

Energy Label Calculator

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

Energy labelling for central heaters



ÉMI-TÜV

Appliance Type & Biomass label factor

Appliance burning wood logs

BLF = 1,45

Energy efficiency index (EEI)

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

Resulting Energy Efficiency Index

125,8

Resulting energy label class

A++

Appliance efficiency

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

from DoP / Appliance marking

$\eta_n = 89$ %

$\eta_p = 90,1$ %

$\eta_{son} = 89,94$ %

$\eta_s = 86,92$ %

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

electric power consumption at nominal heat output

92 W

electric power consumption at minimum heat output

75 W

electric power consumption of the product while in standby mode

20 W

nominal heat output of the product

35,8 kW

low heat output of the product

12,3 kW

F2_a = 0,016

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_b =

F2 final range (*)

Automatic fuel appliance

F2 = 0,016

F3 Controls

Cogenerated solid fuel boilers

No

$\eta_{el,n}$ %

F3 =

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% O₂

	E _n	E _p	E _s
CO (mg/m ³)	290,1	494,6	463,9
NOx (mg/m ³)	159,5	180,7	177,5
OGC (mg/m ³)	16,8	19,0	18,7
Dust (mg/m ³)	11,8	36,3	32,6

Emission in 13% O₂

	E _n	E _p	E _s
CO (mg/m ³)	211,0	359,7	337,4
NOx (mg/m ³)	116,0	131,4	129,1
OGC (mg/m ³)	12,2	13,8	13,6
Dust (mg/m ³)	8,6	26,4	23,7