


Herz Biofire 1500 Boiler Specificaton

| Category | Field | Units | Value |
|--------------------------|---|----------------------|---|
| Boiler Details | Manufacturer | - | Herz |
| | Model/Type | - | Biofire 1500 |
| | Turn down ratio | (%) | 30% |
| | Output range | kW | 450 - 1500 |
| | RHI Certificate | Yes / No | No |
| | Clean Air Act | Yes / No | Yes |
| | 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 | 5880 x 2870 x 2470 |
| | Length x Width x Height (cyclone) | mm | 1460 x 1550 x 2600 |
| | Dry Weight (boiler / cyclone) | kg | 8500 / 630 |
| Efficiency | Min η @ 100% Load | % | > 90 |
| | Min η @ 30% Load | % | > 90 |
| 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 | - | DN125 / PN6 |
| | Drain | " | 1 / 2 |
| | Thermal safety circuits flow/return | " | 1 / 2 |
| Flue | Size (ID) | mm | 300 |
| Image |  | | |
| Emissions | Max NOx at min output | mg/Nm ³ * | - |
| | Max NOx at min output | mg/MJ | - |
| | Max NOx at max output | mg/Nm ³ * | - |
| | Max NOx at max output | mg/MJ | - |
| | Max PM at min output | mg/Nm ³ * | - |
| | Max PM at min output | mg/MJ | - |
| | Max PM at max output | mg/Nm ³ * | - |
| | Max PM at max output | mg/MJ | - |
| | Max COx at min output | mg/Nm ³ * | - |
| | Max COx at min output | mg/MJ | - |
| | Max COx at max output | mg/Nm ³ * | - |
| Max COx at max output | mg/MJ | - | |
| Biomass Fuel | Max Pellet Consumption Rate | kg/hr | 355 |
| | Pellet grade | | EN 14961-2- 6mm,8mm, 10mm (class A1 or A2) |
| | Max chip Consumption Rate | kg/hr | 439 @W25 |
| | Chip grade | | EN 14961-4 - P16B P31.5 P45A (class A1, A2 or B1) 15-35% MC |
| Buffer Vessel | Volume (Recommended minimum) | l | 20,000 |
| | 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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