

VIADRUS

Power of heating

Hefaistos P1 T/E

Pyrolytic cast-iron wood boiler

Hefaistos P1 is a pyrolytic sectional cast iron boiler for burning firewood in systems with forced circulation of heating water. It reaches high output and meets Class 3 of EN 303-5. Corrosion-proof cast iron-material is used for heat exchanger and fire chamber base. Stainless steel lining is used for upper fuel chamber. Control unit ST 81 is used for the electronic version "E" (3-5 sections) and collects data from return water, heating water and flue gases temperature sensors using Hall sensor for modulating exhaust fan. Thermostatic version "T" (6-7 sections) uses working, flue gases and pump thermostats to control the boiler operation. In case the output of the boiler does not correspond to the projected heat loss of the heated object it is necessary to extend the heating system by connecting the storage tank (about 25 litres for each 1 kW of boiler output) or four-way mixing valve located behind the boiler.

Advantages:

- long service life of the cast iron heat exchanger
- environmentally friendly operation
- Class 3 according to EN 303-5
- combustion efficiency 83-89%
- threaded flanges for easy installation
- output by number of sections

Fuel / fuel humidity:

- firewood, up to Ø 100 mm / <20%

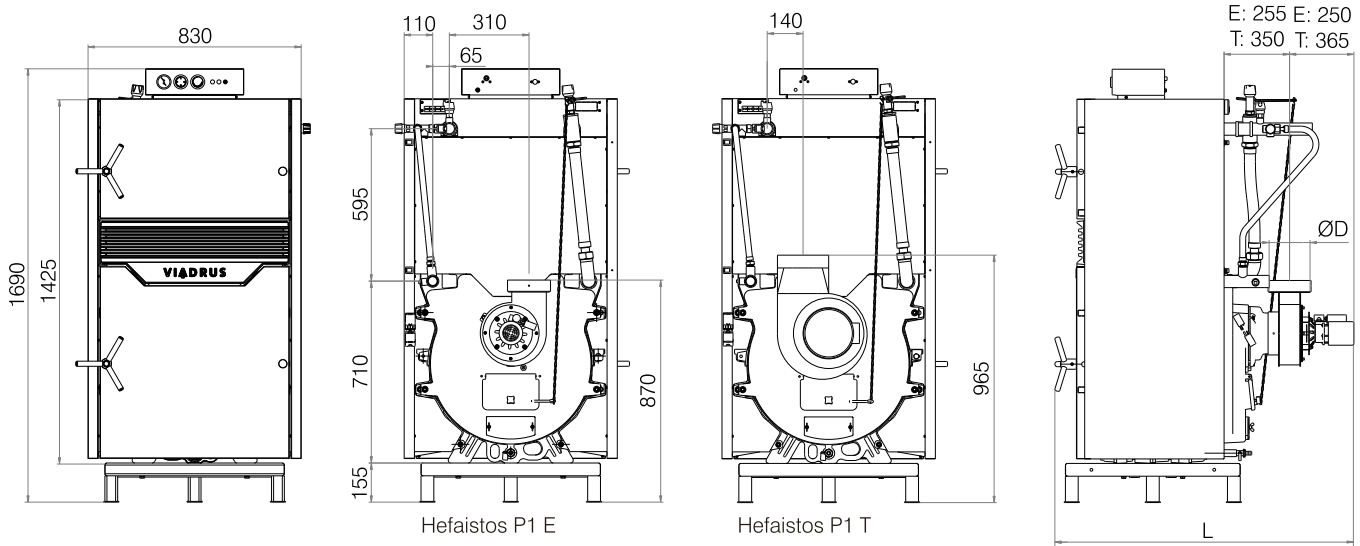
Boiler output (according to section number):

- 30~100 kW



Technical parameters

Section number	pcs	3	4	5	6	7
Boiler class according to EN 303 - 5	-			3		
Rated output	kW	30,0	40,0	49,5	75,0	100,0
Fuel consumption	kg/hour	8,0	10,7	13,3	20,0	26,78
Efficiency	%			83~89		
Flue gases temperature	°C			140~200		
Burning time at one full load	hour			3		
Dimensions	- height x width			1690 x 830		
	- depth L	mm	1170	1310	1450	1790
Weight	kg	584	702	820	959	1077
Fire chamber depth	mm	350	490	640	780	920
Fire chamber volume	l	99	138	177	216	255
Recommended firewood log length	mm	330	470	610	750	890
Stokehole size	mm			500 x 260		
Chimney connection diameter	mm	160	160	160	200	200
Chimney draught	Pa			25~35		
Heating and return water connection	-			6/4"		
Water working overpressure	kPa			50~400		
Water testing overpressure	kPa			800		
Recommended water working temperature	°C			60~85		
Return water min. temperature	°C			60		
Water volume	l	52,9	68,9	85,0	99,1	117,2
Safety after-cooling exchanger cooling water temperature	°C			5~20		
Safety after-cooling exchanger cooling water overpressure	kPa			200~600		
Noise level	dB			<65 dB (A)		
Connecting voltage	-			1 PEN ~ 50 Hz 230 V TN-S		
Maximum electric input	W	180	180	180	800	800
Control box electric protection	-			IP40		



Burning proces scheme



Operating panel of ST 81 control unit

