KWIKOT

GASMATE

Forced Draft Instantaneous Gas Water Heater

20 LITRE
INSTRUCTION, INSTALLATION & WARRANTY MANUAL

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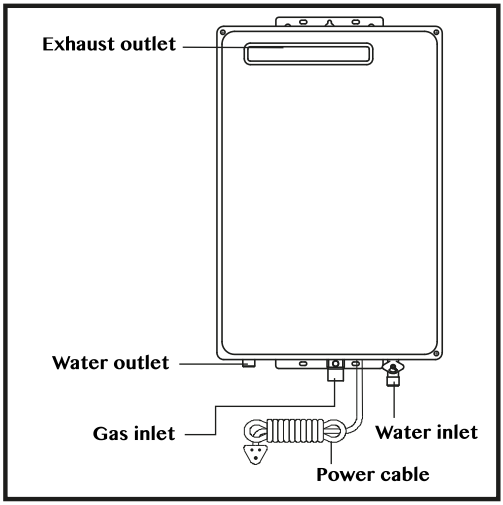
1. PRODUCT APPLICATION

The Kwikot Gasmate 20 litre Forced Draft Instantaneous Gas Water Heater, is suitable for the usage of large volumes of hot water for bathing and showering. The unit is for **outdoor use/installation only** and operates only on **LPG Gas**.

2. PRODUCT SPECIFICATIONS AND TECHNICAL DATA

- Compact and aesthetically appealing, this gas water heater saves on space when installed outdoors.
- Easy to operate as the water heater incorporates a micro-computer which controls the electronic proportional valve, step-less speed changing DC fan and a high loading burning device, resulting in the unit generating hot water automatically when the power switch is ON and the tap is open.
- With the built-in micro-computer, the water heater automatically attempts to generate water at the pre-set temperature of 55˚C. In computing the volume of gas and air to heat up the water flowing into the water heater, it takes into consideration the water pressure and the pre-set temperature of the water flowing out of the water heater.
- With the sensitive ultra-low water pressure starting device, the water heater can operate even at low water pressure.



TECHNICAL DATA TABLE

MODEL	20ℓ
Type of Gas	Liquid Petroleum Gas (LPG)
Rated Gas Pressure	0,8kPa to 2kPa
Input Power Rating	40kW
Output Power Rating (thermal load)	60kW
Hot Water Output Capacity	20 lts/min (temperature rise: 25°C)
Installation Location	Outdoor Only
Heat Efficiency	>88%
Ignition Mode	Hydraulic Type Electric Pulse Ignition
Lowest Starting Water Pressure	10kPa
Maximum Working Pressure	800 kPa
Preset Hot Water Temperature	55°C
Control Mode:	
Hot Water Temperature Control Mode	Electronic Proportional Valve+Electronic Fire Section
Delay Ignition Mode	Soft-Start Mode
Pipe Connection Mode:	
Water Inlet and Outlet Pipe	G1/2"
Gas Inlet	G3/4"
Electrical:	
Voltage Frequency of Power Supply	AC220V / 50Hz
Rated Power	45W
Fan	DC Motor
Power Supply Cord Length	1.5m
Outer Dimensions (mm)	559 x 378 x 145
Weight	16kgs

3. INSTALLATION INSTRUCTIONS

Important Information for the Installer:

This appliance may only be installed by a gas installer registered with the South African Qualifications and Certification Committee **(SAQCC)**. (Refer to a sample of the **COC** certificate on page 9). The appliance must be installed in accordance with the requirements of **SANS 10087-1** for use with LPG and any fire department regulations and/or local bylaws applicable to the area. If in doubt, check with the relevant authority before undertaking the installation. Upon completion of the installation, the installer is required to fully explain and demonstrate to the user, the operational details and safety practices applicable to the appliance and the installation.

a. Place of Installation

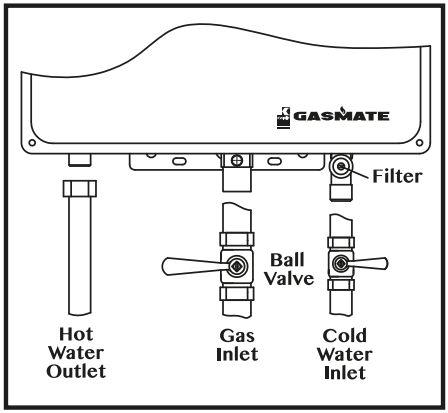
The water heater must only be installed outdoors and onto a wall out of reach of pets and children.

b. Wall Mounting

The water heater is supplied with Ø6mm expansion bolts and screws. There must be an air space clearance around the exhaust outlet. There must be a clearance of at least 600mm in front of the water heater, 300mm above, and 180mm on either side. There must be no opening window or door near the water heater.

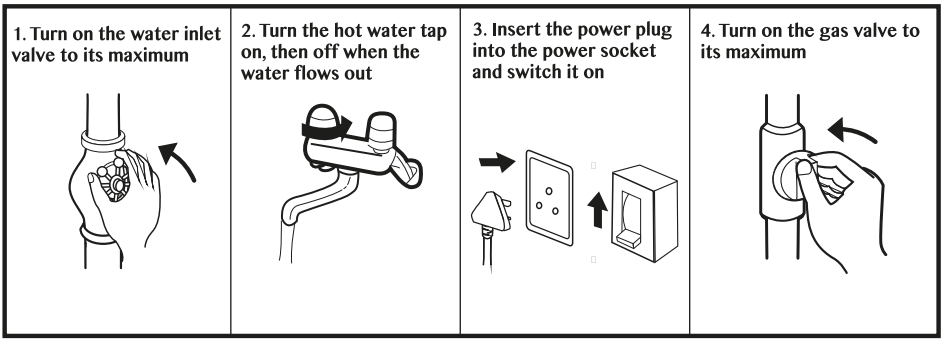
c. Pipe Connection

- The gas shut-off valve should be installed between the gas pipe system and the water heater.
- For the necessity of maintenance and repair, the water ball valve should be installed between the cold water pipe system and the water heater.



4. PROCEDURE BEFORE USING THE WATER HEATER

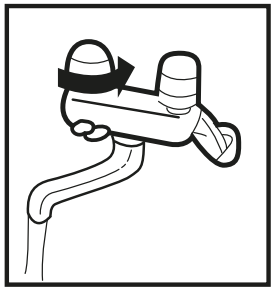
Follow the below diagram instructions carefully when using the water heater for the first time:



5. OPERATING PROCEDURE

Turning On the Water Heater

When the hot water tap is turned open, the burner will automatically ignite, resulting in hot water being generated. When turning ON the water heater for the first time, it may be necessary to open and close the hot water tap a few times to ignite the water heater due to air in the gas pipes, which needs to escape first. If the hot water tap is not open completely, the water heater may either not ignite or there will be a flame-out.



6. SAFETY INSTRUCTIONS AND PROCEDURES

Read the instructions carefully so as to familiarize yourself with the appliance before it is connected to the gas source (container/cylinder). Keep these instructions for future reference.

Important Information for the User:

This appliance may only be installed by a registered SAQCC gas installer. All registered installers are issued with a card carrying their registration number. Ask to be shown the card before allowing the installation work to commence and make a note of the installer registration number for future reference. Upon completion of the installation, the installer is required to explain the operational details of the appliance together with the safety instructions. (Refer to a sample of the **COC** certificate on page 9).

You will be asked to sign an acceptance of the installation and be provided with a completion certificate for safekeeping. You should only sign for acceptance of the installation when the installation is completed to your satisfaction. Maintain the invoice from the installer in the event you may have to make a warranty claim against the installation. (Refer to a sample of the **COC** certificate on page 9).

NB. This unit operates on Liquid Petroleum Gas (LPG) Only

If you smell gas:
- Turn off the gas supply at the container/cylinder.
- Extinguish all naked flames.
- Do not operate any electrical appliances.
- Ventilate the area.
- Check for leaks.
- If the gas smell persists, contact a gas service technician.

Burn-back (Fire in the burner tube or chamber):
In the event of a burn-back where the flame burns back to the jet, immediately turn off the gas supply at the control valve on the panel. After ensuring the flame has been extinguished, wait for a minute and relight the unit in the normal manner. Should the unit again burn-back, close the control valve again and contact a gas service technician. Do not use the unit again until the technician has rectified the problem and has declared it is now safe to do so.

Gas Pressure Regulator:
This unit requires an operating pressure of 2,8kPa at the water heater. A suitable LPG regulator that complies with the requirements of **SANS 1237** must be installed.

7. GAS WATER HEATER SAFETY PROCEDURES

a. Protection Against Voltage Fluctuations and Power Failure:
If there is a fluctuation in the voltage or a power failure, the built-in safety protection device in the water heater will keep the water heater to operate normally or safely stop the water heater from operating.

b. Automatic Flame-Out Protection:
With the IC ion sensitive device, the water heater can instantly cut off the gas supply when the flame extinguishes itself, thus preventing gas leakage.

c. Dry Burning Preventing Protection:
The gas valve will immediately and automatically turn OFF in the event the water heater boils dry.

d. Over-Heating Prevention Device:
If the inlet water pressure or flow rate is too low and the water temperature is too high, the over-heating prevention device will be triggered to stop the water heater from operating.

e. Pressure Relief Protection
When the water pressure is too high, the safety valve will be triggered to drain out water and relieve the pressure.

8. DO'S AND DON'TS

a. Avoid Scalding
The air extract on the water heater and surrounding area are hot when the water heater is operational or immediately after operation, thus do not touch the water heater.

Do not get into the bath or shower without testing the water temperature first by using your hand, to prevent scalding.

b. Managing Abnormal Operations
Turn off the gas valve and water inlet valve immediately if one of the following phenomena occurs:

- a gas odour
- a burning sound
- water leakage

Thereafter refer to the TROUBLESHOOTING chart in the manual and take the necessary remedial action. If the problem persists, contact a qualified gas technician for assistance.

c.Inflammable Materials and Ventilation
Ensure that no inflammable material liquids are not placed near the water heater. Even though the water heater is installed outdoors, the area around the water heater should be clear.

d. Do Not Open, Tamper with, or Modify the Water Heater
It is extremely risky to remove the water heater cover or try and dismantle the water heater, as this may cause an electric shock. This must be left to a qualified gas technician.

The water heater must not be tampered with or modified in anyway.

e. Do Not Use Abrasive Liquids
Do not use abrasive, alcohol and acidic based chemicals to clean the water heater (refer to the SERVICE & MAINTENANCE for cleaning instructions).

f. Child Supervision when Using a Water Heater
Small children should not use the water heater without supervision by an adult.

9. TROUBLESHOOTING

a. The phenomena listed below are not faults:

Phenomena	Reason & Solution
It takes a while before the water flows out from the water heater after opening the hot water tap.	When the hot water tap is opened, the system will first drain out the cold water remaining in the pipe between the water heater and the hot water tap.
No hot water is generated even when the hot water tap is open.	The flame in the water heater may not have ignited as the hot water tap is not sufficiently opened to ignite the flame. To rectify this, the hot water tap is to be opened to its maximum.
Difficult to ignite when using for the first time.	The air in the gas pipe needs to be discharged before the water heater can be ignited and this can be resolved by opening and closing the hot water tap repeatedly.
The fan remains working for a short while after closing the hot water tap.	The fan is designed with a time delay function for exhausting waste fumes from the combustion chamber.
Water flows out of the relief valve.	The water heater system relieves high water temperature pressure by discharging water through the relief valve to normalize the pressure in the heat exchanger.

10. SERVICE AND MAINTENANCE

Use a cloth and soapy water (dishwashing liquid) to clean the external casing and dry with a soft cloth. Do not use abrasive detergents, solvents and scourers, which will damage the casing.

To prolong the lifespan of the forced draft instantaneous gas water heater, it is advisable to have it checked and cleaned on the inside once a year by a qualified gas technician.

11

11. PRODUCT WARRANTY

Electrolux SA Pty Ltd ("**Electrolux**") warrants that its forced draft instantaneous gas water heaters are free from manufacturing defects. This is the only warranty given by **Electrolux** in respect of its forced draft instantaneous gas water heaters. **Electrolux** gives no other warranty or representations, where express or implied. No amendments or additions to the warranty shall be binding on **Electrolux**.

Electrolux makes no warranty or representation in respect of the installation of the forced draft instantaneous gas water heaters. Claims in respect of the installation of forced draft instantaneous gas water heaters must be referred to the applicable installer, who shall be solely liable under any installation warranties given.

The two year warranty covers the forced draft instantaneous gas water heater only and does not cover any other part or parts used in the installation, which may become damaged as a consequence of the failure or defect of the forced draft instantaneous gas water heater. **Electrolux** will repair or at its own discretion, replace the faulty part with a new or re-manufactured one.

The two year warranty period will be calculated from the date of installation of the original forced draft instantaneous gas water heater, provided that documentation of proof of the installation is furnished. If the installation date is not available or cannot be proved, the date of manufacture, as determined from the information on the label on the unit, shall be deemed to be the commencement date of the warranty.

If **Electrolux** carries out repairs or replacements, the warranty will not start afresh or be extended, irrespective of how many repairs or replacements are carried out. The warranty period will still be calculated from the installation date of the original installed forced draft instantaneous gas electric water heater, or manufactured date of the original installed forced draft instantaneous gas water heater, as the case may be.

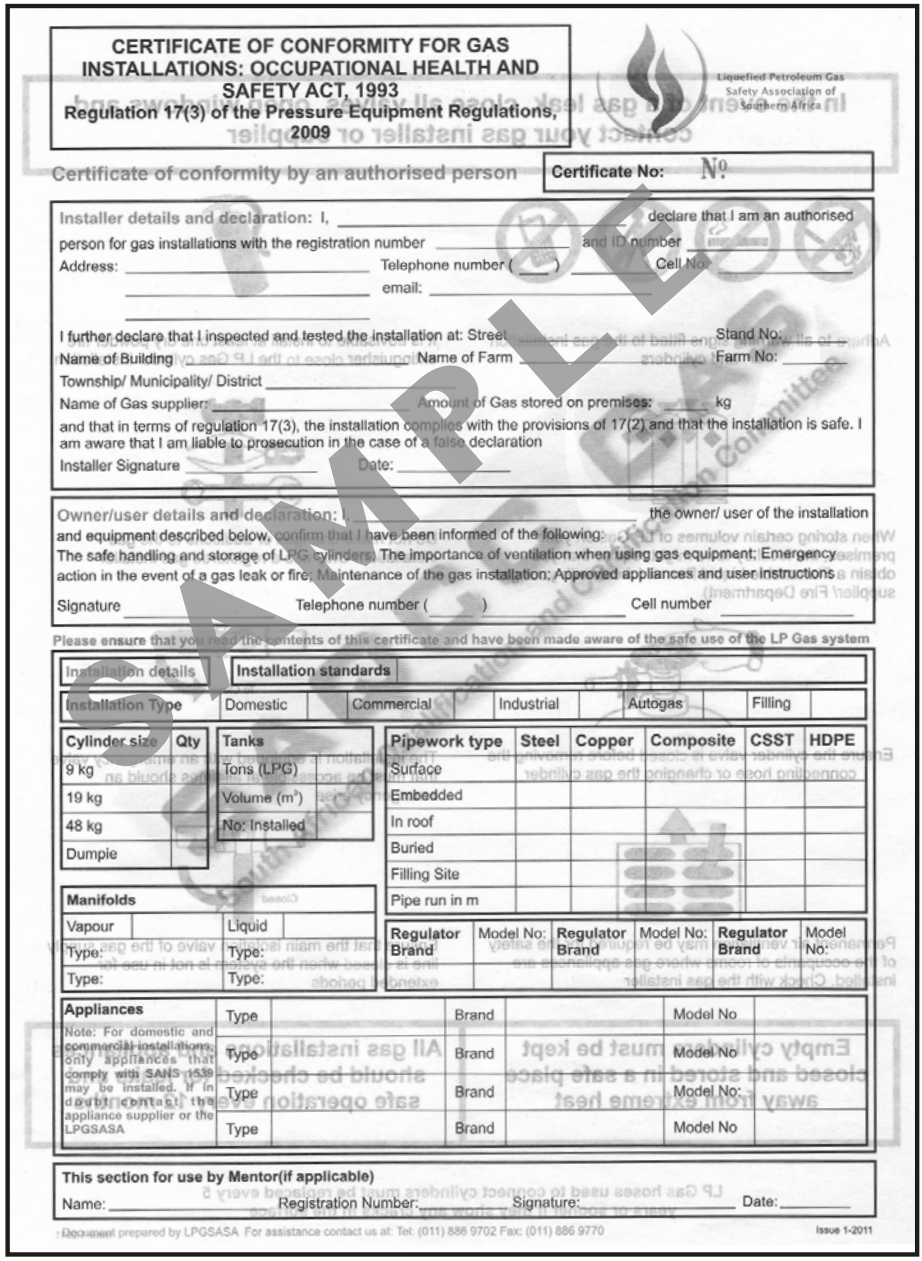
Components removed during warranty repairs, will remain the property of **Electrolux**.

Warranties are applicable only in South Africa, Namibia, Botswana, Swaziland and Lesotho and are subject to instantaneous gas water heaters being used for water, which is of the quality equivalent to water supplied by authorities in Metropolitan areas in South Africa.

A warranty will only be honoured if:

a. The applicable warranty is still in force/valid.
b. The forced draft instantaneous gas water heater is installed, used and maintained in accordance with **Electrolux** specifications and instructions.
c. Where applicable, all other products used in the installation must comply with SANS. Non-compliant SANS products will result in forfeiting the warranty.

12. COC (CERTIFICATE OF CONFORMITY)



CERTIFICATE OF CONFORMITY FOR GAS INSTALLATIONS: OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
Regulation 17(3) of the Pressure Equipment Regulations, 2009

Liquefied Petroleum Gas Safety Association of Southern Africa

Certificate of conformity by an authorised person — **Certificate No:** No:

Installer details and declaration: I, _____ declare that I am an authorised person for gas installations with the registration number _____ and ID number _____
Address: _____ Telephone number (___) _____ Cell No: _____
email: _____

I further declare that I inspected and tested the installation at: Street _____ Stand No: _____
Name of Building _____ Name of Farm _____ Farm No: _____
Township/ Municipality/ District _____
Name of Gas supplier: _____ Amount of Gas stored on premises: _____ kg
and that in terms of regulation 17(3), the installation complies with the provisions of 17(2) and that the installation is safe. I am aware that I am liable to prosecution in the case of a false declaration
Installer Signature _____ Date: _____

Owner/user details and declaration: I, _____ the owner/ user of the installation and equipment described below, confirm that I have been informed of the following: The safe handling and storage of LPG cylinders; The importance of ventilation when using gas equipment; Emergency action in the event of a gas leak or fire; Maintenance of the gas installation; Approved appliances and user instructions
Signature _____ Telephone number (___) _____ Cell number _____

Please ensure that you read the contents of this certificate and have been made aware of the safe use of the LP Gas system

Installation details — **Installation standards**

Installation Type	Domestic	Commercial	Industrial	Autogas	Filling

Cylinder size	Qty
9 kg	
19 kg	
48 kg	
Dumpie	

Tanks	
Tons (LPG)	
Volume (m^3)	
No: Installed	

Pipework type	Steel	Copper	Composite	CSST	HDPE
Surface					
Embedded					
In roof					
Buried					
Filling Site					
Pipe run in m					

Manifolds			
Vapour		Liquid	
Type:		Type:	
Type:		Type:	

Regulator Brand	Model No:	Regulator Brand	Model No:	Regulator Brand	Model No:

Appliances	Type		Brand		Model No	
Note: For domestic and commercial installations, only appliances that comply with SANS 1539 may be installed. If in doubt contact the appliance supplier or the LPGSASA	Type		Brand		Model No	
	Type		Brand		Model No:	
	Type		Brand		Model No	

This section for use by Mentor(if applicable)
Name: _____ Registration Number: _____ Signature: _____ Date: _____

Document prepared by LPGSASA For assistance contact us at: Tel: (011) 886 9702 Fax: (011) 886 9770 — Issue 1-2011

SAMPLE

Liquefied Petroleum Gas Safety Association of Southern Africa

APPROVED

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Eastern Cape Division
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