

RAVENHEAT[®]



HE80

25kW Combi





Built to exacting ISO 9001 standards using quality components, all of our boilers carry the European CE mark. Each appliance undergoes a rigorous testing and operating procedure before being carefully packed for maximum protection, ready to leave our factory.

HE80 Combination Boiler: 25 kW to domestic hot water (DHW) output with DHW flow rate of 10.2 litres through a 35°C rise.

Smart Energy Saving

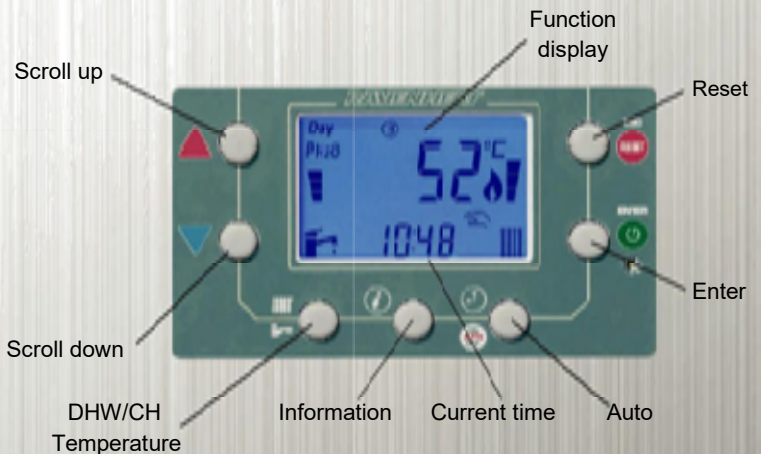
Designed incorporating energy saving innovation, this model of combi boiler puts style, quality and efficiency in a new class of its own.

This brochure explains the reasons why choosing this boiler will benefit your home heating comfort and hot water requirements.

The control features enable the user to easily set the heating and hot water temperatures and central heating information, utilising the customer friendly operating modes.

CLEAR VIEW DISPLAY SCREEN

The HE80 combination boiler has a high resolution backlit LCD screen, featuring customer friendly buttons for optimum operation, making it easy to use in poor light conditions. This feature enables the user to easily set the heating and hot water temperatures, central heating times and view the system pressure.



OpenTherm (Compatible room stat required)

OpenTherm boilers provide more precise control directly from the room thermostat to the boiler's software which modulates the gas valve and central heating pump. This allows the precise gas input requirement to match the varying demand signal i.e. if the house needs to be one degree warmer the control tells the boiler it can start and run at a lower power. By reducing the flow temperature to a minimum of the heat required, the flow temperature is kept below the dew point (50°C), thus allowing the boiler to operate in condensing mode which is more efficient. Without OpenTherm even with the best controls the boiler will always run at full power consuming significantly more energy (both gas and electric) effecting the homeowner's energy bill. Whereas with our HE80 by just applying the necessary heat there is a significant saving available and all of this is done automatically by the boiler and its controls.



Honeywell MMI (optional extra)



Customer benefits

- SEDBUK A rated
- 5 year warranty (Ts & Cs apply)
- OpenTherm compatible
- Weather compensation (optional)
- DHW flow rate of 10.2 l/min @ 35 degree rise
- Compact size: H- 700mm, W- 400mm D- 300mm
- Fully ERP compliant
- Backlit LCD
- Whisper quiet in operation
- Built in frost protection
- Integral colour coded valve kit eliminates unsightly valves below the boiler
- User friendly controls, simple and easy to use
- High density insulation
- DHW pre-heat function
- Minimum low power of only 4kW further reduces energy cost

Installer benefits

- Brass and premium branded components for lasting quality
- Fully accessible from the front making servicing easier
- Side clearance of only 1mm required
- Easy release control panel allows full access for servicing
- Built-in deep condensate trap designed to reduce external nuisance freezing in winter
- Multi fix wall hanging bracket available (optional)
- Flexible condensate pipe for multi positioning discharge drain
- Lightweight design to aid installation
- Removable side panels
- Built in automatic by-pass
- Low Nox class 6 - 33.41mg/kWh
- Anti-locking pump and valve feature
- Stand-off bracket available for piping down the back of the appliance (optional)



Brass Manifold



Flue Options

The HE80 can be fitted with either a 100mm standard (concentric), a 125mm flue duct or a twin (eccentric) flue duct, which can be installed either vertical or horizontal, depending on the customers requirement. A one metre standard horizontal flue kit is supplied separately; this can extend to 8 metres if required, or 13 metres vertical (maximum without bends). The below flue arrangements should fit most requirements however, alternative systems (Twin or 125mm) are available. See installation manual for all flue lengths and options.

No	Flue part 60/100	Part No
1	1 metre horizontal flue kit	PR5023016
2	Straight flue header / sample point	PR5094110A
3	1 metre high plume kit	TER110101
4	1 metre flue extension	PRFE
5	45 degree in line flue bend	PR45FBI
6	90 degree in line flue bend	PR90FBI
7	Flashing sleeve / plate	TEG060050
8	1 metre vertical terminal	TER110200
9	90 degree flue exhaust deflection bend	CUR110100
10	45 degree flue exhaust deflection bend	CUR110050

BOILER SPECIFICATIONS	
Central Heating Max/Min Output (Adjustable Modulation)	3.6 - 21.4 kW
Domestic Hot Water Max/Min Output	3.6 - 25.4kW
Domestic Hot Water Flow Rate Rise 30°C ΔT	11.9 l/min
Flow Rate Rise 35°C ΔT	10.2 l/min
Expansion Vessel	8L
Maximum Central Heating Temperature	80°C
Installation clearances	
Side	1mm
Top	125mm
Bottom	80-150mm
Connections:	
Condensate (push fit)	3/4"
Gas inlet	15mm
CH Flow	22mm
DHW outlet	15mm
Cold inlet	15mm
CH return	22mm
Flue Connection	100mm
Electrical Mains Supply	230V 50HZ Fused 3amp
µs seasonal space heating energy efficiency	95.0%
Nox Class	6 (33.41 mg/kWh)
OpenTherm Compatible	Yes
Weather Compensator Option	Yes
Noise Level	52 dB
Auxiliary Electricity Consumption	
elmax at full load	0.078 kW
elmin at part load	0.065 kW
PSB in standby mode	0.005 kW

