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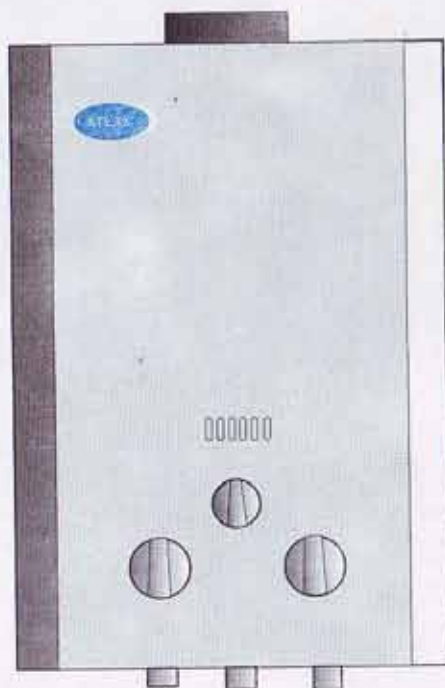
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**HOUSEHOLD INSTANT GAS WATER HEATER**  
(Flue Exhaust Type)



**INSTRUCTION MANUAL**



**CERTIFIED TO ISO9001  
INDOOR & OUTDOOR USE**

**PLEASE READ THE MANUAL CAREFULLY  
PRIOR TO USE AND INSTALLATION**

## (1) TECHNICAL DATA

NAME	ATLAS	6LITRE	8LITRE	10LITRE	12LITRE	16LITRE	20LITRE
MODEL NO		JSD12-SH1	JSD16-MP1	JSD20-MP1	JSD24-MP1	JSD32-MP1	JSD40-MP1
TYPE OF GAS		LPG	LPG	LPG	LPG	LPG	LPG
CONSUMPTION AT MAX		1.13 kg/hr	1.50 kg/hr	1.88 kg/hr	2.25 kg/hr	3.0 kg/hr	3.75 kg/hr
OPERATING PRESSURE		2.8KPa	2.8KPa	2.8KPa	2.8KPa	2.8KPa	2.8KPa
PRODUCT TYPE	CLASS 'B' FOR INDOOR INSTALLATION. CAN BE INSTALLED OUTDOORS BUT MUST BE FLUED (BOLT)						

ONLY A SANS 1237 APPROVED 2,8 kPa REGULATOR MUST BE USED.

### INSTALLATION:

THIS APPLIANCE MUST BE INSTALLED IN ACCORDANCE WITH I.A.W. AND SANS 10087 PART 1. IT MUST ONLY BE INSTALLED BY A CERTIFIED LPGSA INSTALLER.

### 2) FOR YOUR SAFETY

THIS APPLIANCE IS SET TO OPERATE ON LPG ONLY  
IF YOU SMELL GAS:

- Turn off the gas supply at the bottle
- Extinguish all naked flames
- Do not operate any electrical appliances
- Ventilate the area
- Check for leaks as detailed in this manual

IF THE ODOUR PERSISTS, CONTACT YOUR LOCAL DEALER OR GAS SUPPLIER IMMEDIATELY

### BURN-BACK (FIRE IN BURNER TUBE OR CHAMBER)

In the event of a burn-back (where the flame burns back to jet) immediately turn off the gas supply at the control valve on the panel. After ensuring that the flame is extinguished, re-light the appliance in the normal manner. Should the appliance burn back again, close the control valve and call a service technician. Do not use the appliance again until the service technician has declared that it is safe to do so.

### GAS PRESSURE REGULATOR

This appliance requires an operating pressure of 2,8 kPa at the appliance. A suitable LPG regulator that complies with the requirements of SANS 1237 must be installed.

### IMPORTANT INFORMATION FOR THE USER

This appliance may only be installed by a registered and certified LP gas installer. All registered installers are issued with a card showing their registration number. Ask to be shown the card before allowing the installation work to commence and make a note of the Installer QCC number. Upon completion of the installation, the installer is required to explain the operation details of the appliance, together with the safety instructions. You will be asked to sign acceptance of the installation and be provided with a completion certificate. You should only sign for acceptance of the installation when the installation is completed to your satisfaction. Note that your invoice is required in the event that you wish to make a guarantee claim.

### IMPORTANT INFORMATION FOR THE INSTALLER

This appliance may only be installed by an LP gas installer, registered with the Liquified Petroleum Gas Association of Southern Africa. The appliance must be installed in accordance with the requirements of SANS 10087-1 and any fire department regulation and /or local by laws applicable to the area. If in doubt, check with the relevant authority before undertaking the installation. Upon completion of the installation, you are required to fully explain and demonstrate to the user the operational details and safety practices applicable to the appliance and the installation.



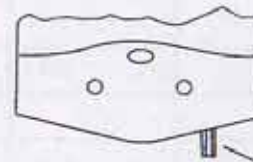
Check fittings and connections regularly with a 50/50% soap water solution for gas leaks.

Spray or brush the soapy water solution on all joints. If any bubbles form around the connection, tighten the joints. If the leak persists, stop using the geyser, close the cylinder valve at the cylinder, remove the batteries that can be a possible ignition source and contact your installer or local qualified gas dealer.



Do not use your gas geyser for any other purpose except for producing hot water, i.e do not use for drying clothes, thus blocking the air vents.

Always drain the water at the water exhaust if the geyser was not in use for some time, or if the temperatures drop below 0 C



Water exhaust

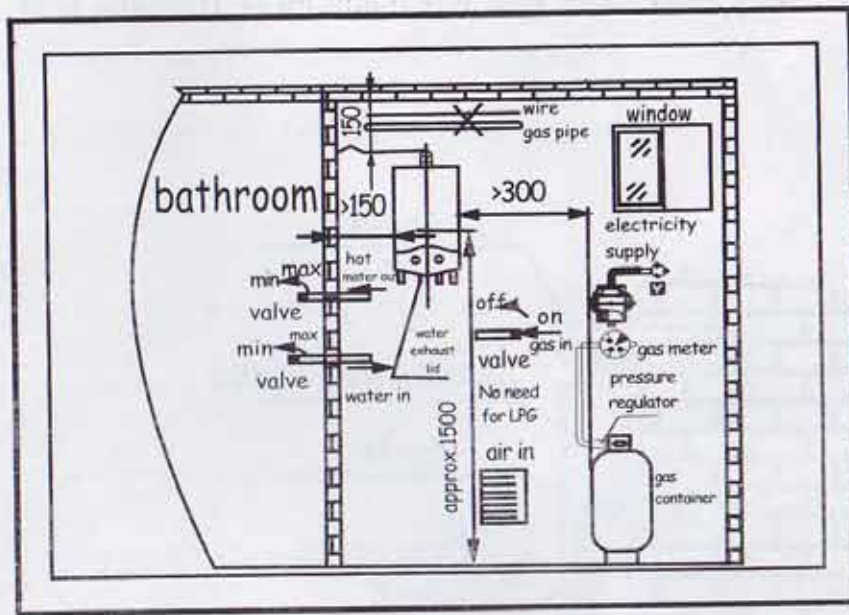
### TAMPERING.

In no circumstances may an unauthorized person tamper with this unit. Only authorised , LPGSA certified persons may carry out any repairs on your geyser. For anyone else to do so is not only extremely dangerous, but it is against the law!! (See \*D.O.L., P.E.R. and SANS 347)

(\* Dept of Labour, Pressure Equipment Regulations, South African National Standard)



## THE CORRECT POSITION IN THE INSTALLATION ROOM



### Notes:

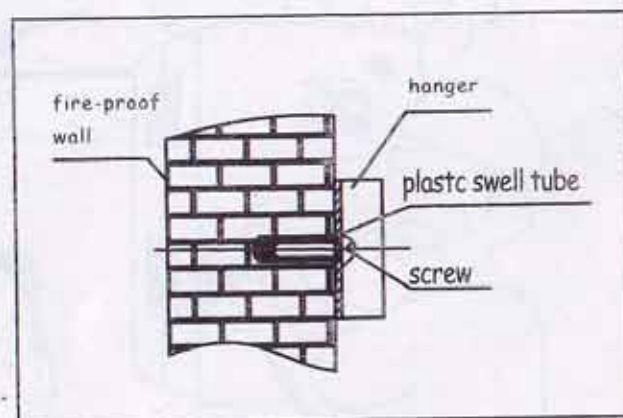
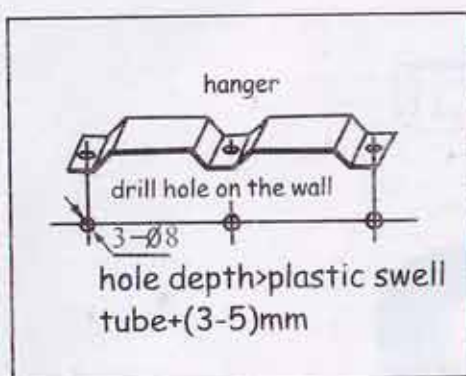
The position of the water inlet, water outlet and the gas connection, must correspond to the marks on the heater body.

Check after installation that there is no gas leakage. (see page 2.)

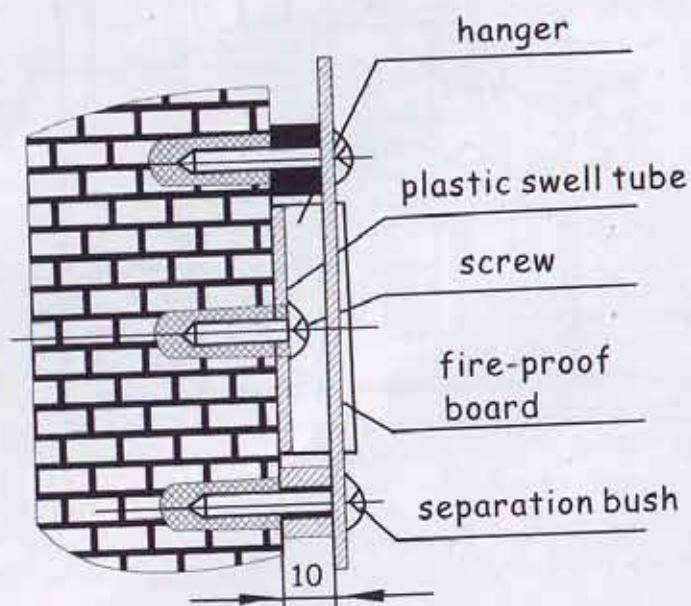
Also make sure that there is no water leakage.

Flexible Rubber or PVC hose must not be longer than 2 meter. The hose shall not be fed direct through a wall or a cupboard. Neither shall be behind or above the geyser body.

The installation of the hanger should be in a horizontal position.



In case of non fire-proof wall, please underlay a fire-proof board, 100mm bigger than the water heater from every side and 10mm away from the wall.

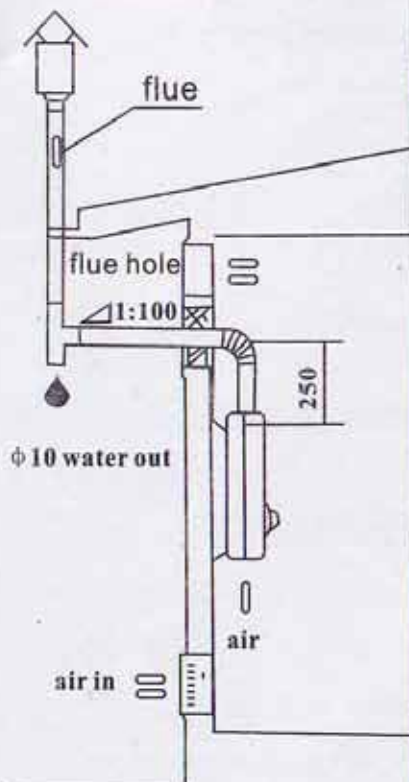


### HANG UP THE WATER HEATER

Hang up the water heater onto the hanger vertically

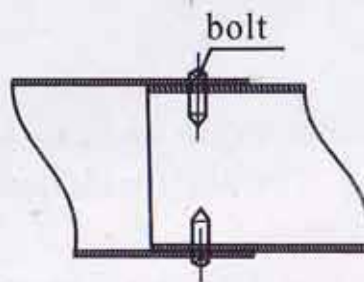


## ● INSTALLATION OF FLUE



The water heater must have the flue. flue installation should be as follows:

- A. The height of the flue should be properly sealed to ensure complete exhaust of the fumes to the outside.
- B. The horizontal part of the flue should be less than 3m, and the vent should be inclined down a little so that the condensed water or rain could not flow backwards.
- C. Elbow of the flue should be 90° and not more than 3pcs.
- D. The inner part of the flue above the wind backwards preventing cover should be more than 250mm.
- E. The top of the flue must have a top cover to deflect the wind and prevent rain, snow and other debris entering the flue, blocking the geyser inside passage way.
- F. Do not install the flue where it is exposed in extreme draught or windy areas.
- G. Make sure that there is no air/fume leakage at the flue joints. Use self tapping screws or pop rivets secure the sections.
- H. If the outside upright flue is 2 metres then the horizontal distance should be no more than 50% of that distance, i.e. if the flue is 2 metres, then the horizontal at the bend SHALL not be over 1 metre)



## ● HOW TO SET UP THE AIR VENT

- A. The air vent should be as near to the floor as possible, but below the halfway distance of the total distance to the ceiling.
- B. The exhaust flue should be to the outside of the room and properly sealed to prevent exhaust fumes entering to the inside.
- C. The bend to the outside shall not be less than 250mm from the centre of the flue to the geyser connection.

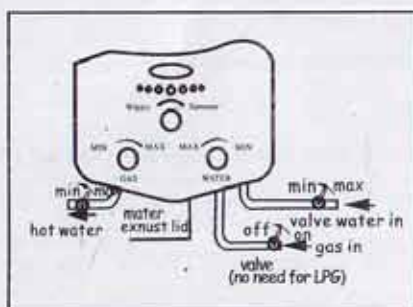
D. The air entry and vent area requirements. (See table below.)

THERMAL BURDEN (KW)	MIN. AREA OF THE AIR-IN HOLE AND VENT HOLE(CM <sup>2</sup> )
≤12	100
12~16	130
16~20	160
20~26	200

● **Installation of valves:**

Valves must be installed on:

1. The gas feed pipe after the regulator as close as possible to the gas connection at the geyser.
2. It is also recommended to install valves on the cold and hot water pipelines as close to the geyser connections.



■ **PREPARATION.**

The geyser ignition function is powered by two large 1.5V.DC (Type D) torch batteries. Please insert the correct way as indicated on the battery housing.

● **IGNITION.**

Open the gas at the cylinder valve and the gas valve after the regulator. Open the warm water tap. The electronic igniters will light up the main burners after 6 to 10 seconds.

First time ignition after installation, or in changing the cylinder, might take a bit longer as there will be air inside the gas pipe. Repeat if ignition is not obtained within the first 10 seconds. **REMEMBER THAT THE INSTALLER MUST BY LAW COMMISSION YOUR NEWLY INSTALLED WATER GEYSER IN YOUR-OR YOUR REPRESENTATIVE-PRESENCE BEFORE SIGNING OFF THE INSTALLATION.**

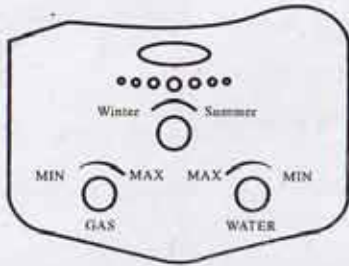
● **PRECAUTIONS.**

As a precaution, if you are away from home and the geyser will not be in use for a time, **CLOSE THE CYLINDER VALVE.**

Always close the cylinder valve first before changing the empty cylinder with a full cylinder.



For higher temperature, turn more gas and less water



For lower temperature, turn less gas and more water



## ● TEMPERATURE CONTROL

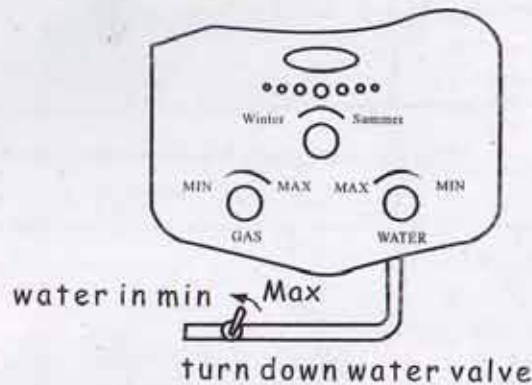
To adjust:

Use the clearly marked controls on the Geyser.

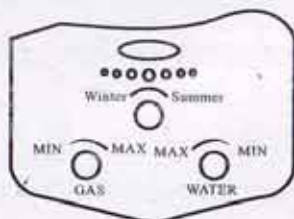
You can adjust the flame from low to high as well as the required water flow.

If the water flow is too high, close the valve at the cold water inlet slightly.

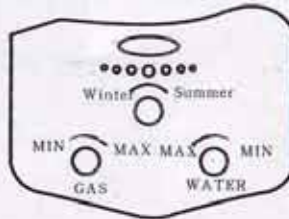
For saving gas and energy, there is a Summer/Winter setting as well. This setting will give the required water temperature without opening the cold water.



winter knob points to winter



summer knob points to summer



● **SHUT-OFF**

The geyser will shut-off automatically when you close the warm water tap. It will also shut-off if you close the cold water inlet tap to the geyser, or if you close the cylinder valve.

This geyser must not be used for anything other than for the heating of water.

NOTE: the heater should not be used continuously for periods longer than 20 minutes at a time.

● **TROUBLE-SHOOTING**

PROTECTIVE FUNCTION	REACTION	REMARKS
Water pressure too high	If water pressure is over 0.8Mpa, the water-out valve will release water and lower the pressure	Increase the valve pressure limit according to local water supply pressure
20-minute automatically shut off	After 20 minutes' using, water heater will shut off automatically	Restart the water heater
Water pressure too low	If water pressure is below 0.025Mpa the water heater cannot be ignited	Use the water heater later when pressure becomes higher
Low battery	The power of battery will become less after use for some time, thus the water heater cannot be ignited.	Change battery
Over heat protection	Water heater automatically shuts off when water temperature is above 77C	Re-start water heater later when water becomes cooler

■ **Repair and Maintenance**

● Water heater shall be checked by professional personnel for every 6-12 months, contents for check are:

1. Sealing of fuel gas route system, sealing of water route system,
2. Clean filtration net on water admitting orifice to avoid blockage,
3. Functions of all operation parts,

4. Flame of combustion,
5. Carbon accumulation of heat exchanger,
6. Air admitting and release system in room where water heater is installed.
7. Gas decompressor

● Items checked and maintained by professional personnel:

1. The flexibility of water and gas linkage,
2. Clean carbon accumulation on buckling piece of heat exchanger,
3. Grease gas valve and its core,
4. Carbon accumulation and oxidation coat on ignition and induction needles.

● Maintenance of water heater by user

1. Get rid of accumulated dirt and dust on shell of water heater by cloth constantly. Do not use chemical or volatile scour that may change shell's color.
2. Clean accumulated dusts and carbon inside vent-pipe and heat exchanger periodically to ensure the smooth passage of smoke.

Note: Removing vent-pipe, clean it and rid up heat exchanger with brush. During the course, do not drop dirt and dusts into fire hole of burner and parts of electric appliance and do not loosen or damage other parts as well. to re-fix the vent-pipe after cleaning, notice to keep tight sealing of joints.

## ■ Maintenance and repair guide to common malfunctions

Cause \ Malfunction		A	B	C	D	E	F	G	H	I	J	Solutions		
Improper Operation	Overall fuel gas valve is unopened	●										Open overall valve of gas supply		
	Water supply valve is unopened	●										Open valve of water supply		
	Improper regulation method of water temperature				●								Enlarge gas volume, reduce water volume	
						●							Reduce gas volume, enlarge water supply	
	Improper position of water switch	●										Turn water knob to hot water point		
Surroundings	Air exiting inside fuel gas pipe		●	●								Repeat opening and closing hot water valve for several times		
	Inadequate fresh air supply				●							Improve ventilation and ensure air supply		
	Fuel gas pressure	Too high	●	●			●		●				Regulate pressure relief valve, reduce overall gas supply	
		Too low			●	●				●			Check if gas rubber pipe twists or not	
	Water pressure	Too high				●							Reduce water supply	
		Too low	●		●		●			●	●		Utilize when water pressure recovers to normal	
	Inadequate supply of fuel gas	Gas valve is half opened					●						Open gas valve completely	
		Too long pipe					●						Shorten rubber pipe	
		Too small through diameter of joints					●						Displace joints if rubber pipe	
		Improper choice of specification of pressure relief valve						●						Water heater with a content of over 8 liters shall adopt a pressure relief valve(LPG) of 1.2m <sup>3</sup> /h
		Simultaneous consumption of fuel gas by several users						●						Stop other users' using fuel gas
	Blockage of water route		●					●					Clean filtration net on water admitting orifice	
	Blockage of shower		●					●					Clean shower device	
	Blockage of vent pipe								●				Clean flue pipe	
	Inadequate battery voltage		●	●	●								replace batteries	
	Too low water temperature						●						Reduce water volume	
Safety protection	Exorbitant air pressure protective device		●			●						Utilize when air pressure recovers to normal		
	Electrical leakage protective device works		●			●						Ask for professional personnel to repair it		
	Heat protective switch works					●								
	20-minute timing protective device works					●						Reopen hot water valve		
Other causes											●	Ask for professional personnel to repair it		

A. Ignition failure    B. Blasting combustion    C. Flameout during operation    D. Too low temperature    E. Too high temperature    F. Sparks from fire peep hole  
 G. Removed flame and renegade fire    H. Returned fire    I. Flameout at point of large water volume    J. Other malfunctions