

Crystal Family Summary																
Model	Combustible	Nominal Power (kW)	Efficiency (%)	Seasonal Efficiency (%)	CO% (13%O2)	CO 13%O2 (mg/m³)	NOx at 13%O2 (mgN/m³)	Particles 13%O2 (mgN/m³)	OGC at 13%O2 (mgN/m³)	Norm	Environmental performance index	Laboratory	Report number	ECODESIGN	EEl	Energy class
Cristal 69	WOOD	9,8	84	73	0,11	1326,31	70,43	12,9	116,62	EN 13229:2002/E N16510-1	0,65	Applus	21/25323-1351 2	YES	110,88	A+
Cristal 78	WOOD	10,1	84	73	0,11	1284,58	75,94	15,15	113,95	EN 13229:2002/E N16510-1	0,65	Applus	Interpolation	YES	110,91	A+
Cristal 88	WOOD	10,5	83	72	0,12	1201,11	86,95	21,61	108,62	EN 13229:2002/E N16510-1	0,73	Applus	Interpolation	YES	109,49	A+
Cristal98	WOOD	10,8	83	72	0,12	1159,38	92,45	25,81	105,95	EN 13229:2002/E N16510-2	0,73	Applus	21/25323-1352-2	YES	109,52	A+
Norfire 700	WOOD	8,5	84	74	0,0985	1215,35	42,23	28,63	73,98	EN 13229:2002/E N16510-1	0,59	Applus	21/32305362-2	YES	111,8	A+
Norfire 870	WOOD	10,75	81	71	0,0933	1150,5	58,15	31,425	74,925	EN 13229:2002/E N16510-1	0,60	Applus	Interpolation	YES	107,45	A+
Norfire 1000	WOOD	13	78	68	0,088	1085,73	74,07	21,66	75,87	EN 13229:2002/E N16510-1	0,61	Applus	21/32305363-2	YES	103,1	A
Norfire VL	WOOD	10,3	75	65	0,119	1465,17	52,4	9,5	119,45	EN 13229:2002/E N16510-2	0,88	Applus	21/32307482-2	YES	98,75	A
Premium I	WOOD	7,4	78	67	0,09	1125	81	27	118,5	EN 13229:2002/E N16510-3	0,62	CEIS	CEE-0290/21-1	YES	102,02	A
Premium II	WOOD	8,4	81	70	0,09	1125	72,5	20,5	116	EN 13229:2002/E N16510-4	0,58	CEIS	Interpolation	YES	107	A+
Premium III	WOOD	9,4	83	72	0,087	1125	64	14	113,5	EN 13229:2002/E N16510-5	0,53	CEIS	CEE-0291/21-1	YES	109,5	A+

Calculations performed example

$$EEI=(N_s, \text{nom} \times BLF) - 10\% + F(2) + F(3) - F(4) - F(5)$$

N_{s, nom} = rendimento nominal
BLF=1,45, Para aquecedores amb. Local a biomassa

$$F(2)=0,0\%$$

$$F(3)= 1,0\%$$

$$F(5)$$

$$F(4)= CC \times (0,2 \times \text{elmax.} + 0,8 \times \text{elmin.} + 1,3 \times \text{elbs}) / P_{\text{nom.}} \times 100\%$$

$$CC= 2,5$$

$$\text{elmax.} = 32W = 0,0312kW \text{ (16,4W - no pequeno)}$$

$$\text{elmin.} = \text{elmax.}$$

$$\text{elbs} = 0$$

$$P_{\text{nom.}} = kW$$

CLASSE ENERGÉTICA

C69

110,8816327

84

1,45

0

0

0

0,918367347

2,5

0,036

0,036

0

9,8

A+

EEI >= 130 --- A++
107 <= EEI < 130 --- A+
88 <= EEI < 107 --- A
82 <= EEI < 88 --- B
77 <= EEI < 82 --- C