

HOTSPRING™ TANKLESS WATER HEATER

6-9KW / 12KW / 18KW

HSTB9 • HSTB12 • HSTB18

 ZÄNSKAR

45°C



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WHATS IN THE BOX?

- 1 × Electric water Heater
 - 3 × Raw wall plug and screw
 - 1 × Operation and installation manual
 - 3 × Rubber washers for connection pipe
 - 1 × Stainer
 - 1 × Warranty Card
 - 1 × Template For Mounting Holes Distance
-

! Please note, 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 electric instantaneous water heater without first shutting off all power to the unit directly from the circuit breaker box. Installation of this appliance is restricted to indoor locations only, by licensed plumbing or electrical contractors.

APPLIANCE FEATURES	1
TECHNICAL INFORMATION	4
OPERATIONAL INSTRUCTIONS	5
SAFETY INSTRUCTIONS	6
BEFORE YOU INSTALL	7
HOW TO INSTALL	8
WATER CONNECTIONS	9
ELECTRICAL DIAGRAM	10
CONNECTING CABLES AND POWER CHORDS	11
INSIDE-VIEW OF APPLIANCE	12
TROUBLESHOOTING	13
WARRANTY+ CERTIFICATIONS	15

HERE'S A LITTLE INFO ABOUT THE APPLIANCE

The way it functions. What it does. And a lot more.

APPEARANCE



CHARACTERISTICS

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

DIMENSIONS



88 mm



FEATURES




- This electric instantaneous water heater is incorporated with patented heating technology and multi- safety devices.
- This appliance provides Instantaneous heating for on-demand hot water, no pre-heating, no stand-by heating loss, along with efficient energy saving mechanisms.
- This appliance is controlled by a micro-computer.
- The micro-computer automatically calculates electricity and water consumption.
- Water is completely separated from electricity by multi-layers of composite nano insulation material.
- When the outlet water temperature crosses 65°C, the appliance will enter into pause mode and, resume working automatically when the temperature drops to 50°C.
- There is a built in pressure relief valve at the water outlet to prevent explosion

TECHNICAL SPECIFICATIONS

	HSTB9	HSTB12	HSTB18
Phase	1	3	3
Rated Output	6-9 kW	12 kW	18 kW
Circuit breaker	32-40A	20A	32A
Wire	3×4-6 mm ²	5×4-6 mm ²	5×4-6 mm ²
IP Rating	IP 25	IP25	IP25
Max Pressure	6 Bar	6 Bar	6 Bar
Inlet Size	G1/2"	G1/2"	G1/2"
Weight	4.05 kg	4.5 kg	4.6 kg
Dimension h x w x d	396*220*88 mm	396*220*88 mm	396*220*88mm
Colour	White	White	White

BEFORE YOU OPERATE THE APPLIANCE

Read through this manual to better understand how the appliance works, along with its installation and maintenance procedures.

- Turn on the circuit breaker to bring electrical power to the appliance.
- Open water faucet for a few minutes appliance water flow is continuous and all air is removed from water pipes. The appliance must be operated after the breakers are turned on.
- After the appliance is supplied with power, a beep sound can be heard along with LED lights for 2 seconds and no other display. The appliance will then enter standby mode.
- Press  to turn ON/OFF the appliance. When the appliance is ON, LED displays setting temperature for 2 seconds, then displays the actual outlet water temperature. When you stop operating the appliance for 15 seconds, the screen switches to the screen saver mode. The display screen will be off. Once you touch the screen again, it turns back on.
- Press  and  to adjust the outlet temperature. Temperature setting range is 30-55°C.
 - If the appliance has been paused, you may initially get a short burst of very hot water while you switch it on again. Please let the water run for a few seconds to let the temperature settle down. Please check the temperature of the water before use.
 - If the appliance is not used during winter, drain out the water completely to prohibit the appliance from freezing.
 - Please clean the inlet strainer and the shower periodically to allow free and unhindered water flow.
- There is an automatic memory function to avoid repetitive operation. So, when you switch on the appliance, the default set temperature will be the same as set to last time.

HERE ARE SOME SAFETY PRECAUTIONS

To follow while installing or operating the appliance, in order to avoid unforeseen hazard or damage to the product, which in turn may harm the person operating it.

- The installation must be in compliance with your local electrical and plumbing codes.
- This appliance must be EARTHED.
- All wiring and installation must be supervised by a qualified electrician.
- This appliance can be used by children aged from 8 years and above, and is also suitable for persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge. Provided that they have been given apt supervision or instruction concerning use of the appliance in a safe way and non- hazardous manner. Children should not play with the appliance. Cleaning and user maintenance should not be carried out by children without apt supervision.
- This appliance **MUST** be permanently connected to the fixed circuit breaker and its recommended to be installed vertically.
- **DO NOT** install this appliance near to tinder or a strong magnetic field location.
- Do not switch on the water heater if there is a possibility that the water in the heater is frozen. As this could result in serious damage to the appliance. Wait until you are sure that the frozen water has completely thawed, and drained out, before you switch on the water heater.
- Please feel the outlet hot water temperature with your hand to make sure it is suitable for use, to avoid scalding.
- Before connecting the pipes to the water heater hoses, it is extremely important to **FLUSH** the pipes to wash away all plumbing paste or residue present inside.
- If there is damage to the wire, you must contact a qualified electrician to replace it.
- The shower head should be cleaned and descaled periodically.
- The regulation valve at the water inlet should work periodically in order to remove calcium carbonate deposits.
- The drain-pipe connected to the water relief valve should be installed in a continuous downward manner in frostless environment.
- The spray head must be descaled regularly.

BEFORE YOU INSTALL THE APPLIANCE

Make sure you've read the below pointers carefully.

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

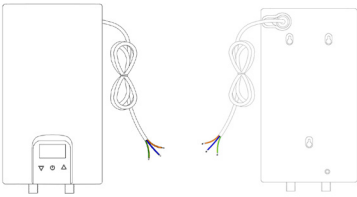
- Make sure the appliance is intact, and the fittings are complete.
- Please make sure that the main power supply , water pressure , earthing and wires are in compliance with the required standards of installation.
- The appliance must be earthed properly.
- It is recommended that the appliance is mounted in a vertical position as close as possible to the shower faucet

WHEN INSTALLING THE APPLIANCE

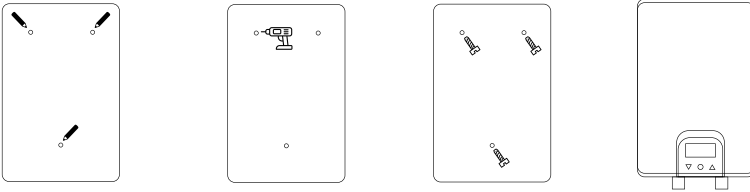
Make sure the following criteria are adhered to.

For Fixed installation on the wall

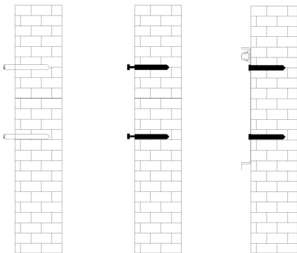
- Locate an appropriate place on a section of wall as above mentioned.
- How the front and the back of the appliance looks like.



- Use the cardboard to make 3 marks for punching. Then drill 3 holes with 6mm diameter, and insert 3 expansion screws in the wall.
- After that, put a 4*25mm self-tapping screw into the expansion screw.



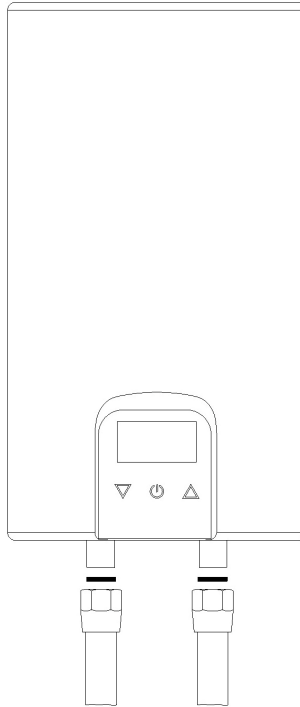
- Fix the appliance on the wall as illustrated below.



WHEN HANDLING THE WATER CONNECTIONS

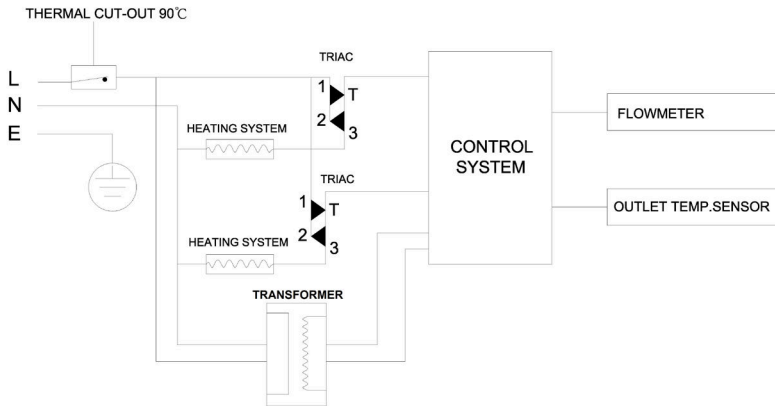
Read the following points to make the process safe and worry-free

1. All water pipes must comply with codes compliant to national, state and local laws.
2. The appliance should be connected directly to the main water supply. Flush the pipe with water to remove any debris or loose particles before activating the main water supply.
3. It is recommended that you use G1/2" water connections to fit all the models.
4. 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 further.

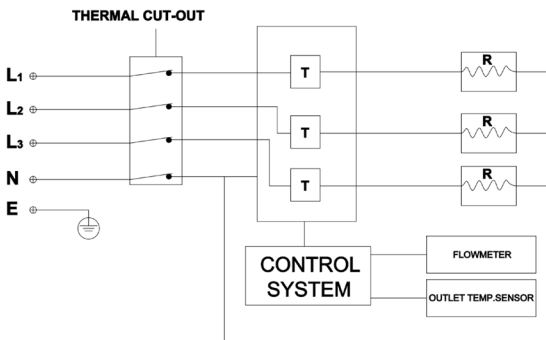


HERE'S AN ELECTRICAL DIAGRAM OF THE APPLIANCE

Model HSTB9 - 1 Phase



Model HSTB12 / HSTB18 - 3 Phase

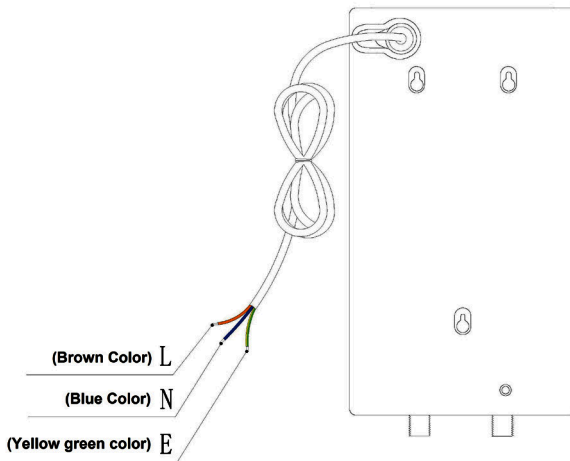


Remark: R: heating coil T: triac

CONNECTING CABLES AND POWER CHORDS

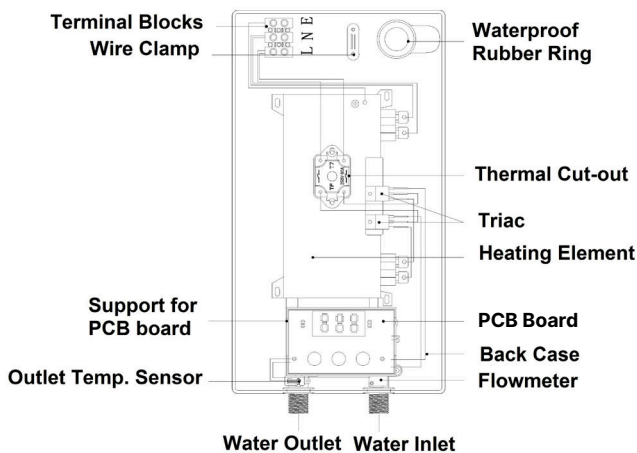
Read the following points to make the process safe and worry-free

1. All electrical work must comply with codes compliant to national, state and local laws.
2. All the models can be connected to a single circuit, use a supply cable protected by a double pole breaker
3. When you connect the cables to terminal blocks, please make sure that the metal wire ends and the terminal blocks touch completely. Then tighten the screws to make sure that the full current-supply can pass through.
4. Before beginning any work on the electric installation, be sure that the 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.

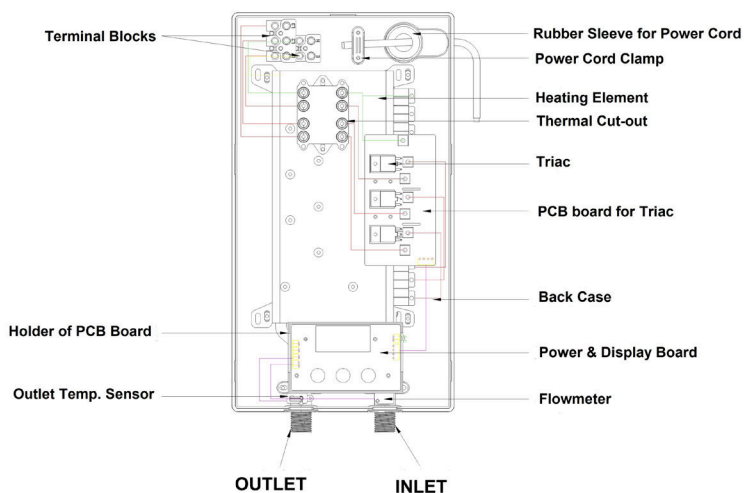


HOW THE APPLIANCE LOOKS FROM THE INSIDE

Model HSTB9 - 1 Phase



Model HSTB12 / HSTB18 - 3 Phase



TROUBLESHOOTING AND MAINTENANCE

Here are some instructions to make it a hassle free process.

Note: Do not attempt to repair this appliance yourself. Call an authorised Zanskar service person. Always shut off the power supply while operating maintenance.

- Remove scale and dirt that may build up at the aerator of the faucet or in the shower head periodically.
- There is a built-in filter screen at inlet connection which should be cleaned from time to time.
- Please turn off the water flow before doing this.

TROUBLESHOOTING

Problems	Possible Causes	Corrective Actions
1. Inlet and outlet fittings leaking	A. Fittings not tight B. Rubber washer worn-out	A. Tighten fittings. B. Change rubber washer.
2. LED no signal	A. Power not connected. B. LED damaged.	A. Connect power to the appliance. B. Change LED.
3. Functional keys not working	A. No water out from shower. B. Water pressure too low. C. Key or PCB damaged.	A. Turn on valve to get water. B. Turn on valve to get pressure. C. Change key or PCB.
4. Water too hot	A. Too high temperature set. B. Water flow is low.	A. Set a lower temperature. B. Open valve bigger.
5. Water too cold	A. Low temperature set. B. Water flow is too much.	A. Set a higher temperature. B. Reduce water flow.
6. Outlet flow is low	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 E3	A. the connecting wire loose. B. Temperature sensor failure	A. Plug in the connecting wire tightly. B. Replace the temperature sensor

WARRANTY ON ZANSKAR APPLIANCES

ZANSKAR appliances are designed, produced and shipped free from defects and will function reliably when installed properly, used correctly and treated in accordance with installation and operating instructions as mentioned in this manual.

The warranty period for ZANSKAR appliances for territory of India will be as indicated in the operating manual and/or advertised in the website/catalogs:

Comprehensive Warranty 2 years

Zanskar's authorised service centre/agent will at their option repair or replace those appliances which within the warranty period stated above subject to the following terms and conditions:

- Liability under the warranty will only be covered if the installation of the Zanskar's Appliances has been carried out by an authorised representative of the Zanskar or an authorised / approve
- Liability under warranty does not cover damage due to calcification and foreign matter intervention. Warranty not valid if TDS is above 100ppm
- Inspection report of the Zanskar's authorised technician will be treated as final and binding under the warranty for determining the defects, repairs/alterations required or carried out or certifying working of the goods thereafter
- The customer will have no claim under this warranty in respect of personal injury, damage or property or consequential damages, or for utilisation of the goods not in accordance with the operating manual
- Under this limited warranty for service and repair Zanskar will provide only a replacement of appliance or part thereof. The owner is responsible for all other costs. Such costs may include but are not limited to, labor charges for service, removal, repair or reinstallation, shipping, delivery, handling of the appliance & road permits etc.
- Warranty is only valid on producing a valid invoice showing purchase of the product from an authorised reseller or a copy of the warranty card duly filled in and signed/stamped by Zanskar's representative.

For detailed terms & conditions to claim this warranty refer warranty card or our website www.zanskar.in

CERTIFICATIONS

THIS APPLIANCE IS ASSIGNED WITH INTERNATIONAL CERTIFICATIONS.



International
Electrotechnical
Commission

