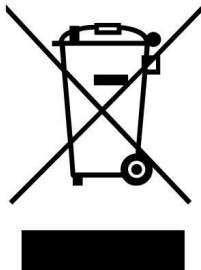
Dealers Name and Address: \_\_\_\_\_

\_\_\_\_\_

Owners Name & Address: \_\_\_\_\_

\_\_\_\_\_

**The company reserves the right to modify design and specifications without prior notice in pursuance of a policy of continuous technical improvement.**



This product may not be treated as household waste. Instead, it should be taken to the appropriate waste collection point for the recycling of electronic equipment. By ensuring this product is disposed correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by the inappropriate waste handling of this product. Please contact your local council, your household waste disposal service, or the shop where you purchased the product.

**REMARKS: Product specification is subject to change without prior notice. Features and parameters of this product are all given by the manufacturer.**