



TYPE – A gas water heater circulator for connection to either a direct or indirect (vented) circuit. It is approved to Australian Standard AS3498 and AG102.

HOW IT WORKS – The **Heatmate series** is designed to heat water circulated by an inbuilt circulating pump which circulates water from a storage tank. It can be connected to an Edwards SV, GXC or LEX series tank depending on the application.

When the temperature control box on the storage tank calls for heat, it activates the pump which creates flow through the Heatmate. A flow switch is activated which then allows the gas valve to “fire up” the burner. The burner heats the water flowing through the heat exchanger which returns back to the storage tank. When the tank temperature sensor achieves its set-point, the temperature control box turns the pump and gas valve off, so that the burner shuts off. For hot water applications a pump run on timer is utilized to remove the heat from the heat exchanger.

HEAT EXCHANGER – A tube and fin heat exchanger is constructed fully from high grade copper. Designed for a temperature rise of approximately 6-12°C.

GAS CONTROLS – A 24V step opening gas valve is used to accurately control the amount of gas being used. Electronic pilot start-up eliminates the need for a standing pilot flame, minimising the gas consumption.

The pump is a single phase, 240V centrifugal pump circulating water through the heat exchanger at approximately 1.1 l/s.

CASING – is constructed of durable, 0.4mm Colorbond® which is suitable for both internal and external use.

WATER QUALITY –

Acceptable range:

Refer to the standard warranty conditions available from an Edwards’ representative.

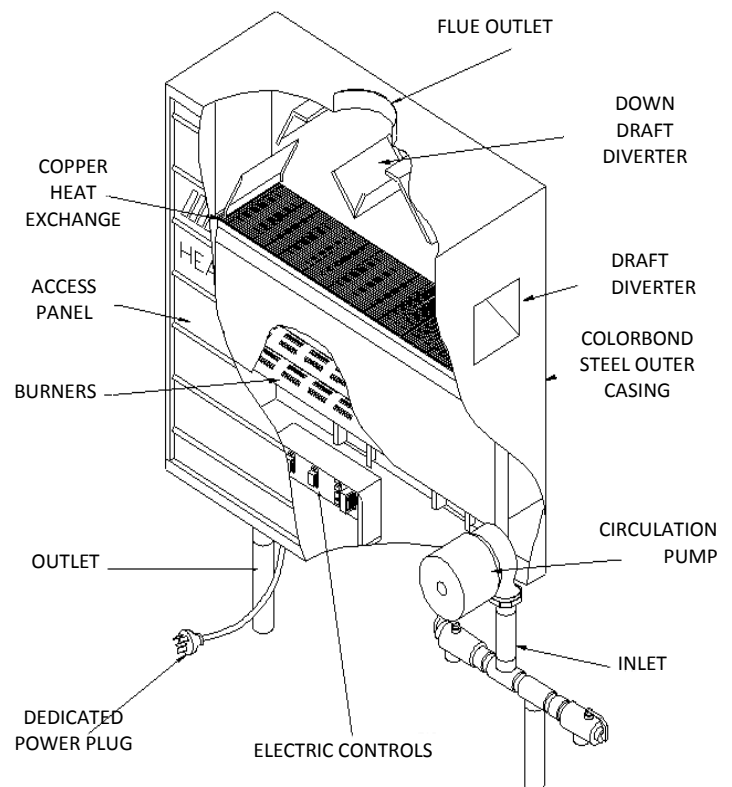
FLUING – Must comply with AG601. The internal model is recommended that a minimum of the first 300mm be vertical to ensure effective drawing of the flue gases.

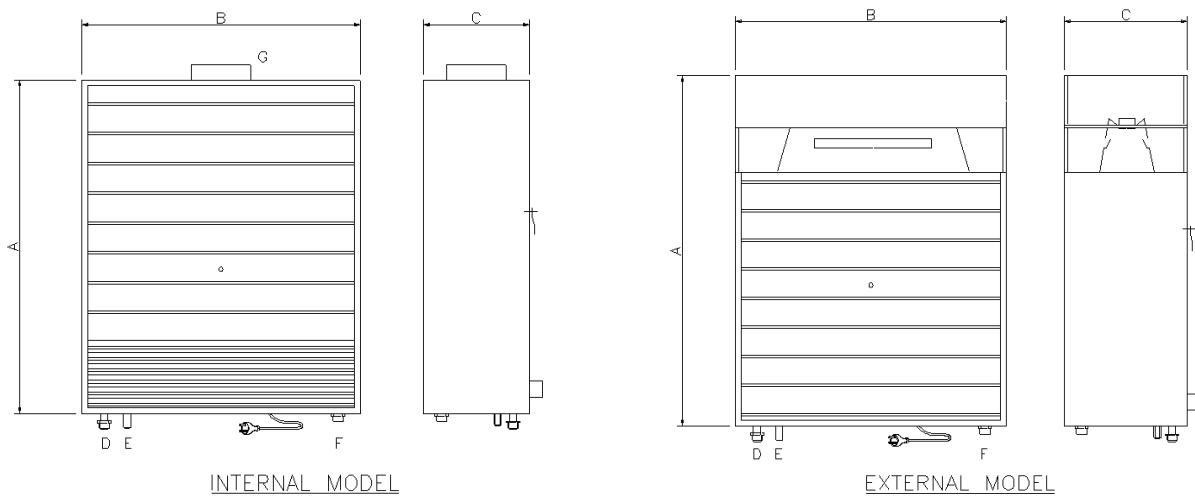
The external model is a balanced flue design.

GAS BURNER – Two Stainless Steel high efficiency tubes which can be commissioned to operate on Natural Gas or LPG.

SAFETY DEVICES – A 97°C over-temperature heat exchange cut-out thermostat is fitted to the heat exchanger. A flow switch will shut off the burner in the event of “no flow”. 2 x 1000kPa Safety relief valves are provided for the circulation circuit when used with direct storage tanks.

HOT WATER PLUMBING – It is good practice to insulate pipework to reduce heat loss.





Clearances : Refer AS-5601 or AG-501

SPECIFICATION

	HEATMATE 250	
	INTERNAL (mm)	EXTERNAL (mm)
A	1080	1175
B	930	930
C	380	435
D Water Outlet	Ø25 copper	Ø25 copper
E Gas Inlet	20 BSP Male	20 BSP Male
F Water Inlet	25 BSP Male Direct / 20 BSP Female Indirect	25 BSP Male Direct / 20 BSP Female Indirect
G Flue	200OD	n/a
MJ/h	250	250
kW Output	54	54
Weight (kg)	78	84
Max Water Temp (°C)	88	88
Min Gas Pressure (kPa)	NG 1.13, LPG 2.75	NG 1.13, LPG 2.75
Max Gas Pressure (kPa)	NG 1.13, LPG 2.75	NG 1.13, LPG 2.75
Water Pressure (kPa)	850	850

Units may be connected in parallel for greater versatility and output.
Care has been taken to ensure that all information is as accurate as possible at the time of publication.
However, specifications, methods and figures are subject to change without prior notice.

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