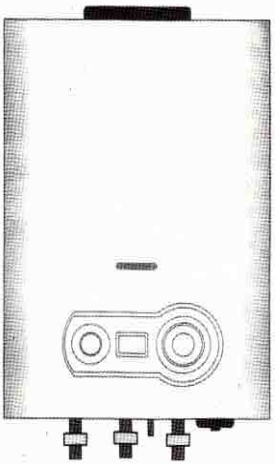
ATLAS™

WATER GEYSER INSTRUCTION MANUAL.



MODEL.: 24-EC

WARNING
TO BE INSTALLED BY APPROVED LPG GAS INSTALLER ONLY

Additional notes for south africa for compliance to sans.1539-2012.

Please read this instruction manual carefully and make sure that you understand the operation of this appliance prior to attempting to use it.
Please retain these instructions for future reference.

This appliance may only be installed by a qualified gas practitioner, with a valid saqcc certification number and identification card.
The gas practitioner, by law, must commission this appliance for you or your representative, and must clearly explain every aspect of using this appliance and the installation, before you sign the certificate of compliance.
This c.o.c. (certificate of compliance) must be presented to your insurance company. Keep a copy in a safe place as this is your warranty. You will need to produce this certificate for any warranty claims. If you are unable to produce your c.o.c., your warranty will be null and void.

1.Technical data .

Name:	ATLAS.
Model number:	6L 8L 10L 12L 16L 20L
Type of gas:	LPG. Only.
Consumption at max:	0.94kg/hr 1.2kg/hr 1.57kg/hr 1.89kg/hr 2.52kg/hr 3.15kg/hr
Operating pressure:	2.8.kPa.
Permit number:	T.B.A.
Product type:	Type b for indoor installation. Can be installed outdoors, butunder protective cover.

INSTALLATION

The installation of this appliance must be carried out by a certified gas practitioner, in accordance to sans10087-1. Only a sans1237 approved 2.8kpa. Regulator must be used.

2. 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.

3. 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, and 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 the appliance is declared safe to use.

4. Gas regulator. (installer to note.)

This appliance consumes over 2kg GAS p/hr. 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.

5. Important information for the user:

This appliance may only be installed by a registered and certified LPG. Gas practitioner. All registered installers are issued with an identification card. Ask to be shown the card before allowing the installation work to commence. Check that the card is still valid.

Upon completion of the installation, the installer is required to explain the operation details, as well as all the safety instructions.

You will be asked to sign acceptance of the installation and you will be provided with a certificate of compliance. You should only sign for acceptance of the installation when the installation is correct and completed to your satisfaction. Keep this c.o.c. In a safe place as you will need this for any warranty claims, as well as for your insurance. When properties change ownership, this c.o.c. Will be required by the registration authorities.

6. Important information for the installer:

You must be in possession of a valid qqc. Lpgsa identification card and registration number.

The appliance must be installed in accordance to sans 10087-1 and any fire department regulations and/or local by laws applicable to the area. The appliance must be tested in accordance to sans 159-2012, and have a valid lpgsa permit number. The 2012 version of sans 1539 requires that the permit number be written on the instruction manual!

AN EXPIRED PERMIT IS NOT A VALID PERMIT!

If in doubt, check with the relevant authorities before
Undertaking the installation.

Upon completion you will be required to fully explain and demonstrate to the owner/ user the operational details and safety practices applicable to the appliance and the installation.

See sans10087-1. (8.2.) instructions to users.

6. (a) The proper installation of the appliance:

Gas inlet:

We do not recommend that you use of any type of 8mm. Gas hose for the gas connection at the gas inlet. The correct way to connect the gas section is to use the same diameter connecter and pipe as the gas inlet at the water geyser. (1/2')

Use two wrenches!! The gas inlet will break if not held with one wrench at the appliance inlet and the other on the recommended swivel connector.

6. (b) Cold water inlet:

- Use two wrenches.
- Fit a "full-bore" water valve just below the geyser.
- Do not use "toilet- type" flex connectors as these restrict the water flow.
- Use only the same dimension connecters as those on the geyser.
- An inline filter is recommended if water supply is from a storage tank.
- Before connecting the cold water, flush the cold water inlet properly. If this is not done the geyser water inlet will block!

6. (c) Hot water outlet:

- Do not use "toilet-type" flex connectors, the flow will be restricted.
- Do not step up the pipe dimension to a larger diameter pipe size. Maintain the pipe sizes similar to those of the geyser for a balanced water system.
- It is always practical - for maintenance purposes - to install a water tap just below the hot water outlet if installedoutside.

6. (d) Selecting the installation position:

For inside installation, do not install in confined areas where there is no - or insufficient - ventilation. Please refer to sans 10087-1. 6.3. And annex E. E.2 to E.3.3. For venting requirements. Also pay attention to 7.6. Provision for flues in sans 10087-1 after 7.6.4. Take the warning as a serious reminder!

The geyser should be placed conveniently close to the bath, shower or sink/basin that it serves, to minimise the loss of heat and the run of hot water piping should be kept as short as possible. See sans 10087-1 (6. General-6.2.11.)

If installed inside, the geyser must be flued to the outside.

See sans1539-2012. Annex. E. Also see sans10087-1. (7.6. Provision for flues.)

If fitted outside, a flue must also be fitted as the geyser will shut down within 4 minutes if no flue is fitted. See sans 1539-2012 for type b. Indoor geysers.

6. (e) Mixing water taps:

Please note that some makes of mixing taps can be problematicfor forced exhaust water geysers, especially where there are different levels of hot water outlets (like double storey build-ings)

7. 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 become slow, replace batteries.

8. 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.

9.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.

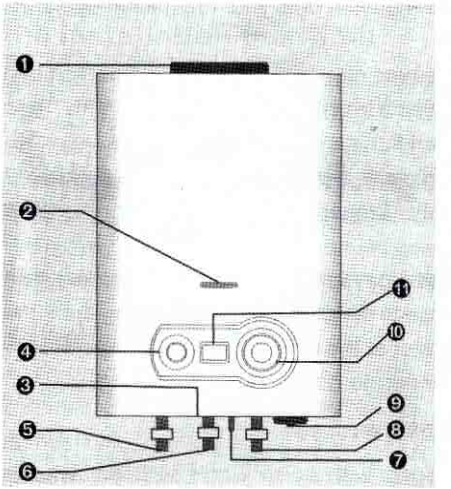
10.Maintenance to be performed by a qualified person:

- 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 leaks of combustion on flue.
- Perform a 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 igniters. Clean with 3m scouring pad.

ANNEX A.

Features and functional part description.

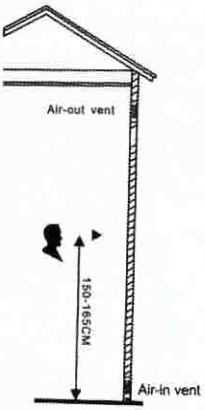


1.Flue pipe joint
2.Flame observation window
3.Battery indicator
4.Flame adjustment knob
5.Gas inlet
6.Water outlet
7.Water discharge valve
8.Water inlet
9.Battery box
10.Water adjustment knob
11. White LED display

ANNEX B.

Installation.

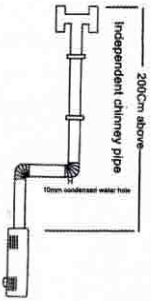
➢ How to hang up the water heater.



A SPIRIT LEVEL.

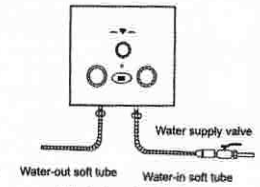
Annex c.

➢ Installation of flue.



ANNEX D.

➢ Correct water and gas connections.



cold、hot water joint

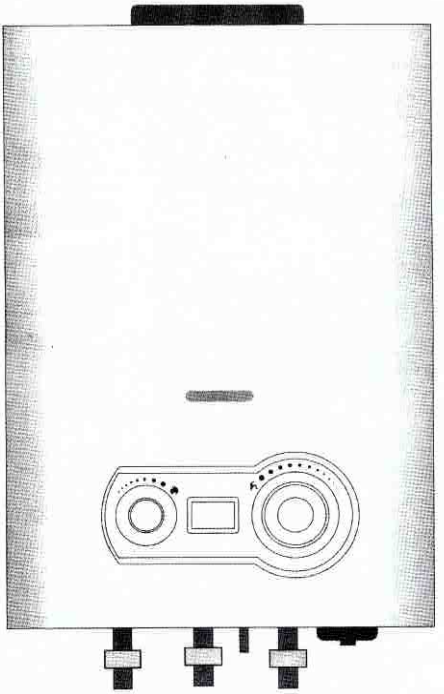


Gas joint

ANNEX E.

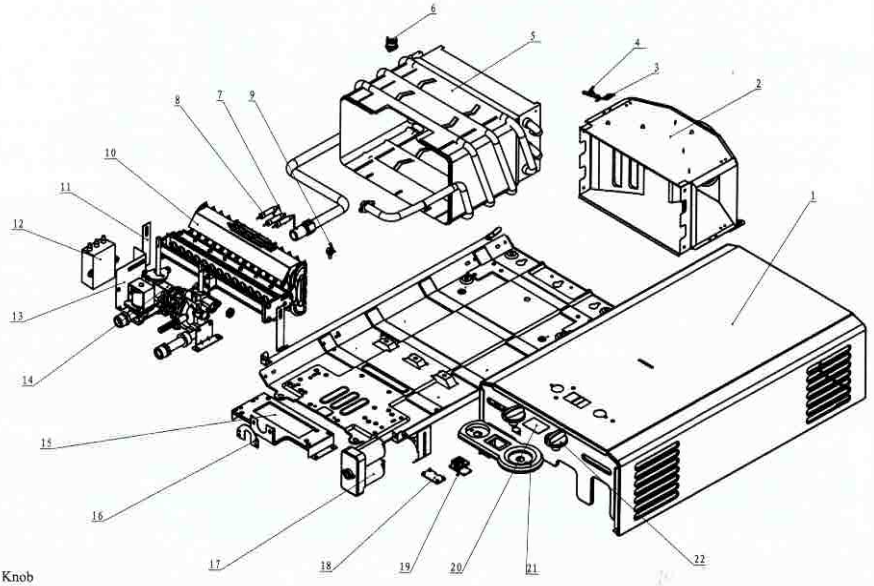
Water geyser control settings

- The left control knob is the gas minimum and maximum settings. Turn anti clockwise for low flame (heat) and clockwise for high flame.(heat).
- The right control knob is the water flow setting. Turn anti clockwise for high flow (lower water heat) and clockwise for low water flow (higher water heat)
- Use both knobs in tandem to set your wanted water temperature.



ANNEX F.

➢ Identification of parts.



22 Knob
21 Decoration plastic panel
20 Paster above the decoration plastic panel
19 Display
18 Display panel
17 Battery box
16 Water outlet connector support
15 Suppor of gas&water valve
14 Gas&water valve
13 Support of control unit
12 Control unit
11 Support of burner
10 Burner
9 Outlet water temperature sensor
8 Ignition pin
7 Sensor pin
6 Temperature controller
5 Heat exchanger
4 Flue sensor
3 Flue sensor clamp
2 Chimney
1 Top panel

ANNEX G.

➢ Maintenance and repair guide to common malfunctions.

Symptom	reason	Methods
Start Water valve no Fire	1.Havent turned on the general gas valve Or gas tank is empty 2.Some air in the gas tube 3.Inside water frozen 4.Low water pressure 5. Safety device started 6. Wrong battery direction or low battery 7.there is something wrong with the water heater.	1.turn on the general gas valve or change gas tank 2.Continuously turn on the water valve until there is fire (Attention turn off the water valve then turn on again in five seconds.) 3.Wait until the ice melted 4.Switch water knob to "high", if no fire, try to raise water pressure and ask professional persons to help 5.Please refer to : How to deal with safety-protection. 6.Fix or change the battery. 7.Ask the professional persons for help.
Flame out when using	1.The general gas valve is not turned on thoroughly or gas tank is empty. 2.The gas pressure is too low 3.sate-installation is effective 4.Heat exchanger is blocked up. 5.theres something wrong with the water healer	1.Turn on the general gas valve Thoroughly or change gas tank. 2.raise the general gas valve(better ask professional persons for help) 3.Please refer to: How to deal with safety-protection 4.Ask profession person for help. 5.Ask professional person for help.
Fire on suddenly	1.The general gas valve isn't turned on thoroughly 2.Gas pressure is to low	1.Turn on the general gas valve thoroughly. 2.Raise gas pressure and replace the gas pressure valve
Adjusting to "high" place but temperature is not high	1. The general gas valve isn't turned on thoroughly 2. Gas pressure is too low 3. Something wrong with water adjustment valve	1. Turn on the general gas valve thoroughly 2. Raise gas pressure and replace the gas pressure valve 3.Ask professional person for help
Adjusting "Low" Its too hot	1.Gas pressure is too high 2.something wrong with water adjustment valve	1.Reduce gas pressure or place the gas pressure valve. 2.Ask the professional person for help.
Fire goes out in "low" Place	Low water pressure	Try to raise the water pressure
Turn off the water valve but fire is still on	something wrong with water adjustment valve	Ask professional person for help
Flame is unusual and have a smell	1.Burner is blocked up 2.Heat exchanger is blocked up	Ask professional person for help
Unusual sound when burning	1.Water pressure is too high 2.Burner is blocked up	Ask professional person for help

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