


### Herz Pelletstar 45 Boiler Specificaton

Category	Field	Units	Value
<b>Boiler Details</b>	Manufacturer	-	Herz
	Model/Type	-	Pellerstar 45
	Turn down ratio	(%)	30
	Output range (chip / pellet)	kW	13.4 - 45
	RHI Certificate	Yes / No	Yes
	Clean Air Act	Yes / No	Yes
	Combustion unit/Boiler	Details	Sheet steel boiler welded and pressure tested. Fully insulated boiler casing, vertical heat exchanger with automatic cleaning
<b>Dimensions</b>	Length x Width x Height (inc. PS10-60 Hopper)	mm	1620 x 1195 x 1597
	Length x Width x Height (exc. Hopper)	mm	1620 x 750 x 1480
	Dry Weight (Boiler / Hopper)	kg	518 / 48.5
<b>Efficiency</b>	Min $\eta$ @100% Load	%	94.4
	Min $\eta$ @30% Load	%	93.7
<b>Hydraulic Details</b>	Max flow temp	°C	85 as standard (102 upon request)
	Max Working Pressure	bar	3
	Max Test Pressure	bar	4.5
	Water Content	l	178
<b>Connections</b>	Flow / Return	-	6 / 4"
	Drain	"	1 / 2
	Thermal safety circuits flow/return	"	1 / 2
<b>Flue</b>	Size (ID)	mm	150
<b>Emissions</b>	Max NOx at min output	mg/Nm <sup>3</sup> *	98
	Max NOx at max output	mg/MJ	64
	Max NOx at min output	mg/Nm <sup>3</sup> *	138
	Max NOx at max output	mg/MJ	90
	Max PM at min output	mg/Nm <sup>3</sup> *	23
	Max PM at min output	mg/MJ	15
	Max PM at max output	mg/Nm <sup>3</sup> *	19
	Max PM at max output	mg/MJ	12
	Max COx at min output	mg/Nm <sup>3</sup> *	124
	Max COx at min output	mg/MJ	81
	Max COx at max output	mg/Nm <sup>3</sup> *	14
Max COx at max output	mg/MJ	9	
<b>Biomass Fuel</b>	Max Pellet Consumption Rate	kg/hr	10
	Pellet grade		EN 14961-2- 6mm (class A1)
<b>Buffer Vessel</b>	Volume (Recommended minimum)	l	1,500
	Max Pressure	bar	3
<b>Electrical Supply</b>	Volts/ph/Hz/A	-	230 / 1 / 50 / 16
<b>Key Features</b>	Burn back protection	Details	Back Fire Protection (BFP) flap which closes when the auger is not in use
	Burner design	Details	Combustion grate with automatic cleaning made from high temperature resistant stainless steel
	Automatic heat exchanger cleaning	Details	Vertical heat exchanger tubes with automatic cleaning and ash removal using turbulators (mechanical).
<b>Image</b>			

\* 0°C / 1013 mbar / 13% O<sub>2</sub>

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