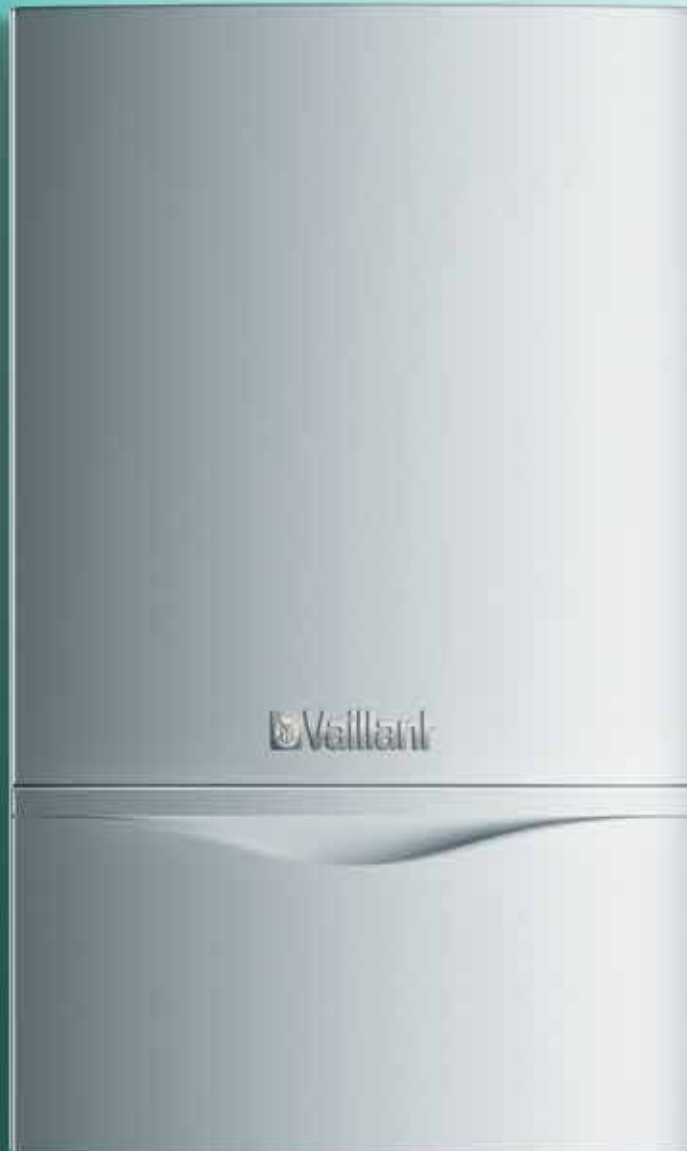


# ecoTEC 46kW

Wall-hung condensing boiler

Technical specification



- Suitable for domestic and commercial projects
- High quality stainless steel heat exchanger offers more resistance to oxidation and corrosion
- All major components built-in for simple installation
- Energy saving two-stage frost protection system and pressure sensor to monitor system pressure via diagnostics and a flow sensor
- ErP band A



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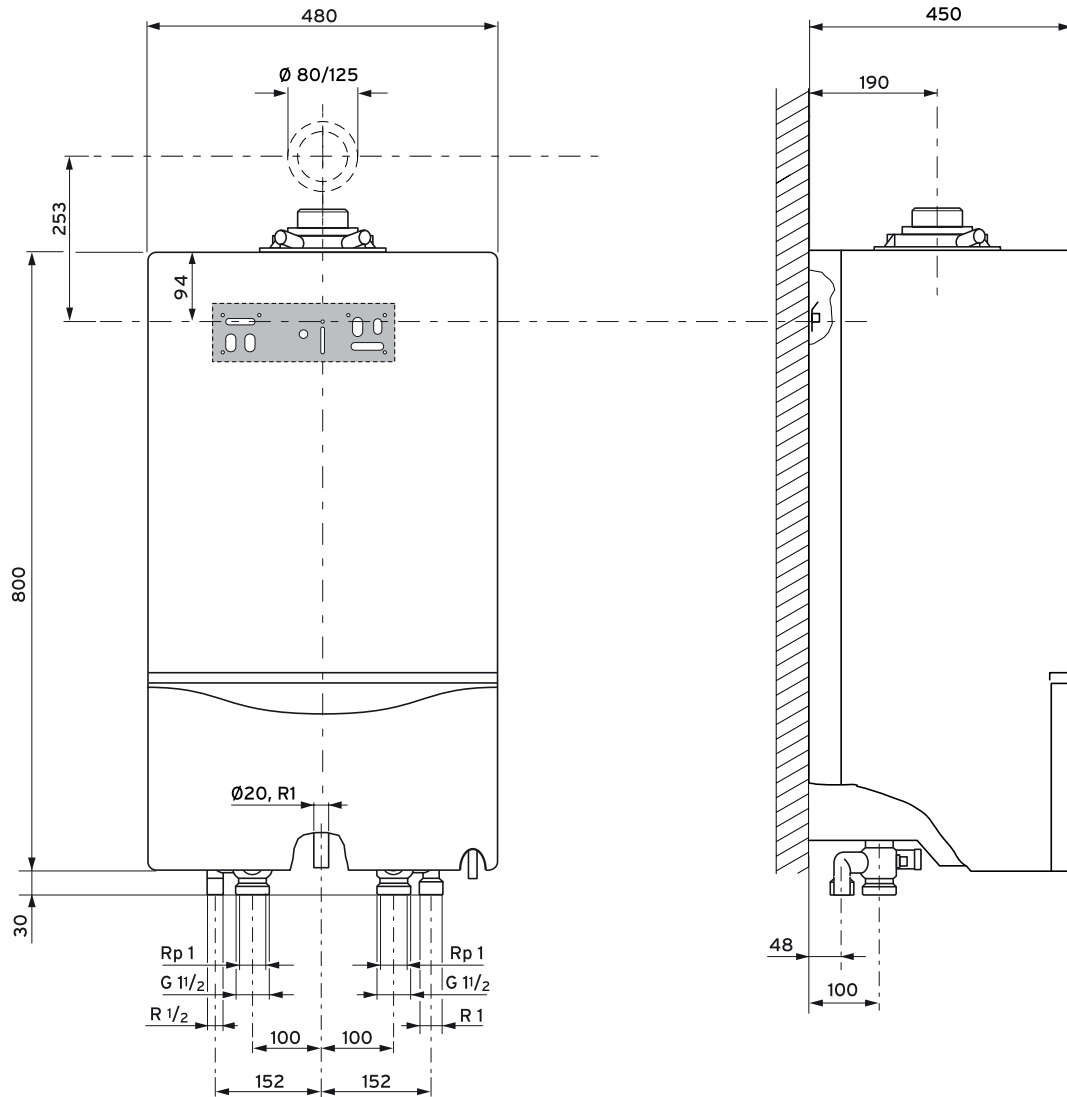
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■ Heating ■ Hot water ■ Renewables

Because  **Vaillant** thinks ahead.



ecoTEC technical specification			46 kW
Article number		Unit	0010017819
Heat output range Natural gas G20 at 20mb	80/60	kW	12.3 - 44.1
	50/30	kW	12.9 - 46.4
Conversion to LPG G31 at 37mb (conversion kit available from Vaillant)	80/60	kW	12.5 - 45.0
	50/30	kW	12.5 - 46.4
Maximum heat input (net)		kW	46
Modulation ratio - N : 1		%	3.8 : 1 (27%)
Energy-related Products		band	A
Seasonal efficiency*	NG	%	95.8
Net efficiency 100%	80/60	%	98.0
Net efficiency 30%	50/30	%	108.3
Gas working pressure	NG	mbar	20
	LPG	mbar	37
Nominal gas consumption at 15°C 1013mb	NG	m³/h	4.8
	LPG	kg/h	3.5
NOx class 5 - 0% oxygen - dry		mg/kWh	36
Minimum/maximum flow temperature		°C	35 / 85
Nominal CH flow rate Δt = 20 K		l/hr	1940
Pump head without check valve		mbar	180

\*in accordance with the non-domestic building services compliance guide 2013

ecoTEC technical specification	Unit	46 kW	
Pump head with check valve	mbar	150	
Condensate (PH range 3.5-4.0)	l/hr	4.5	
Standby loss $\Delta t = 50$ K	%	< 2	
Maximum power consumption	W	165	
Standby power consumption	W	< 2	
Supply voltage/frequency/current		230V / 50Hz / 3A	
IP rating		IP X 4D	
Noise level - load EN 15036-1 dB(A) re1pW	Full	45	
	Part	36	
Dimensions - H x W x D	mm	800 x 480 x 450	
Dry weight (includes pump)	kg	46	
Internal water capacity	l	4.5	
Acidity level	PH	6.5 - 8.5 (for systems that may contain aluminium)	
Flue - concentric	mm	80 / 125	
Connection size (B23p)	Ø mm	80	
Certification for GB		C13, C33, C43, C53, C93, B23, B23p, B53, B53p	
Maximum horizontal flue length	m	18	
Maximum vertical flue length	m	21	
Flue mass flow Qmax	NG	g/s	20.5
Flue gas temperature minimum/maximum	°C	40 / 70	
Fan pressure B23p in single	Pa	125	
Fan pressure B23p in cascade	Pa	50	
Flow and return connections	BSP female	1¼"	
Gas connection	BSP female	1"	
Condensate connection pipe	Ø mm	19 ID (24 OD)	
Pressure relief valve size	BSP female	¾"	
Minimum/maximum operating pressure	bar	0.8 / 3.0	
High efficiency pump	EEl ≥ 0.23	Built-in	

Water quality - To maintain boiler performance and life ensure all system water remains free of debris and is treated to manage hardness and corrosion by use of inhibitors throughout the boiler life. Omissions could lead to failures that are not covered by our guarantee. See website for full terms and conditions.

## Accessories

Vaillant has a full range of accessories including low-loss headers, low-loss plate heat exchangers, cascade rigs, vertical and horizontal flues and controls, all of which are compatible with ecoTEC 46kW boilers. Contact your local sales representative for more information.



Low-loss headers



Low-loss plate heat exchangers

### Sales Support

Vaillant products are available to purchase from reputable heating merchants in the UK. To find contact details for your nearest Vaillant sales representative:

**Telephone: 0345 602 0262**

**Website: [www.vaillantcommercial.co.uk](http://www.vaillantcommercial.co.uk)**

### Specifiers

We can provide you with bespoke solutions to accommodate a variety of different installations. To discuss your requirements or find contact details for your nearest sales representative:

**Telephone: 0345 602 0262**

**Website: [www.vaillantcommercial.co.uk](http://www.vaillantcommercial.co.uk)**

### Technical Enquiries

For technical assistance:

**Telephone: 0344 693 3133**

**Email: [technical@vaillant.co.uk](mailto:technical@vaillant.co.uk)**

### Commercial Systems Service

For commercial systems servicing and commissioning:

**Telephone: 0207 022 0927**

**Email: [commercial@vaillant.co.uk](mailto:commercial@vaillant.co.uk)**

### General Enquiries

If you have a general enquiry our friendly reception staff will happily point you in the right direction:

**Telephone: 0345 602 2922**

### Training Enquiries

Vaillant provide many different training courses. For more information:

**Telephone: 0345 601 8885**

**Email: [training.enquiriesuk@vaillant-group.com](mailto:training.enquiriesuk@vaillant-group.com)**

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