

**DO'S**

- The gate valve at the inlet should always be kept open.
- To minimize scaling of heating element & the tank, (which takes place rapidly in areas of hard water), drain the water from heater unit periodically. However get this done through a qualified technician/plumber only
- Always get the water heater serviced once in a year from a Havells authorized service representative
- Use genuine spares when spares replacement is necessary.
- In case LED do not glow, do not start the unit by resetting the thermal cutout. Instead contact the nearest customer care centre.

**DON'TS**

- Safety devices like safety valve, thermostat, thermal cut-out etc are pre-set from factory & sensitive devices. Do not tamper with them, this could be hazardous.
- Do not switch ON the heater till it is completely filled with water.
- In case you observe any abnormality of operation, immediately switch OFF the main power supply to the unit and contact the nearest customer care centre.
- Never install a pressure reducer valve at the inlet.

**WARRANTY**

This Havells Water Heater carries warranty of two years (24 months) for all electrical items including heating elements and 5 years for the Tank from the date of purchase against manufacturing defect. Free repair will be provided under this warranty when the water heater is returned to our service centre freight and cartage paid.

**This warranty only applies if -**

a)	The water heater has been installed as per instruction manual.
b)	Maintenance has been carried out as instructed.
c)	Safety valves have been kept in right working condition.

**The warranty is void if -**

a)	The tank has been damaged by external causes.
b)	Damages due to misuse, accident, negligence, un-authorized repair or alteration or modifications or incorrect use of the water heater & normal wear & tear. Due to quality of water, scaling or sediment deposits

If the malfunctioning of water heater is caused due to poor quality of water, it will not be covered under warranty. The recommended water quality parameters are given below

Sr No	Description	Desirable Limit
1	pH	6.5 - 8.5
2	Total hardness	300 mg/L (Max)
3	Alkalinity	200 mg/L (Max)
4	Total dissolved solids	500 mg/L (Max)
5	Chloride	250 mg/L (Max)

Please preserve this warranty card along with paid bill/invoice received from the dealer while making purchase. These documents must be presented to the service centre or to the dealer to avail this warranty. Whenever some part is to be replaced get only genuine spares from our dealer. If there is any difficulty, please contact our service centre or customer care call.

**HAVELLS** (5)

**Troubleshooting Chart**

Symptoms	Possible Cause	Suggested Remedy
Unit does not start	MCB has tripped	Reset MCB MCB Rating Advice - For 3 kW- 15 A or more & For 4.5 kW 20 A or more Press Reset Button present in unit
	Cut-out operated	Make sure Water is filled in tank before switching the unit again
	NO power supply	Switch On the power supply Check blue/red light is glowing
Current in Water	Installation	Use only ISI marked 3-Pin Plug (Not provided with this unit) For 3 kW- 15 A or more & For 4.5 kW 20 A or more Check earthing of the house Check the connection inside the socket and plug (should not be loose)
	Water Flow Rate	By Controlling flow of water, desired hot water can be achieved. Greater the flow, lower will be the temperature of water and vice versa Advice to keep 2 L / min (to be checked & set through tap by customer)
Low Heating	PRV	If more than 20 Floor (Water Head max Height 65 m) Recommend to use pressure reducer
	Water Leakage	Steps to follow - Locate the Leak, Shut off Water, Check Fittings, Repair or Replace (Flexipipes Not provided with this unit) Installation by Havells team

**NOTE** :- If the Unit still does not work, or if any other types of symptoms are encountered, shut off the power supply and call the Havells customer service

**E-WASTE DISPOSAL**

**Environmental Compliances:**

As per the rules laid down by the Government for environmental concern & safety, your product has been made to comply and conform to the respective regulation as listed below. This product falls under the E-WASTE (MANAGEMENT) RULES, 2022 with all amendments of Ministry of Environment, Forest & Climate Change.

**RoHS Declaration: RoHS COMPLIANT**

This Product is in conformity with requirements of Rule 16 of the E-WASTE (MANAGEMENT) RULES, 2022 with all amendments. The content of hazardous substances with the exemption of the applications listed in SCHEDULE II of the E-Waste (Management) Rules, 2022 with all amendments is as follows:

- Lead (Pb): not over 0.1% by weight;
- Mercury (Hg): not over 0.1% by weight;
- Cadmium (Cd): not over 0.01% by weight;
- Hexavalent Chromium (Cr<sup>6+</sup>): not over 0.1% by weight;
- Polybrominated Biphenyls (PBBs): not over 0.1% by weight;
- Polybrominated Diphenyl Ethers (PBDEs): not over 0.1% by weight.

**HAVELLS** (6)

**Do's and Don'ts for disposal of product:**

**1. Do's :**

- Always drop your used electrical/electronic products, defective spares or any accessories and packaging materials after the end of their life at the nearest authorised collection point/center.
- Make sure that your electronic products are recycled only by authorised recyclers/dismantlers.
- Segregate the packaging materials according to their respective waste disposal options and sorting for recycling.
- Protect the glass surface of any electronic product to avoid breakage.

**2. Don'ts :**

- Never dismantle your electronic product yourself.
- Never sell or give E-Waste to informal and unorganised sectors like local scrap dealer/rag pickers.
- Never dump E-Waste in garbage bins or municipal solid waste stream.
- Do not dispose your product as unsorted municipal waste.

For more information on safe disposal, recycling and collection point, visit our website <https://www.mylloyd.com/about-us/social-initiatives> and <https://www.havells.com/en/discover-havells/ewaste-awareness.html> or write a mail to [ewaste@havells.com](mailto:ewaste@havells.com)

**WARRANTY CARD**

Customer Name \_\_\_\_\_  
 Customer Address \_\_\_\_\_  
 Pin Code \_\_\_\_\_  
 Date of Purchase \_\_\_\_\_

Dealer's Name & Address \_\_\_\_\_  
 Dealer's Stamp: \_\_\_\_\_

Product Model  
**Instantio 1 L & 3 L**

Product Serial No. \_\_\_\_\_

Actual products may vary in colour, design, description and colour combination etc. Although every effort has been made to ensure accuracy in the completion of the technical detail within this publication. Specifications & performance data are constantly changing.  
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**Havells India Ltd.**  
 DRG Towers, 2D, Sector - 126,  
 Expressway, Noida - 201 304 (UP), Ph. +91-120-3331000,  
 E-mail: [customercare@havells.com](mailto:customercare@havells.com), [www.havells.com](http://www.havells.com)  
 Customer Care No.: 08045 77 1313  
 Join us on Facebook at [www.facebook.com/havells](http://www.facebook.com/havells) and share your ways to save the planet!  
 CN - L31900DL1983PLC016304.

**HAVELLS**

102.50 MM

**Operating Instructions**

**Water Heater**

**HAVELLS**

Instantaneous Electric Water Heater  
**Instantio 1 L & 3 L**

WARRANTY  
 5 YEAR  
 3 YEAR

**HAVELLS**

148.00 MM

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Dear Customer,

We congratulate you on choosing a **HAVELLS** Electric Water Heater, one of the highly prestigious brand in India. Meticulously designed, using only the highest quality materials and components, your electric water heater is designed to have many years of trouble free operation.

To enable your electric water heater to give you many years of perfect trouble free service, we recommend you to follow the advice contained in this instruction manual very carefully.

**PARTS LIST :**

**Product Dimensions :**

Model	A	B	C	D	E	F	G
Instantio 1 L	205 mm	294 mm	66.5 mm	184 mm	319 mm	12.7 mm	60 mm
Instantio 3 L	225 mm	373 mm	66.5 mm	190 mm	345 mm	12.7 mm	60 mm

\*Note: All dimensions are in mm, dimensions tolerance +5 mm  
 Dimensions in mm above refer to mechanical figures in this page.

**HAVELLS** (1)

**Technical Specifications :**

S.No.	PARAMETER	Instantio 1 L	Instantio 3 L
1.	Rated Capacity in Litre	1 L	3 L
2.	Mounting	Vertical	Vertical
3.	Rated Voltage in Volt & frequency in Hz	230 V, 1 Phase, 50 Hz, AC	230 V, 1 Phase, 50 Hz, AC
4.	Rated Power Input in Watt	3000 W / 4500 W	3000 W / 4500 W
5.	Rated Input Current in Ampere	13.1 A / 19.6 A	13.1 A / 19.6 A
6.	Rated Pressure in MPa	0.65 MPa / 0.65 MPa	0.65 MPa / 0.65 MPa
7.	Weight of water heater in kg	Empty: 2.25 kg / Water Filled: 3.35 kg	Empty: 3 kg / Water Filled: 6.2 kg
8.	Class of Appliance	Class I	Class I

**WARNING**  
 The installer should review the contents of this manual along with the owner after completion of installation and the manual should be left with the owner and placed at a place close to the installation.

**Key Features :**

<ul style="list-style-type: none"> <li>High precision pre-calibrated thermostat</li> <li>Safety valve</li> <li>Pre-set thermal cutout</li> <li>Fire retardant power cord</li> <li>High working pressure 0.65 MPa ideal for high rise buildings</li> </ul>	<ul style="list-style-type: none"> <li>Color Changing LED Indicator</li> <li>Compact &amp; easy to install</li> <li>ISI Marked</li> <li>Utmost Durability</li> <li>Extra thick stainless steel inner tank of superior grade</li> <li>Rust and shock proof outer body</li> </ul>
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**Safety Devices:**  
 Havells Water Heater is built-in with a host of Safety Devices to ensure your safety at all times. The operation of these devices are described below :

**A. Thermostat**  
 Pre-calibrated : This device "cut-off" and "cut-in" the power supply between a narrow band of temperature range. The indicator lamp provided with this circuit glow and switch off during cut-in and cut-off. This shows the proper working of the thermostat. This is pre-calibrated device.

**B. Thermal Cutout**  
 A non-self resetting thermal cutout is provided as a safety device. When the thermostat fails to function, it cuts-off the power at 92°C. The thermal cutout has to be manually reset with the reset knob provided at bottom of the unit, before the water heater can start operating again.

**C. Safety Valve**  
 1. This valve prevents the built-up of excessive pressure within the water heater by releasing water from the drain.

**HAVELLS** (2)

**CAUTION**  
 For your safety do not ever tamper with safety valve. Any tampering with the setting can be hazardous.  
**Warning is void if setting is tampered.**

**Installation:**

- Do not switch "ON" before filling the heater with water.
- Get a Havells authorized Technician for the installation of the water heater.
- Use the template to drill holes and mount the water heater in vertical position on the wall by fixing 2 bolts.
- The water heater should be connected through shock protection devices, like RCCB and short circuit protection device like MCB.
- The water heater should be about 1.8 m above the floor and there should be a clearance of 50 cm between the top of the water heater and roof. Sufficient space should be provided around the unit for easy installation and servicing.
- The cold and hot water pipes should be connected to the heater directly through a flexible pipe. Care to be taken to avoid damage caused by applying excessive force while connecting.
- The Supply cord should be connected to the suitable rated socket outlet. Ensure that the connection in the plug and socket are secure and proper earthing is provided to the unit.
- The distance between hot water taps and the water heater should be as short as possible for better result.
- If the operating pressure in the water heater is above 6.5 bar (95 psi) fit a pressure reducing valve.
- No other tapings or branch connection should be taken from the inlet plumbing line.
- Do not connect the water heater in any pressure booster pump line.

**Safety Precautions**

**Water Connections**

**CAUTION**

A. Do not connect the inlet directly to water lifting pump.  
 B. Do Not SWITCH ON water Heater without water filled in tank.

- In case inlet water pressure is more than 0.65 MPa or water pressure head 60 metre, install the dead weight valve before outlet (not provided with this unit).
- Minimum height between the water heater and water supply tank should be at least 1 metre.
- For connecting the inlet & outlet between water heater and bathroom fittings, use metal flexible pipes.
- Cold water inlet is marked blue and hot water outlet is marked red.
- First, fix the safety valve to inlet source of water.
- Open inlet water tap and allow the water to fill in the water heater. Make sure that the water starts flowing from outlet of water heater.
- Connect the outlet with metal flexible pipe to hot water outlet point of bath fitting. Open the tap & valve and check the water flow through the hot water tap.

**HAVELLS** (3)

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**Electrical Connections**

- This unit is provided with all internal connections/wiring made in the factory itself.
- The water heater is provided with a supply cord.
- To energize water heater plug in the 3-pin socket for electric supply. (Not Provided with this unit)

**Internal Wiring Diagram**

**Operation Of Water Heater :**

**A. Using the heater for the first time :**

- Do not switch "ON" before filling the heater with water.
- Leave the hot water tap open. Now fill the heater by opening the control valve at the inlet.
- When the heater is full, water will start flowing through the hot water tap. Close the hot water tap.
- Now the heater will always have water inside. Water drawn will be replaced by water from the over head tank.
- Always keep the inlet control valve open.
- Now switch "ON" the power supply to the heater.

**B. Using the heater regularly :**

- Always keep the inlet valve open so that water drawn from the hot water tap is automatically replaced from the mains.
- When the water reaches the required temperature the thermostat will cut-off the power supply automatically.
- The thermostat is pre-calibrated at 55 °C
- As the temperature of water inside the tank drops thermostat again switches the power supply on.
- By controlling flow of water desired hot water can be achieved. Greater the flow, lower will be the temperature of water and vice-versa.

**Maintenance & Cleaning :**

- To benefit from the highest standards of service and to ensure your guarantee remains in focus, please always contact HAVELLS approved dealer or HAVELLS Authorised Franchise.
- Always keep the inlet control valve open till the water heater is in use.
- Never switch "ON" the water heater without water in the heater. It will damage the heating element.
- Check condition of metal flexible pipe at least once in a year; if found damaged replace with new pipes.
- Check the condition of power & supply cord for "No Damages". Replace it by an authentic supply cord in case of damage.
- If the water heater is not going to be used for a long time.
  - Plug Off the power supply.
  - Stop Inlet water supply.
- To increase the life of heating element, de-scaling caused by impurities in the water supply should be done periodically, if required, you may take the assistance of the nearest authorized service center.
- During reuse of water heater
  - Open Inlet Valve and fill the water heater till the clean water flows from outlet tap.
  - Plug-in the power supply to heat the water

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