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EI ASSURANCE

№DI 401/14.09.2020

Регламент/Regulation (EU) 2015/1186

Product: Heating appliance (oven) of biofuel (wood)
Manufacturer: „ARAL MAKINA MADENI EŞYA SAN. TIC. LTD. ŞTİ.”
Model: „TKS - 15” – ser. № 240519-01
Requested by: “ARAL MAKINA MADENI EŞYA SAN. TIC. LTD. ŞTİ.”
Organize Sanayi Bölgesi, 8. Cad. №16 Melikgazi/Kayseri, TURKEY

Stoking principle: manual loading
Test Fuel: Solid fuel – wood - oak. Test report for the fuel № 10368/29.10.2018
Test procedure: EN 13240:2006
Test report no: CPR 171/30.07.2019

Fixed values:

F (5) Correction factor accounting for a negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame 0 [%]
CC Conversion coefficient for electricity consumption 2,5 [-]
BLF Biomass label factor 1,45 [-]

Test results:

$\eta_{k, nominal}$ Calculated efficiency at rated heat output 85,64 [%]
 $\eta_{k, minimum}$ Calculated efficiency at minimum heat output 0,00 [%]
M Test fuel, moisture 8,49 [%]
GCV_{mf} Test fuel, gross calorific value, moisture free 19,10 [MJ/kg]
NCV Test fuel, net heating value, with moisture 15,87 [MJ/kg]
NCV_{mf} Test fuel, net heating value, moisture free 17,34 [MJ/kg]
 $e_{l, max}$ Electric power requirement at nominal heat output* 0 [kW]
 $e_{l, min}$ Electric power requirement at minimum heat output* 0 [kW]
 $e_{l, SB}$ Electric power requirement in standby mode* 0 [kW]
 P_{nom} Nominal heat output 12,84 [kW]
 P_{min} Minimum heat output 0,00 [kW]

Calculations

$\eta_{th, nom}$ Useful efficiency, at either nominal heat output 85,64 [%]
 $\eta_{th, min}$ Efficiency at reduced output 0,00 [%]
 $\eta_{el, n}$ Electrical efficiency of solid fuel cogeneration boiler 0,00 [%]
 η_{son} Seasonal space heating energy efficiency in active mode 85,64 [%]
 η_s Seasonal space heating energy efficiency 75,64 [%]
F(2) Correction factor accounting controls of indoor heating comfort, 0,0 [%]
F(3) Correction factor for indoor heating comfort the 0,0 [%]
F(4) Correction factor accounting for a negative contributionauxiliary electricity consumption, 0,0000 [%]

Calculation of the Energy Efficiency index:

Energy Efficiency: 114,18
Energy Efficiency class: A+
Energy Efficiency index (EEI) 107 ≤ EEI < 130

Изготвил:

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Manager:

/M. Sc. L. Vasilev/