

# EVOMOD

250kW

**2** YEAR WARRANTY\*

Available in 250, 500, 750 and 1000 kW modules, the Evomod will achieve an output up to 1MW from a single unit solution together with a minimum footprint that enables the product to be installed where space is limited. Each module provides a maximum of 250 kW heat output and will modulate down through a sophisticated control system.

## FEATURES & BENEFITS



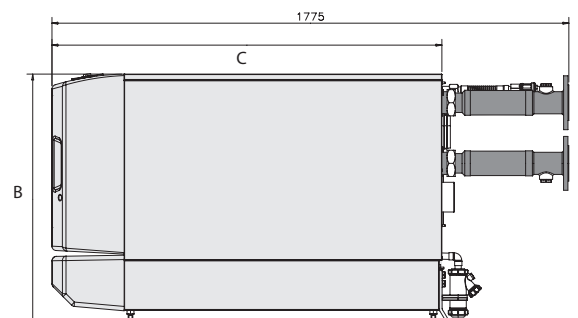
- Stainless steel heat exchanger
- Built in module diagnostics, sequencing and remote indication
- Plain text display for fast and easy use
- Single flue outlet, system, gas and electrical connections
- Up to 5:1 turndown
- Easy access for servicing
- Minimum footprint with easy site handling and standard doorway access allowing simplified plant replacement
- NOx <40mg/kWh (Class 5) for maximum BREEAM points
- Up to 108.5% net efficiency (fully condensing)
- Single boiler control for all module options

## DIMENSIONS & CLEARANCES

BOILER	DIM A	DIM B	DIM C
250	710	860	1339

The following minimum clearances must be maintained for operation and servicing:

- ↑ TOP: 300mm
- FRONT: 600mm
- ↔ SIDES: LH 400mm | RH 450mm
- ↓ REAR: 750mm



# EVOMOD 250kW

## TECHNICAL SPECIFICATIONS



### GENERAL

Dry Weight	KG	229
Boiler Dimensions	mm	860 (H) x 710 (W) x 1339 (D)
Boiler Clearances	mm	Front: 600 Left Side: 400 Right Side: 450 Rear: 750 Top: 300
Seasonal Efficiency	%	95.9
Min/Max Gas pressure (Nat Gas)	mbar	17-20

### BURNER PRE MIX

Fuel	(Type G20)	Natural Gas
Fuel Consumption (Nat Gas)	m <sup>3</sup> /h	25.2
Flame Protection		Ionisation
Ignition		Spark
Boiler Output (Mean 70°C)	kW	46.7-232.5
Boiler Output (Mean 40°C)	kW	51.4-252.5
Boiler Input (Gross cv)	kW	264.1
Gas Inlet Size		1¼"
NOx Rating/emissions at 0% O <sub>2</sub>	mg/kWh	Class 5 (39.7)

### HYDRAULICS

Hydraulic Resistance (20°C ΔT)	mbar	410
Nominal Flow Rate (20°C ΔT)	l/s	3.0
Min Flow Rate (20°C ΔT) (MAX MOD)	l/s	0.6
Min Flow Temperature	°C	30
Max Flow Temperature	°C 80	0.694
Min Working Pressure	bar	1
Max Working Pressure	bar	6
Max Static Head Of Water	metres	61
Condensate Connection	mm	21.5
High Limit Set Point	°C	105 flow, 95 return
Flow & Return Size		2½" PN16
Water Content	litres	14.8

### FLUE/AIR INLET

Flue Size	mm	150
Flue Gas Volume	m <sup>3</sup> /h	391
Flue Gas Temperature 80/60	°C	105
Max Flue Resistance	Pa	80

### ELECTRICAL

Electrical Supply		230/240V 50Hz 1 Ph
Current (Max No Pump)	amp	1.59
Power Consumption	watt	350
Modulating Input	V/dc	0-10V
Fuse Rating	amp	1 x 5 Internal
Controls Voltage	V	230 or 0-10
Insulation Class IP		IP IP20

### CONTROL OPERATION

On/Off 0-10V DC	Yes
OpenTherm	No
High Limit Protection	Yes
Low Water Protection	Yes
Volt Free Common Alarm	Yes
Boiler Run Indication	Yes

### OPTIONAL EXTRAS

Water and Gas Header Assembly package	Yes
Water and Gas Header c/w Valves package	Yes
Water Connection Kit (250 only)	Yes
Air Inlet Collar	Yes



\*2 year warranty subject to Terms and Conditions. 2 years parts and labour warranty available subject to being commissioned by Ideal Boilers.

# GET A QUOTE

W: [IDEALCOMMERCIALBOILERS.COM](http://IDEALCOMMERCIALBOILERS.COM)  
E: [commercial@idealboilers.com](mailto:commercial@idealboilers.com)  
T: 0844 5436060

**OVERVIEW**

The boilers must be fully automatically controlled, floor standing, fanned, super-efficient condensing appliances utilising a stainless steel heat exchanger and be suitable for connection to fully pumped open vented or sealed water systems. The boilers must be modular in design with each module capable of delivering 250kW.

**CONTROLS**

The condensing boilers must have connectivity for common types of BMS integration including 0-10v and volt free connections. The boiler must be fully modulating with a 5:1 turndown ratio per 250kW module and include control features enabling set point adjustment, heating circuit control of one constant temperature and one DHW circuit or 2 constant temperature circuits, and safety lock out parameters including fault diagnosis for both boiler and external components such as sensors or pumps. Boiler capabilities must include, with the use of external components, frost protection, weather or room compensation and system pump control.

**FLUE**

The condensing boilers must be suitable for use with a room sealed flue or open flue applications including C13, C33 and B23 classifications. The flue outlet and air inlet must be situated at the rear of the boiler.

**HYDRAULIC**

The condensing boiler must be suitable for connection to fully pumped open vented or sealed water systems. All hydraulic connections including flow return and condensate drain must be located on the rear of the boiler. Hydraulic connections must be uniform across the modules available in the range to ensure ease of installation and maintenance. The boiler must have a maximum operating pressure of 6 bar and be suitable for heating and indirect hot water systems.

**DIMENSIONS**

The condensing boiler must fit within maximum permitted floor space of 0.95m<sup>2</sup> (when installed 1 module wide) or 1.91m<sup>2</sup> (when installed 2 modules wide).

**MOUNTING / POSITIONING**

The condensing boilers will be floor standing.

**EFFICIENCY**

The condensing boilers are capable of high seasonal efficiencies with a minimum requirement of 95.9% and low NOx emissions no greater than 39.7mg/kWh.

**APPROVALS**

The boilers must be tested by BSI and conform to EN656, EN13856 and EN15417 for use with Natural Gas. Boilers are certified to meet the requirements of the EC Gas Appliance Directive, Boiler Efficiency Directive, EMC and Low Voltage Directive.

The manufacturer must be ISO 9001 accredited.

**SPECIFICATION**

The boiler will be capable of flow rates for common systems using 20°C temperature differentials.

**SOURCING**

The condensing boiler must be manufactured or finally assembled in the United Kingdom.

**WARRANTY**

The boiler must be available with a 2 year warranty.