# **HEATMASTER PTY LTD**

# HEATMASTER " ENVIRO" HIGH EFFICIENCY GAS LOG SPACE HEATER



INBUILT MODEL

CUSTOMER OPERATING INFORMATION
&
INSTALLATION INSTRUCTIONS

ENVIRO gas heaters: Are Manufactured By

HEATMASTER PTY LTD 2/9 Nicole Close
Bayswater, Vic 3153
P: (03) 9761 7130 F: (03) 9761 7134

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# PLEASE STORE THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE

#### **Product Features**

# HEATMASTER "ENVIRO" INBUILT GAS LOG HEATER NAME PLATE

MODEL-ENVIRO			Manufacturer
GAS TYPE	NATURAL	LPG	
MODEL TYPE	Inbuilt	Inbuilt	Heatmaster (Pty.Ltd.
GAS INPUT HIGH LOW	44.0 MJ/h 23 MJ/h	44.0 MJ/h 23 MJ/h	41-45 Bendix Drv. Clayton, VIC. 3168
HEAT OUTPUT HIGH LOW Efficiency Injector Size Manifold Pressure High Low SAI GLOBAL Approval No No to Code AG103	10.55 kW 4.3 kW 84 % 3.7 mm 0.69 kPa 0.22 KPa GSCS20118	10.55 kW 4.3 kW 84 % 2.0 mm 2.25 kPa 0.63 KPa GSCS20118	To be installed by an authorized person in accordance with installation instructions provided with the appliance.
	form to AS3100	240V 50 Hz	160 Watts Max
	ıre Switch	Cleveland	
Cut in 1	Pressure	1	00 Pa
Cut out	Pressure	9	1 Pa
Electrical (	Connection	Standard Flex.	2 Mt. 3 Pin Plug

POWER FLUED
ZERO CLEARENCES TO COMBUSTIBLES WALLS
ENERGY RATE 4.6 Stars
AUTOMATIC ELECTRONIC IGNITION
MANUAL OR REMOTE OPERATED CONTROLS
MODULATED HEAT SETTINGS
MODULATED FAN SPEED

EXTERNAL COMBUSTION AIR PREVENT DE-OXIGENATION OF ROOM AIR DELAYED START FAN PREVENT COLD AIR BEING CIRCULATED AT START UP HEAT DUCTED TO ANY NEIGHBOURING ROOM IN YOUR HOME

#### **SAFETY PRECAUTIONS**

DO NOT OPERATE THIS APPLIANCE BEFORE READING
THE INSTRUCTION BOOKLET
DO NOT PLACE ARTICLES ON OR AGAINST THIS
APPLIANCE
DO NOT STORE CHEMICALS OR FLAMMABLE
MATERIALS OR SPRAY AEROSOLS NEAR THIS
APPLIANCE
DO NOT OPERATE WITH PANELS COVERS OR GUARDS
REMOVED FROM THIS APPLIANCE
DO NOT ENCLOSED THIS APPLIANCE

THE GUARD IN THE GLASS DOOR IS FITTED TO THIS APPLIANCE TO REDUCE THE RISKOF FIRE OR INJURY FROM BURNS AND NO PART OF IT SHOULD BE PERMANENTLY REMOVED. FOR PROTECTION OF YOUNG CHILDREN OR THE INFIRM, A SECONDARY GUARD IS REQUIRED.

THIS APPLIANCE SHALL ONLY BE INSTALLED BY AN AUTHORIZED PERSON

IN ACCORDANCE TO AS 5601/AG 601 (GAS INSTALLATION CODE)

MANUFACTURER'S INSTALLATION INSTRUCTIONS

LOCAL GAS FITTING REGULATIONS AND MUNICIPAL BUILDING CODES

#### **Customer Operating Instructions**

The Heatmaster Enviro Gas log space Heater has been designed for simple and efficient operation to provide you with an efficient, high heat output. With dual operation system (manual or remote controlled) at a touch of a button your heater will provide you with a fully controlled modulated supply of heat, from a pleasant and steady warmth to the strongest heat output to reach almost any corner of your home by using the heat optional transfer kit.

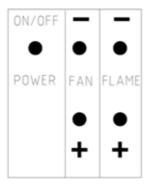
#### PRE OPERATIONS CHECKS

Prior to operating the heater, ensure that the flue terminal is not obstructed Furthermore, make sure there are no combustible objects leaning against, resting on, Or within the immediate vicinity of the unit. Check that the heater main power and gas supply are connected and switched on .

#### OPERATING THE HEATER

The Heatmaster Enviro can be operated by two different modes, **manually** or by the **remote** controlled thermostat wall unit.

**For the manual mode:** the controls are located in the left of the front bottom grill panel. And the operation of the buttons are described in the picture as follow:



#### MANUAL OPERATED'SWITCHES IN BOTTOM FRONT PANEL

- **1.-**To ignite your heater press the **Ignition ON/OFF Button** and the heater will automatically start the ignition sequence. After approximately 30 seconds of purging the air from inside the unit the heater will ignite.
- 2.-The heater always starts in the low heat setting and the heater will warm-up for at least 2 minutes before automatically going to the maximum flame setting.
- **3.-**The fan will not start until the heater has reached the minimum operating temperature. In the Maximum heat setting the fan speed will be locked in high and cannot be set to medium or low speed unless you change the heat setting to medium or low. To select fan speed or the heat setting press the **flame** or **fan marked buttons** in the + or at side of the switches to increase or decrease as desired.

#### DO NOT MODIFY THIS APPLIANCE

#### For the remote programmable thermostat mode:

To use this feature refer to attached Thermostat manual included with this heater. But here are some basic instructions so you can override some functions to operate your heater.

- **1.-**To ignite your heater simply press the ON/OFF power button and the heater automatically will start the ignition sequence within approximated 30 second of self checking the heater will ignite.
- 2.-The heater will always start in the low heat setting and the heater will warm-up for at least 2 minutes before automatically going to the higher flame setting.
- **3.-**The fan will not start until the heater has reached the minimum operating temperature. To select fan speed or the heat setting press the **up** or **Down buttons** in the remote controller, to decrease or increase differential temperature between room and thermostat and flame and fan speed will increase or decrease as desired. (The bigger the temperature differential the bigger the flame and fan speed

**Note**: In the Maximum heat setting the fan speed will be locked in high and can not allow to be set to medium or low speed, at least your change the heat setting to medium or low.

#### TURNING THE APPLIANCE OFF

For either manual or remote mode press the **on/ off** switch once. The room fan will continue to operate for a short period while the heater cools down. Please note:

- 1.- This appliance can not be operated without the fan running
- 2.- Due to the performance and efficiency of the heater, steam may be noticed coming from the flue terminal on cool days
- 3.- As this appliance has a luminous effect some slight carbon deposition may Occur in the logs.
- 4.- During first time firing of this appliance, an odour may be noticed for a short period as the paint cures. It is advisable to leave the windows open during the first few hours of the very first operation only.

#### **SAFETY PRECAUTIONS**

**IMPORTANT POINTS** 

- ! DO NOT place articles or clothing on or against this appliance
- ! DO NOT use or store flammable materials near this heater
- ! DO NOT place any item containing liquid on the heater
- ! DO NOT spray aerosol in the vicinity of this appliance when it is in operation
- ! ALWAYS supervise young children near the appliance

It is recommended that a secondary guard be used, to prevent access to appliance by children, as outer panels of this appliance may reach high temperatures.

**NOTE**: In the event the electricity supply cord is damaged it must be replaced with the original Heatmaster part obtainable from your authorized dealer.

#### **SAFETY FEATURES:**

**Automatic Pre-purge:** Before heater ignition this operation is done to evacuate any remains of gas or flue products from inside the firebox that could be the cause of a mishap

**Automatic Shut-off:** Should the flame extinguish for any reason there is an automatic shut off of the gas supply.

Over temperature protection: In the event of the room fan failing, blockage of airways, or incorrect gas installation, the gas supply will automatically shut off to prevent the appliance from over-heating.

Warning: This appliance must be installed to comply to AS 5601/AG601 codes and regulations and only by an authorized person who is responsible for its correct operation at the time of installation and final commissioning.

#### Pressure adjustment.

Your Enviro Heater has been factory preset and does not need to be readjusted during installation. But there will be some situations where some service has to be done and gas pressure may need to be readjusted as per following Instructions:.



#### 840 OUTLET PRESSURE ADJUSTMENT



All adjustments must be made on the basis of the specific characteristics of the appliance. Check inlet and outlet pressure using the pressure test points provided. After testing, carefully seal test points with the provided screws. Recommended torque: 1.0 Nm.

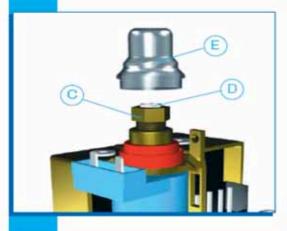
Disconnect pressure regulator connection "VENT" (if used).

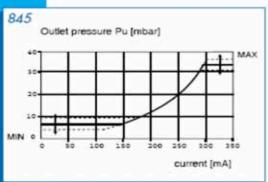
Remove the protective plug A.

Screw in the screw B to increase the pressure and screw it out to decrease it.

After setting put back the protective plug.

#### 843/845 OUTLET PRESSURE ADJUSTMENT





All adjustments must be made on the basis of the specific characteristics of the appliance. Check inlet and outlet pressure using the pressure test points provided. After testing, carefully seal test points with the provided screws. Recommended torque: 1.0 Nm.

Disconnect pressure regulator connection "VENT" (if used).

Remove the modulator plastic cap E.

- Maximum pressure: power the modulator in the maximum condition. Screw in the nut C to increase the outlet pressure and screw it out to decrease it.
   Use a 10 mm spanner.
- Minimum pressure: Turn off the power supply to the modulator and, keeping the nut C stationary, screw in the screw D to increase the pressure and screw it out to decrease it. Screwdriver 6 x 1 blade. Carefully put back the modulator plastic cap.
   Reconnect pressure regulator connection (if used).

**WARNING:** to ensure the correct operation of the modulator it is necessary that the plastic cap E is returned to its original location.

Purchased from:	
Name	•••••
Address	•••••
Phone No	Date of purchase
Serial No of appliance	
To be completed by the inst	aller:
Name	License No
Address	••••••
Phone No	Installation Date

Please for your own convenience record the following information in the space Provided:

#### INSTALLATION: ONLY TO BE CARRIED OUT BY AN AUTHORIZED PERSON!

The Heatmaster Enviro inbuilt Heater is a zero clearance appliance which can be optionally installed in a false fireplace or wall cavity made of combustible materials such as wood or chipboard. Heatmaster provide the heater with a flue kit of flexible pipes of 65mm and 50mm diameter for the inlet and exhaust. For the gas supply a flexible stainless steel pipe with a ½ "BSP male connector is supplied with the heater and can be arranged by the installer to be located at the side or rear of the heater. This easy access connection system allows the heater to be quickly serviced and replaced by one person when ever maintenance will be required in the future.

#### LOGS INSTALLATION: !ONLY TO BE CARRIED OUT BY AN AUTHORIZED PERSON



Front view of empty tray no logs



Front View with the 2 Rear logs in position



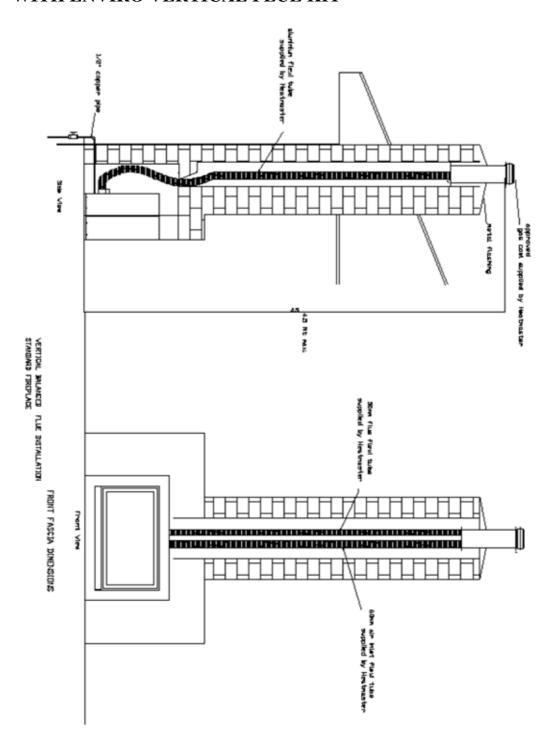


Front view of Rear, Middle and the two front logs positioning

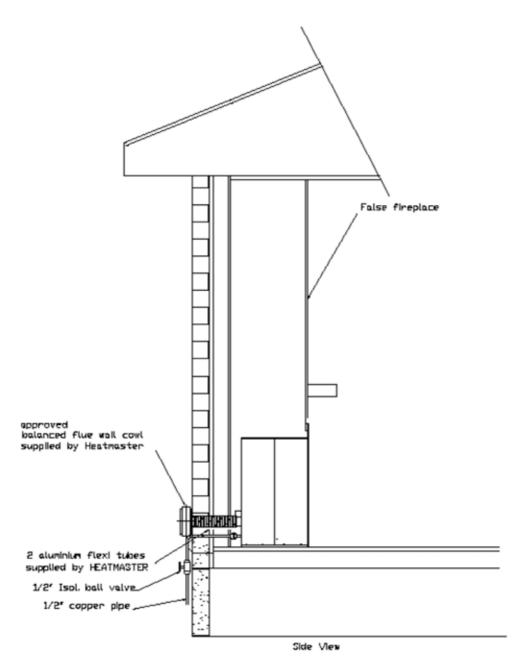


Front view of Rear, Middle, 2 Front logs and Cross twig positioning

#### INSTALLATION OPTION 1: EXISTING FIREPLACE OR ROOF PENETRATION WITH ENVIRO VERTICAL FLUE KIT

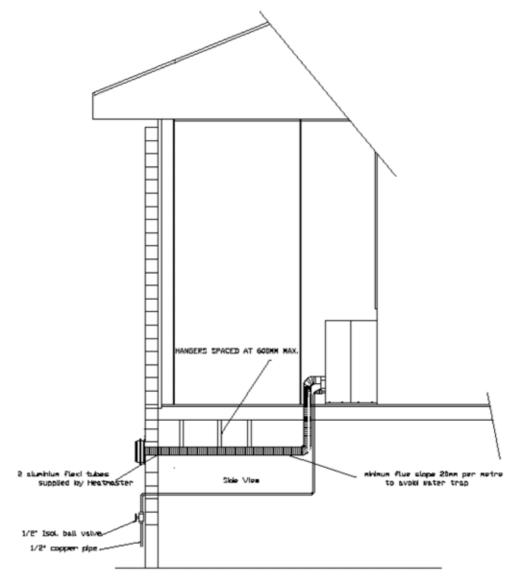


#### INSTALLATION OPTION 2: FALSE FIREPLACE ON STUMP FLOOR AND WALL PENETRATION WITH ENVIRO HORIZONTAL FLUE KIT.



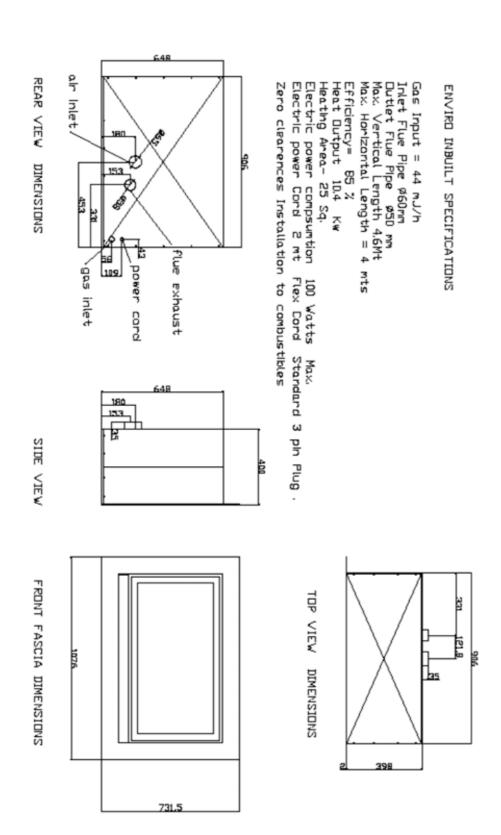
Wall penetration with HEATMASTER Balanced flue on stumps floor

#### INSTALLATION OPTION 3: INTERNAL WALL ON STUMPS AND HORIZONTAL FLUE UNDER THE FLOOR.

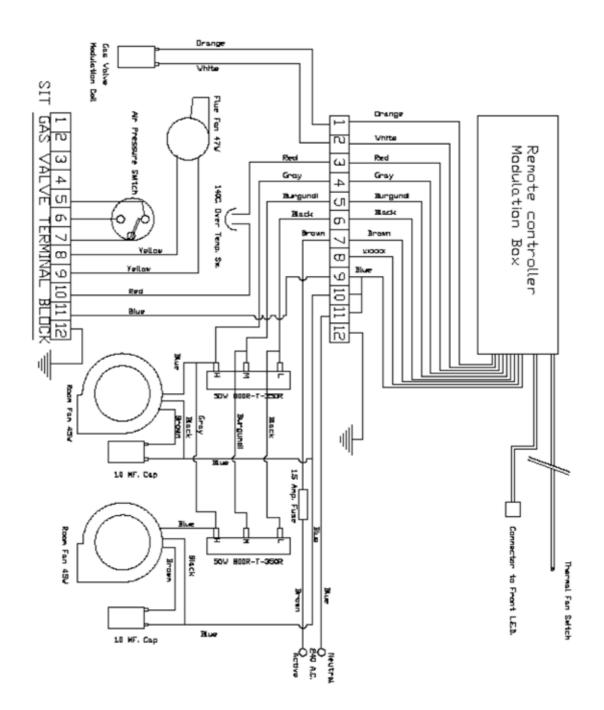


internal Wall under floor with horizontal Balanced flue max lenght 4.5 mt.

#### DIMENSIONS OF ENVIRO INBUILT MODEL



### Wiring diagram:



# TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	REMEDY
Appliance fails to ignite.	No gas or supply pressure insufficient.	Ensure gas supply connected, purged, and pressure appropriate.
	No electrical supply.	Ensure unit plugged in and switch is on, check supply fuse. Check supply. Active, neutral, & earth must be correctly
	Incorrectly wired power point.	orientated and connected.
	Incorrect gas valve adjustment.	Adjust valve pressures.  Wait at least 30 seconds for unit to purge combustion
	Insufficient time allowed between attempts.	chamber after switching on.
	Internal wiring disconnected.	Check all plugs inside appliance are connected properly and correctly located, Ensure operation of combustion fan & air pressure switch.
Unit will not operate on	Incorrect gas valve adjustment.	Adjust valve.
Low.	Incorrect or loose wiring.	Check wiring.
Room fan not operating.	Insufficient time allowed.	Fan has a delayed start and will not start until unit warms-
operating.	Loose wiring.	up. Check wiring.
	Fan not located correctly.	Install fan in correct location.
	Fan blocked.	Remove and clean fan.
Unit cuts out	See "Room fan not operating"	See "Room fan not operating"
after a period of time then	Heat evelopment blockers	Clean heat evelonger
cycles on and	Heat exchanger blockage.	Clean heat exchanger.
off.	Excessive pressure or incorrect	Ensure correct gas type, injector size, and pressure setting.
	gas type.	3 31 7 3 7 1
Excessive	Incorrect gas type or pressure	Ensure correct gas type, injector size, and pressure setting.
carbon (soot)	setting.	Adjust primary air shuttor
deposits on inside of	Primary air shutter incorrectly	Adjust primary air shutter.
firebox, logs,	adjusted for gas type.	
and/or glass.		
Excessive flame height.	Incorrect gas type or pressure setting.	Ensure correct gas type, injector size, and pressure setting.
Excessive flame "lift off"	Flue or inlet blockage.	Clear blockage.
	Recirculation of flue gases.	Ensure flue is installed correctly.
Unit fails to heat.	See "Room fan not operating"	See "Room fan not operating"
	Incorrect gas type or pressure setting.	Ensure correct gas type, injector size, and pressure setting.
	Gas supply blockage.	Check injector, burner supply pipe, & valve for foreign matter.

All service work to be carried out by a qualified & authorised person.

All service work to be carried out by a qualified & authorised person.

#### **SERVICING INSTRUCTIONS:**

Warning; before you attempt to service the heater be sure that electric power plug has been disconnected.

Your heater should be serviced at least once a year to clean the Room Fans from lint and dust accumulated in the bottom compartment. This heater does not require to be removed to service and maintain any items such as logs, PES, room fan, electronic components. To service this items follow the next step:

- 1.- To access the logs and burner components undo the four screws that hold the door. Two at the top of door frame where the hot air outlet is and two at the bottom of door where room air inlet is.
- 2.- To access the gas valve and electrical components and fans, remove front fascia surround by simultaneously lifting and pulling it outwards so the catch hooks in this part can be released from the heater.
- 3.- Once the surround has been removed, unplug the electrical lead connector from the manual control switches located in the front of side panel (left hand in the bottom of panel). Then the front fascia panel can be Put aside from heater.

#### NOTE:

The heater needs to be removed partially from its installed cavity to access the following components:

Flue fan, Over Temperature Switch, and Heat Exchanger.

DO NOT MODIFY THIS APPLIANCE

#### SPARE PART COMPONENT LIST OF ENVIRO GAS HEATER

Comp. No.	Comp. Name	Part No		
1	Gas Valve	00-ST-845		
2	Electronic PES	00-ST-579		
3	Modulation	00-ML- 03		
	Box			
4	Digital	00-ML-032		
	Thermostat			
5	Air switch	00-CL-91		
6	Flame sensor	00-CS-110		
7	Spark igniter	00-CS-111		
8	Flue Fan	00-FM-47		
9	Room Fan	00-MS-50		
10	Fan Resistor	00-RH-80		
11	Gas Burner	00-HM-44		
12	OverTemp	00-HM-140		
	Switch			
13	Ceramic Glass	00-HM-820		
14	Door rope seal	00-HM-2200		
15	Log set	00-HM-60		
16	Injector Nat	00-HM-37		
17	Injector LP	00-HM-20		
			<del> </del>	
			1	

#### CARE OF YOUR ENVIRO GAS HEATER

This appliance requires minimal maintenance, however it is recommended that a full service and check be made by a qualified person annually. For more details Please contact your Heatmaster dealer . The Bottom fascia air grill should be removed by unscrewing the two screws and the fan vacuumed annually.

To clean the appliance, simply wipe over with a dry cloth. Do not use solvents or abrasive cleaning agents.

Before calling check that:

- 1.- Electrical power is on
- 2.-Gas is turned on
- 3.-There are no obstruction /blockages of the flue terminal

#### WARRANTY

As a purchaser of this provide you with the	s Enviro product, Heatmas following warranty:	ster (Aust.) Pty.Ltd.
Heat Exchanger labour	10 Years	1 Year free
All other Partslabour	2 Years	1Year free
purchaser may have u	ldition to all other rights a inder statute. re not covered against acci	·
For more information Heatmaster Pty Ltd.	about your nearest dealer	contact:
2/9 Nicole Close – B Victoria – 3153	ayswater,	
Or visit our website:	www.heatmaster.com.au	