



GREEN EVO
GREEN EVO RAIN
CONDENSING BOILERS

SERIES GREEN EVO CONDENSING BOILERS



GREEN EVO Essentially technological.

THE TECHNOLOGY OF CONDENSATION

Green Evo condensing boilers offer excellent comfort in both heating and domestic hot water production. The condensation technology allows you to recover part of the heat that is normally dispersed in the fumes, significantly increasing the overall efficiency of the system.



Detail of the exchanger with single coil in stainless steel



THE HEART OF THE SYSTEM

The heart of the system is a stainless steel exchanger, formed by a single spiral, with suitably sized passages, inside a silicon aluminum case. The premix burner guarantees excellent combustion efficiency and very low NOx emissions. A large modulation ratio allows you to adapt the boiler

power to the actual needs of the system. To change the type of gas, transformations with diaphragms or particular gas nozzles are not necessary, but everything takes place through the modification of a single parameter on the electronic board.



Silicon aluminum case



Internal stainless steel coil



ELECTRONIC MANAGEMENT

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 temperature delivered to the system is adjusted according to the temperature of the external air, guaranteeing absolute comfort by optimizing management costs.

The boiler is also equipped with an anti-freeze function. The intuitive control panel and the display showing the temperatures and the operating status of the boiler allow the end user to easily manage and program. Furthermore, for greater comfort it is possible to integrate the zone control module with the boiler, which allows to manage, via remote commands or on / off contacts, 2 different zones of the house.



DESIGN AND COMPACTNESS

Green Evo was created to better adapt to the home environment. Clean lines and extremely compact dimensions (400x700x250) allow it to be installed even in confined spaces. An open-therm remote control is also available which allows the boiler to be controlled in any con-

dition installation. The casing that covers the boiler, protruding in the lower part, was designed to hide the pipes connecting the system from view, with an impeccable aesthetic result. The depth of only 250 mm allows it to be installed even in a recessed niche in the wall.



Hydraulic connections cover.

Thanks to the use of the optional casing it is possible to cover any components add-ons such as poly-pho-

sphate dispensers and magnetic dirt separator, ensuring an optimal aesthetic result.

GREEN EVO IN WALL

All versions are also available in a built-in version.

Created for professional installations integrated into the facade, it is the ideal product to solve problems of aesthetics and space.

The recessed frame in galvanized steel can be supplied painted and coated so as to be completely integrated with the wall that houses the boiler.



RECOMMENDED ACCESSORY

REMOTE CONTROL
Code 202.02.07

Remote control that allows you to adjust the room, sanitary and heating temperatures and to program both temperatures and operating times. The display indicates anomalies.



SERIES GREEN EVO RAIN

CONDENSING BOILERS



THE TECHNOLOGY OF CONDENSATION

Green Evo Rain is the ideal solution for outdoor installations.

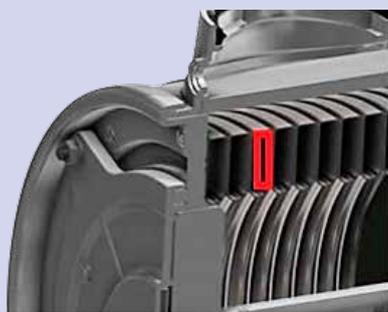
The technical performance characteristics remain the same as their sister Green Evo, continuing to offer excellent comfort both in heating and in the production of domestic hot water. The mantle is designed for the outside using an insulated paneling in brushed 304 stainless steel with scotch-brite treatment for better resistance to atmospheric agents; to complete the rain-driving protection we find an upper closure in painted stainless steel. Green Evo Rain is suitably equipped with an anti-freeze system which allows it to be activa-

ted automatically the circulator or, secondarily, the burner upon reaching temperatures close to zero in order to protect the boiler from any freezing. Thanks to the Opentherm remote control (Easy Remote Control) in energy class V it is possible to manage all the functions of the heating unit from inside your home (this accessory must be ordered separately). The combination with the external probe (optional accessory) performance as the temperature of the system adjust automatically based on the external temperature allowing for significant savings.

THE HEART OF THE SYSTEM

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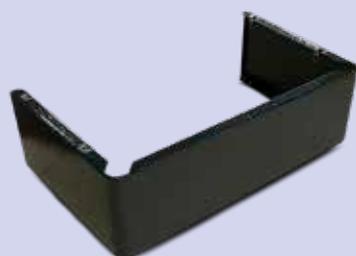


Particolare dello scambiatore con monoserpentina in acciaio inox

DESIGN AND COMPACTNESS

Green Evo Rain was created to adapt to installations outside the home. The simple and linear design is enhanced by the use of a noble material such as stainless steel. The dimensions extremely compact (400x712x250) allow installation

in confined or limited spaces that covers the boilerThe casing (as for Green Evo series) protrudes in the lower part so as to conceal the system supply pipes ensuring an impeccable aesthetic result.



Thanks to the use of the casing, it is possible to cover any additional components such as polyphosphate dispenser and magnetic dirt separator, ensuring an optimal aesthetic result.



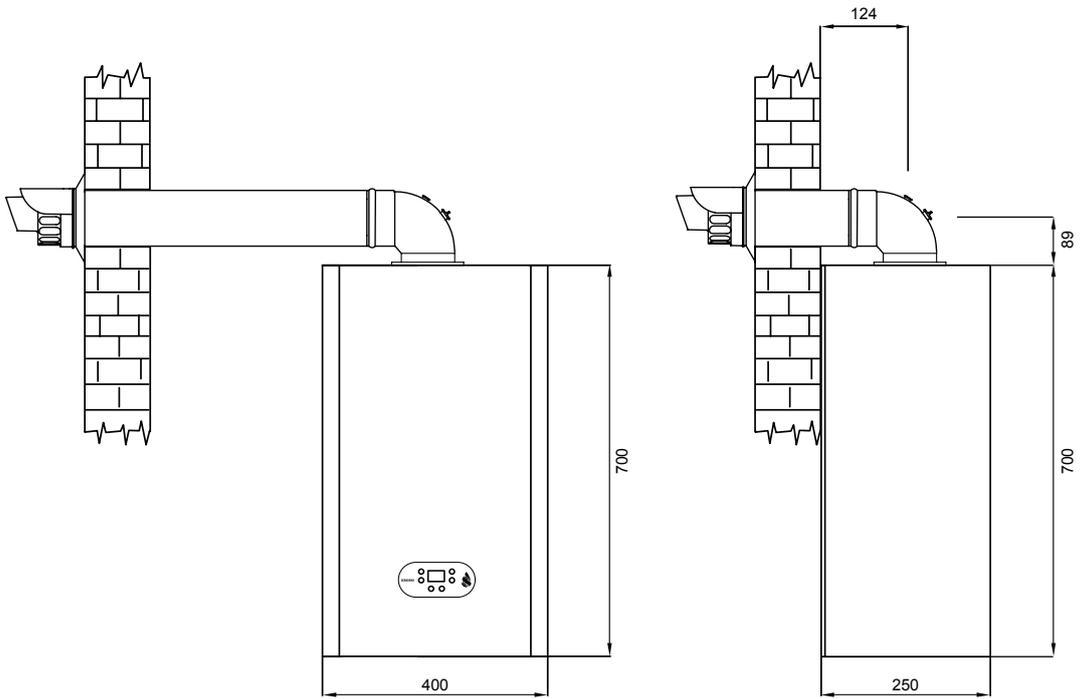
OBLIGATORY ACCESSORY

REMOTE CONTROL
Code 202.02.07

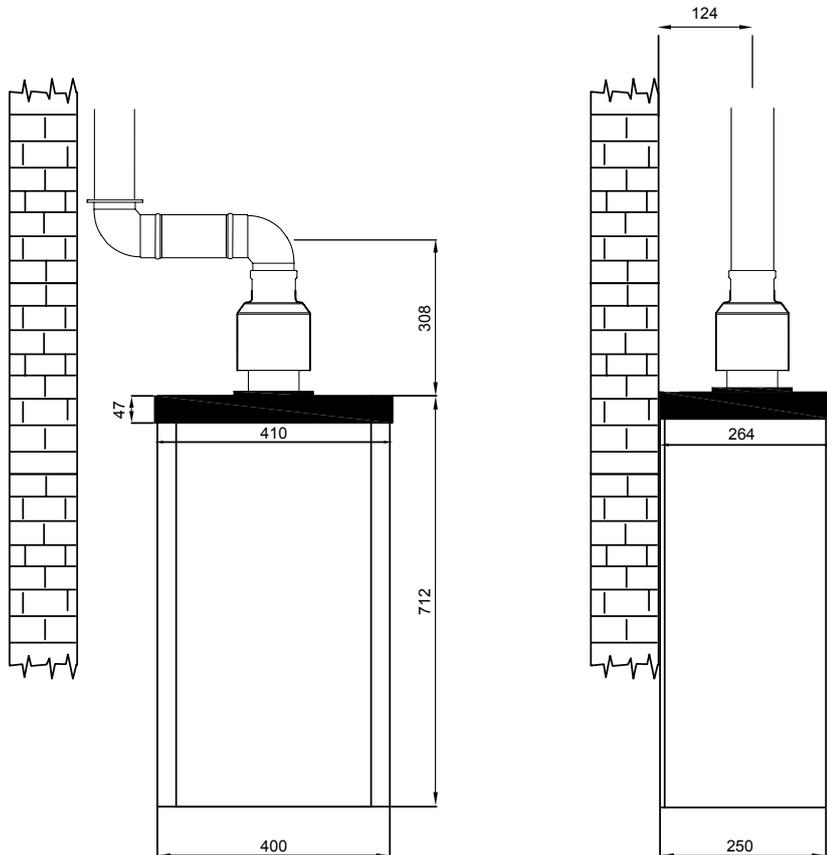
GREEN EVO E GREEN EVO RAIN 25-30-35-40

GREEN EVO			25	30	35	40			
Code			met. 920.11.30	met. 920.11.31	met. 920.11.35	met. 920.11.40			
			gpl 920.21.30	gpl 920.21.31	gpl 920.21.35	gpl 920.21.40			
GREEN EVO M			25M	30M	-	-			
Code			met. 920.11.30M	met. 920.11.31M	-	-			
			gpl 920.21.30M	gpl 920.21.31M	-	-			
Product details (ErP)		Symbol	unit	Value	Value	Value	Value		
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		
Nominal heat output		P _{nominate}	kW	21,0	25,0	34,9	39,0		
Space heating: annual energy consumption		Q _{HE}	GJ	43,2	51,5	59,5	68,1		
Water heating: annual energy consumption		A _{FC}	GJ	17,3	17,4	17,6	17,6		
Space heating: seasonal energy efficiency (GCV)		η _s	%	91,7	92	93,2	92,3		
Water heating: energy efficiency (GVC)		η _{wh}	%	85	84,86	83,6	83,65		
Sound power level		L _{WA}	dB	50,5	52	52	52		
Technical data			unit						
Destination			ES - GB - IE - IT - PT - GR - SE - NO - CH - HR - CZ - SK - LV - BG - RO - BA - PL - FR						
Category			II2H3P / II2EP3 - II2HM3P / II2E+3P						
Appliance type			C13 - C33 - C53 - C63 - C83						
Nox			6 (24,40 mg/kWh)	6 (36,06 mg/kWh)	6 (25,23 mg/kWh)	6 (27 mg/kWh)			
Maximum heating heat output			kW	21	25,0	34,9	39,0		
Maximum sanitary heat output			kW	25,5	31,0	34,9	39,0		
Minimum nominal heat input			kW	3,7	4,0	4,0	4,0		
Maximum useful power heating			kW	20,4	24,3	34,0	38		
Maximum sanitary useful power			kW	24,7	30,1	34,0	38		
Minimum useful power			kW	3,5	3,7	3,6	3,6		
Efficiency to 100% Pn (80/60°C)			%	97	97,1	97,2	96,2		
Efficiency to 100% Pn (50/30°C)			%	105,1	105,5	105,2	103,5		
Efficiency to 30% Pn (50/30°C)			%	107,7	107,8	109,2	108,5		
Maximum / minimum gas consumption			m ³ /h	max G20 2,2 min. G20 0,4	max G31 0,9 min. G31 0,4	max G20 2,6 min. G20 0,4	max G31 1,4 min. G31 0,16	max G20 4,2 min. G20 0,4	max G31 1,4 min. G31 0,16
Inlet gas pressure			mbar	G20 20	G31 37	G20 20	G31 37	G20 20	G31 37
Fan speed (min ÷ max)			rpm	G20 1200 - 5200	G31 1200 - 5000	G20 1200 - 5400	G31 1200 - 5200	G20 1200 - 7300	G31 1200 - 7100
CO ₂				G20 9.0 (+0,5/-0,5) - G31 10,5 (+0,5/-0,5)					
Electrical data			unit						
Power supply			V / Hz	230 V / 50 HZ					
Printed circuit fuse				F1= 3.15 A (20 mm to BS 4265)					
IP protection				IP X4 D	IP X4 D	IP X4 D	IP X4 D		
Heating			unit						
Minimum / maximum water pressure			bar	0.5 / 2.5					
Expansion vessel capacity			lt	8	8	10	10		
Minimum / maximum water temperatures			°C	25 / 80					
Domestic hot water			unit						
Domestic water flow Δt di 30°C			l/min	11,9	M 12,6	14	M 15,4	16,7	18,6
Domestic water flow Δt di 35°C			l/min	10,2	M 10,7	12	M 13,1	14,3	15,4
Domestic water flow Δt di 40°C			l/min	8,9	M 9,3	10,5	M 11,3	12,5	13,4
Minimum / maximum water temperatures			°C	25 / 60					
Minimum / maximum water pressure			bar	0.8 / 10					
Minimum water flow			l/min	1,5					
Minimum / maximum fan speed			rpm	G20 1200 - 6200	G31 1200 - 6000	G20 1200 - 6600	G31 1200 - 6400	G20 1200 - 7300	G31 1200 - 7100
				G20 1200 - 8300	G31 1200 - 8100	G20 1200 - 8300	G31 1200 - 8100	G20 1200 - 8300	G31 1200 - 8100
Flue and hydraulic connection			unit						
Gas connection				3/4"					
Water flow connection				3/4"					
Water return connection				3/4"					
DHW water inlet				1/2"					
Condensate drain				1/2"					
Scarico condensa				Tubo flessibile Ø 25 mm est.					
Coaxial pipe diameter			mm	100/60					
Minimum / maximum length of coaxial exhaust system			m	Vedi manuale					
Separate intake and exhaust pipe diameter			mm	80					
Minimum / maximum length of separate exhaust system			m	Vedi manuale					
Dimension data			unit						
Empty boiler weight			kg	31	31	32	33		
Width x Height x Depth			mm	400 x 700 x 250	400 x 700 x 250	400 x 700 x 250	400 x 700 x 250		

GREEN EVO DIMENSIONS

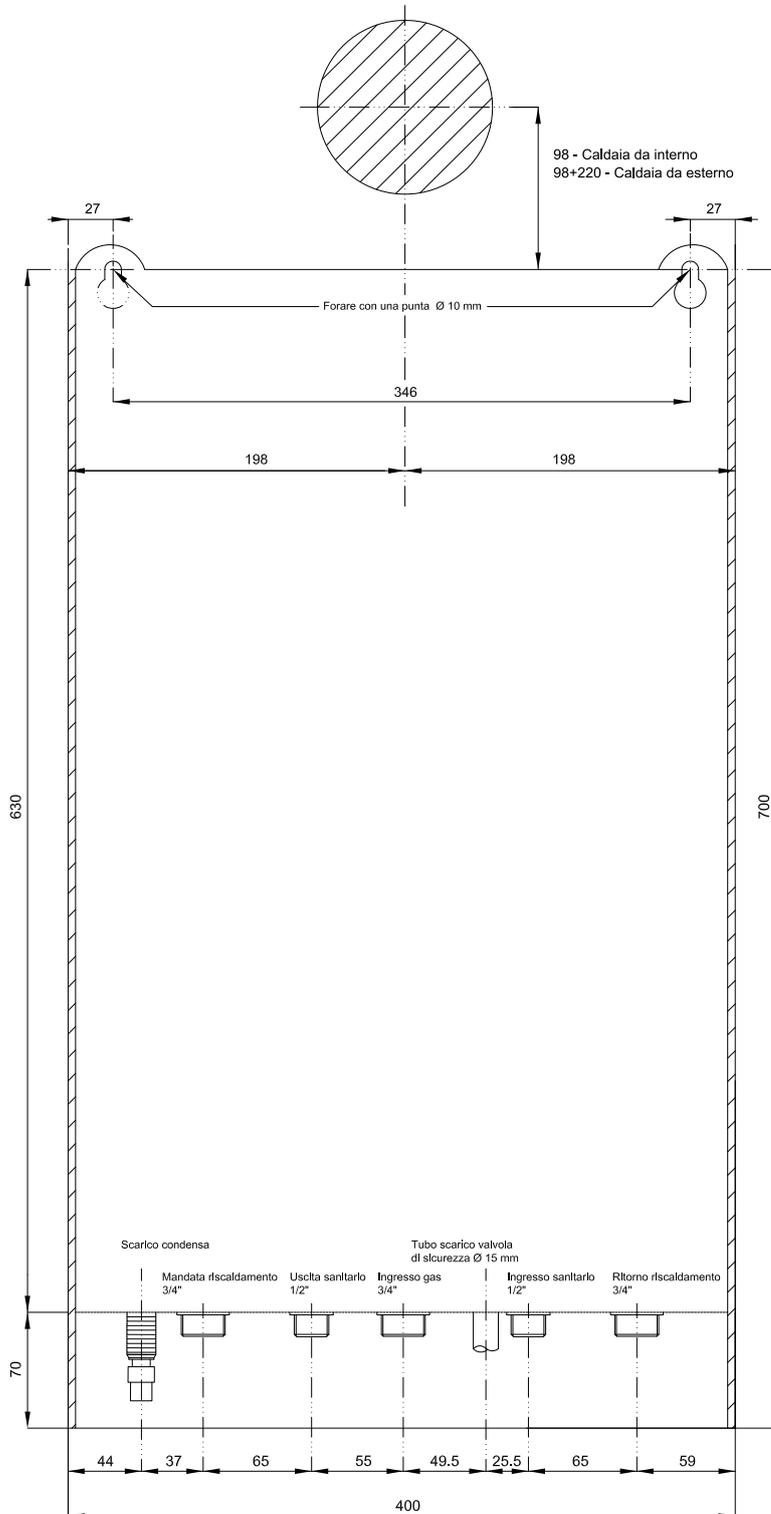


GREEN EVO RAIN DIMENSIONS

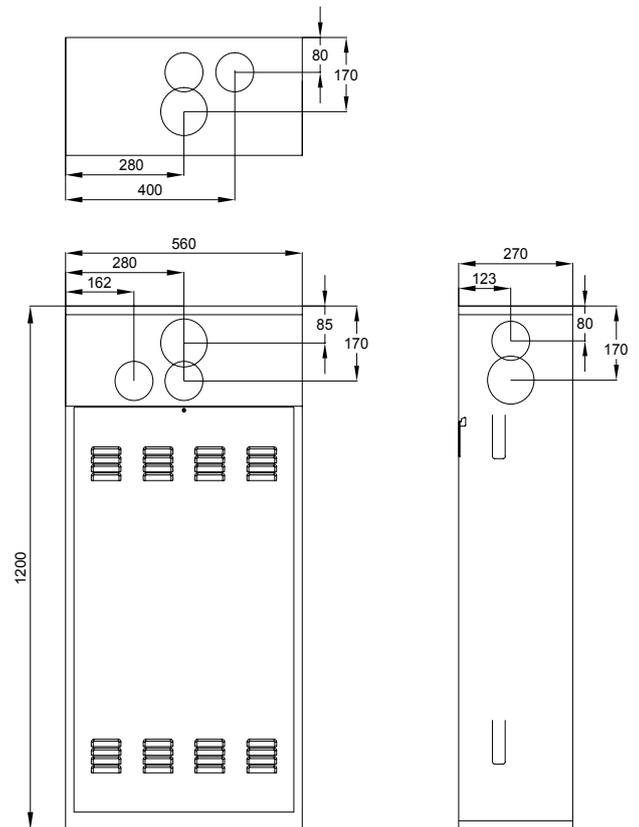




MINIMUM CLEARANCES REQUIRED GREEN EVO / GREEN EVO RAIN



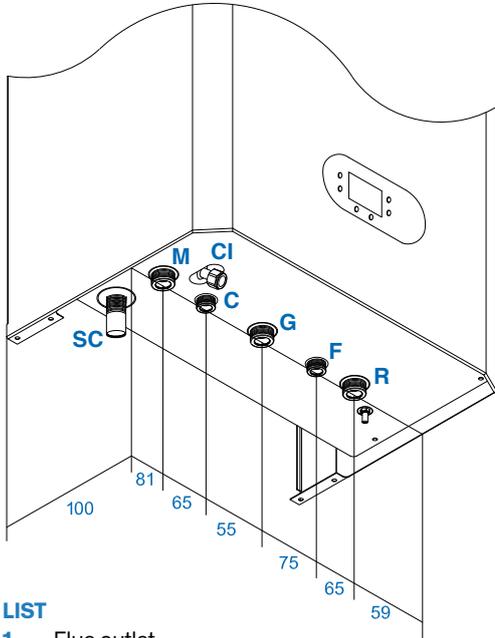
Built-in boilers in wall



CONNECTIONS POSITIONS

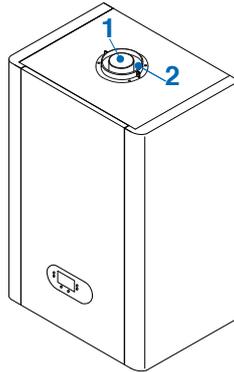
COMBI BOILERS

GREEN EVO E GREEN EVO RAIN 25-30-35-40



LIST

- 1** Flue outlet
- 2** Air inlet
- G** Gas (3/4")
- R** System return (3/4")
- M** System flow (3/4")
- C** DHW outlet (1/2")
- F** DHW inlet (1/2")
- CI** System load
- SC** Condensate drain

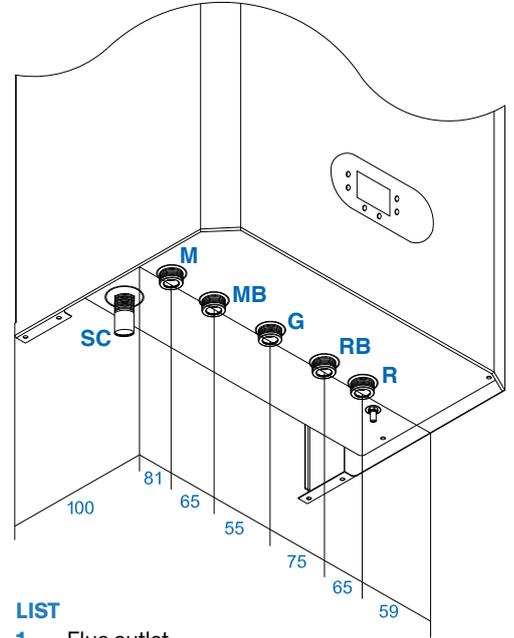


Position of the horizontal section of the exhaust pipes of the combustion products for concentric chimneys 60/100.

FOR EXTERNAL TANK

GREEN EVO AND GREEN EVO RAIN 30B

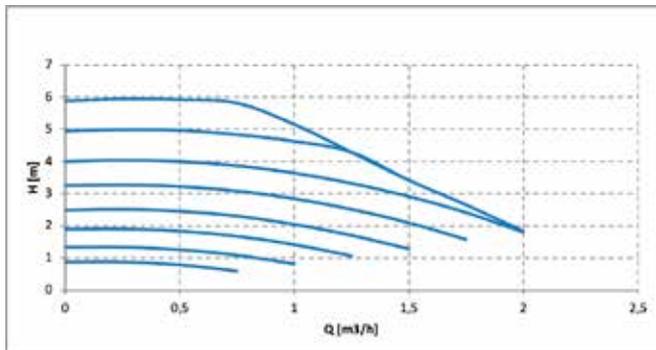
Supplied with diverter valve already incorporated in the hydraulic unit and boiler probe supplied.



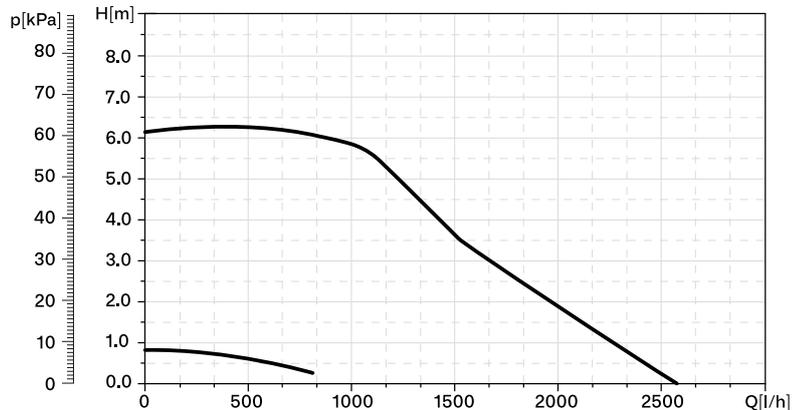
LIST

- 1** Flue outlet
- 2** Air inlet
- G** Gas (3/4")
- R** System return (3/4")
- M** System flow (3/4")
- MB** Flow boiler (3/4")
- RB** Return boiler (3/4")
- SC** Condensate drain

AVAILABLE PUMP HEAD GRUNDFOS



AVAILABLE PUMP HEAD TACO



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

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