

ideal
HEATING

COMMERCIAL

INDEPENDENT HEAT

40kW LPG



Wall Hung



Cascade control



NOx
Class 6



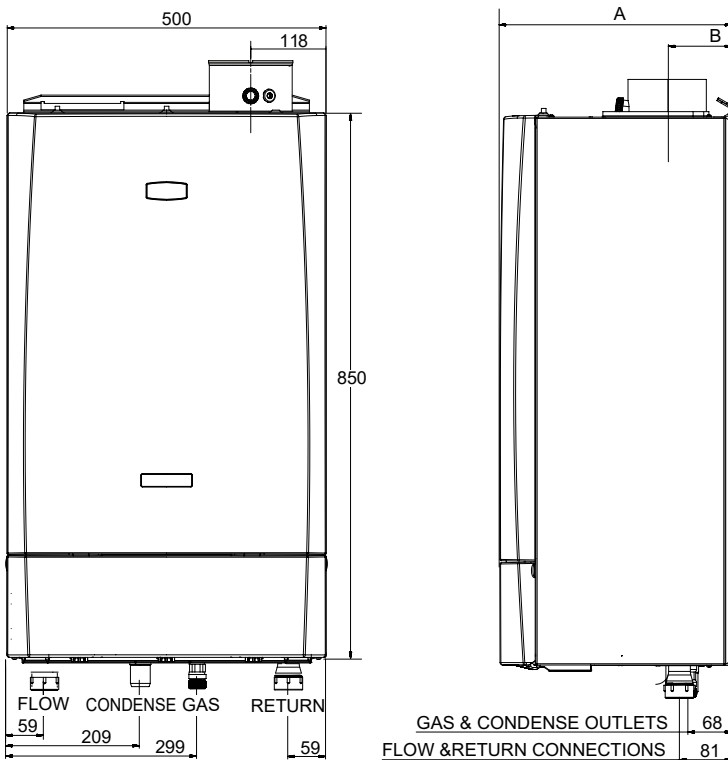
Part L
compliant



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



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

DIMENSIONS & CLEARANCES

| BOILER | DIM A | DIM B |
|--------|-------|-------|
| 40 | 360 | 130 |

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



CLEARANCE BETWEEN MULTIPLE BOILER INSTALLATIONS: 25mm



INDEPENDENT HEAT 40kW LPG

TECHNICAL SPECIFICATIONS

GENERAL

| | | |
|----------------------------|------|--------------------------------------|
| Dry Weight | kg | 47.5 |
| Boiler Dimensions | mm | 850 (H) x 500 (W) x 360 (D) |
| Boiler Clearances | mm | Front: 450 Side: 25 Below: 300 |
| Full Load Efficiency | % | 99.4 |
| Part Load Efficiency | % | 108.5 |
| Seasonal Efficiency | % | 96.7 |
| SEDBUK 2009 | % | 90.3 |
| Min/Max Gas pressure (LPG) | mbar | 37 |

BURNER PRE MIX

| | | |
|---------------------------|-------------------|---------------------------------|
| Fuel | (Type G31) | Propane |
| Fuel Consumption | m ³ /h | 1.69 |
| Flame Protection | | Ionisation |
| Ignition | | Spark |
| Boiler Output (Mean 70°C) | kW | 8 - 40 |
| Boiler Output (Mean 40°C) | kW | 8.3 - 41.2 |
| Boiler Input (Gross cv) | kW | 44 |
| Gas Inlet Size | | G ³ / ₄ " |
| NOx Weighted (gross) | mg/kWh | 64.4 |
| NOx Class | | Class 5 |

HYDRAULICS

| | | |
|-----------------------------------|--------|----------------------------------|
| Hydraulic Resistance (11°C ΔT) | mbar | 875 |
| Hydraulic Resistance (20°C ΔT) | mbar | 225 |
| Hydraulic Resistance (30°C ΔT) | mbar | 100 |
| Nominal Flow Rate (11°C ΔT) | l/min | 52.1 |
| Nominal Flow Rate (20°C ΔT) | l/min | 28.7 |
| Nominal Flow Rate (30°C ΔT) | l/min | 19.1 |
| Min Flow Rate (30°C ΔT) (MAX MOD) | l/min | 19.5 |
| 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 | | G1 ¹ / ₄ " |
| Water Content | litres | 3.0 |

*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 | 61.68 |
| Flue Gas Temperature 80/60 | °C | 70 |
| O/F Max Counter Pressure Diff | Pa | 277 |
| Balanced Flue Counter Pressure Diff | Pa | 0 |

ELECTRICAL

| | | |
|-----------------------|------|--|
| Electrical Supply | | 230V - 50Hz |
| Current (Max No Pump) | amp | 4A |
| Power Consumption | watt | 138 |
| 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.