

ideal
HEATING

COMMERCIAL

INDEPENDENT HEAT

80kW LPG



Wall Hung



Cascade control



NOx
Class 6



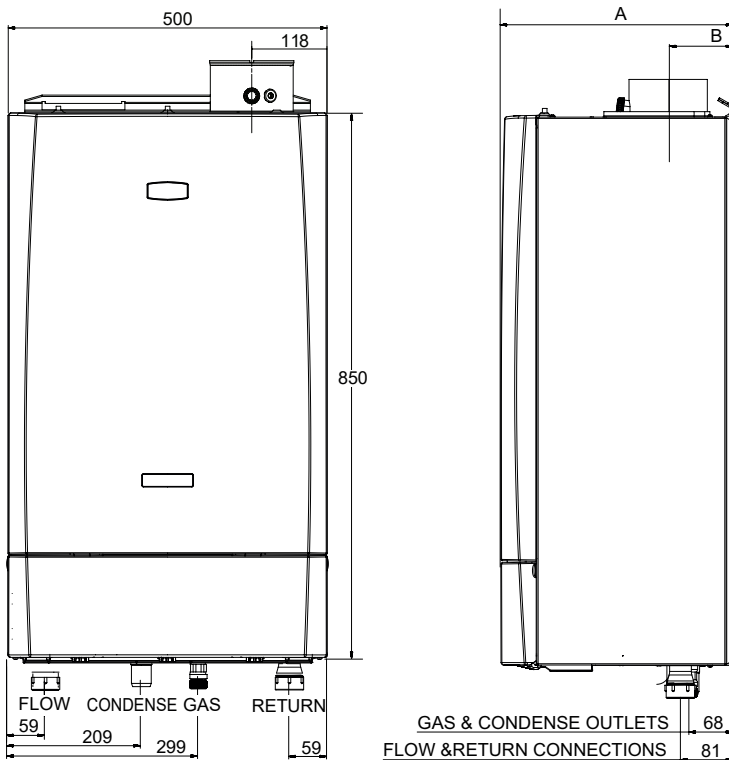
Part L
compliant



Available in outputs of 40, 60, 80, 100, 120 and 150kW, Independent Heat is designed to ensure all installation requirements can be achieved. There is also an LPG range from 40 - 80 kW for off mains installations.

Features & specification

- 5 year warranty*
- Robust cast aluminium silicon alloy heat exchanger
- NOx <40mg/kWh (Class 6) for all natural gas models
- High 5:1 turndown
- Up to 99.6% full load efficiency
- Up to 110% part load efficiency
- Exactly the same compact footprint as Evomax, allowing for easy like for like replacement
- Dynamic control menu set up
- Cascade controls option
- Easy servicing; 3 sides removable
- Built in, serviceable flue Non-Return Valve
- Fully compatible with all Evomax 2 accessories



DIMENSIONS & CLEARANCES

BOILER	DIM A	DIM B
80	360	130

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



CLEARANCE BETWEEN MULTIPLE BOILER INSTALLATIONS: 25mm



BOILER ASSEMBLY
INTERNAL VIEW
(40kW MODEL SHOWN)

KEY

1. Auto Air Vent
2. Burner Fixings
3. Fan
4. Gas Valve
5. Venturi
6. Flow Thermistor
7. Ignitor Unit
8. Electrode Detection
9. Ignition Electrode
10. Water Pressure Sensor

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TECHNICAL SPECIFICATIONS

GENERAL

Dry Weight	kg	57.5
Boiler Dimensions	mm	850 (H) x 500 (W) x 360 (D)
Boiler Clearances	mm	Front: 450 Side: 25 Below: 300
Full Load Efficiency	%	99
Part Load Efficiency	%	110
Seasonal Efficiency	%	97.2
SEDBUK 2009	%	N/A
Min/Max Gas pressure (LPG)	mbar	37

BURNER PRE MIX

Fuel	(Type G31)	Propane
Fuel Consumption (LPG)	m ³ /h	3.41
Flame Protection		Ionisation
Ignition		Spark
Boiler Output (Mean 70°C)	kW	16 - 80
Boiler Output (Mean 40°C)	kW	16.8 - 82.6
Boiler Input (Gross cv)	kW	88.9
Gas Inlet Size		G¾"
NOx Weighted (gross)	mg/kWh	63.3
NOx Class		Class 5

HYDRAULICS

Hydraulic Resistance (11°C ΔT)	mbar	750
Hydraulic Resistance (20°C ΔT)	mbar	180
Hydraulic Resistance (30°C ΔT)	mbar	70
Nominal Flow Rate (11°C ΔT)	l/min	104.2
Nominal Flow Rate (20°C ΔT)	l/min	57.3
Nominal Flow Rate (30°C ΔT)	l/min	38.2
Min Flow Rate (30°C ΔT) (MAX MOD)	l/min	38.9
Min Flow Temperature	°C	30
Max Flow Temperature	°C	85
Min Working Pressure	bar	0.3
Max Working Pressure	bar	6
Max Static Head Of Water	metres	61.0
Condensate Connection	mm	25
High Limit Set Point	°C	110 flow, 95 return
Flow & Return Size		G1¼"
Water Content	litres	5.0

*To be Hydrogen Blend Ready would require the boiler to be connected to a suitable fuel supply and it would be necessary to fit an additional kit to convert the boiler from LPG operation to 100% Natural Gas or 80% Natural Gas / 20% Hydrogen blended fuel supply.

*2 year parts and labour warranty as standard, extended to 5 year warranty subject to being commissioned by Ideal Heating. Terms and conditions available at www.idealheating.com

FLUE/AIR INLET

Flue Size	mm	80/125 Concentric or Open Flue
Flue Gas Volume	m ³ /h	121.57
Flue Gas Temperature 80/60	°C	70
O/F Max Counter Pressure Diff	Pa	312
Balanced Flue Counter Pressure Diff	Pa	0

ELECTRICAL

Electrical Supply		230V - 50Hz
Current (Max No Pump)	amp	4A
Power Consumption	watt	149
Modulating Input	V/dc	0-10V or OpenTherm
Fuse Rating	amp	4.0
Controls Voltage	V	230V 50Hz volt free control or PELV =<24V DC
Insulation Class IP		IPX4D

CONTROL OPERATION

On/Off 0-10V DC	Yes
OpenTherm	Yes
High Limit Protection	Yes
Low Water Protection	Yes
Volt Free Common Alarm	Yes
Boiler Run Indication	Yes

OPTIONAL EVOMAX 2 KITS FOR INDEPENDENT HEAT

Multi Boiler Frame & Header Kits	Yes
Varican Module Master Kit	Yes
Varican Module Slave Kit	Yes
Extension Module Kit	Yes
OPENTHERM Room Control Kit	Yes
Room Sensor Kit	Yes
Tank Sensor Kit	Yes
Outside Sensor Kit	Yes
Header Flow Tank Immersion Sensor Kit	Yes
Header Flow Tank Strap On Sensor Kit	Yes
Safety Interlock Kit	Yes
0-10V Pump Control Kit	Yes
Condensate Pump	Yes

GET A QUOTE     

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Please note that the above information is correct at time of publication. Ideal Commercial Boilers has a policy of continuous development and therefore reserves the right to alter product specifications or any other details without prior notification.