

Evinox

Floor-mounted stainless steel medium and large capacity condensing boiler



EVINOX
HEATING

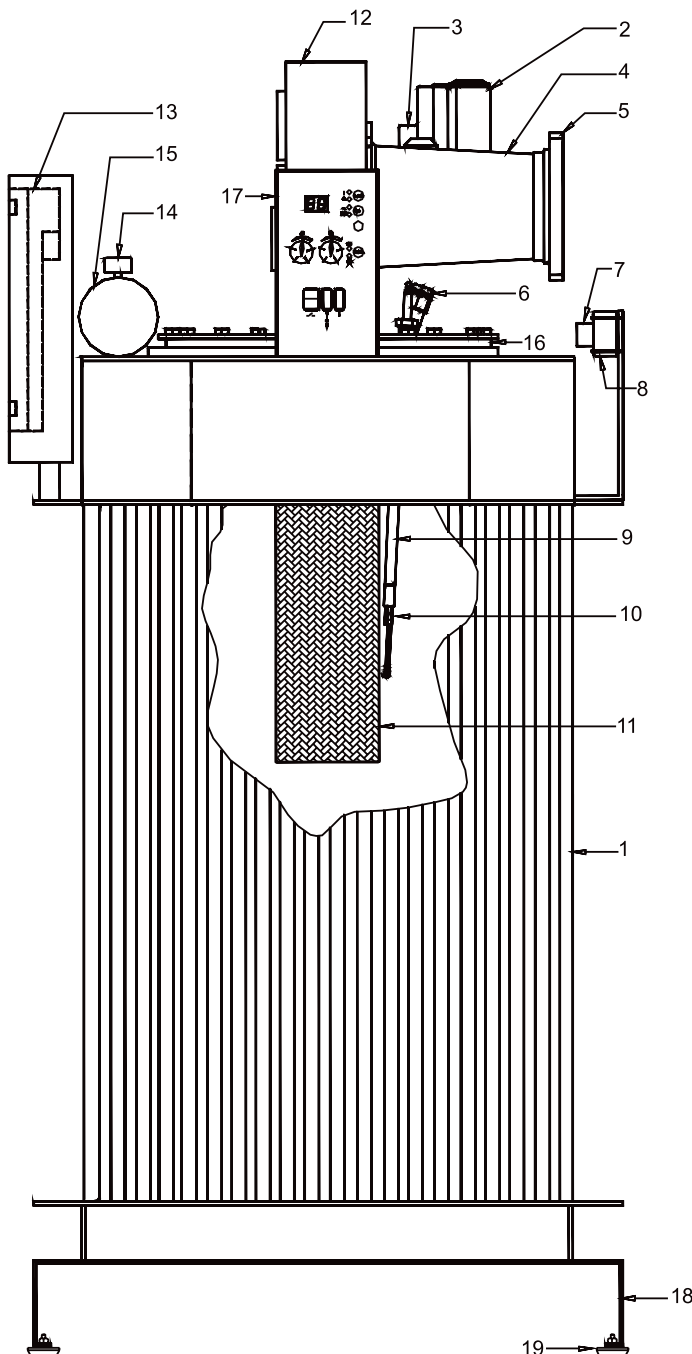
Description

Technologically advanced boilers for medium and large capacity installations, an ideal solution to increase energy efficiency using the condensing process: versatility of operation is guaranteed under all conditions of use because of the continuous modulation process provided by highly-efficient gas premixed burners. The special combustion chamber and excellent burners guarantee reduced pollutant emissions (NO_x and CO) and are extremely environmentally-friendly in accordance with the strictest European Regulations. The compact monobloc structure, made entirely of AISI 316L steel, means that the overall dimensions are considerably

reduced, facilitating installation operations and freeing up space within the building.

Evinox boilers are suitable for coupling together in a multiple system, offering flexibility and reliability. All functional aspects, from the operational controls to the distribution of the individual circuits to a thermal cascade with several boilers, have been made extremely simple by flexible, reliable electronics based on the Eutronic common protocol, and optional remote control using telematics is available.

Schematic Section

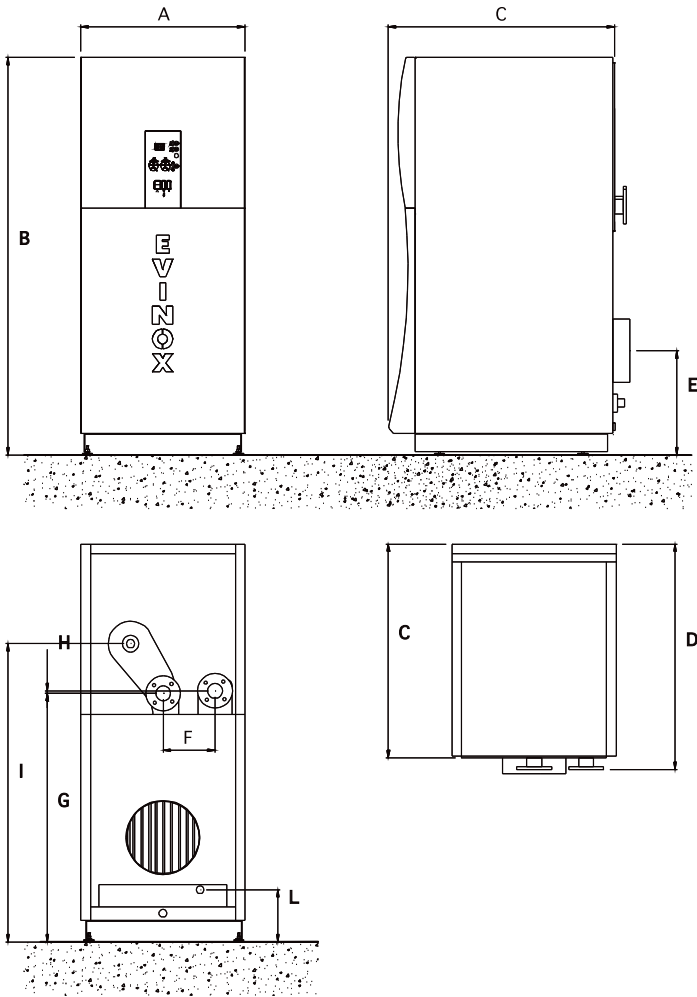


Principal characteristics

- 6 different models, covering a range of heat output capacities from 35.6 to 484.7 kW
- Highly energy-efficient modules (up to 108%), **** category in accordance with European Directive 92/42/EEC
- Significantly reduced heat output modulation (up to 22%) with an external sensor for climate control
- Extremely compact structure, fully assembled and insulated with easily-reachable rear hydraulic connections
- Efficient output/area occupied ratio (484 kW in less than 0.7 m²)
- Stainless steel premixed methane gas burner with low pollutant emissions
- Microprocessor-controlled electronic regulation, direct/mixed activation of heating circuits using dedicated modules (optional Clip-ins or RVA regulators)
- Remote management option using a remote control unit from the Eutronic range (optional)

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|-----------------------------------|--------------------------------|
| 1. Boiler body | 10. Ignition electrode |
| 2. 230V gas valve | 11. Mesh burner |
| 3. Minimum gas pressure regulator | 12. 230V fan |
| 4. Venturi | 13. LMU |
| 5. Air filter | 14. Digital pressure gauge |
| 6. Flame inspection hole | 15. Outlet manifold |
| 7. Air pressure regulator | 16. Burner gasket |
| 8. Ignition transformer | 17. Control panel |
| 9. Ionisation electrode | 18. Support base |
| | 19. Anti-vibration stabilisers |

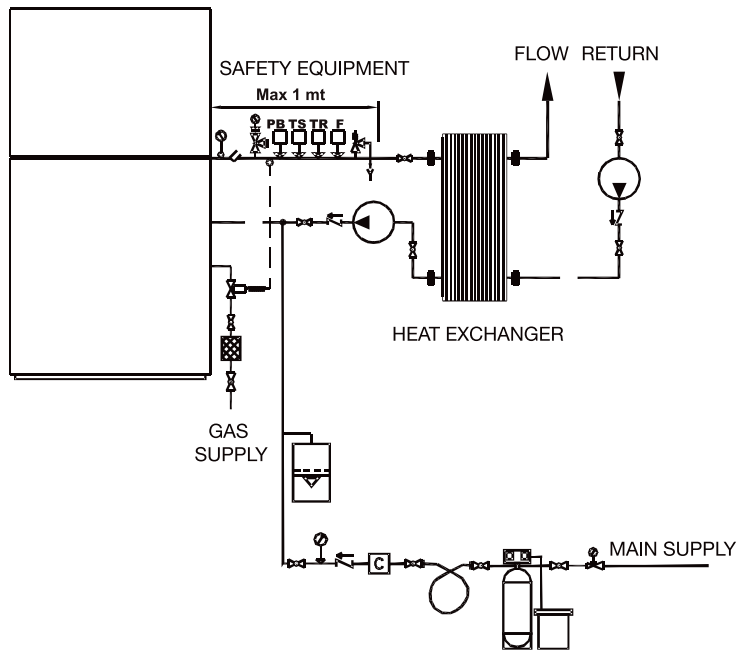
Dimensions



	Mod.	210-A62	240-A97	295-B42	350-B95	435-C55	550-D40
A	mm	660	660	660	810	810	810
A*	mm	560	560	560	710	710	710
B	mm	1600	1600	1600	1600	1600	1600
B*	mm	1300	1300	1300	1300	1410	1410
C	mm	910	910	910	910	910	910
C*	mm	780	820	850	865	890	890
D	mm	970	970	970	990	990	990
E	mm	420	420	420	460	460	460
F	mm	210	230	230	300	300	300
G	mm	1000	1000	1000	980	980	980
H	mm	10	10	10	30	30	30
I	mm	1200	1200	1200	1280	1280	1280
L	mm	210	210	210	210	210	210

* Minimum overall measurements: useful measurements of boiler (without base and panelling)

System Installation



Technical Characteristics

			210-A62	240-A97	295-B42	350-B95	435-C55	550-D40	
EC approval number			1312BQ4281					1312BQ4282	
Category			II _{2H3P}						
Heat rating	30/50°C	kW	39.5/179.6	48.0/218.4	58.6/266.5	71.4/324.6	86.4/392.3	106.6/484.7	
	60/80°C	kW	35.6/161.8	43.4/197.5	53.0/241.0	64.7/294.3	78.0/354.5	96.8/440.3	
Heat input		kW	36.5/166.0	44.5/202.2	54.2/246.5	66.1/300.5	79.5/361.2	98.7/448.8	
Net heating value (NHV)	30/50°C	%	108.2	108.0	108.1	108.0	108.6	108.0	
	60/80°C	%	97.5	97.7	97.8	98.0	98.1	98.1	
Gross heating value (GHV)	30/50°C	%	97.7	97.5	97.6	97.5	98.0	97.5	
	60/80°C	%	87.7	87.9	88.0	88.1	88.3	88.3	
Yield at 30% (Pn) 92/42		%	105.2	105.0	105.0	105.0	105.6	105.0	
Heat loss at mantle Pd		%	1.1	1.1	1.1	0.8	0.8	0.9	
Flue gas loss with burner lit Pf (Pn max)		%	1.4	1.2	1.1	1.2	1.1	1.0	
Flue gas loss with burner out Pfb		%	< 0.1						
Natural Gas	Gas flow Maximum output	m ³ /h	15.4	18.8	22.9	27.9	33.6	41.7	
	Gas flow Minimum output	m ³ /h	4.6	5.6	6.9	8.4	10.1	12.5	
	Gas pressure (min. – max.)	mbar	20 (15 ÷ 45)						
Propane Gas	Gas flow Maximum output	m ³ /h	6.8	8.3	10.1	12.3	14.8	18.4	
	Gas flow Minimum output	m ³ /h	2.0	2.5	3.0	3.7	4.4	5.5	
	Gas pressure (min. – max.)	mbar	37 (25 ÷ 45)						
Water flow rate	ΔT = 7°C	m ³ /h	19.9	24.3	29.6	36.2	43.6	54.1	
	ΔT = 10°C	m ³ /h	13.9	17.0	20.7	25.3	30.5	37.9	
	ΔT = 12°C	m ³ /h	11.6	14.2	17.3	21.1	25.4	31.6	
Maximum temperature of combustion products		°C	70						
Maximum temperature of heating circuit		°C	80						
Maximum temperature of domestic hot water		°C	65						
Boiler operating pressure	min/max	bar	1.5						
Boiler test pressure		bar	7.5						
NO _x emissions		mg/kWh	20						
Class of NO _x (according to EN483)			5						
CO emissions		mg/kWh	62						
Boiler water content		l	60	71		95		115	
Weight when empty		Kg	~295	~330	~350	~440	~445	~490	
Electrical power consumption min/max		W	46/124	46/129	46/145	48/230	35/460	69/768	
Flue exhaust outlet		mm	250	300	300	350	350	350	
Flue output (max)		m ³ /h	326	397	484	590	709	881	
Boiler water connection flanges			DN 50 – PN6			DN 65 – PN6			
Boiler gas connection			1" ₁₄			1" ₁₂			
Methane gas pressure (G20) at intake		mbar	Min 12/max 45						
Condensate		l/h	15.8	17.5	21.5	31.0	34.5	38.7	
Star marking			★★★★						
Electrical power supply			230V – 50Hz						

Options:

- Multi-zone controls
- Boiler headers
- Flue headers

Warranty:

5-years on the boiler shell, 5-years on the burner and 2-years on all other parts. * Replacement spares carry a 2-year warranty.

*Subject to our standard terms and conditions.



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