


Herz Biofire 995 Boiler Specificaton

Category	Field	Units	Value
Boiler Details	Manufacturer	-	Herz
	Model/Type	-	Biofire 995
	Turn down ratio	(%)	30%
	Output range	kW	300 - 995
	RHI Certificate	Yes / No	Yes
	Clean Air Act	Yes / No	Yes - as Biofire 1000
	Combustion unit/Boiler	Details	Combustion chamber made of SiC fireproof concrete, with step grate made from solid cast chromium steel. Fully insulated boiler casing, vertical heat exchanger and automatic cleaning
Dimensions	Length x Width x Height (boiler)	mm	5280 x 2505 x 2177
	Length x Width x Height (cyclone)	mm	1460 x 1550 x 2600
	Dry Weight (boiler / cyclone)	kg	7363 / 630
Efficiency	Min η @100% Load (chip / pellet)	%	92.1 / 91.6
	Min η @30% Load (chip / pellet)	%	94.5 / 94.9
Hydraulic Details	Max flow temp	°C	85 as standard (102 upon request)
	Max Working Pressure	bar	5
	Max Test Pressure	bar	7.5
	Water Content	l	1950
Connections	Flow / Return	-	DNI 25 / PN6
	Drain	"	1 / 2
	Thermal safety circuits flow/return	"	1 / 2
Flue	Size (ID)	mm	300
Image			
Emissions	Max NOx at min output (chip / pellet)	mg/Nm ³ *	95 / 80
	Max NOx at min output (chip / pellet)	mg/MJ	63 / 53
	Max NOx at max output (chip / pellet)	mg/Nm ³ *	127 / 176
	Max NOx at max output (chip / pellet)	mg/MJ	84 / 117
	Max PM at min output (chip / pellet)	mg/Nm ³ *	11 / 12
	Max PM at min output (chip / pellet)	mg/MJ	7 / 8
	Max PM at max output (chip / pellet)	mg/Nm ³ *	42 / 44
	Max PM at max output (chip / pellet)	mg/MJ	28 / 29
	Max COx at min output (chip / pellet)	mg/Nm ³ *	33 / 38
	Max COx at min output (chip / pellet)	mg/MJ	22 / 25
	Max COx at max output (chip / pellet)	mg/Nm ³ *	51 / 25
Max COx at max output (chip / pellet)	mg/MJ	34 / 16	
Biomass Fuel	Max Pellet Consumption Rate	kg/hr	231
	Pellet grade		EN 14961-2- 6mm,8mm, 10mm (class A1 or A2)
	Max chip Consumption Rate	kg/hr	288 @W25
	Chip grade		EN 14961-4 - P16B P31.5 P45A (class A1, A2 or B1) 15-35% MC
Buffer Vessel	Volume (Recommended minimum)	l	10,000
	Max Pressure	bar	5
Electrical Supply	Volts/ph/Hz/A	-	400 / 3 / 50 / 16
Key Features	Heat exchanger bypass flap	Details	Prevents moisture condensing in the heat exchanger during start-up. Automatic operation
	Burn back protection	Details	Back Fire Protection (BFP) flap which closes when the auger is not in use
	Burner design	Details	Fully Modulating, 2-zone moving grate manufactured from cast chromium steel
	Automatic heat exchanger cleaning	Details	Vertical heat exchanger tubes with automatic cleaning and ash removal using turbulators (mechanical).

* 0°C / 1013 mbar / 13% O₂

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