



HE 25 - 30 - 35 - 40
COMPACT

RAVENHEAT[®]

HIGH EFFICIENCY CONDENSING BOILERS

HE COMPACT EFFICIENCY AND RELIABILITY.

Built in compliance with ISO 9001 standards using high quality components. All of our boilers undergo rigorous testing before being carefully packed with the utmost care and protection.

The HE range boilers are fitted with a new single-tube stainless steel primary exchanger

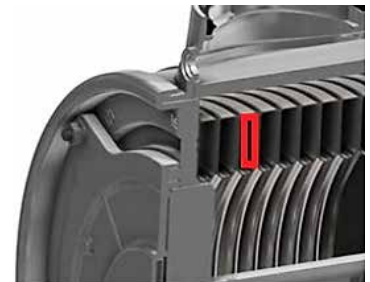
with larger water passage sections compared to market standards, thus offering low hydraulic pressure drops. The single-pipe geometry guarantees higher water speed by preventing deposits and encrustations, further facilitating the cleaning of the exchanger.

STRUCTURE



Stainless steel exchanger, formed by a single coil, with suitably sized passages, inside a silicon aluminum case.

The premix burner guarantees excellent combustion efficiency and very low NOx emissions.



Detail of the exchanger with single coil in **stainless steel**



Silicon aluminum case



Internal coil in stainless steel

HYDRAULIC UNIT



The hydraulic unit, totally in brass, guarantees reliability and durability over time.

The hydraulics is complete with:

- High Efficiency Circulator (ErP)
- 3-way diverter valve
- Ring road
- Loading group
- Sanitary NTC probe
- Sanitary flowmeter

ELECTRONICS



Thanks to intelligent electronics and programmable functions, it is possible to easily adapt the operation of the boiler to the actual needs of the user. By connecting an external probe, climatic thermoregulation operation is obtained during which the delivery temperature to the system is adjusted according to the external air temperature, guaranteeing absolute comfort by optimizing management costs. The boiler is also equipped with an anti-freeze function. The intuitive control panel and the display on which the temperatures and operating status of the boiler appear allow the end user to easily manage and program.

ACCESSORIES AVAILABLE



Remote control
(choice among the
proposed models)



External probe



Connection
protection box

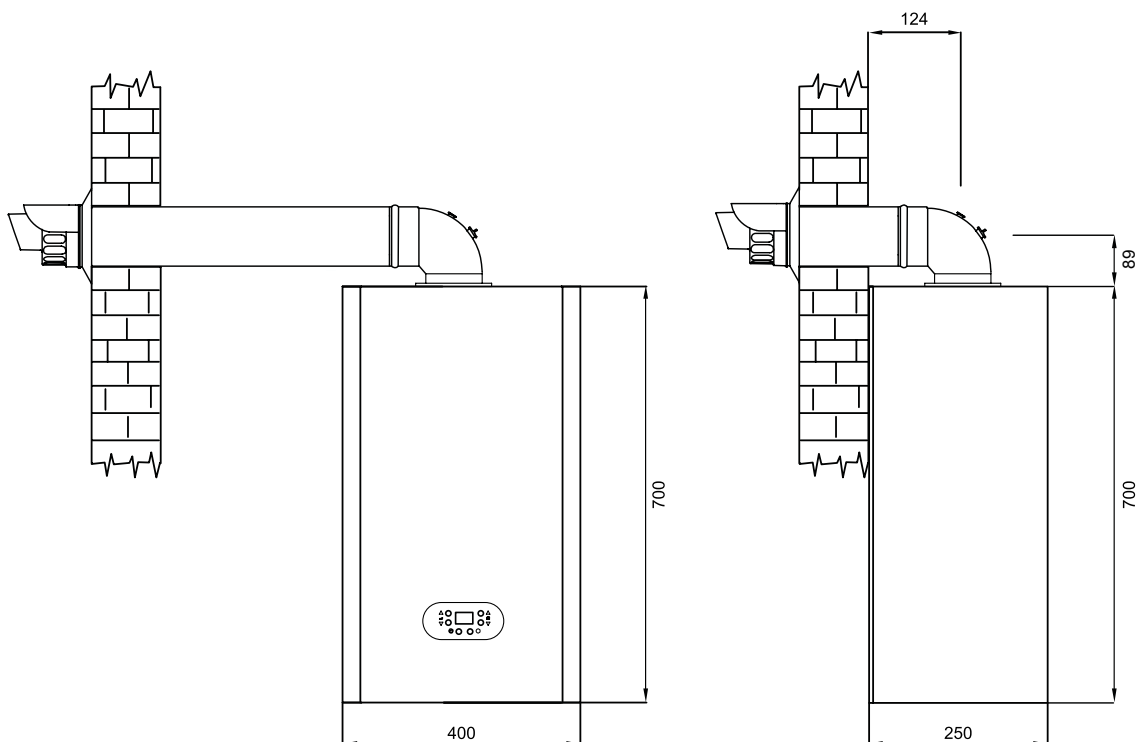


Zone
management
card

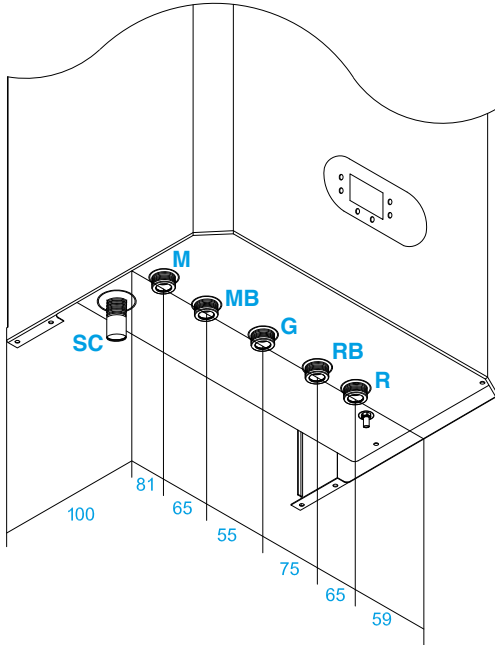


Built-in
compartment
kit

MEASUREMENTS AND DIMENSIONS

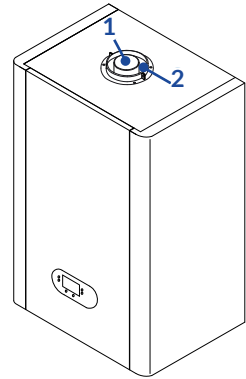


POSITION OF CONNECTIONS



Legenda

- 1 Drain
- 2 Aspiration
- G Gas (3/4")
- R Heating return (3/4")
- M Heating delivery (3/4")
- C Domestic hot water inlet (1/2")
- F Domestic cold water inlet (1/2")
- CI System load
- SC Condensate drain

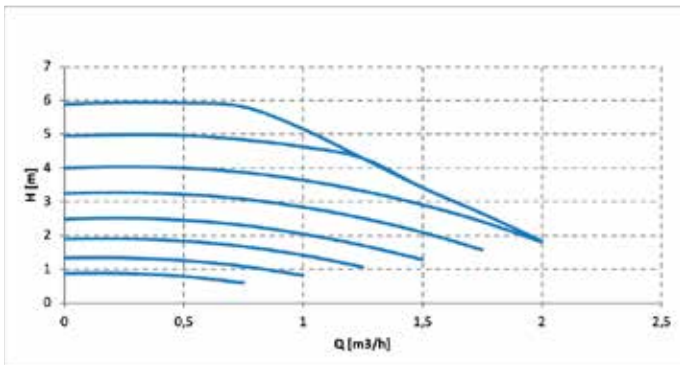


Position of the horizontal section of the exhaust pipes of the combustion products for concentric chimneys 60/100.

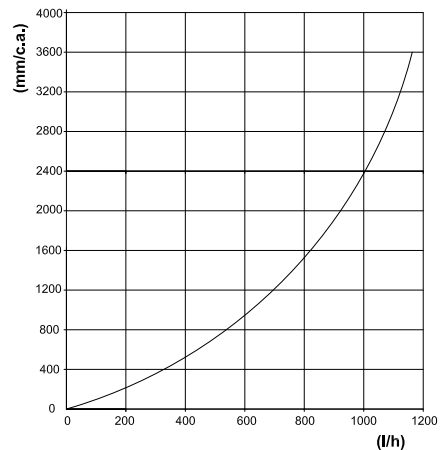
CIRCULATOR

The HE 25-30-35-40 boilers are equipped with a variable speed circulator which automatically allows to maintain an optimal temperature difference between the delivery on the basis of the power supplied by the boiler. The modulating circulator function is active only in the heating function.

PREVALENCE CURVES



WATER PRESSURE/FLOW



Note: The curves shown refer to the head available in the system and are net of the pressure drops of the boiler's internal circuits.

		HE 25 C	HE 30 C	HE 35 C	HE 40 C	
	Symbol	u.m.	Value			
Maximum heating heat input	kW		21	25,0	34,9	39,0
Maximum DHW heat input	kW		25,5	31,0	34,9	39,0
Minimum heat input	kW		3,7	4,0	4,0	4,0
Efficiency at 100% Pn (80/60°C)	%		97	97,1	97,2	96,2
Efficiency at 100% Pn (50/30°C)	%		105,1	105,5	105,2	103,5
Efficiency at 30% Pn (50/30°C)	%		107,7	107,8	109,2	108,5
Water heating: declared load profile			XL	XL	XL	XL
Space heating: seasonal energy efficiency class			A	A	A	A
Water heating: energy efficiency class			A	A	A	A
Class Nox			6 (24,40 mg/kWh)	6 (36,06 mg/kWh)	6 (25,23 mg/kWh)	6 (27 mg/kWh)
Sound power level	L _{WA}	dB	50,5	52	52	52
Electrical protection index			IP X4 D	IP X4 D	IP X4 D	IP X4 D
Minimum/maximum water pressure		bar	0.5 / 2.5			
C.H. high temperature range		°C	25 / 80			
C.H. low temperature range		°C	25 / 60			
Sanitary water flow rate with Δt di 30°C	l/min		11,9	14	16,7	18,6
Minimum water flow		l/min	1,5			
Gas connection			3/4"			
System water outlet fitting			3/4"			
System return fitting			3/4"			
Sanitary water inlet connection			1/2"			
Sanitary water outlet fitting			1/2"			
Device type			C13 - C33 - C53 - C63 - C83			
Maximum length of flue pipes (60/100)	m		8	8	8	8
Maximum length of flue pipes (80/125)	m		23	23	23	23
Maximum length of flue pipes (80/80)	m		43	43	43	43
Empty boiler weight	kg		31	31	32	33
Dimension	mm		400 x 700 x 250	400 x 700 x 250	400 x 700 x 250	400 x 700 x 250

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AR Riscaldamento S.p.A.

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