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## About A. O. Smith

In 1936, A. O. Smith developed and patented a process to glass-line water heaters. Over the years, A. O. Smith has gained the respect and support of homeowners, contractors, architects, and specifying engineers in over 60 countries by providing innovative energy efficient products designed for years of trouble-free service.

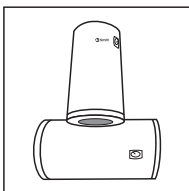
Today, A. O. Smith Water Products Company, the largest water heater manufacturer in North America; a division of A. O. Smith Corporation, is a global leader in innovative technology and energy efficient solutions.

A. O. Smith India Water Heater Private Limited was established in 2005. Since this time, the A. O. Smith team has conducted numerous focus group studies and spent an endless number of research hours determining what India wanted in a water heater. Backed by 70 years of proven technological advances A. O. Smith India has created a stylish design with features demanded by the Indian consumer.

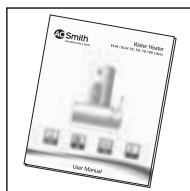
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## What's in the box?

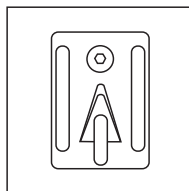
Electric  
Water Heater



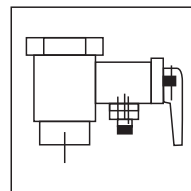
User  
Manual



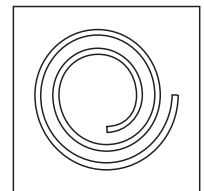
Wall Mounting  
Accessory



Safety Valve



Drain Pipe



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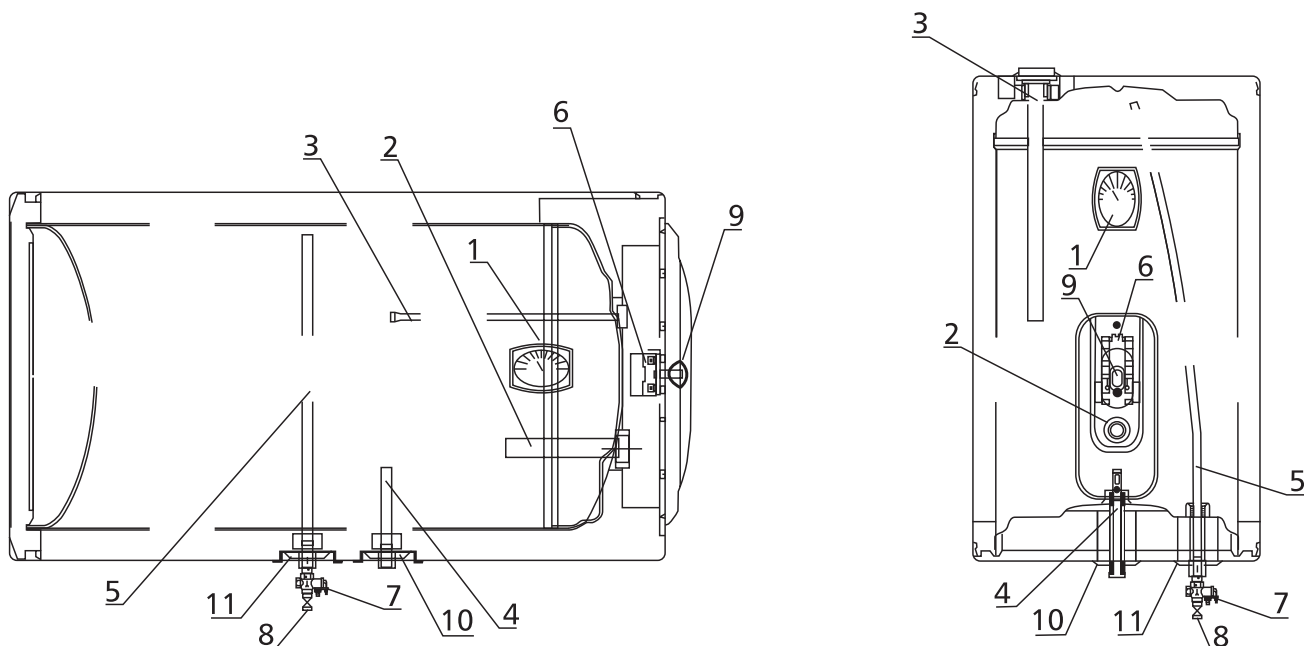
## Specifications

Type	ELJV ~ Vertical Wall Mounted				ELJH ~ Horizontal wall Mounted			
Volume (L)	35	50	70	100	35	50	70	100
Power (W)	2000	2000	3000	3000	2000	2000	3000	3000
Voltage/Frequency(V/Hz)	220/50	220/50	220/50	220/50	220/50	220/50	220/50	220/50
Maximum standing loss [kwh/24h/45°C diff.]								
Actual standing loss [kwh/24h/45°C diff.]								
Temperature range (°C)	75	75	75	75	75	75	75	75
Rated water pressure (Mpa)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Inlet/Outlet connection (Inch)	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Overall dimensions (mm)	Φ360*710	Φ360*760	Φ463*800	Φ463*995	Φ395*710	Φ395*830	Φ463*860	Φ463*1025

A O Smith reserves the right to make product changes or improvements at any time without notice.

## Part Description

Part Description			
1	Thermometer	7	Multi-function safety valve
2	Heating element	8	Stop cock (not included with water heater)
3	Anode	9	Pilot light
4	Cold water inlet pipe with diffuser	10	Blue ring
5	Hot water outlet pipe	11	Red ring
6	Control thermostat and thermal cut-out reset button		



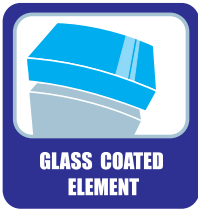
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## Key Features

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### Glass Coated Element reduces electricity bills and increases the life of the heating element

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Scale and sediment build up on the surface of standard elements leading to higher electricity bills and premature failure. An A. O. Smith Glass Coated Element helps to prevent scale formation on the element reducing your electricity bill and extending the life of the element. The 35 and 50 litre has 2kW element while the 70 and 100 litre has a 3kW element.

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### Blue Diamond Glass Lining makes the tank stronger and increases life of the water heater

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The new Blue Diamond technology with enhanced levels of zircon increases the life of the water heater. The lining is proven to be stronger and more water-resistant than any other in the industry. It is also 23% stronger than stainless steel tanks.

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### Anode Rod protects the tank from corrosion

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The tank has an anode rod system with a stainless-steel core that is designed to protect the tank from corrosive elements. The system uses a special cathodic action to fight the corrosive elements which in turn prolongs the life of the water heater.

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### Safety Valve discharges water in case pressure or temperature exceeds preset limits

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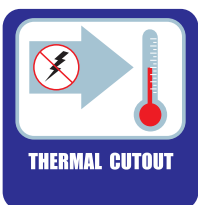


This water heater has a temperature and pressure safety valve. This valve is designed to automatically relieve and discharge water in case the pressure or temperature overshoots the preset limits.

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### Thermal Cutout cuts off phase line and neutral line, in case of fault, ensuring safety

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The breaker rapidly cuts off live line and zero line simultaneously to guarantee safety, in case the water heater happens to be faulty and water temperature exceeds the highest temperature preset in the thermostat.

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# Installation

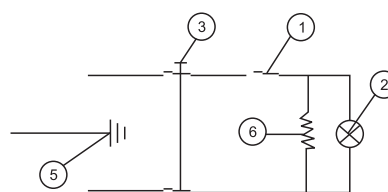
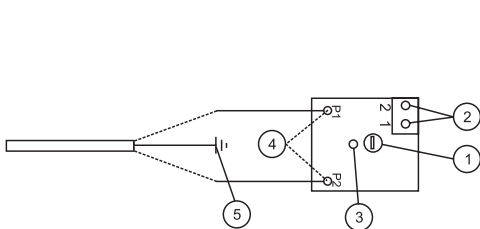
## Instructions

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- Installation of the water heater should only be done by a qualified technician.
- It is recommended to install the water heater close to the hot water faucets.
- Place the water heater in such a manner that it is accessible for maintenance and cannot cause damage in case of a leakage.
- Before connecting the water heater to the water supply pipes, let the water flow for a few minutes from the supply pipes to disengage any foreign particles that may have entered the water pipes.
- Water supply pressure should be less than 8 bar. If the water pressure is higher, install a suitable pressure reducing valve.
- Connect the safety valve/check valve to the inlet pipe (blue). Connect the cold water supply to the safety valve.
- The safety valve can drip during the heating cycle of the water heater to relieve excess water due to heat expansion. This is why the drain should always be exposed to the atmosphere and should not ever be blocked. Make sure the drain pipe is continuously facing downward and is in a frost free ambience.
- Connect the hot water pipe to the hot water outlet (red).
- Connection to the power supply shall be via a three core cable at least 1.5 mm<sup>2</sup>. One of the cores is for earth connection (see Electrical Connection diagram). If the supplied cable is damaged, please contact your supplier or A. O. Smith on the address mentioned on the last page for a replacement cable.
- Open the cold water supply line. The water heater is completely filled with water when the water flows uninterrupted from the hot water faucets.
- When the water heater is completely filled, close the hot water faucets and switch on the electric supply.

## Electrical Connections

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- 1 Thermostat setting knob
- 2 Pilot light
- 3 Thermal cut-out reset knob

- 4 Power supply connection
- 5 Ground connection
- 6 Heating element

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## Maintenance and Cleaning

Check proper functioning of the safety valve every two months by opening and closing the lever. The heating element should be checked annually for scale formation caused by impurities in the water supply. Also, the anode should be checked periodically and replaced when worn out over 60%. For cleaning the element or replacing the anode follow the procedure listed below:

- 1 Switch off the electric supply to the water heater.
- 2 Open the hot water taps until the water is not hot any more.
- 3 Close cold water supply.
- 4 Put a vessel of suitable capacity under the water heater.
- 5 Drain the water heater by turning the gripe of the safty vavle and allow the water to fall in the vessel.
- 6 To remove the scale formation, clean the container and heating unit assembly by using a suitable acid or by gently scraping of the scale.
- 7 Replace anode if required.
- 8 Turn back the gripe of the safty valve.
- 9 Open cold water supply until water flows without interruption from hot water faucets.
- 10 Close the hot water taps and check for eventual leakage.
- 11 When there is no leakage, switch on the electric supply.

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## Warranty

- 1 Shall any part or component other than the tank be proved defective in material or workmanship within two years after initial installation date, upon examination by A. O. Smith or local authorized agent, A. O. Smith will repair or supply such part or component through the local agent.
- 2 Shall the tank fail due to rust, corrosion or leakage, within seven years of initial installation; A. O. Smith will replace the tank free of cost.
- 3 The warranty only applies if:
  - a. The water heater has been installed as per these instructions.
  - b. Maintenance has been carried out as instructed.
  - c. Safety valves and anodes have been kept in right working condition.
- 4 The warranty is void if:
  - a. The tank has been damaged by external causes.
  - b. In case of misuse, neglect or incorrect use of the water heater.
  - c. In case of any unauthorized alteration, modification or repair.
- 5 The tank carries a warranty for 7 years and the heating element for 4 years [2 + 2 years]. 2 years additional warranty on heating element after registration within two months of purchase. The rest of the parts carry a warranty of 2 years.



Register your product with the A. O. Smith Customer Care Centre [1.800.103.2468] within two months of purchase. You will get an extended warranty on the element [from 2 years to 4 years].



T: 1.800.103.2468 [www.aosmithindia.com](http://www.aosmithindia.com)