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EEL ASSURANCE

№DI-463/05.12.2023

Регламент/Regulation (EU) 2015/1187

Product: Solid fuel water boiler (pellets) with automatic charging
Manufacturer: Costruzioni Tecniche Meccaniche S.r.l.
Model: Magikfire Gold 31; CTMMGKGOLD3120223
Requested by: Costruzioni Tecniche Meccaniche S.r.l.
Via Cese Nove, s.n.c. – Zona Industriale 82030 San Salvatore Telesino (BN) – ITALIA

Stoking principle: automatic charging
Test Fuel: pellets Ø 6, cl. A. Test report for the fuel № 14124/26.04.2023
Test procedure: EN 303 – 5:2021
Test report no: 054/18.09.2023 r.

Fixed values:

F (1)	Deduction regarding temperature controls	3 [%]
CC	Conversion coefficient for electricity consumption	2.5 [-]
BLF	Biomass label factor	1.45 [-]

Test results:

$\eta_{k\text{ nominal}}$	Efficiency at nominal heat output	96.24 [%]
$\eta_{k\text{ minimum}}$	Efficiency at minimum heat output	96.46 [%]
M	Test fuel, moisture	11.78 [%]
GCV_{mf}	Test fuel, gross calorific value, moisture free	20.61 [MJ/kg]
H_{iw}	Test fuel, net heating value, with moisture	18.53 [MJ/kg]
H_{iwf}	Test fuel, net heating value, moisture free	19.84 [MJ/kg]
$e_{l\text{ max}}$	Electricity consumption at nominal heat output	0.14 [kW]
$e_{l\text{ min}}$	Electricity consumption at minimum heat output	0.057 [kW]
P_{SB}	Electricity consumption in standby mode	0.002 [kW]
P_n	Nominal heat output	32.57 [kW]
P_p	Minimum heat output	6.45 [kW]

Calculations

η_n	Efficiency at nominal output	89.89 [%]
η_p	Efficiency at reduced output	90.09 [%]
$\eta_{el,n}$	Electrical efficiency of solid fuel cogeneration boiler	0.00 [%]
η_{son}	Seasonal space heating energy efficiency in active mode	90.06 [%]
η_s	Seasonal space heating energy efficiency	85.32 [%]
F(2)	Auxiliary electricity consumption	0.0174 n/a
F(3)	Electrical efficiency of solid fuel cogeneration boilers	0.0000 n/a

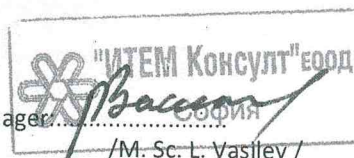
Calculation of the Energy Efficiency index:

Energy Efficiency:	125.85
Energy Efficiency class:	A++
Energy Efficiency index (EEI)	$125 \leq EEI < 150$

Изготвил:

М. Василева

Manager



/M. Sc. L. Vasilev/