

# Eurocondense five

## Floor-standing boiler

Manufactured to the latest ISO standards, the Eurocondense five uses tried and tested technology to provide efficient heating for buildings of all sizes. A range of controls are available, for easy integration with new or existing heating systems.



### Features

Wide range of outputs:

**Single boiler:** 125, 170, 215, 260, 300, 400, 470, 540, 610kW

**Duo cascade kit:** 430, 520, 600, 800, 940, 1080, 1220kW

Lightweight aluminium heat exchanger

Gross seasonal efficiency up to 97%

Modulation ratio up to 6:1

Top mounted hydraulic and flue connections

Compact dimensions and small footprint

Built in boiler control

Controls can be programmed to work with solar thermal, biomass and buffer tanks

Supplied with LMS 14 (with Modbus Interface)

### Benefits

Suitable for a wide range of commercial applications

For reliable, highly efficient heat transfer

Reduced energy consumption by making maximum use of energy used

Wide modulation ratio reduces constant on/off cycling to improve efficiency, boiler longevity and running costs

Easier to connect and less space needed for working access

Requires less space for installation

User friendly control panel includes operation status, weather compensation, timer for heating and DHW, fault diagnostics and, where relevant, cascade operation

Sustainable, energy efficient, solution for a wide range of applications

For connection to Building Management Systems via BACnet or Modbus

## Specification

Performance	Fuel Type		EC five 125	EC five 170	EC five 215	EC five 260	EC five 300
Output @ 80 / 60°C	NG	kW	121.6	165.8	210.1	254.5	294.3
Output @ 50 / 30°C	NG	kW	133.1	181.3	229.6	278.1	322.1
Input (net) maximum	NG	kW	125	170	215	260	300
Output @ 80 / 60°C	LPG	kW	121.6	165.9	210.2	254.8	294.4
Output @ 50 / 30°C	LPG	kW	133.1	181.5	229.8	278.5	321.7
Input (net) maximum	LPG	kW	125	170	215	260	300
Efficiency	Value (%)						
Efficiency @ 50 / 30°C – 100% load	% gross		95.95	96.08	96.23	96.36	96.74
Efficiency @ 50 / 30°C – 30% load	% gross		97.4	97.5	97.4	97.5	97.4
Current building regulations – Part L2 seasonal efficiency*	% gross		96.5	96.6	96.7	96.8	97
Gas							
Gas consumption (natural gas)**	m <sup>3</sup> /h		13.2	18	22.8	27.5	31.7
Gas consumption (LPG)***	kg/h		9.7	13.2	16.7	20.2	23.3
Inlet gas pressure (natural gas-G20)	mbar				18-25		
Inlet gas pressure (LPG-G31)	mbar				25-45		
Gas connection size	inches		1	1½	1½	1½	1½
Gas connection type	threads				Male threads		
Flue							
Flue gas volume @ 80 / 60°C (NG)	kg/h		203	278	351	425	490
Flue gas volume @ 80 / 60°C (LPG)	kg/h		149.1	202.9	256.5	310.3	358
Max flue gas pressure @ outlet	Pa		100	100	100	100	100
Hydraulic							
Water flow rate @ 11°C ΔT	l/s		2.64	3.6	4.6	5.5	6.4
Water flow rate @ 20°C ΔT	l/s		1.49	2.03	2.57	3.11	3.58
Hydraulic resistance @ 11°C ΔT	kPa		9	11	12.1	12.7	12.9
Hydraulic resistance @ 20°C ΔT	kPa		2.8	3.4	3.7	3.9	4
Water content	litres		29	34	38	45	53
Flow & return connection size	mm				DN65 PN6		
Flow & return connection type					Flange		
Flue connection size	mm		160	160	200	200	200
Max boiler operating pressure	bar				6		
Min boiler operating pressure	bar				1		
Maximum flow temperature	°C				90		
General							
Appliance dry weight	kg		205	240	285	314	344
NO <sub>x</sub> level (dry @ 0% O <sub>2</sub> ) EN15502	mg/kWh		38	38	39	39	39
CO <sub>2</sub> content – natural gas	%				9.3		
CO <sub>2</sub> content – LPG	%				11		
Sound pressure level LPA @ 1 metre from unit	dB(A)		51	51	52	53	54
(Min) High level ventilation (BS 6644)****	cm <sup>2</sup>		250	340	430	520	600
(Min) Low level ventilation (BS 6644)****	cm <sup>2</sup>		500	680	860	1040	1200
Electrical							
Power consumption	W		170	200	330	350	410
Nominal supply voltage	V / Hz				230 V~ / 50 Hz	Max 6.3A	

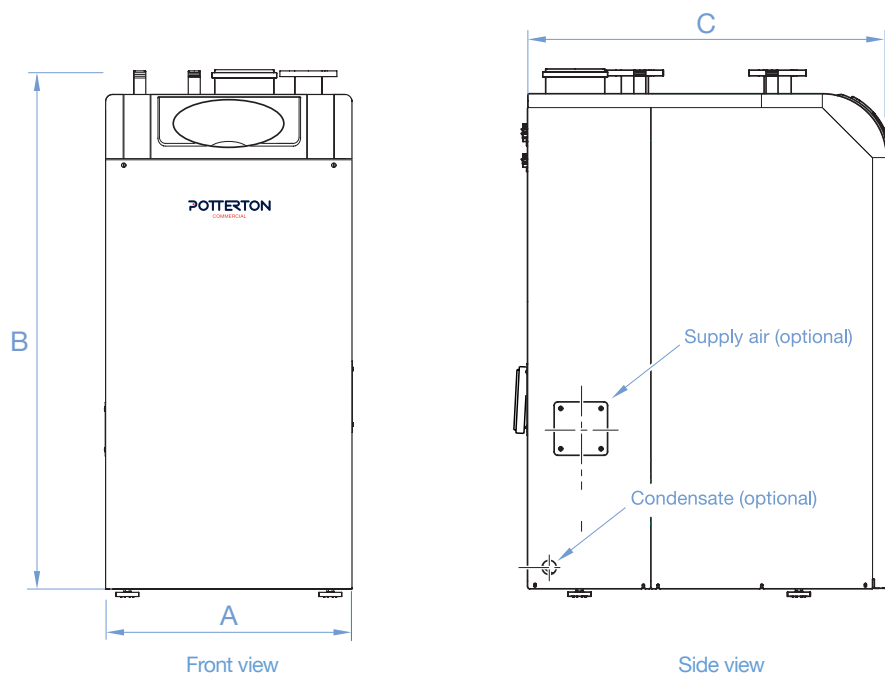
\*Calculated using 50/30 figures \*\* Based on Net CV of 9.45 kW/m<sup>3</sup> \*\*\* Based on CV of 12.87 kW/kg

\*\*\*\* Ventilation based on Minimum requirements based on conventional flue installed within a plantroom



## Dimensions

### Eurocondense five 125-610kW



			EC five 125	EC five 170	EC five 215	EC five 260	EC five 300	EC five 400	EC five 470	EC five 540	EC five 610
Dimension A	Width	mm	692	692	692	692	692	762	762	762	762
Dimension B	Height	mm	1459	1459	1459	1459	1459	1526	1526	1526	1526
Dimension C	Depth	mm	1008	1008	1171	1264	1357	1882	2192	2192	2192
Clearances	Front	mm	600	700	800	900	1000	800	800	800	800
	Left hand*	mm	500	500	500	500	500	500	500	500	500
	Top	mm	500	500	500	500	500	300	300	300	300
	Back	mm	1000	1000	1000	1000	1000	300	200	300	300
	Right hand*	mm	500	500	500	500	500	800	800	800	800

\*Duo cascade kits for the 125 to 300kW models can be installed with 50mm gap between the boilers. Otherwise the clearances in the above table must be adhered to.

\*\*Duo cascade kits for the 400 to 610kW models can be installed with 800mm gap between the boilers.