

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

Enertech AB
341 26 Ljungby



Model(s):	CTC EcoVent i350F 3x400V				
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 η_s :	40%
Electrical boiler	Yes	Built in DHW:	Yes	Package class:	D

Item	Symbol	Value	Unit
Rated heat output	P_{rated}	12	kW
Annual energy consumption	Q_{HE}	22655	kWh
For boiler space heaters and boiler combination heaters: Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	12	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	NA	kW
For cogeneration space heaters: Useful heat output			
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 enabled	$P_{CHP100 + Sup100}$	NA	kW
For cogeneration space heaters: Electrical efficiency			
At rated heat output of cogeneration space heater with supplementary heater disabled	$\eta_{el,CHP100 + Sup0}$	NA	%
At rated heat output of cogeneration space heater with supplementary heater enabled	$\eta_{el,CHP100 + Sup100}$	NA	%
Auxiliary electricity consumption			
At full load	el_{max}	NA	kW
At part load	el_{min}	NA	kW
In standby mode	P_{SB}	0,011	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	37	%
For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	η_4	39,9	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	NA	%
For cogeneration space heaters: Useful efficiency			
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	$\eta_{CHP100 + Sup100}$	NA	%
Supplementary heater			
Rated heat output	P_{sup}	NA	kW
Type of energy input		NA	
Other items			
Standby heat loss	P_{stby}	0,014	kW
Ignition burner power consumption	P_{ign}	NA	kW
Emissions of nitrogen oxides	NO_x	NA	mg/kWh

For combination heaters:			
Declared load profile	XL		
Daily electricity consumption	Q_{elec}	21,248	1,0 kWh

Water heating energy efficiency/Class	$\eta_{wh/Class}$	36/D	%/-
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).

**Information for ventilation unit according to the Regulations (EU) no
1253/2014 and 1254/2014**

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Model(s):	CTC EcoVent i350F		
Type of recovery system:	None	Specific energy consumption (Cold): -54,4	SEC, kWh/(m ² .a)
		Specific energy consumption (Average): -27,4	SEC, kWh/(m ² .a)
		Energy efficiency class (Average): B	-
		Specific energy consumption (Warm): -11,9	SEC, kWh/(m ² .a)
Type of drive installed:	Variable speed	Thermal efficiency: na	%
Declared typology:	Unidirectional	Maximum flow rate: 288	m ³ /h
		Electric power at max flow rate 38	W
		Sound power level: 35	L _{WA}
		Reference flow rate: 0,056	m ³ /s
		Reference pressure diff: 50	Pa
		SPI: 0,069	W/(m ³ /h)
		Annual electr consumption (AEC): 37	kWh/a (all climates)
		Annual heating saved (AHS): 5536	kWh/a (cold climate)
		Annual heating saved (AHS): 2830	kWh/a (awer climate)
		Annual heating saved (AHS): 1280	kWh/a (warm climate)
		Declared maximum internal leakage rate (in case of bidirectional unit): na	%
	Declared maximum external leakage rate (in case of bidirectional unit): na	%	
	Declared external leakage rate (in case of unidirectional unit): 1,6	%	
	Control factor: 0,65	-	
	Typology: Local demand control		
	170706		
Filter warnings, cleaning and filter change information:	This unit is equipped with a particle filter that need to be changed regularly. The need for filter change is indicated in the connected display. A red led flashes and an information text appears. The interval between change is based on time. Changing the filter is essential for performance and energy efficiency of the unit.		
Information on air supply for unidirectional units:	For unidirectional system, it is of importance to install regulated supply/exhaust grilles in the facade for natural air supply/extraction. For more information, see the installation manual attached to the ventilation unit.		
Internet address for disassembly instructions:	www.ctc.se/aktuella-produkter		