

# **RAVENHEAT<sup>®</sup>**

## **HE80 - HE98 A +**

**WALL MOUNTED CONDENSING COMBI/SYSTEM BOILER**



### **SMART BOILER SMART HOME**



FOLLOW AND SHARE



5  
YEARS  
WARRANTY

LOW ENERGY  
&  
WHISPER  
QUIET

LOW  
NOX  
CLASS 5

29 KG  
SINGLE  
MAN  
LIFT

# SMART BOILER



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 –25kW to domestic hot water (DHW) output with DHW flow rate of 10.2 litres through a 35°C rise.
- HE98 Combination Boiler –30kW to domestic hot water (DHW) output with DHW flow rate of 12 litres through a 35°C rise.

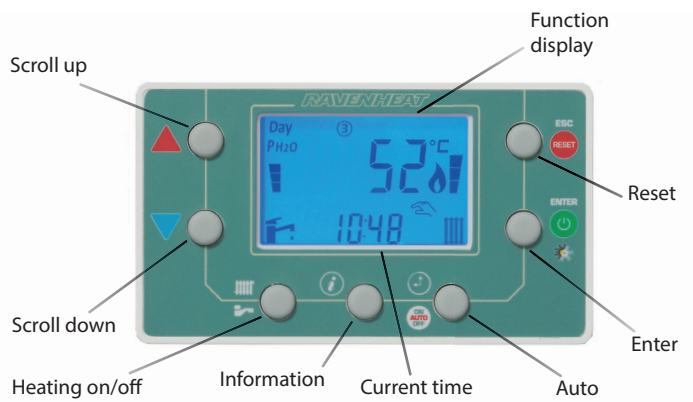
## SMART ENERGY SAVING

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

This brochure explains the reasons why choosing this boiler package 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



Both the HE80 and HE98 combination boilers have 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.



# SMART HOME

NOT ALL BOILERS ARE THE SAME - JUST TAKE A LOOK AT WHAT THE RAVENHEAT HE80, HE98 BOILERS HAVE TO OFFER:

## Customer benefits:

- **A+ ErP**
- **SEDBUK A rated**
- **5 year warranty\***
- **Opentherm integrated.**
- **Efficiency rated with Honeywell control A+**
- **Weather compensation (optional).**
- **Direct WIFI connection kit (included)**
- **Compact size – H-700mm, W-400mm D-300mm**
- **ErP compliant controls and pump.**
- **Backlit LCD.**
- **Whisper quiet in operation.**
- **User friendly touch controls, simple and easy to use.**
- **High density insulation**
- **Low NOx class 5**
- **Minimum low power of only 3.6kW further reduces energy cost.**

## Installer benefits:

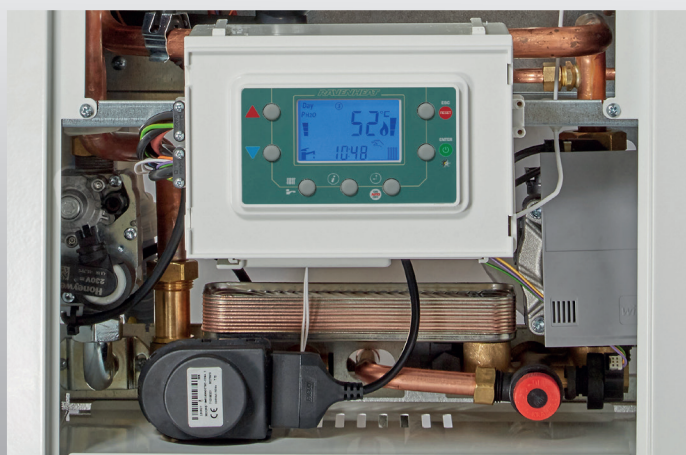
- **Brass and premium branded components for lasting quality.**
- **Integral valve kit eliminates unsightly valves below the boiler.**
- **Easy release control panel allows easy access for servicing**



- **Built-in deep condensate trap designed to reduce nuisance freezing in winter.**
- **Flexible condensation pipe conveniently located after the trap.**
- **Lightweight design to aid installation.**
- **Removable side panels.**
- **Built in automatic by-pass.**

## EASY RELEASE CONTROL PANEL ALLOWS FOR INSTANT ACCESS FOR SERVICING

Simple yet innovative, the control display on both the HE80 & HE98 boilers slides up with ease to allow easy access when servicing.



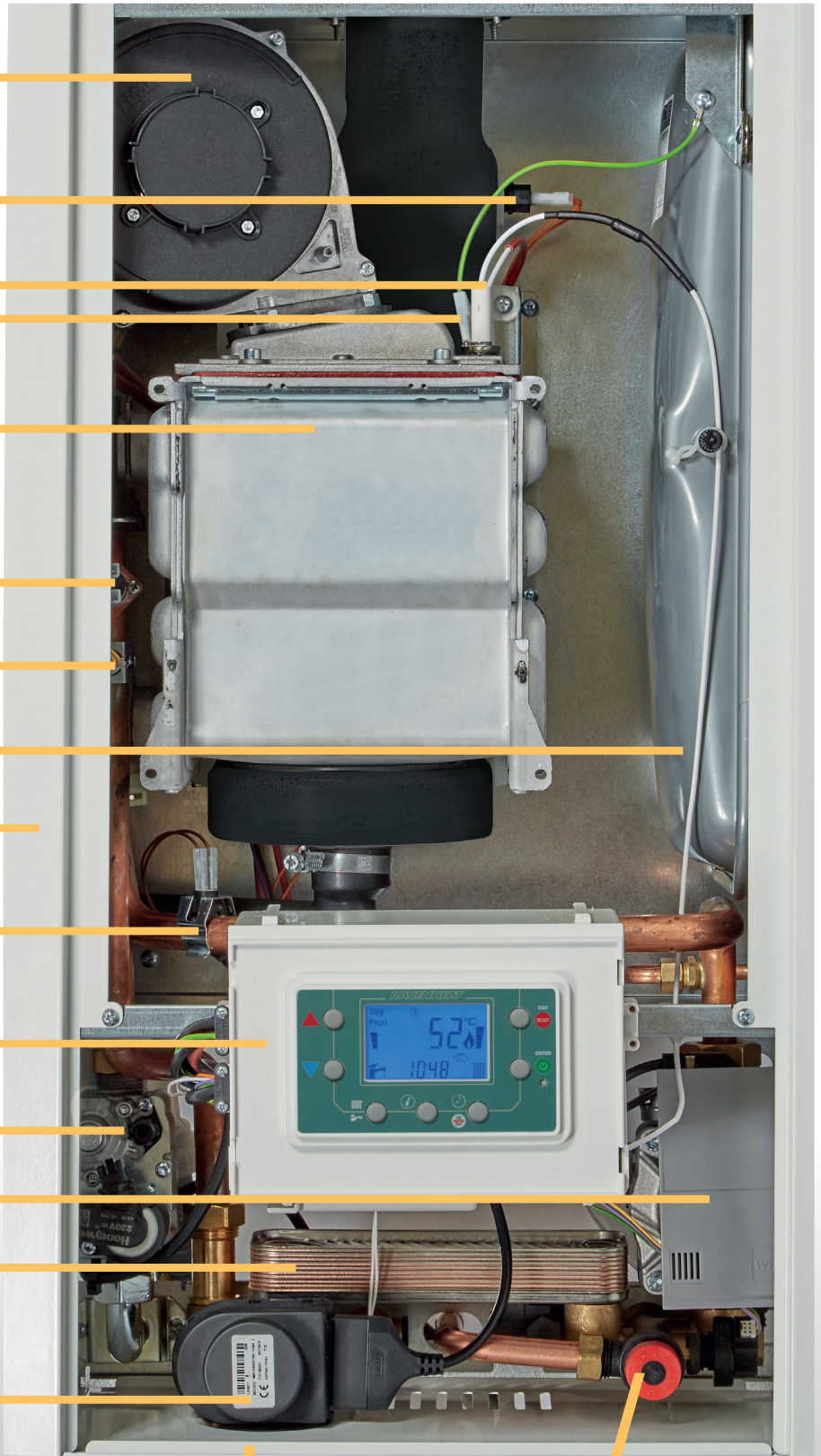
\*terms & conditions apply.

# SMART INSTALLER

A CLOSER LOOK



- FAN
- FLUE SENSOR
- SPARK ELECTRODE
- SENSING ELECTRODE
- MAIN HEAT EXCHANGER
- OVERHEAT THERMOSTAT
- CH FLOW THERMISTOR
- EXPANSION VESSEL
- SLIDE IN SIDE PANELS EASILY REMOVED FOR GREATER ACCESS
- CH RETURN THERMISTOR
- QUICK RELEASE CONTROL BOX FOR EASE OF ACCESS
- GAS VALVE
- ERP PUMP
- PLATE HEAT EXCHANGER
- DIVERTER
- PRESSURE RELIEF VALVE
- MANUAL DRAIN OFF VALVE



**RAVENHEAT®**

# SMART CONTROL

## WELCOME TO OPENTHERM

HERE AT RAVENHEAT WE HAVE BEEN WORKING CLOSELY WITH HONEYWELL TO ENSURE BOTH PRODUCTS (BOILER AND EXTERNAL CONTROLS) COMMUNICATE IN THE BEST WAY POSSIBLE TO SAVE ENERGY WHILE DELIVERING HEATING COMFORT.

## WELCOME TO OPENTHERM

Ravenheat OpenTherm boiler package provides more precise control directly from the room thermostat to the boiler's software which operates the gas valve and modulating 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 at 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/HE98

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/package.

Efficiency is a major feature of Ravenheat's new HE range, which boasts an **A+** ErP energy efficiency rating. This makes it the first boiler manufacturer in the UK to bring **A+** boilers in a single package price deal to installers.



The range consists of two new combi and two system boilers – the HE80, 25kW combi (DHW 10.2 l/min at 35°C) and HE98, 30kW combi (DHW 12 l/min at 35°C). The models stay true to the Ravenheat brand by offering premium components and features for straightforward installation and servicing. However, by offering the latest in smart home heating controls, these boilers are also able to take efficient home comfort to the next level.

Both the HE80 and HE98 combis come with OpenTherm operational compatibility as standard and comes complete with the Honeywell round modulating room stat and internet gateway for connection to the Honeywell Total Connect Comfort app. This is available to Android and iOS users free of charge via the App Store and allows customers to achieve greater efficiency and comfort in their homes, plus greater control either in the house or remotely via their smartphone.

The LCD backlit feature screen enables easier visual operation for both the homeowner and installer, while boiler touch controls make it simpler to set the heating and hot water temperatures and see the system pressure.

\*OPENTHERM PACKS CONSISTS OF A ROUND STAT (WIRED OR WIRELESS OPTION), WIFI GATEWAY ALONG WITH COMFORT APP.



CONTROL HEATING FROM YOUR SMART PHONE WITH THE HONEYWELL TOTAL COMFORT APP.



# SMART SPECIFICATION

## FLUE OPTIONS

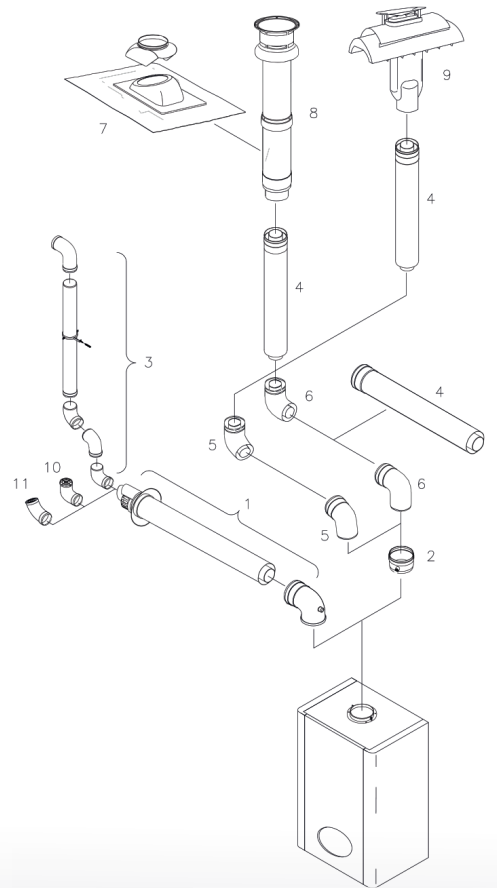


The new HE80 & HE98 can be fitted with either a 100mm standard (concentric), a 125mm flue duct or a twin (eccentric) flue duct, which can be installed either vertical or horizontal, depending on the customer's requirement.

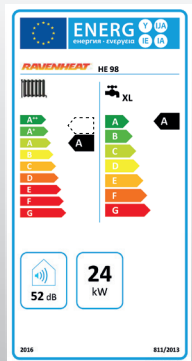
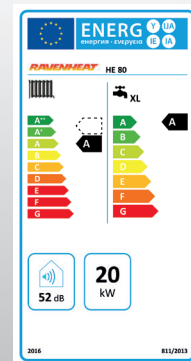
A one metre standard horizontal flue kit is supplied separately; this can extend to 8 metres if required, or 13 metres vertical (maximum without bends).

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.

Part	Description Flue 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	Combi ridge terminal kit	TER090100
10	90 Degree flue exhaust deflection bend	CUR110100
11	45 Degree flue exhaust deflection bend	CUR110050



BOILER SPECIFICATIONS	MODEL	HE80	HE98
Central Heating Max/Min Output (Adjustable Modulation)	KW	3.6 - 21.4	4.0 - 26.2
Domestic Hot Water Flow Rate Raised 30 ° CΔT Inlet Temperature 35 ° CΔT	l/min	11.9 10.2	14.0 12.0
Domestic Hot Water Max/Min Output	KW	3.6 - 25.4	4.0 - 30.0
Expansion Vessel	l	8L	8L
Maximum Central Heating Temperature	C	80	80
Installation Clearance			
Side	mm	2	2
Top	mm	125	125
Below	mm	80 - 150	80 - 150
Connection			
Heating Flow & Return Compression Gas Connection	mm	22	22
Domestic Supply (Cold) Compression	mm	15	15
Domestic Supply (Hot) Copper	mm	15	15
Condensing Pipe 3/4 Push Fit Overflow Pipe	mm	15	15
Flue Size	mm	100	100
Electrical Mains Supply		100 230V 50HZ Fused 3amp	100 230V 50HZ Fused 3amp
Nat Gas AB and A 2005/2009	%	90.3 / 88.9	90.3 / 88.9
NOx Class (lowest possible level)		5	5
OpenTherm Compatible as standard.		Yes	Yes
Weather compensator option		Yes	Yes
Noise level	Db.	52	52



# RAVENHEAT®

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