

Electric Instantaneous Water Heater

Operation and Installation Instructions



Models

KF35

KF45

KF55

KF70

Please retain this manual in a secure location once your unit is installed. It contains important guidelines and maintenance tips you may need in the future.

Our official website address

www.wintempshop.com

Install QR code



To obtain the benefit of this warranty, please email
support@wintempshop.com.

We will address your issue as soon as possible!

Before You Begin:

- Carefully read and follow these installation and operation instructions to ensure the long life and reliable performance of your appliance.
- Proper adherence to these guidelines will help guarantee safe and efficient operation.

CONTENTS

IMPORTANT SAFETYINSTRUCTIONS	14
PRODUCT FEATURES	14
ELECTRICAL DIAGRAM	15
PRODUCTINNER STRUCTURE	16
TECHNICAL DATA	17
INSTALLATION GUIDELINE	17
INSTALLATION METHOD	18
OPERATIONINSTRUCTIONS	22
TROUBLE-SHOOTING	23
NORMAL MAINTENANCE	24
CORRECT DISPOSAL OF THIS PRODUCT	24
PACKING LIST	24

English

■ IMPORTANT SAFETY INSTRUCTIONS

1. THE INSTALLATION MUST BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, YOUR LOCAL ELECTRICAL AND PLUMBING CODES.

2. This appliance must be EARTHED. (If the model is equipped with plug, it is an electric leakage protection plug).

3. Install or locate this water heater only in accordance with the provided installation instructions.

4. Use this water heater only for its intended use as described in this manual.

5. Contact a qualified electrician to have the unit properly installed for the models which are not equipped with a plug.

6. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction in the use of the appliance by a person responsible for their safety.

7. This appliance **MUST** be permanently connected to the fixed circuit breaker and it must be installed vertically (excluding the models which are equipped with a plug). **DO NOT** install this appliance near tinder or strong magnetic fields. Children should be supervised to ensure that they do not play with the appliance.

8. This appliance is forbidden to be switched on if you think it may be frozen, as this could result in serious damage to the unit. Wait until you are sure that it has completely thawed before you switch it on.

9. Please feel the hot water temperature at the outlet with your hand to ensure it is suitable and avoid scalding.

10. Before connecting pipes to the water heater hoses, it is extremely important to FLUSH the pipes to wash away all plumbing paste or residue in the pipes.

11. If there is damage to the wire, you must contact a qualified electrician to replace it with dedicated wire from our authorized dealers.

12. The water relief valve should work periodically to remove calcium carbonate deposits.

13. The drain-pipe connected to the water relief valve should be installed continuously downward in a frost-free environment.

14. The faucet nozzle must be descaled regularly.

WARNING: Do not switch on if there is a possibility that the water in the heater is frozen.

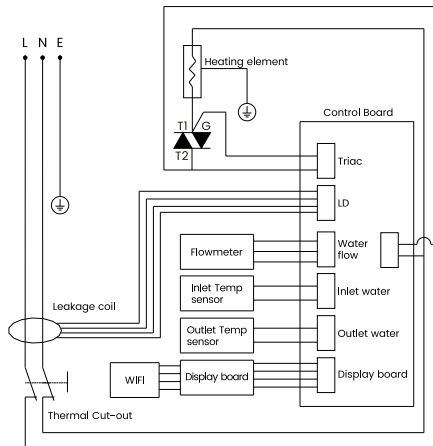
■ PRODUCT FEATURES

This mini tankless electric water heater differs from a conventional storage-type mini water heater. It doesn't store hot water. Instead, water is heated instantaneously as it flows through the unit. The powerful heating elements are activated by a flow switch as water is drawn from a main water faucet connected to the appliance. Due to the absence of stand-by loss, the mini has greater energy efficiency than storage-type water heaters. The unit is equipped with multiple safety devices and will continuously supply hot water as long as the faucet is open.

Additionally, the unit has the following features:

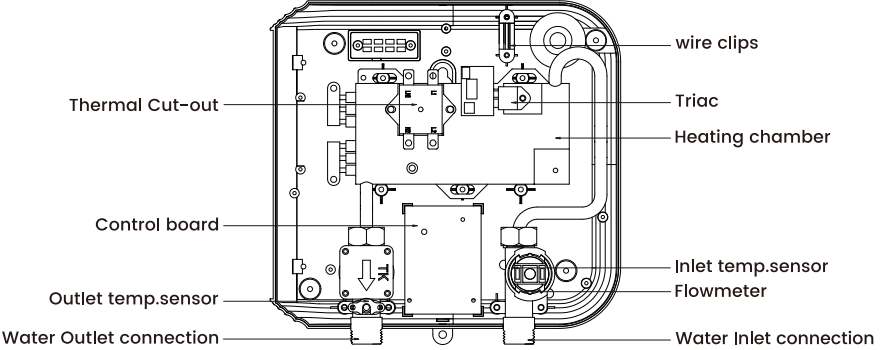
1. Compact appearance and unlimited supply of hot water.
2. High-strength ABS splash-proof casing, cast aluminum heating element.
3. Tankless, instantaneous heating for on-demand hot water. No pre-heating. No stand-by heating loss. Energy-saving.
4. Easy installation, heater can be installed above or under the sink.
5. Easy operation, the heater provides hot water at a constant temperature.
6. Microcomputer control, adopting patented heating technology. Water is completely separated from electricity by multiple layers of composite nano insulation material.
7. Over-temperature protection: When the outlet water temperature reaches or exceeds 65°C, the appliance will prevent scalding and will automatically resume operation once the temperature drops to a certain level.
8. There is overheat protection, dry-heating protection, and electric leakage protection function.

■ ELECTRICAL DIAGRAM

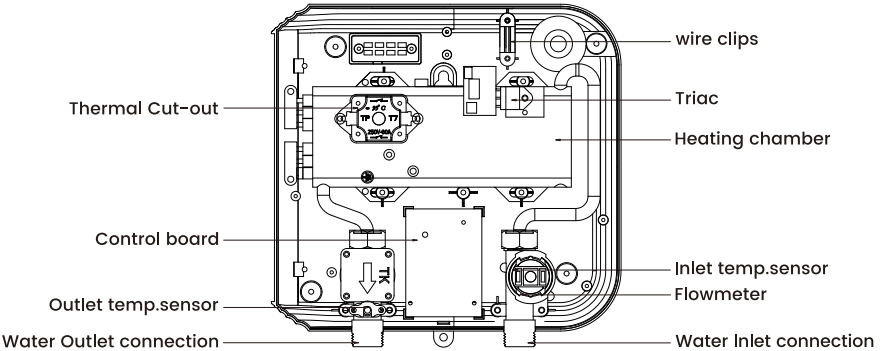


■ PRODUCT INNER STRUCTURE

3.5/4.5/5.5KW



7KW



■ TECHNICAL DATA

Model	KF35	KF45	KF55	KF70
Voltage	220V-240V			
Wattage	3500W	4500W	5500W	7000W
Rated Current	15.2A	19.6A	23.9A	30.4A
Min. required circuit breaker	20A	32A	32A	40A
Min. wire size	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²
Min. water flow to activate unit	1.2L/min			
Temp. setting range	30-55°C			
Thermal Cut-Out (Manual reset)	95°C			
Over Heating protection	65°C			
Working pressure	0.02-0.6MPa			
Product Dimensions	230*230*72mm			
Water connections	G1/2"			

■ INSTALLATION GUIDELINE

The installation must comply with the National Electrical Code and your local electrical and plumbing codes.

1. Ensure the appliance is intact and all fittings are complete.
2. Confirm that the main power supply, water pressure, grounding condition, ammeter, and wire meet the installation requirements.
3. The appliance must be connected to properly grounded, dedicated branch circuits of the correct voltage rating. Grounding must be established at the circuit breaker panel.
4. This appliance **MUST** be permanently connected to a fixed circuit breaker. Switch off the circuit breaker when the heater is not in use.
5. **DO NOT** install this appliance near flammable materials or strong magnetic fields. The appliance can be installed above or under the sink and must be mounted vertically near the water fittings. Test the unit by connecting the water supply before switching it on.

■ INSTALLATION METHOD

General:

The mini tankless electric water heater can be used for hand washing or in the kitchen and can be installed either above or below the sink.

Mounting the Unit:

Locate an appropriate place on a section of the wall as mentioned above.

Step 1: Front (Figure 1) and back (Figure 2) of the appliance

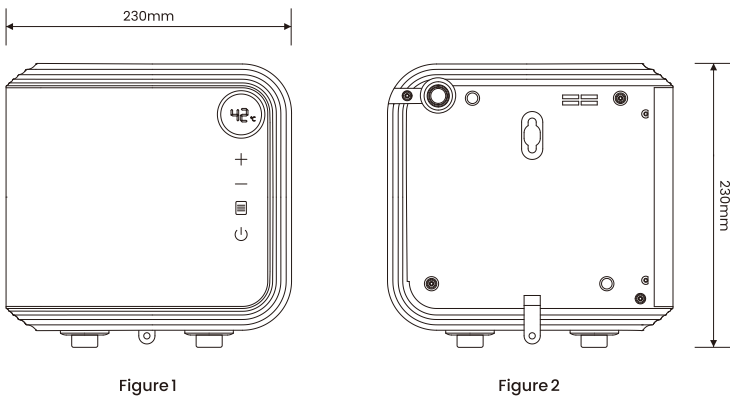


Figure 1

Figure 2

Step 2: Drill two holes with a 6.00mm diameter.

Upright Installation (Above the Sink): The distance between the holes should be 172mm. (Figure 3)

Upside Down Installation (Under the Sink): The distance between the holes should be 150mm. (Figure 4)

Place plastic anchors into the holes.

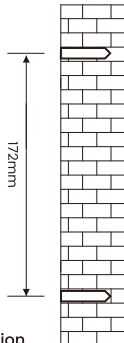


Figure 3
Upright Installation

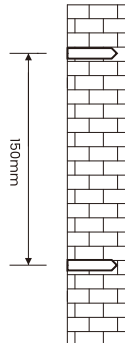


Figure 4
Upside Down Installation

Step 3: For Upright Installation, place the nail into the upper hole (Figure 5). For Upside Down Installation, place the nail into the lower hole (Figure 6). Secure the appliance to the wall with the nail.

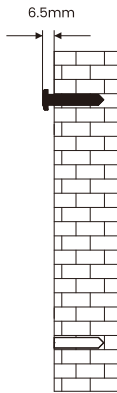


Figure 5
Upright Installation

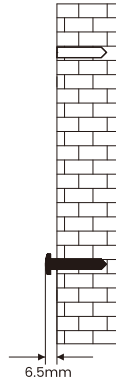


Figure 6
Upside Down Installation

Step 4: Fix the appliance to the wall with the fixed nail (Figure 7) (Figure 8).

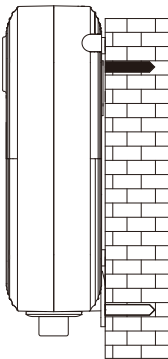


Figure 7
Upright Installation

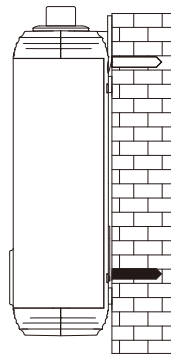


Figure 8
Upside Down Installation

Step 5: Secure the appliance with a nail in the other hole to ensure the whole appliance is firmly installed. (Figure 9) (Figure 10).

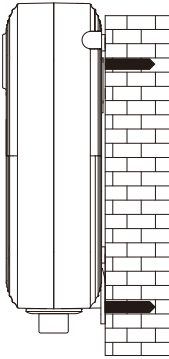


Figure 9
Upright Installation

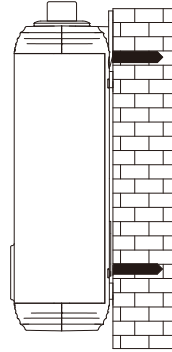


Figure 10
Upside Down Installation

Step 6: Connect the water pipe to the water inlet and outlet connections, and remember to install the rubber sealing ring (Figure 11)(Figure 12).

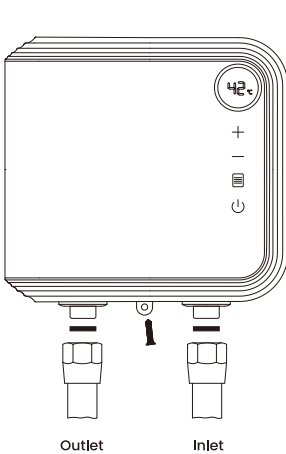


Figure 11
Upright Installation

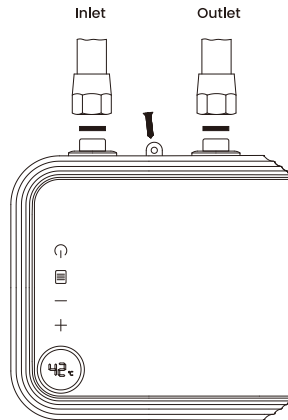


Figure 12
Upside Down Installation







Water Connections :

1. All water pipes must comply with national, state, and local water pipe codes.
2. Regardless of whether the appliance is installed upright or upside down, connect the inlet connection (indicated by the blue arrow) to the cold water inlet pipe and connect the outlet connection (indicated by the red arrow) to the hot water outlet pipe.
3. The unit should be connected directly to the main water supply. Flush the pipe with water to remove any debris or loose particles.
4. Use G1/2" water connections to fit the appliance. Ensure proper connections of the inlet and outlet pipes.(Figure 11)(Figure 12)
5. Remember to install rubber seal rings at the connections. When all water connections are completed, check for leaks and take corrective action before proceeding.

Electrical connection :

1. All electrical work must comply with national, state, and local electrical codes.
2. The unit must be connected to a properly grounded, dedicated branch circuit with the appropriate voltage rating.
3. When feeding the cable to terminal blocks/circuit breaker, ensure the metal wire ends make full contact with the terminal blocks. Tighten the screws to ensure the full current can flow through.
4. Before beginning any work on the electrical installation, ensure the main breaker panel switch is OFF to avoid the risk of electric shock. Complete all mounting and plumbing before proceeding with the electrical hook-up.

■ OPERATION INSTRUCTIONS

1. Turn on the circuit breaker to bring electrical power to the unit. The LED digital display screen will light up.
2. Turn on the water faucet for a few minutes until the water flow is continuous and all air is drained from the water pipes. The unit must be operated after the breaker is turned on.
3. After the unit is supplied with power, turn on the water, and the appliance will start working. The minimum water flow to activate the unit is 1.5 L/min.
4. Turn off the water flow; the appliance will stop working. It is not necessary to turn off the heater by pressing any key on the front panel.
5. Single touch  to turn ON/OFF the appliance. When the unit is ON, the LED displays the set temperature for 2 seconds, then displays the actual outlet water temperature. After 15 seconds of inactivity, the screen switches to screen saver mode, and the display screen will turn off. If the screen is touched, it will light up again.
6. Single touch  and  to adjust the outlet temperature. The temperature setting range is 30-55°C.
 - If the unit has been paused, you may initially get a short burst of very hot water when you turn it on again. Please run the water through for a few seconds to let the temperature settle down. Check the hot water temperature with your hand before use.
 - If the unit will not be used in winter, drain the water completely so the heater will not freeze.
 - Please regularly clean the inlet filter and the faucet nozzle to ensure a smooth water flow.
7. In OFF mode, touch  and  simultaneously and hold for 5 seconds. The LED digital display will flip upside down.
8. An automatic memory function avoids repetitive operation. When you turn on the appliance, the default set temperature will be the same as the last time it was set.
9. The device has an adjustable power function. Touch and hold for 5 seconds  to access the power setting menu. The default display shows the model's maximum output. Adjust the power using the rotary encoder, and 'PXX' will be displayed. The setting is automatically saved, and the menu will be exited after 3 seconds.
10. The appliance has an overheat protection function. When the outlet temperature reaches 65°C, the appliance will enter pause mode. It will start working again automatically only after the hot water temperature drops to 50°C.
11. The appliance has a dry-heating protection function. When the hot water temperature reaches 75°C, the power will be cut off and will only resume once the issue is resolved.
12. There is a real-time leakage detection function. If there is an electricity leak, the appliance will stop working automatically, and "E2" will appear on the LED screen.
13. Always check the temperature of the hot water with your hand before using it.

■ TROUBLE-SHOOTING

Problem	Possible Causes	Corrective Actions
Inlet and outlet fittings leaking.	Fittings not tight.	Tighten fittings.
	Rubber washer worn out.	Replace the rubber washer.
LED no signal.	Power not connected.	Connect power to the unit.
	LED damaged.	Replace LED.
Functional keys not working.	No water from the faucet.	Open the valve to get water.
	Water pressure too low.	Open the valve to increase pressure.
	Key or PCB damaged.	Replace key or PCB.
Water too hot.	Temperature set too high.	Set a lower temperature.
	Water flow too small.	Increase inlet water flow.
Water too cold.	Low temperature set.	Set a higher temperature.
	Water flow too much.	Reduce water flow.
Outlet water gets smaller and smaller.	Inlet strainer or faucet clogged.	Clean strainer and faucet.

Error Display:

If the system detects an error, the error code will be displayed on the screen as follows:

Error	Possible Cause	Solution
E1	Outlet temperature is over 75°C.	Reduce the temperature.
		Turn up the water flow.
E2	Electricity leakage.	Please contact the local dealer.
E3	Loose connection cable.	Ensure that the connection cable is securely plugged in.
	Failure of the inlet temperature sensor.	Replace the temperature sensor.
E4	Connecting wire is loose.	Plug the connecting wire in tightly.
	Outlet temperature sensor failure.	Replace the temperature sensor.
E5	Heating body surface temperature sensor failure.	Replace the temperature sensor.


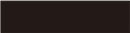
■ NORMAL MAINTENANCE

Note: Do not attempt to repair this water heater yourself; call a service person for assistance. Before this operation, the power supply needs to be shut off.

Regular maintenance is not required. However, to ensure consistent water flow, the following maintenance is recommended:

1. Periodically remove scale and dirt that may accumulate in the faucet nozzle.
2. There is a built-in filter screen at the inlet connection which should be cleaned from time to time. Please turn off the water flow before doing this.

■ CORRECT DISPOSAL OF THIS PRODUCT

CB CE	
 	<p>This marking indicates that this product should not be disposed of with other household waste throughout the EU.</p> <p>To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.</p> <p>To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.</p>

■ PACKING LIST

Item	Unit	Quantity
Electric Water Heater	Unit	1
Rubber Plug and Screw	Piece	1
Operation and Installation Instructions	Copy	1
Cable Clamp and Screw Sets	Set	1