TECHNICAL PARAMETERS OF WATER HEATERS

Parameters for the water heater and storage tank

ENERTECH GROUP

Model(s):	CTC Waterheater 101/201		
Conventional water heater:	No		
Heat pump water heater:	Yes		
Solar water heater:	Yes		
Storage tank:	No	Back-up immersion heater:	Yes

General data

Daily electricity consumption	Q_{elec}	**5,720**	kWh
Energy efficiency	wh	**135**	%
Energy efficiency class	-	**A**	-
Annual electricity consumption	AEC	**1258**	kWh
Declared load profile	-	**XL**	-
Efficiency	η_{WH}	**135**	%
Sound power level indoors/outdoors	L_{WA}	**59/53**	dB

Fossil and/or biomass fuel heated water heater

Daily electricity consumption	Q_{fuel}	NA	kWh
Emissions of nitrogen oxides (dioxide)	NO_X	NA	mg/kWh

Solar heated water heater

Collector aperture area	A_{sol}	NA	m^2
Zero-loss efficiency	η_0	NA	-
First-order coefficient	a_1	NA	$W/(m^2\ K)$
Second-order coefficient	a_2	NA	$W/(m^2\ K)$
Incidence angle modifier	IAM	NA	-
Pump power consumption	(solpump)	NA	W
Standby power consumption	(solstandby)	NA	W

Heat pump heated water heater

Sound power level outdoors	L_{WA}	53	dB

Technical paremeter at declared load profile

Storage water heater (3XS, XXS, XS)	Volym	NA	L
Storage water heater (S, M, XL, XXL, 3XL, 4XL)	Mixed vol 40° DHW	354	L

Smart controller

Weekly fuel consumption with smart	$Q_{fuel, week, smart}$	NA	kWh
Weekly electricity consumption with smart	$Q_{elec, week, smart}$	NA	kWh
Weekly fuel consumption without smart	$Q_{fuel, week}$	NA	kWh
Weekly electricity consumption without smart	$Q_{elec, week}$	NA	kWh

Technical parameters for storagetank

Storage volume	V	NA	L
Standing loss	S	NA	W

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