

Heating Hot water Renewables

# ecoTEC plus 80, 100 and 120kW Wall-hung condensing boilers

## Technical specifications



### Key features and benefits

- High quality stainless steel heat exchanger offers more resistance to oxidation, seizing and corrosion
- Energy saving two-stage frost protection system
- Pressure sensor to monitor system pressure via diagnostics
- Full range of accessories available for a complete system solution
- ErP 'A' rated





Technical data	Unit	ecoTEC 80kW	ecoTEC 100kW	ecoTEC 120kW
Pump head with check valve	mbar	650	530	420
Condensate (PH range 3.5-4.0)	l/hr	12.8	16.0	19.2
Standby loss $\Delta t = 50$ K	%	< 2		
Maximum power consumption	W	345	355	355
Standby power consumption	W	< 2		
Supply voltage / frequency / current	V / Hz / A	230 / 50 / 4		
IP rating		IP X 4D		
Noise level - load EN 15036-1 dB(A) re1pW	Full	54.4	62.3	60.6
	Part	33.8	36.3	37.8
Dimensions - (H x W x D)	mm	960 x 480 x 603		
Dry weight	kg	68	86	90
Internal water capacity (PH range 6.5-8.5)	l/hr	17.0	23.7	22.5
Concentric flue / air duct	mm	110 / 160		
Connection size (B23p)	$\emptyset$ mm	110		
Certification for GB		C13, C33, C43, C53, C93, B23, B23p, B53		
Maximum horizontal flue length	m	22	20	11
Maximum vertical flue length	m	24	18	9
Flue mass flow Q <sub>max</sub>	NG g/s	34.7	43.4	52.1
Flue gas temperature minimum / maximum	$^{\circ}$ C	40 / 85		
Fan pressure B23p in single	Pa	150	200	200
Fan duty B23p in cascade	Pa	50		
Flow and return connections	BSP female	1 1/4"		
Gas connection	BSP female	1"		
Condensate connection pipe	$\emptyset$ mm	19 ID / 24 OD		
Pressure relief valve size	BSP female	1"		
Minimum / maximum operating pressure	bar	0.8 / 6.0		
High efficiency pump (required for each boiler) article number 0020175314	EEl $\geq$ 0.23	Available as an accessory		

### Water quality

Before the installation of a new Vaillant boiler, we recommend thoroughly flushing the system to clear it of debris. The circulating water should then be treated with an inhibitor to ensure the system remains free of debris. The use of an inhibitor will also reduce water hardness, thus reducing corrosion and ensuring the boiler continues to perform at optimal levels. An inhibitor fitted to a system can increase the lifespan of the appliance. Omitting to maintain the correct levels of inhibitor could lead to failures that aren't covered by the Vaillant guarantee.

Additionally, all Vaillant ecoTEC plus boilers above 70kW should have a plate heat exchanger fitted. This applies to single and cascade systems. A plate heat exchanger maintains the boiler efficiency and improves the longevity of the boiler.

For full terms and conditions on fitting inhibitors and plate heat exchangers, please refer to the Vaillant Commercial website: [www.vaillant.co.uk/commercial](http://www.vaillant.co.uk/commercial)

### Accessories

Vaillant has a full range of accessories including pumps, expansion vessels, plate heat exchangers, cascade rigs, vertical and horizontal flues and controls, all of which are compatible with ecoTEC 80, 100 and 120kW boilers. Please note it is mandatory for ecoTEC 80, 100 and 120kW to be fitted with a plate heat exchanger. For full details, see terms and conditions. Contact your local sales representative for more information.

For more information on the wide range of accessories available, please visit our website [www.vaillant.co.uk/commercial](http://www.vaillant.co.uk/commercial)

# Customer service support contact details

## 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

## Technical Enquiries

For technical assistance:

Telephone: 0330 102 8570

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

## 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.vaillant.co.uk/specifiers](http://www.vaillant.co.uk/specifiers)

## Commercial Systems Service

For commercial product aftersales, servicing and commissioning:

Telephone: 0207 022 0927

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

## Training Enquiries

Vaillant provides a range of training courses covering all of our products. For more information, please contact:

Telephone: 0345 601 8885

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



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