



"ITEM Consult" Ltd. Sofia 1220,
8 Istoria Slavianobulgarska Blvd

EEI ASSURANCE

№DI-058/05.02.2020

Регламент/Regulation (EU) 2015/1186

Product: Biofuel heating appliance / pellets /
Manufacturer: „Марели системс“ ЕООД/ „Mareli sistemas“ Ltd
Model: „Primavera 24“
Requested by: „Марели системс“ ЕООД/ „Mareli sistemas“ Ltd
Sofia, Lulin, bl. 821, ap. 1

Stoking principle: Automatic
Test Fuel: Wood pellets (C1)
Test procedure: EN 14785:2006
Test report no: CPR 187/04.10.2019

Fixed values:

Correction factor accounting for a negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame

F (5) 0 [%]

CC Conversion coefficient for electricity consumption 2.5 [-]
BLF Biomass label factor 1.45 [-]

Test results:

| | | |
|--------------------|--|---------------|
| $\eta_{nominal}$ | Calculated efficiency at rated heat output | 94.08 [%] |
| $\eta_{minimum}$ | Calculated efficiency at minimum heat output | 94.76 [%] |
| M | Test fuel, moisture | 4.39 [%] |
| GCV _{mf} | Test fuel, gross calorific value, moisture free | 20.30 [MJ/kg] |
| NCV | Test fuel, net heating value, with moisture | 18.17 [MJ/kg] |
| NCV _{iwf} | Test fuel, net heating value, moisture free | 19.00 [MJ/kg] |
| el _{max} | Electric power requirement at nominal heat output' | 0.05 [kW] |
| el _{min} | Electric power requirement at minimum heat output' | 0.011 [kW] |
| el _{sb} | Electric power requirement in standby mode' | 0.001 [kW] |
| P _{nom} | Nominal heat output | 24.26 [kW] |
| P _{min} | Minimum heat output | 7.65 [kW] |

Calculations

| | | |
|-----------------|---|-----------|
| $\eta_{th nom}$ | Useful efficiency, at either nominal heat output | 94.08 [%] |
| $\eta_{th min}$ | Efficiency at reduced output | 94.76 [%] |
| $\eta_{el,n}$ | Electrical efficiency of solid fuel cogeneration boiler | 0.00 [%] |
| η_{son} | Seasonal space heating energy efficiency in active mode | 94.08 [%] |
| η_s | Seasonal space heating energy efficiency | 91.87 [%] |

F(2) Correction factor accounting positive contribution to the EEI of controls of indoor heating comfort, which values cannot be summed /with electronic room temperature control plus week timer / 7.0 [%]

F(3) Correction factor accounting positive contribution to EEI of the controls for indoor heating comfort /with distance control option / 1.0 [%]

F(4) Correction factor accounting for a negative contribution to the EEI by auxiliary electricity consumption 0.2071 [%]

Calculation of the Energy Efficiency index:

Energy Efficiency: 134.21
Energy Efficiency class: A++
Energy Efficiency index (EEI): EEI \geq 130

Изготвил:

М. Василева

Manager:

/M. Sc. L. Vasilev /