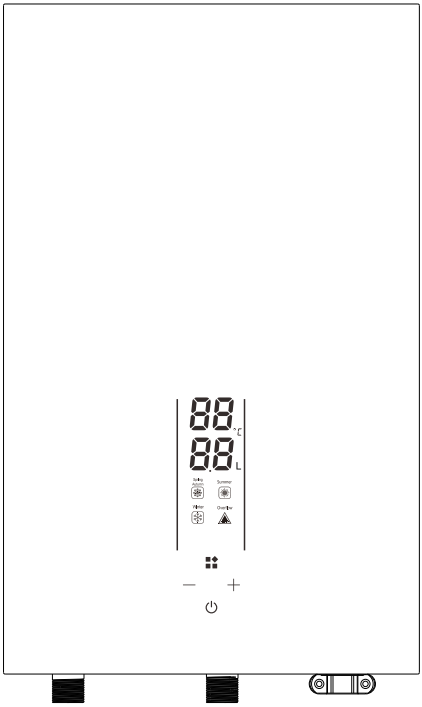
Electric Tankless Water Heater

Installation and Instruction Manual



Model : K5

It is highly recommanded that you should take time to go through this instruction manual to get full understanding and safety tips prior to installation, so as to avoid any risk of property damage or serious injury.

This manual should be left to he houseowner after installation, for further guideline of maintenance and troubleshooting.

Important Safety Instructions

Special Warnings

1. Before installing and using the water heater, please read the manual carefully; after reading it, please keep it in a safe place for reference.
2. The product is subject to change without notice, we apologize.
3. The diagram in the instruction manual is for reference only, please refer to the actual product.

Thank you for your choice and trust, and we will continue to provide you with quality products and services.
Please read the safety precautions carefully and follow the warning signs and instructions on the product.

Installation Conditions

1. The capacity of the meter and the cross-sectional area of the wires must match the rated current of the water heater.
2. The water heater must be reliably earthed, otherwise there is a safety hazard.
3. A circuit breaker with earth leakage protection must be installed, otherwise it may cause a fire or other accident.

Safe Location

1. The support surface of the installation must be sturdy and free from constant strong vibrations.
2. The water heater must be installed in an area with a floor drain.
3. Do not install the water heater outdoors, in direct sunlight, near flammable and explosive materials or in an environment prone to icing.

Warning: The circuit breaker must be installed in a dry place out of the reach of water spray to avoid accidents such as short circuits.

Power Supply

1. The product will only work with the type of voltage indicated on the label. If you are unsure of the type of voltage you are using, please consult your local electricity authority.
2. Do not damage, replace, modify, pull or twist the power cable.
3. Do not place any objects on the power cord.

Product Maintenance

1. Do not disassemble or service the water heater yourself, improper disassembly may result in electric shock or damage to the product.
2. Before maintaining the product, the power supply must be disconnected.
3. If the power cord is damaged, it must be replaced by the manufacturer or other service department or similarly qualified person to avoid danger.

Use of the Product

1. In very cold temperatures, prevent the water in the appliance from freezing.
2. The hot water in the water heater must not be consumed directly.
3. When the water temperature is too high, it can cause burns. Use with care.
4. If the water heater has no power, it may be because the thermal cut-off has been triggered by overheating. To resolve this, you need to remove the front cover of the water heater and press the reset button on the thermal cut-off. Once reset, the water heater should restart and function normally.
5. If the thermal cut-off has tripped, you must wait at least 20 minutes before resetting it to avoid damaging the product.

Warning: lf the water heater stops working due to any of the above faults, please disconnect it from the power supply immediately and contact a professional after-sales service person; do not carry out repairs yourself as incorrect repairs may endanger your personal safety or lead to property damage.

Product Features

- Immediate heating, hot water without waiting.
- Precision temperature adjustment: microadjustment, precise control, the temperature degree as you wish.
- Multiple protection functions such as over-temperature protection, leakage protection.
- Microcomputer intelligent system, automatically check and control the working status of the water heater, LED digital display, clear working status.
  The latest generation of cast aluminium heating technology.
  Innovative technology: full thermostat, leading you into the era of fully automatic enjoyment.
- Ultra-thin, cool and stylish, extraordinary.

Safety Features

- Deep anti-leakages system

  First protection: circuit breaker.

  Second protection: earth protection.

  Third protection: electronic leakage protection.

  Leakage protection, earth protection and air switches make up the depth of the water heater's leakage protection system. They are interdependent and alternate in a vertical network, forming a line of defence in the deep anti-leakage system, which is a strong shield for your safety in using electricity.

- Automatic detection system

  The automatic detection system includes a fault self-test for the water outlet temperature sensor, a fault self-test for the water inlet temperature sensor, a leakage self-test and an over-zero self-test, which will stop the water heater immediately when a fault occurs and display the corresponding fault code on the LED screen for indication. Please refer to the "Common faults" section for the content of the fault code display and fault handling.

- Over-temperature protection-self-test system

  The water heater uses a double over-temperature protection device to monitor the water temperature vertically. When the water temperature is detected to exceed the thermal safety value, the water heater will stop working immediately.

- Dry heating protection

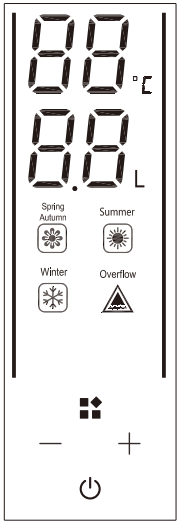
  This water heater is equipped with a triple-pole disconnect thermostat. If a fault occurs in the water heater and the water temperature exceeds the limit temperature, the triple-pole disconnect thermostat will trip immediately to cut off the power supply and stop the water heater from heating.

Technical Parameters

Model	Power (W)	Rated Voltage	Recommended Wire Size	Min.Required Circuit Breaker Size	Rated Pressure
K5-120	12000W	380V~ 50Hz	2.5mm²	≥25A	0.6MPa
K5-150	15000W		4mm²	≥32A	0.6MPa
K5-180	18000W		6mm²	≥40A	0.6MPa

Table 1

Controls



Display the meaning of symbols and characters

1. : Spring and Autumn Mode,Set the temperature to 42 ℃
2. : Summer mode,Set the temperature to 38 ℃
3. : Winter mode, Set the temperature to 45 ℃
4. : Excessive water flow
5. : Mode key, Press to switch to Spring and Autumn mode at 42 ˚C, Summer mode at 38 ˚C, and Winter mode at 45 ˚C
6. : Power switch key
7. ＋: Temperature Rise
8. — : Temperature drop
9. : Display the actual outlet water temperature and fault code
10. : Display real-time traffic values

Installation Instructions

Unpacking

- After unpacking the box, please check immediately if the packing pieces are complete, see the packing list for a detailed list.
- lf any of the items in the packing list are damaged or missing, please inform the seller immediately.

Warm tip: After removing the product, please keep the cardboard box and pearl cotton for future use.

Installation Method

Please note: The accessories supplied with the product must be used for installation and must not be replaced or substituted. The company will not beheld responsible for any direct or indirect damage caused by non-compliance with the above.

Before Installation, Please Make Sure that

1. The load-bearing wall on which the water heater is hung should be able to support twice the weight of a water heater filled with water.
2. The electric water heater should be installed indoors in a place where the ambient temperature is above 0°C and the pipework should be centrally located. The water heater outlet should not be too far from the point of use of hot water, if more than 3 metres, the hot water pipeline should be insulated to reduce the loss of heat.
3. The water heater should be installed in a location that is easy to use, maintain and has a floor drain. In the event of a leak, no damage will be caused to nearby or lower level facilities.
4. Ensure that the mains water pressure is not less than 0.05MPa.
5. A circuit breaker with earth leakage protection must be installed.
6. Ensure that the earth resistance of the building ground is less than 4Ω.
7. Check that the mounting plate on the back of the water heater is secure and not loose.
8. The circuit breaker of the water heater must be installed in a dry place where water cannot be sprayed to avoid accidents such as short circuit.
9. Do not reverse the inlet and outlet pipes.

Instaltation Steps

1. Disassemble the shell

1.1 : Use a Phillips screwdriver to remove the screws on the top and bottom of the front cover (see Figure 1).

1.2 : Slowly lift the front cover with both hands and take it out. (see Figure 2)

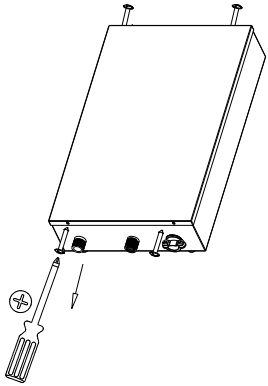


Figure 1

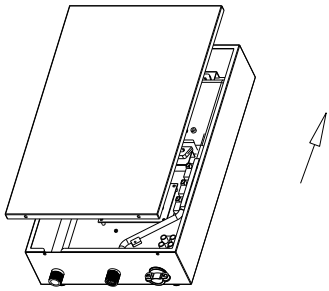


Figure 2

2.Circuit installation

2.1 Checking the circuit: Before installation, it is necessary to carefully check whether the rated voltage, rated power, recommended wire diameter, and circuit breaker specifications indicated on the nameplate of the machine match (refer to Table 1).

2.2 Electric water heater wiring connection: Remove the surface shell of the electric water heater, and sequentially connect one end of live wire 1, live wire 2, and live wire 3 to the wiring holes labeled L1, L2, and L3 of the electric water heater terminal, and then connect the ground wire to the grounding hole of the terminal (see Figure 3).

Bottom shell wiring diagram

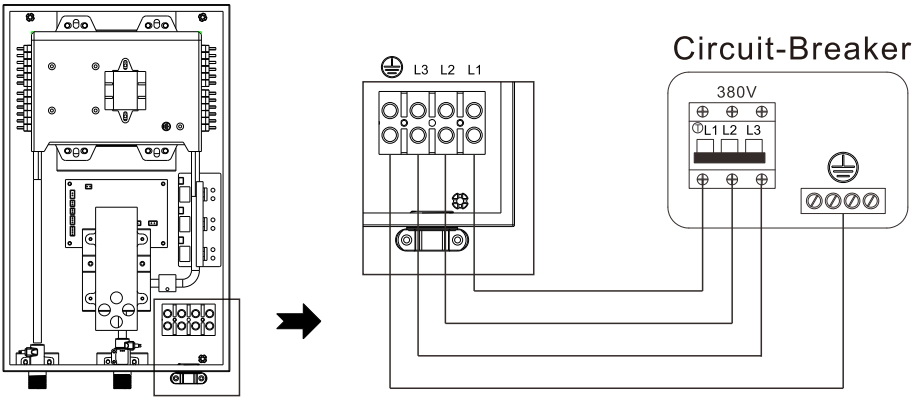


Figure 3

2.3: After confirming that all wiring connections are securely fixed, fit the front cover and use a Phillips screwdriver to secure the front cover with four screws (see Figure 4).

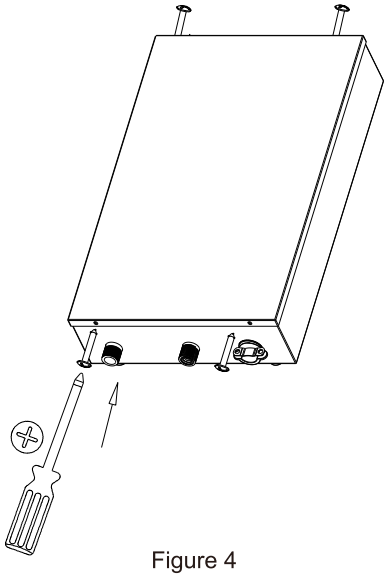
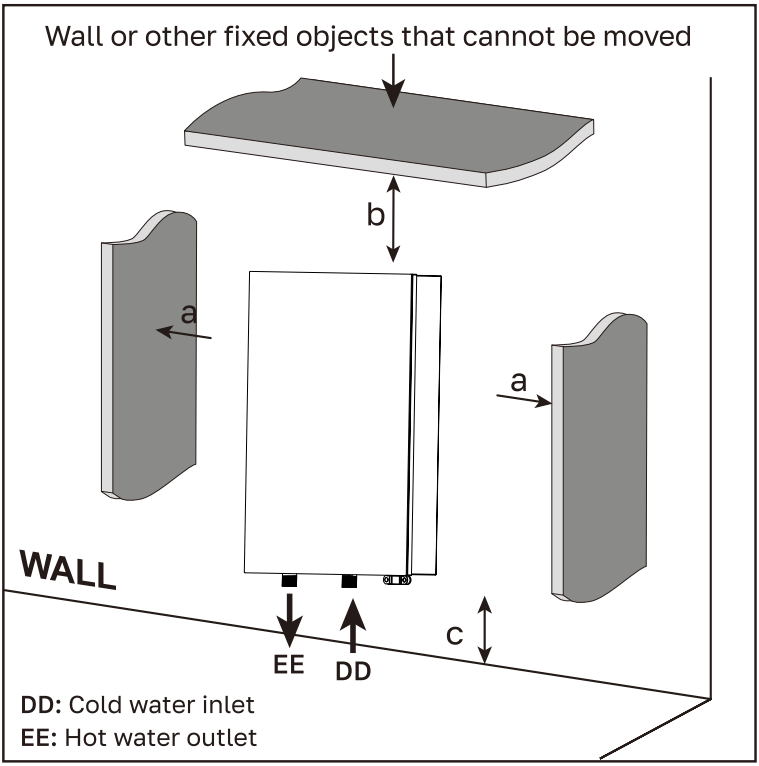


Figure 4

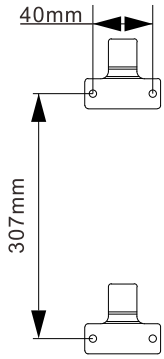
Installation location
There should be a certain space around the machine for installation and future maintenance.

Suggestion: a (side gap): minimum 12" (305mm)
b (top gap): minimum 15" (381mm)
Warning: c (bottom gap): keep a distance out of the reach of children



3.Install electric water heater

3.1 Water heater mounting bracket installation: Determine the installation position of the electric water heater. On a solid and sufficiently strong mounting surface, mark the positions of the two hooks and four fixing screws of the water heater in sequence with a pen. Use a hammer drill with a 6□mm drill bit to drill 30□mm-deep holes at the marked screw positions on the wall (the drilling depth shall not exceed the wall thickness). Insert the wall plugs into the holes, then use a screwdriver to screw four screws into the screw holes of the mounting hooks.



3.2 Secure the water heater. Lift the water heater and insert the mounting plate on the back of the unit into the pre-installed wall hooks. Do not release your hands until it is firmly installed to prevent falling.

3.3 Circuit Breaker Connection: Connect the other ends of Phase Line 1, Phase Line 2 and Phase Line 3 to the L1, L2, L3 terminals of the circuit breaker respectively. Then connect the ground wire to the ground terminal of the circuit breaker (see Figure 5).

3.4 Determine the length of the corrugated pipe according to the installation position. Use corrugated pipes to connect the water-inlet port of the water heater to the inlet valve, and connect the water-outlet port to the shower hose. In case of multi-path water supply, use another corrugated pipe to connect the water-outlet port of the water heater to the angle valve for multi-path water supply (see Figure 5).

3.5 Tightness Check: First open the water-outlet valve of the water heater, then open the inlet valve until steady water flows out from the outlet. Close the water-outlet valve afterwards and check whether there is water leakage in the water circuit. If leakage occurs, repair the leaking joint and re-check (see Figure 5).

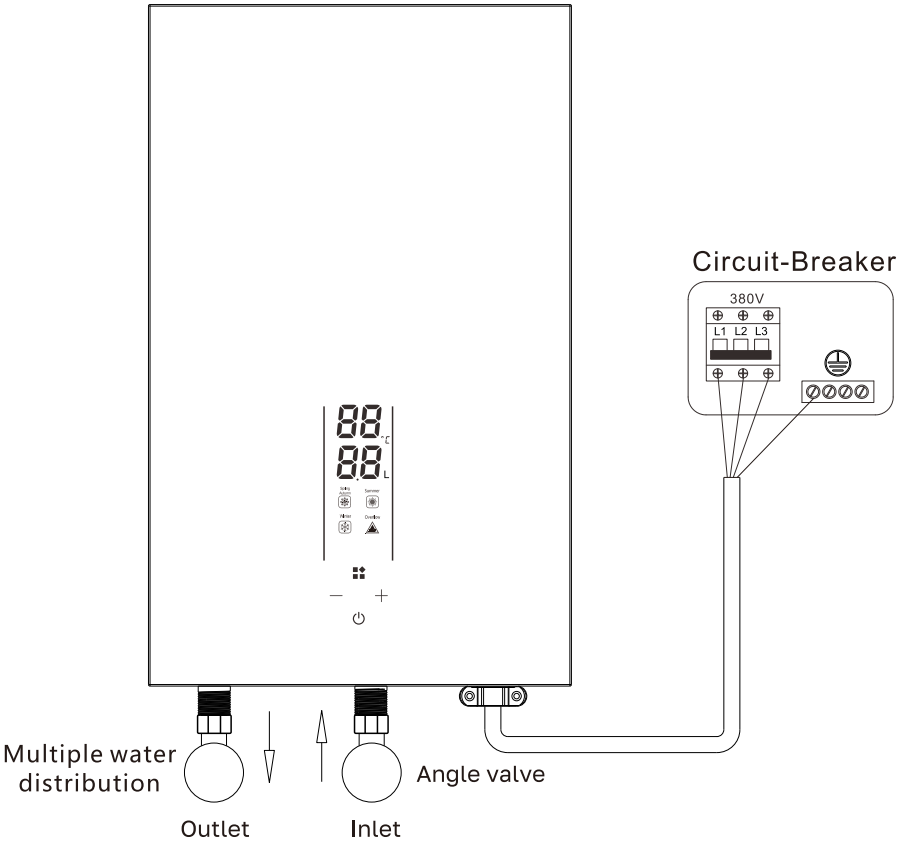

Circuit-Breaker
380V
L1 L2 L3
Multiple water distribution
Angle valve
Outlet
Inlet

Figure 5

Method Of Use

Before connecting to the power supply, users are advised that.

- Please keep good usage habits: when turning on the water, first turn on the water and then turn on the electricity, when turning off the water, first turn off the electricity and then turn off the water.
- Ensure that the water heater is reliably grounded, The grounding protection of the water heater is achieved by connecting it to the grounding wire of the building, so make sure that the power cord and the grounding wire are firmly connected; and that they are connected in a place where water cannot be sprayed.

Hot water can cause burns, so for the safety of you and your family, especially the elderly and children, please use it with care.
The hot water in the water heater should not be used directly for drinking.

1. Connect to the power

All display lights will light up and the buzzer will sound once.
The display enters operating or standby mode.

2. Power on

Press " ⏻ " to turn on the machine . When the water flow rate reaches the start-up requirements, the water heater begins to heat, the screen lights up. When the water flow is too low or there is no water, the water heater does not heat, the display lights up for 30 seconds and then goes out .

3. Temperature setting

Temperature setting range: 30-55℃ . In the power on state, press " − or + " to automatically enter the temperature setting state. At this time, the "88" character on the display screen flashes. Continue to press" − or + "to adjust the temperature value. Each time you operate the " − or + " key, the temperature will decrease by 1 ℃.

4. Shower

The water heater adopts automatic constant temperature technology. When the water flow reaches the start-up requirement, the system automatically adjusts, and the water reaches a constant temperature within a few seconds. After bathing, the water heater directly enters the standby state. When the water flow is too low or there is no water, the water heater will not heat.

Note:

1. The first time a new appliance is switched on, the water valve must be opened and water must flow evenly from the outlet valve before the switch-on command can be executed.
2. When opening/closing the water outlet valve, please do not point the water outlet at the human body, so as not to be scalded by a small stream of hot water.

Notes On Use

1. When you stop using the water heater, please turn off the water inlet switch; long-term non-use of the water heater, the power supply should be cut off, so as to protect the water heater and extend its service life.
2. Regularly clean the shower, filter and pressure relief port to avoid blockage.
3. Do not spray water onto the circuit breaker or water heater when in use to avoid moisture on the electrical parts, the circuit breaker or electrical connection should be installed in a place that is not exposed to water and out of reach of children.
4. Do not use acidic or alkaline cleaning solution to scrub the shell of the electric water heater, scrubbing should choose a neutral detergent, after wiping to gently dry with a wet rag, clean to close the incoming power supply.
5. If you suspect that the water in the water heater may freeze, it is prohibited to connect the water heater to the power supply.
6. Repair must be carried out by our maintenance staff or by our designated repair point.
7. If the power cord is damaged and must be replaced, the Company or the Company's designated maintenance personnel must be responsible.
8. A disconnecting device must be installed in the fixed line when connecting the external conductor, which ensures safety by opening all contacts at least 3 mm apart when the power is off.
9. In order to avoid the danger of the thermal circuit breaker being reset by mistake, the appliance must not be powered by an external switching device, such as a timer or a circuit that is disconnected when connected to a common component.
10. To improve the comfort of use, use the accessories supplied with the appliance.

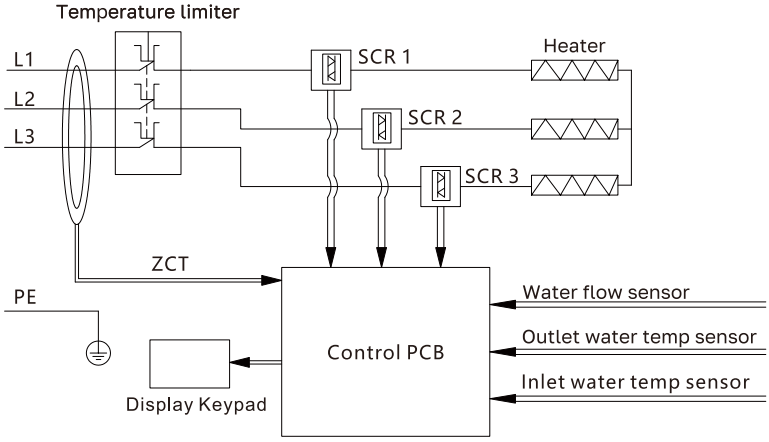
Repair And Maintenance

Affirm: The water heater should only be serviced by qualified service personnel. Incorrect methods may cause serious injury or property damage. Before servicing the product, please refer to common faults and troubleshoot obvious problems.

Warning: Always disconnect the water heater from the power supply before opening or servicing the water heater.
Clean the outside of the water heater regularly using a slightly damp soft cloth dampened with an appropriate amount of neutral detergent to wipe the surface, do not use flammable or chemical solvents, then dry with a dry soft cloth to keep the water heater dry.

If you encounter the following situations, please disconnect the power immediately and contact the after-sales service for help:
a. The power cord is damaged
b. The product has been dropped or the casing has been damaged
c. The product does not work properly
d. The performance of the product has changed significantly

Electrical Schematics



Common Faults

Fault phenomenon	Failure cause	Processing method
No heating	1. No electricity	Turn on electricity
	2. The water flow is too small to start	Increase water quantity
	3. The leakage protector is turned off	Adjust the leakage protector to the boot state
	4. The microcomputer crash	Disconnect the leakage-proof device and reclosing
	5. Heating pipe is broken	Contact after-sales maintenance
	6. The bipolar disconnected temperature controller is not reset	Contact after-sales maintenance
The water is not hot enough	1. The setting temperature is too low	Raise the set temperature
	2. The inlet water flow rate is set at too large level	Adjust the inflow flow rate
The water is too hot	1. The setting temperature is too high	Lower the set temperature
Water output is small	1. The water inlet and filter screen is blocked	Clean the water inlet filter
	2. The shower blockage	Clean it
	3. Local water pressure is low	Increase the water pressure
Tripping operation	1. The air switch capacity is insufficient or poor quality	Change the air switch
	2. Leakage	Contact after-sales maintenance
Display "E1"	Leckage	Contact after-sales maintenance
Display "E3"	Inlet water temperature sensor fault	Contact after-sales maintenance
Display "E4"	Water outlet temperature sensor fault	Contact after-sales maintenance
Display "EC"	Communication failure	Contact after-sales maintenance
Display "E5"	This indicates a zero-crossing detection failure.	The SCR (Silicon Controlled Rectifier) is designed to trigger at the zero-crossing point of the AC grid. If there is interference in the power supply or an issue with the mainboard, the SCR will function abnormally.

Fault phenomenon	Failure cause	Processing method
Display "E2"	Over Temperature	A. Select lower power or lower setting temperature. B. Increase the water flow.

Packaging List

No.	Name	Unit	Quantity
1	Water Heater	unit	1
2	Screw Kit	set	1
3	Instructions	unit	1

Limited Warranty

What's covered?
Defects due to faulty materials and/or workmanship of the product.

What's NOT covered?
1. Damage caused by the owner when attempting to fix or altering the product by himself or herself.
2. Damage caused by misuse, abuse, neglect, alterations or unauthorized repair.
3. Natural depreciation.

Warranty Period
Warranty becomes effective from the date of original purchase and will last for 1 year.

Who's covered?
This limited warranty is only effective for the original purchaser. It is non-transferable.



This product must not be disposed together with the domestic waste.
This product has to be disposed at authoriszed place for recycling of electrical and electronic appliances.
By collecting and recycling waste,you help save natural resources, and make sure the product is disposed in an enviromnental friendly and healthy way.

Remarks:The specifications maybe change without prior notice.
All features and specifications are all given by manufacturer.