

VEVOR[®]

TOUGH TOOLS, HALF PRICE

Technical Support and E-Warranty Certificate

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TANKLESS ELECTRIC WATER HEATER

MODEL:KFU70

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.



Warning-To reduce the risk of injury, users must read the instructions manual carefully.

WARNINGS

This is not a do-it-yourself project. Failure to have this appliance installed by a licensed plumber and electrician will void all warranties.

Under no circumstances should you attempt to install, repair or disassemble the tankless electric water heater without first shutting off all power to the unit directly at the circuit breaker box. Installation of this product is restricted to indoor locations only by licensed plumbing or electrical contractors.

Power cable and circuit breaker requirement			
Model	Main Circuit Breaker	Dedicated circuit breaker	Required wire
KFU70	≥30A	≥30A	10# AWG

PRODUCTION PRODUCT PARAMETERS

Model	KFU70
Voltage	AC240V
Wattage	7kW
Rated Current	29.2A
Min. Required Circuit Breaker	30A
Min. Wire Size AWG Copper	10#
Min. Water Flow to Activate Unit	0.4GPM
Product Dimensions	230x230x72mm
Water Connections	NPT1/2"

SAFETY & WARNING

When using electrical appliances, base safety precautions should always be followed including the following:

1. The unit is not suitable for bathing.
2. The installation must comply with the National Electrical Code, your local electrical and plumbing codes.
3. This appliance must be EARTHED.
4. Install or locate this water heater only following the provided installation instructions.
5. Use this water heater only for its intended use as described in this manual.
6. Contact a qualified electrician to have unit properly installed.
7. This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.
8. This appliance must be permanently connected to the fixed circuit breaker and it must be installed vertically .Do not install this appliance near to tinder or strong magnetic field place.
9. This appliance is forbidden to be switch on if you think it may be frozen, as this could result in serious damage to the unit. So wait until you are sure it has completely thawed out before switching it on.
10. Please feel the outlet hot water temperature with hand to make sure it is suitable for showering before taking a shower to avoid getting scalded.
11. 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.
12. If there is damage to the wire, you must contact a qualified electrician to replace it with a dedicated wire from our authorized dealers.
- 13. CONNECTED ONLY TO A CIRCUIT THAT IS PROTECTED BY A RECOGNIZED GROUND-FAULT CIRCUIT INTERRUPTER(GFCI).**
- 14. CAUTION: FOR HOUSEHOLD AND INDOOR USE ONLY.**

SAVE THESE INSTRUCTIONS

PACKING LIST

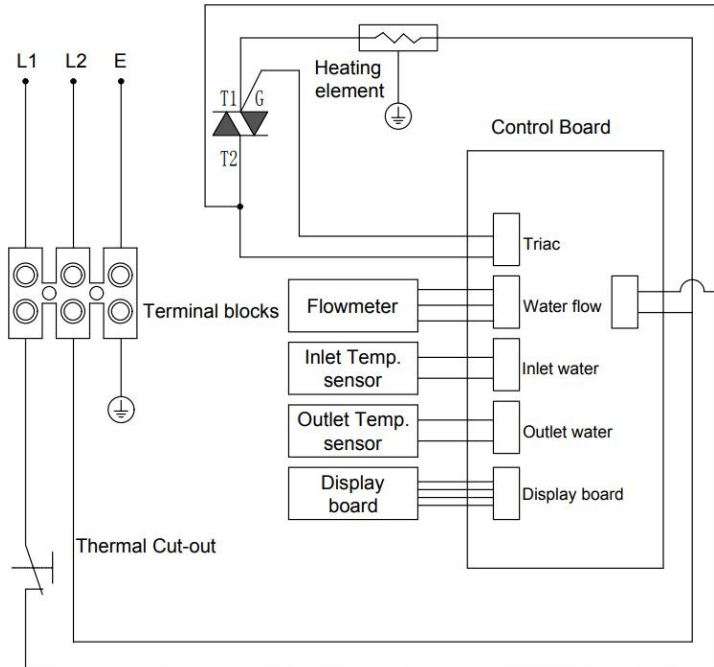
Item	Unit	Quantity
Electric Water Heater	Unit	1
Rubber Plugs ,Screw ,strainer	Set	1
Operation and Installation Instructions	Copy	1

PRODUCT FEATURES

This Mini tankless electric water heater differs from conventional storage-type mini water heaters. It doesn't store hot water. Instead, water is heated instantaneously as it flows through the unit. A flow switch activates the powerful heating elements as water is drawn from a hot faucet connected to the appliance. Due to the absence of standby loss, the mini heater has greater energy efficiency than storage-type water heaters. In addition, the unit is incorporated with multi-safety devices and will continuously supply hot water as long as the faucet is open.

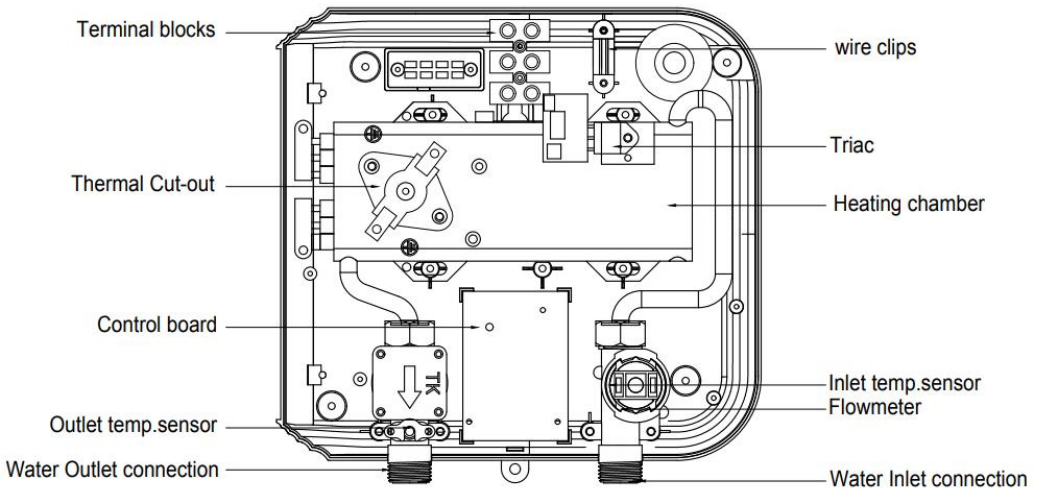
1. Besides, the unit has the following features.
2. Tankless, instantaneous heating for on demand hot water, No pre-heating. No stand-by heating loss. Energy-saving.
3. High strength ABS splash proof casing, UL RECOGNIZED heating element.
4. Compact appearance and unlimited supply of hot water.
5. Easy installation, heater can be installed above or under sink. Easy operation, the heater provides hot water at constant temperature.
6. Micro-computer control, adopting patent heating technology. Water is completely separated from electricity by multi-layers of composite nano insulation material.
7. Over temperature protection: when the outlet water temp. reaches or over 75°C, the appliance will avoid getting scalded and will start to work automatically while temp. drops to a certain temperature.

ELECTRICAL DIAGRAM



7KW

PRODUCT INNER STRUCTURE



INSTALLATION GUIDELINE

The installation must be in compliance with the National Electrical Code, your local electrical and plumbing codes.

1. Make sure the appliance is intact, and the fittings are complete.
2. Please make sure the main power supply, water pressure, grounding condition, ammeter and wire reach the standard of installation requirement.
3. The appliance must be connected to properly grounded dedicated branch circuits of proper voltage rating. Ground must be brought to the “ground” at the circuit breaker panel.
4. This appliance **must** be permanently connected to the fixed circuit breaker. Please switch off the circuit breaker if you don't use the heater.
5. **Do not** install this appliance near to tinder or strong magnetic field place. The appliance can be installed above or under the sink, and unit must only be mounted in a VERTICAL position nearby the water fittings. Please electrify and try the machine after getting through waterway.

Installation Method

• General

The Mini tankless electric water heater can be used for hand washing the kitchen and installed above or under the sink.

• Mounting the unit

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

Fig 1 → Front and back of the appliance

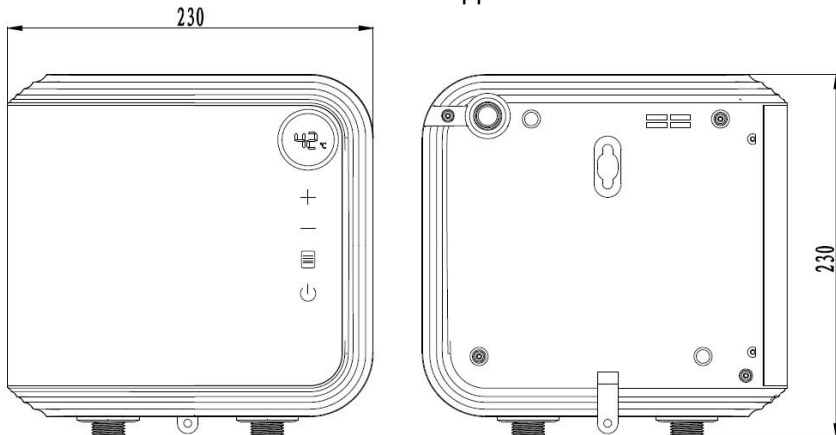


Fig 2 —————> Drill two holes of 6.00mm diameter: if you install the heater upright above the sink, the distance between every two holes is 172mm; if you install the heater upside down under the sink, the distance between every two holes is 150mm. Put plastic anchors in the holes.

Fig 2-A: Upward Installation

Fig 2-B: Downward Installation

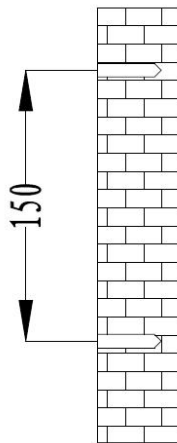
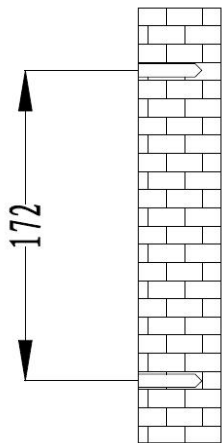


Fig 3 —————> For Upright Installation, nail in the floor in upper hole (Fig2-A). For Downward Installation, nail in the floor in under hole (Fig2-B), fix the appliance on the wall with the below nail.

Fig 3-A: Upward Installation

Fig 3-B: Downward Installation

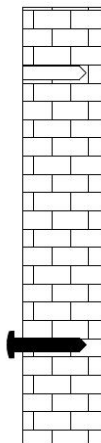
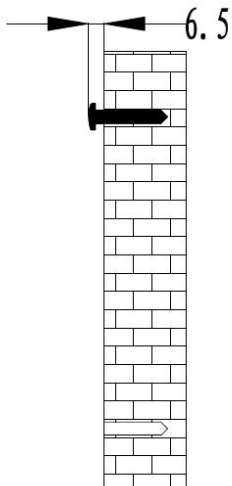


Fig 4 —————> Fix the appliance on the wall with the fixed nail;

Fig 4-A: Upward Installation

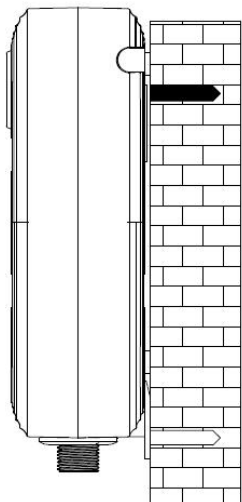


Fig 4-B: Upside down Installation

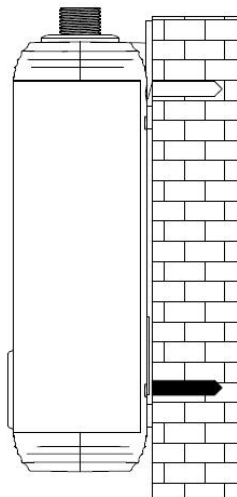


Fig 5 —————> Then fix the appliance with nail in another hole, to make sure the whole appliance is installed on firm.

Fig 5-A: Upward Installation

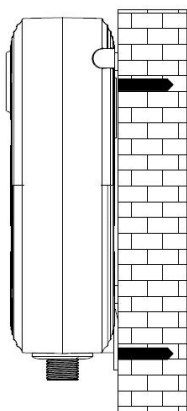


Fig 5-B: Upside down Installation

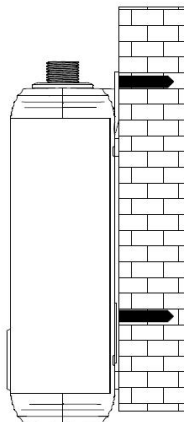
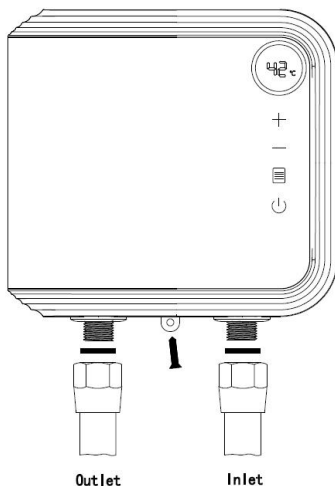


Fig 6 —————> Connect the water pipe to the water inlet and water outlet connections, please remember to install the rubber seal ring.



●Water Connections

1. All water pipes must comply with national and applicable state and local water pipe codes.
2. No matter install the appliance is upright or handstand, please connect the inlet connection (blue arrow points to) to the cold water inlet pipe; connect the outlet connection (red arrow points to) to the hot water outlet pipe.
3. The unit should be connected directly to the main water supply. Flush pipe with water to remove any debris or loose particles. Following pictures are for your reference.
4. It is required that use 1/2"NPT water connections to fit the appliance. Please connect the inlet and outlet pipe in perspective. Following pictures are for your reference.
5. Please 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 and applicable state and local

electrical codes.

2. All unit must be connected to a properly grounded dedicated branch circuit of proper voltage rating.
3. While fed the cable to terminal blocks/Circuit Breaker, please make sure the metal wire ends and the terminal blocks touch completely. Then tighten the screws up to make sure the full current can go through.
4. Before beginning any work on the electric installation, be sure that main breaker panel switch is OFF to avoid any danger of electric shock, all mounting and plumbing must be completed before proceeding with electrical hook-up.

OPERATION INSTRUCTIONS

TIPS: The power of the unit shall be adjusted before ex-factory. If there are no special circumstances, it is not recommended to press “” to adjust the power.


1. Turn on the circuit breaker to bring electrical power to the unit. The LED digital display screen will light.
2. Turn on the water faucet for a few minutes until water flow is continuous and all air is drained from water pipes. The unite must be operated after the breaker is turned on.
3. After the unit is supplied with power, please turn on the water and then the appliance will start work. The min water flow to activate the unit is 1.5L/min.
4. Turn off the water flow, the appliance will stop working. Turning off the heater by pressing any key on the front panel is unnecessary.
5. Single touch “” to turn ON/OFF the appliance. When the unit is ON, LED displays setting temperature for 2 seconds, then display the actual outlet water temperature. stop operating for 15 seconds, the screen switch to the screen saver mode. the display screen will be light off. If there is touch to the screen, the screen will light again.
6. Single touch “.”and or “.” adjust the outlet temperature. Temperature setting range is 30-55°C.
 - a.If the unit has been paused, you may initially get a short burst of very hot


water while you turn on again. Please run the water through for a few seconds to let the temperature settle down. Please check hot water with hand before using.

b.If the unit is not used in winter, drain out the water completely so the heater will not be frozen.


c.Please periodically clean inlet strainer and the spray head to keep a free water flow.

7. In off mode,

a) Touch “

b) Long press “

8. There is an automatic memory function to avoid repetitive operation, while you turn on the appliance, the default set temperature will be the same as last time set.

9. There is an adjustable power function, touch and hold on for 5 seconds “

10. There is overheat protection function for the appliance, while the outlet temperature reaches 65°C, the appliance will enter into pause mode, only after the hot water temp drop to 50°C, it will start to work again automatically.

11. There is dry heating protection function for the appliance, while the hot water temperature reaches 75°C, the power will be cut off, only after the faults remove.

12. There is real-time leakage detection function, while there is an electricity leakage, the appliance will stop working automatically and E2 appear in LED screen.

13. Please check hot water with hand before using.

- If the unit is not be used in winter, drain out water completely so that the heater will not be frozen.
- Please periodically clean inlet filter and the spray head to keep a free water flow.

TROUBLE-SHOOTING

Problems	Possible Causes	Corrective Actions
1. Inlet and outlet fittings is leaking.	A. Fittings is not tight. B. Rubber washer is worn-out	A. Tighten fittings. B. Change rubber washer.
2. LED has no signal.	A. Power is not connected. B. LED is damaged.	A. Connect power to the unit. B. Change LCD.
3. Functional keys are not working.	A. No water out from shower. B. Water pressure is too low. C. Key or PCB is damaged.	A. Open valve to get water. B. Open valve to get pressure. C. Change key or PCB.
4. Water too is hot.	A. Too high temperature set. B. Water flow is too small.	A. Set a lower temperature. B. Increase inlet water flow.
5. Water is too cold	A. Low temperature set. B. Water flows too much.	A. Set a higher temperature. B. Reduce water flow.
6. Outlet water gets smaller and smaller.	Inlet strainer or shower clogged.	Clean strainer and shower.
7. LED displays E1	Outlet temp. is over 75°C.	A. Reduce the temperature B. Turn up the water flow
8.LED displays E2	Electricity has leakage.	Please contact with the local dealer
9. LED displays E3	A. The connecting wire loose. B. Inlet Temperature sensor failure	A. Plug in the connecting wire tightly. B. Replace the temperature sensor
10. LED displays E4	A. The connecting wire loose. B. Outlet Temperature sensor failure	A. Plug in the connecting wire tightly. B. Replace the temperature sensor
11.LED displays E5	Heating body surface temperature sensor has failure.	Replace the temperature sensor

NORMAL MAINTENANCE

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

It is not required any regular maintenance. However, to ensure consistent water flow, it is recommended to follow the maintenance.

1. Periodically remove scale and dirt that may build up at the aerator of the faucet or in the shower head.
2. A built-in filter screen at the inlet connection should be cleaned occasionally. Please turn off the water flow before doing this.

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