



Engineering Test Institute, Public Enterprise, Czech Republic

CERTIFICATE OF TEST

Number **O-B-00097-20**

Manufacturer	GREŇ sp.j. ul. Górnosłaska 5 43-200 Pszczyna Poland
Product	Hot-water boiler for solid fuel with automatic fuel supply
Type range	EG-MULTIFUEL 40, EG-MULTIFUEL 45, EG-MULTIFUEL 50, EG-MULTIFUEL 55, EG-MULTIFUEL 60, EG-MULTIFUEL 65, EG-MULTIFUEL 70, EG-MULTIFUEL 75, EG-MULTIFUEL 80
Tested boilers	EG-MULTIFUEL 40, EG-MULTIFUEL 80
Ecodesign requirements	Commission Regulation (EU) No. 2015/1189, Annex II, Art. 1 Commission Regulation (EU) No. 2015/1187
Test method	ČSN EN 303-5:2013
Heating method	automatic
Preferred fuel	wood chips – B1

Results

Type		EG-MULTIFUEL								
		40	45*)	50 *)	55 *)	60*)	65*)	70*)	75*)	80
Nominal output										
CO (10% O ₂)	mg/m ³	393	361	330	298	266	234	203	171	139
OGC (10% O ₂)	mg/m ³	6	6	6	6	7	7	7	7	7
Dust (10% O ₂)	mg/m ³	37	36	36	35	35	34	33	33	32
NOx (10% O ₂)	mg/m ³	125	133	141	149	157	165	173	181	189
Efficiency	%	91.1	91.2	91.2	91.3	91.3	91.4	91.4	91.5	91.5
Useful efficiency	%	81.0	81.1	81.1	81.2	81.2	81.3	81.3	81.4	81.4
Minimum output										
CO (10% O ₂)	mg/m ³	435	406	378	349	321	292	263	235	206
OGC (10% O ₂)	mg/m ³	12	13	13	14	14	15	15	16	16
Dust (10% O ₂)	mg/m ³	38	36	34	32	31	29	27	25	23
NOx (10% O ₂)	mg/m ³	123	131	138	146	154	161	169	176	184
Efficiency	%	92.9	92.8	92.6	92.5	92.3	92.2	92.0	91.9	91.7
Useful efficiency	%	82.7	82.6	82.5	82.3	82.2	82.1	82.0	81.8	81.7

*) Values declared by manufacturer





Seasonal emissions

Type		40	45*)	50 *)	55 *)	60*)	65*)	70*)	75*)	80
CO (10% O ₂)	mg/m _n ³	429	400	371	342	313	283	254	225	196
OGC (10% O ₂)	mg/m _n ³	11	12	12	13	13	14	14	15	15
Dust (10% O ₂)	mg/m _n ³	38	36	35	33	31	29	28	26	24
NOx (10% O ₂)	mg/m _n ³	123	131	139	146	154	162	170	177	185

Type		40	45*)	50 *)	55 *)	60*)	65*)	70*)	75*)	80
η _{son}	%	82.5	82.4	82.3	82.2	82.1	81.9	81.8	81.7	81.6
F1	%	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
F2	%	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1

Seasonal space heating energy efficiency

η _s	%	77	77	77	77	77	77	77	77	77
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Energy Efficiency Index

EEl		114	114	114	114	114	113	113	113	113
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Energy Efficiency Class

	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
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*) Values declared by manufacturer

Basis for Certificate issue

Report No. 31-9960/3/T
and follow-up reports, issued by Testing Laboratory No. 1045.1,
accredited by CAI, Accreditation Certificate No. 491/2018

The Engineering Test Institute certifies by this Certificate of Test to have conducted for the given product the test and calculation with above stated results.

Brno, 2020-01-22



Milan Holomek
Head of Heat and Ecological Equipment Test Station