


Herz Pelletstar 20 Boiler Specificaton

Category	Field	Units	Value
Boiler Details	Manufacturer	-	Herz
	Model/Type	-	Pellerstar 20
	Turn down ratio	(%)	30
	Output range (chip / pellet)	kW	6.2 - 21
	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
Dimensions	Length x Width x Height (inc. PS10-60 Hopper)	mm	1400 x 1035 x 1597
	Length x Width x Height (exc. Hopper)	mm	1400 x 590 x 1230
	Dry Weight (Boiler / Hopper)	kg	310 / 42.5
Efficiency	Min η @100% Load	%	93
	Min η @30% Load	%	90.5
Hydraulic Details	Max flow temp	°C	85 as standard (102 upon request)
	Max Working Pressure	bar	3
	Max Test Pressure	bar	4.5
	Water Content	l	78
Connections	Flow / Return	-	1"
	Drain	"	1 / 2
Flue	Size (ID)	mm	130
Emissions	Max NOx at min output	mg/Nm ³ *	102
	Max NOx at min output	mg/MJ	67
	Max NOx at max output	mg/Nm ³ *	142
	Max NOx at max output	mg/MJ	93
	Max PM at min output	mg/Nm ³ *	22
	Max PM at min output	mg/MJ	15
	Max PM at max output	mg/Nm ³ *	13
	Max PM at max output	mg/MJ	9
	Max COx at min output	mg/Nm ³ *	139
	Max COx at min output	mg/MJ	91
	Max COx at max output	mg/Nm ³ *	25
	Max COx at max output	mg/MJ	16
Biomass Fuel	Max Pellet Consumption Rate	kg/hr	5
	Pellet grade		EN 14961-2- 6mm (class A1)
Buffer Vessel	Volume (Recommended minimum)	l	800
	Max Pressure	bar	3
Electrical Supply	Volts/ph/Hz/A	-	230 / 1 / 50 / 16
Key Features	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).
Image			

* 0°C / 1013 mbar / 13% O₂

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