

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

Enertech AB  
341 26 Ljungby



Model(s):	CTC EcoZenith 250, 3x400V, 18kW				
Condensing boiler:	No	Built in DHW:	NA	Eff class:	D
Low-temperature (***) boiler:	No	Built in DHW:	NA	Controller:	VII
B1 boiler:	No	Built in DHW:	NA	Contribution:	3,5 %
Cogeneration space heater:	No	If yes, equipped with a supplementary heater:	NA	Package $\eta_s$ :	40 %
Electrical boiler	Yes	Built in DHW:	Yes	Package class:	D

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	$P_{rated}$	18	kW	Seasonal space heating energy efficiency	$\eta_s$	36	%
Annual energy consumption	$Q_{HE}$	33497	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 (*)	$P_4$	18,0	kW	At rated heat output and high-temperature regime (*)	$\eta_4$	39,03	%
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	$P_{stby}$	0,280	kW
At part load	$el_{min}$	NA	kW	Ignition burner power consumption	$P_{ign}$	NA	kW
In standby mode	$P_{SB}$	0,011	kW	Emissions of nitrogen oxides	$NO_x$	NA	mg/kWh

For combination heaters:							
Declared load profile	L			Water heating energy efficiency/Class	$\eta_{wh/Class}$	32/E	%/-
Daily electricity consumption	$Q_{elec}$	14,660	1,0 kWh	Daily fuel consumption	$Q_{fuel}$	NA	1,0 kWh

Contact details: [Enertech AB, Box 309, SE-341 26 Ljungby](mailto:Enertech AB, Box 309, SE-341 26 Ljungby) Tel +46 372 88000 [www.ctc.se](http://www.ctc.se) 170125

(\*) 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).

