

**Information for boiler space heaters, boiler combination heaters and cogeneration space heaters**

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Model(s):	CTC EL50, 50kW					
Condensing boiler:	No	Built in DHW:	NA	Eff class:	D	
Low-temperature (***) boiler:	No	Built in DHW:	NA	Controller:	No	
B1 boiler:	No	Built in DHW:	NA	Contribution:	NA	
Cogeneration space heater:	No	If yes, equipped with a supplementary heater:		NA	Package $\eta_s$ :	NA
Electrical boiler	Yes	Built in DHW:	No	Package class:	NA	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	$P_{rated}$	50	kW	Seasonal space heating energy efficiency	$\eta_s$	36	%
Annual energy consumption	$Q_{HE}$	91679	kWh	For boiler space heaters and boiler combination heaters: Useful heat output			
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	$P_4$	48,2	kW	At rated heat output and high-temperature regime (*)	$\eta_4$	38,5	%
At 30 % of rated heat output and low-temperature regime (**)	$P_1$	NA	kW	At 30 % of rated heat output and low-temperature regime (**)	$\eta_1$	NA	%
For cogeneration space heaters: Useful heat output				For cogeneration space heaters: Useful efficiency			
At rated heat output of cogeneration space heater with supplementary heater enabled	$P_{CHP100 + Sup0}$	NA	kW	At rated heat output of cogeneration space heater with supplementary heater disabled	$\eta_{CHP100 + Sup0}$	NA	%
At rated heat output of cogeneration space heater with supplementary heater enabled	$P_{CHP100 + Sup100}$	NA	kW	At rated heat output of cogeneration space heater with supplementary heater enabled	$\eta_{CHP100 + Sup100}$	NA	%
For cogeneration space heaters: Electrical efficiency				Supplementary heater			
At rated heat output of cogeneration space heater with supplementary heater disabled	$\eta_{el,CHP100 + Sup0}$	NA	%	Rated heat output	$P_{sup}$	NA	kW
At rated heat output of cogeneration space heater with supplementary heater enabled	$\eta_{el,CHP100 + Sup100}$	NA	%	Type of energy input	NA		
Auxiliary electricity consumption				Other items			
At full load	$el_{max}$	NA	kW	Standby heat loss	$P_{stby}$	0,036	kW
At part load	$el_{min}$	NA	kW	Ignition burner power consumption	$P_{ign}$	NA	kW
In standby mode	$P_{SB}$	0,005	kW	Emissions of nitrogen oxides	$NO_x$	NA	mg/kWh

For combination heaters:							
Declared load profile	NA			Water heating energy efficiency/Class	$\eta_{wh/Class}$	NA	%/-
Daily electricity consumption	$Q_{elec}$	NA	1,0 kWh	Daily fuel consumption	$Q_{fuel}$	NA	1,0 kWh

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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).