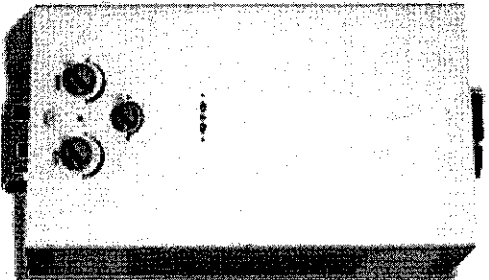


Gas Instantaneous Water Heater

Operating Instruction Manual

IMPORTANT:

Read these instructions for use carefully so as to familiarize yourself with the appliance before connecting it to its gas container. Keep these instructions for future reference.



! Caution

- Gas water heater shall be installed outside/inside bathroom with smooth ventilation
- Gas water heater shall be installed strictly under the manual instructions, personal dismantling or re-construction is prohibited
- Any other gas beyond label indication is prohibited and gas switch is to be tightly closed after using.
- Flues shall be installed to release exhaust gas

Carbon monoxide poisoning will be caused if any of the above-mentioned cautions is ignored!

Many thanks for choosing our household gas water heater, hoping it will bring you great comfort & convenience and make your life more colorful.

Please carefully read this manual and labels before you install & use this Gas water heater to ensure your safety. Many thanks!

Catalogue

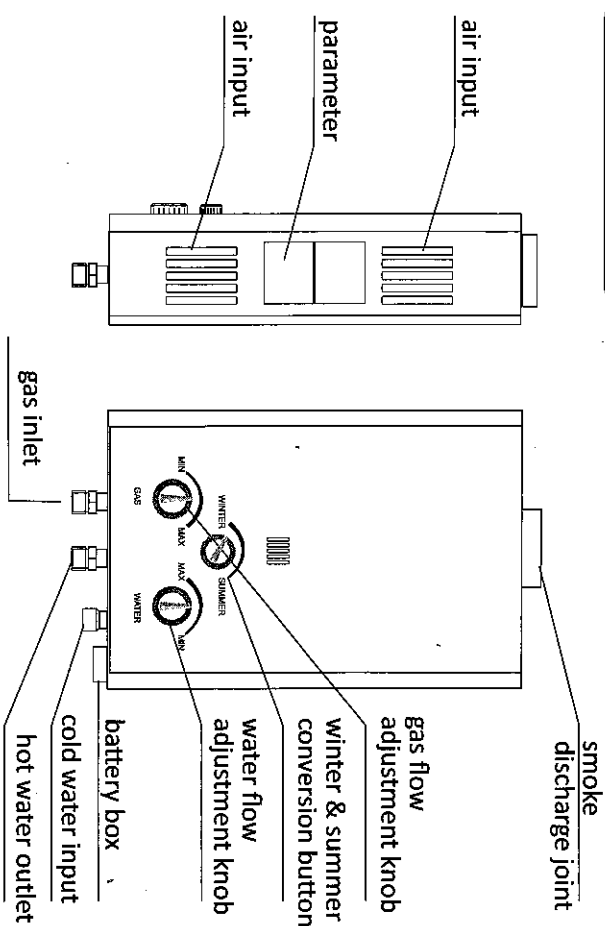
- Exterior structure, dimension drawing 2
- Technical features, parameters and model illustration 3-4
- Installation methods 4-5
- Ways of using 5
- Safety regulations 5-6
- Other notes & instructions 6
- Special warnings & notes 7
- Owner maintenance 7
- Maintenance to be performed by a qualified person 7
- General malfunctions & disposing 8
- Repair, Maintenance & clearing instructions 8
- After sales service & packaging list 9

TECHNICAL DATA

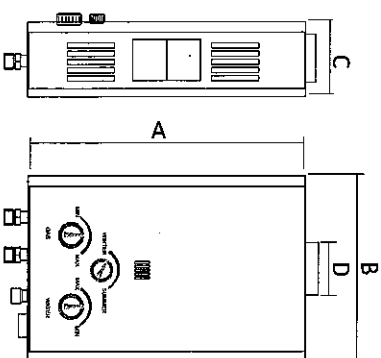
Name:
Model Number:
Type of gas:
Consumption at max:
Operating pressure:
Product type:

ELECTEC
8L | 16L
LPG Only
1.2kg/hr | 1.9kg/hr
2.8 kPa
Type b for indoor installation. Can be installed outdoors, but under protective cover.

i. Exterior Structure



ii. Exterior Dimension Drawing



Dimension	A	B	C	D
Model Specification	520	320	180	Φ 110
JSD 8				
JSD16	650	400	180	Φ 110

INSTALLATION

The installation of this appliance must be carried out by a certified gas practitioner, in accordance with sans 10087-1. Only a sans 827 approved 2.8 kpa Regulator must be used.

iii. Technical features

- High efficient energy saving: the heater exchanger and main burner adopt mostly advanced energy-saving and combustion technology to decrease gas consumption and burning noise.
- Low water-pressure startup: the water control linkage valve makes the heater start up under low water pressure and stable water flowing under high pressure to meet the requirements of those in water shortage areas and those living in high stairs.
- Manifold auto protection: for the sake of your safety.
- Ion flame inspection: to automatically shut down gas power under unexpected flame-out.
- Over water pressure protection function: to automatically decrease pressure under excessive high water pressure.
- Anti-freezing protection function: the anti-freezing apparatus can discharge the stock water to avoid damaging machine itself by freezing under cold areas or in case of long-time no use.
- Controller design: both cold water and warm water can be properly controlled.
- Magnificent thin-shaped appearance: It's designed by modern fashionable line shape.

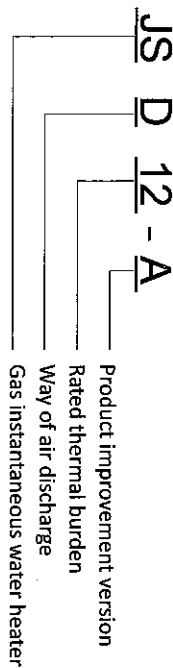
Gas Regulator (installer to note)

This appliance consumes over 2kg GAS p/h. For the appliance to operate at full design capacity, we recommend that an approved sans1237 2.8kPa Regulator with a flow rate greater than 2kg/hr be used.

iv. Technical Parameters

Product Name	Household Gas Water Heater	
Product Model	JSD8	JSD16
Heat Load	8KW	16KW
(25° warm water producing rate)	4kg/min	8kg/min
Gas Type	Liquid Petroleum Gas	
Rated Gas Pressure	2800 Pa	2800 Pa
Fire Catching Ways	1.5V Battery pulse automatic fire catching	
Discharge Ways	Flue automatic gas discharge	
Diameter of gas discharge pipeline	φ 110	φ 110
Applicable water pressure	0.025 ~ 0.5 MPa	
Gas Pipeline (internal diameter)	φ 11.5mm oil-proof rubber tube (liquid petroleum gas)	
Cold Water Pipeline	φ 12mm metal tube (natural gas, manual coal gas)	
Warm Water Pipeline	Short pipeline equipped with G1/2 steel tube Long pipeline equipped with G1/2 steel tube	

v. Models Illustration



vi. Installation Methods

The Gas water heater shall be installed outside/inside bathroom with good ventilation by specialized installation people qualified by local Gal Management Administration

Special Attention:

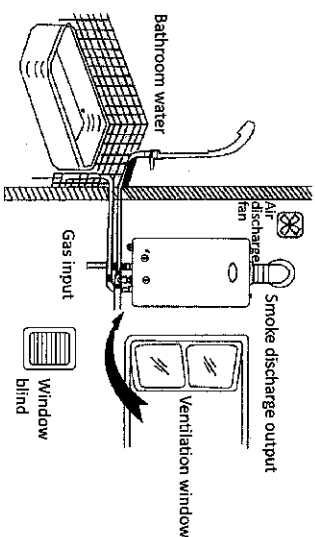
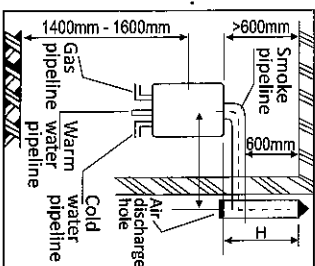
The gas-input joint, warm water output and cold water input shall be differently located due to different models, please abide by the labels.

1. Installation Location:

- Over 600mm above and 300mm at each side shall be reserved to conveniently dismantle, repair and maintain.
- The height of the fire-observing window shall be 1400-1600mm.
- It shall be located at least 500mm away from combustibles, gas-stove, electric appliances and electric wires.
- It shall be fixed to the corner of fire-proof brick walls by inflatable bolts.

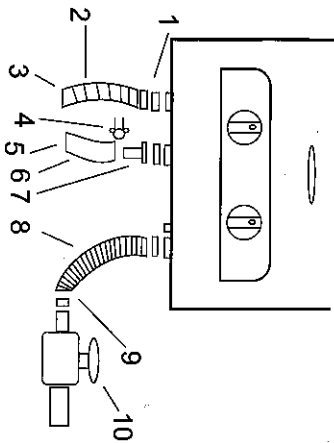
2. Pipeline joints:

- Joints shall be G1/2 bolt, the pressure-reduction valve equipped by the liquid petroleum steel bottle shall be less than 0.6m/h and the gas supply tube shall be within 2 meters and oil-proof.
- The gas input joint shall be equipped with rubber airtight underlay and the loose joint shall be tightly tied.
- The cold water input pipeline shall be cleaned by water before installation to avoid obstruction.
- The water and gas supply pipelines shall be equipped with valves to assure convenient installation and maintenance
- To execute water leakage inspection after installation to guarantee good airtight function.



2. Pipeline joints diagram:

1. Rubber underlay
2. Tube
3. Warm water output
4. Pipeline nip
5. Gas input
6. Rubber tube
7. Tube tie-in
8. Tube
9. Cold water input
10. Cold water valve

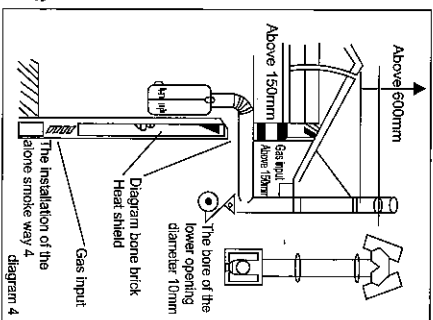


3. Flue installation

- This Gas water heater is equipped with smoke discharge output, please prepare flue and wind cap to connect it in accordance with illustration 4 to discharge smoke.
- The flue shall be made by thin and antiseptis meta metal.
- The flue output shall be equipped with wind cap to avoid smoke or water coming in.
- Appliances fitted with a integral draft shall be fitted with a secondary flue.

vii. Ways of using

- To open window and air-discharge fan to maintain a good ventilation in the Gas water heater room
- To open gas valve
- To open water supply valve and warm water output valve to observe whether the automatic fire catching is executed, if still not, please turn the temperature to the highest, shutdown water and then open, if still not, the water pressure shall be too low.
- To adjust the gas volume and water temperature buttons to obtain a more agreeable water temperature.
- It possibly can't catch fire within 10 seconds at first use, you shall re-open one of the water supply valves.
- To shut down the water supply valve after using and beware of the remaining hot water in case of burning.
- To shut down gas burning valve and water supply valve in case of no use and discharge the remaining water in water heater in cold seasons to avoid freezing which could break it.
- The batteries should be replaced when not igniting gas. Generally two 1.5 batteries should be replaced once every six months.



For owner safety

This appliance is set to operate on LPG Only!

If you smell gas:

- > Turn off the gas supply at the cylinder.
- > Extinguish all naked flames.
- > Do not operate any electrical appliance near the leak.
- > Ventilate the area by opening doors and windows.
- > Check for leaks as detailed in this manual.
- > If the odour (GAS leak) persists, contact your gas practitioner for assistance.

viii. Safety Regulations

- The Gas water heater shall be installed outside/inside bathroom with smooth ventilation and a ventilating circumstance shall be maintained when using.
- Gas water heater shall be installed strictly under the manual instructions, personal dismantling or re-construction is prohibited.
- Any other gas beyond labels marking is prohibited and gas switch is to be tightly closed after use.
- Flues shall be installed to release exhaust gas.
- To regularly examine whether it has air leakage with soap water. If any leakage, you shall not open the heater or ignite fire, but shut down the gas valve first and then open the window to discharge the exhaust.
- Incendive & explosive objects, textiles and chemical poisonous materials shall be kept far away from the Gas water heater and paper, plastic cloth and weaving cloth shall not be used to cover the heater.
- The water of the Gas water heater not drinkable.



Carbon monoxide poisoning will be caused if any of the above-mentioned cautions are ignored!

Burn back (Fire in burner tube or housing)

in the event of a burn-back (where the flame flashes back to the jet or inside the burner housing), immediately turn off the gas at the gas valve fitted to the gas pipe-line, then close the cylinder valve. Ensure that the flame is extinguished; Re-light the appliance. Should the problem persist, call in your gas practitioner or service dealer for assistance. Do not use the appliance until it is declared safe to use.

Other notes and instructions:

- > Starting: the geyser will start automatically when you open the hot water tap.
- > Shut off: the geyser will shut off automatically when you close the warm water tap or if the cold water tap closed.
- > Depending on the model and type, ignition is with 2 x 1.5v. Type d torch batteries. Insert correctly and only use good quality batteries. If ignition becomes slow, replace batteries.

Special warnings and notes:

- **Leak testing:**
Prior to using your appliance, do a leak test by checking all fittings and connections with a 50/50 water/soap solution by brushing/spraying on all joints/fittings and cylinder/regulator joints. If any bubbles form around the connections/joints, re-tighten. If the leak persists, close the cylinder valve, remove the batteries that can be source of ignition and call your gas practitioner or service agent. Do not use the geyser until your technician declared it safe to use.
- **Tampering:**
Under no circumstances may any unauthorised person tamper with this geyser, I.E. using sharp objects to enlarge jets, closing vents, removing heat and flue sensors, bridging out flue sensors, etc.
Only qualified technicians are allowed to service or repair this geyser. For anyone else, it is extremely dangerous to carry out any repairs apart from cleaning maintenance.
- Do not use this gas geyser for any other purpose other than for producing hot water. I.E. Do not use to dry clothes, thus blocking the air vents.
- Always drain the water at the bleeder valve if the geyser is not going to be used for a long time, or if temperatures drop below freezing.

Owner maintenance:

- Clean the outside cover with warm water and dishwashing liquid, using a soft cloth. Do not use abrasive cleaners or scourers.
- Clean cover vents with a soft brush.
- Check the flue for obstructions, clean and fit back properly so that no combustion can be leak into the inside. Ensure that no dirt drops to the inside of the geyser.

Maintenance to be performed by a qualified person:

- Check every 6 to 12 months for:
- Leaks on the gas connections.
- Check that the pigtail connections are safe and sound.
- Check that the cone seals are sound.
- That the water inlet sieve is free from dirt and clogging
- Check the flame quality and that no soot forms.
- Check for carbon accumulation on heat exchanger and clean carefully.
- Check for leak test by using a u-tube or electronic unit.
- Grease the core of water section to the gas section, and check for leaks on the shaft. If leaks are detected, replace tiny "o" ring.
- Check for carbon accumulation and oxidation on igniter. Clean with 3m scouring pad.

ix. General malfunction & disposing

Phenomenon of malfunction	Reason for of malfunction										Handling Methods	
	No fire catching	No fire catching with flame out under using	Yellow & black smoke	Gold water under high temperature	Low warm water under temperature	Flame out under low temperature	No flame out with water entry valve shut down	Unusual sound when burning	Open gas valve	Fully open gas valve		To contact with gas supply units
Valve shut down	●											
Half opened gas valve		●										
Gas entry Pressure	High		●									
	Low				●							
Unreasonable												
Air reserved in gas input pipeline												
Hot water valve shut down	●											
Freezing	●											
Obstruction of water way	●											
Unreasonable water temperature				●								
No electricity of battery	●											
Obstruction of heat exchanger			●									
Obstruction of burner			●									
Malfunction of water control system				●								
Air Supply Shortage				●								
Low water supply pressure	●											
Safety apparatus functions												
Gas valve shut or gas used up		●										

x. Repair, Maintenance & Clearing Instructions

- To regularly wash the filter with cold water and observe whether any deposits remain around the smoke discharge areas.
- To choose gas pressure-reduction valve with production license and quality assurance when using liquid petroleum gas.
- To check air leakage of the gas supply pipeline, breakage of tube and the reliability of the airtight regulator.
- To ask relevant people in the local repair shop or gas supply company to execute safety inspection and clear the heater to avoid malfunctions due to obstruction of burner and heat exchanger.
- To slightly slip off the carbon agglomeration of the electrode with hands.
- To ask specialised maintenance man if any malfunction occurs. *(After sales service)*
- If any malfunction occurs, please do inspection following the steps under the "Malfunction & disposing methods". If still not effective, please resort to our designated maintenance.
- We are willing to serve you heart and soul! Once again thanks for your choosing our Gas water heater. Any alteration of the regular modes will not be informed according to the continuous improvement tenet.

Packing List

Gas water heater main body one piece Shower Machine one set
Maintenance card one piece Instruction Leaflet one piece

WARRANTY

The product is guaranteed for one year against any kind of manufacturing defect.

This warranty is valid only when:

1. The product has not been opened or tampered with by any unauthorized person.
2. The photocopies of the Warranty Card and Receipt number received by the customer at the time of purchase of the product, are to be presented with the complaint.
3. The product has been installed, used and maintained in accordance with the instruction manual.
4. The defective unit is brought to and taken from the service center at the customers cost and risk.

This warranty does not apply for.....

1. Damage resulting from accident, mishandling or negligence on part of customer.
2. Breakages or damages of components / parts made out of ABS plastic materials, rubber parts and cord.
3. Damage due to chipping, peeling, plating and denting.
4. Normal wear and tear of parts. Heating element getting damaged due to bad / hard water being supplied at the inlet point of the water heater products.

Product Details : _____

Serial #: _____

Cash Receipt / Invoice #: _____

Owner's Name & Address: _____

Dealers Name & Address: _____
