

RD009

26-08-2019 Rev; 9



Condensing Boiler:	Yes
Low Temperature Boiler	No
B1 Boiler	No
Combination Heater	Yes

	Symbol	Unit	VORTEX ECO BOILERHOUSE 15 21 LN (18kW)	VORTEX ECO BOILERHOUSE 21 26 LN (24kW)	VORTEX ECO BOILERHOUSE 26 35 LN (32kW)	VORTEX UTILITY T-ECO 15-21 LN (18kW)	VORTEX UTILITY T-ECO 21-26 LN (24kW)	VORTEX UTILITY T-ECO 26-35 LN (32kW)	VORTEX UTILITY T-PRO 46-58 LN (52kW)	VORTEX UTILITY T-PRO 58-70 LN (64kW)
Rated heat output	<i>Prated</i>	kW	---	---	---	---	---	---	---	---
For boiler space heaters and boiler combination heaters:	<i>P₄</i>	kW	18	24	32	18	24	32	52	64
At 30% of rated heat output and low temperature regime (**)	<i>P₁</i>	kW	5.4	7.2	9.6	5.4	7.2	9.6	15.6	19.2
Seasonal space heating energy efficiency	<i>η_s</i>	%	91.70	91.20	91.60	91.80	91.20	91.50	91.20	91.30
At rated heat output and high temperature regime (*)	<i>η_d</i>	%	95.6	92.4	92.4	95.6	92.4	92.4	91.5	90.9
At 30% of rated heat output and low temperature regime (**)	<i>η_l</i>	%	98.4	97.2	97.5	98.4	97.2	97.5	96.7	96.2
Auxiliary electrical consumption	---	---	---	---	---	---	---	---	---	---
At full load	<i>elmax</i>	kW	0.113	0.154	0.146	0.113	0.154	0.146	0.189	0.182
At part load	<i>elmin</i>	kW	0.035	0.047	0.045	0.035	0.047	0.045	0.072	0.075
In standby mode	<i>P_{sb}</i>	kW	---	---	---	---	---	---	---	---
Other items	---	---	---	---	---	---	---	---	---	---
Standby heat loss	<i>P_{stby}</i>	kW	0.082	0.091	0.09	0.23	0.264	0.293	0.309	0.306
Ignition burner power consumption	<i>P_{ig}</i>	kW	0	0	0	0	0	0	0	0
Annual energy consumption	<i>Q_{HE}</i>	kWh	---	---	---	---	---	---	---	---
Sound power level, indoors	<i>L_{WA}</i>	db	54	54	54	54	54	54	56	56
Sound power level, boilerhouse	<i>L_{WA}</i>	db	---	---	---	---	---	---	---	---
Declared load profile	---	---	---	---	---	---	---	---	---	---
Daily electricity consumption	<i>Q_{elec}</i>	kWh	---	---	---	---	---	---	---	---
Annual electricity consumption	<i>AEC</i>	kWh	---	---	---	---	---	---	---	---
Water heating energy efficiency	<i>η_{wh}</i>	%	---	---	---	---	---	---	---	---
Daily fuel consumption	<i>Q_{fuel}</i>	kWh	---	---	---	---	---	---	---	---
Annual fuel consumption	<i>AFC</i>	Gj	---	---	---	---	---	---	---	---
Emissions of nitrogen oxides	<i>NOx</i>	mg/kWh	<120	<120	<120	<120	<120	<120	<120	<120

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(*) High-temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.
(**) Low-temperature means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return temperature at heater inlet.