

## Energy Label Calculator

Regulation (EU) 2015/1187 and (EU) 2015/11879

Energy labelling for central heaters



### Appliance Type & Biomass label factor

Pellet Appliance

BLF = 1,45

### Appliance efficiency

Efficiency [%, net] ( $\eta_{S,on}$ )

from DoP / Appliance marking

$\eta_n = 88,9$  %

$\eta_p = 90,3$  %

$\eta_{son} = 90,09$  %

$\eta_s = 87,07$  %

### F2 Correction for auxiliary electricity (auto or manual 50% working)

electric power consumption at nominal heat output

82 W

electric power consumption at minimum heat output

68 W

electric power consumption of the product while in standby mode

20 W

nominal heat output of the product

27,1 kW

low heat output of the product

8,3 kW

F2<sub>a</sub> = 0,022

### F2 Correction for auxiliary electricity (manual not working on 50%)

electric power consumption at nominal heat output

kW

electric power consumption of the product while in standby mode

kW

nominal heat output of the product

kW

F2<sub>b</sub> =

### F2 final range (\*)

Automatic fuel appliance

F2 = 0,022

### F3 Controls

Cogenerated solid fuel boilers

No

$\eta_{el,n}$  %

F3 =

### Energy efficiency index (EEI)

$$EEI = (\eta_{son} * 100 * BLF) - F(1) - F(2) * 100 + F(3) * 100$$

Resulting Energy Efficiency Index

125,5

Resulting energy label class

A++

Energy efficiency class	Energy Efficiency Index
A+++	EEI ≥ 150
A++	125 ≤ EEI < 150
A+	98 ≤ EEI < 125
A	90 ≤ EEI < 98
B	82 ≤ EEI < 90
C	75 ≤ EEI < 82
D	36 ≤ EEI < 75
E	34 ≤ EEI < 36
F	30 ≤ EEI < 34
G	EEI < 30

automatically filled field on selection on the left

to be filled in by manufacturer

(\* it is recommended to select other than the single stage input only if the appliance is tested on emissions at part load accordingly

### Emission in 10% O<sub>2</sub>

	E <sub>n</sub>	E <sub>p</sub>	E <sub>s</sub>
CO (mg/m <sup>3</sup> )	291,4	487,2	457,8
NOx (mg/m <sup>3</sup> )	154,9	173,8	171,0
OGC (mg/m <sup>3</sup> )	16,7	19,0	18,7
Dust (mg/m <sup>3</sup> )	19,9	17,1	17,5

### Emission in 13% O<sub>2</sub>

	E <sub>n</sub>	E <sub>p</sub>	E <sub>s</sub>
CO (mg/m <sup>3</sup> )	211,9	354,3	333,0
NOx (mg/m <sup>3</sup> )	112,7	126,4	124,3
OGC (mg/m <sup>3</sup> )	12,1	13,8	13,6
Dust (mg/m <sup>3</sup> )	14,5	12,4	12,7