

tepeo

The Zero Emission Boiler (ZEB®)

The ZEB is an award-winning, low carbon, plug-and-play replacement for a fossil fuel boiler. It heats your home affordably while lowering your carbon footprint and supporting renewable generation.

The ZEB is powered by electricity and works like a thermal battery to store heat really efficiently until it is needed. Our patented heat-management technology then cleverly releases the heat to your radiators, underfloor heating and water tank when your thermostat calls for it.

The ZEB's intelligent charging algorithm looks at your tariff, the weather, the grid carbon intensity and how much heat your home uses to automatically charge up - keeping running costs & carbon low, while avoiding wasted heat.



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Zero Emission Boiler ZEB-40R_03

Electrical	Rated input power (@230V)	9	kW
	Rated current (@230V)	41.5	A
	Max current draw (exc FCU)	46.3	A
	Nominal voltage (48 - 52Hz)	230	VAC
	Onboard power & frequency monitoring	Class B	-
Heating	Thermal storage capacity (usable)	40	kWh
	Time to full charge (from empty)	4.5	hour
	Heat output (at >50% Charge)	15	kW
	Modulation Range	0-100%	%
	Output temperature range	35 - 80	°C
	Recommended ΔT across boiler	10 - 20	°C
	Maximum operating pressure	6	bar
	Typical flow rate	10	l/min
	Minimum flow rate	3.5	l/min
	Standing heat loss (at 50% charge)	280	W
	Physical	Dimensions (W x D x H)	598 x 660 x 980*
Weight		375	kg
Max sound power level		58	dB
Environment	Ambient temperature	5 - 40	°C
	Storage temperature	-20 - 55	°C
	Operating humidity	10 - 85	%
	Storage humidity	5 - 90	%
Smart features	Tariff optimisation	Yes	-
	Charge optimisation and learning	Yes	-
	Frequency monitoring & response	Yes	-
Other	Compatible with Solar PV	Yes	-
	Min / max Solar PV consumption	0 / 9	kW

*Excludes necessary clearances.