

tepeo

# Zero Emission Boiler (ZEB<sup>®</sup>) Datasheet



## Zero Emission Boiler ZEB-40R\_03

<b>Electrical</b>	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	-
<b>Heating</b>	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 $\Delta T$ 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
<b>Physical</b>	Dimensions (W x D x H)	598 x 660 x 980*	mm
	Weight	375	kg
	Max sound power level	58	dB
<b>Environment</b>	Ambient temperature	5 - 40	°C
	Storage temperature	-20 - 55	°C
	Operating humidity	10 - 85	%
	Storage humidity	5 - 90	%
<b>Smart features</b>	Tariff optimisation	Yes	-
	Charge optimisation and learning	Yes	-
	Frequency monitoring & response	Yes	-
<b>Other</b>	Compatible with home generation & storage	Yes**	-
	Min / max Solar PV consumption	0 / 9	kW

\*Excludes necessary clearances. \*\*Generation & storage dependent charging available from Spring 2024