

DECLARATION OF PERFORMANCE - Regulation (EU) 305/2011

ARADA

DEVON

Manufacturer: Arada Ltd, The Fireworks, Weycroft Avenue, Axminster, Devon, United Kingdom EX13 5HU

Range Designation: Ecoboiler Inset & Cassette Stoves

Intended Use: Inset & Cassette Domestic Room & Water Heating Appliance

Independent Performance and Safety tested: UKCA - Kiwa Gastec, Notified Body No. 0558

CE - SGS Netherlands BV, Notified Body No. 0608/Kiwa Cermet Itaila S.p.A, Notified Body No. 0476

Constancy of Performance System AVCP: System 3

Model	EB12HE-INSET-G5	EB16HE-INSET-G5	EB12-CASSETTE
Approximate Output Range: (kW)	4 - 14	4 - 18	5 - 13
Harmonised EN European Standard (hEN):	BS EN 13229:2001 + Amd 2:2004	BS EN 13229:2001 + A1:2003 + A2:2004	BS EN 13229 + A1:2003 + A2:2004
Additional Characteristics Test Standard:	N/A	N/A	N/A
Additional Particulate Emission Test Standard:	N/A	N/A	N/A
Test Report reference:	60110-5/EZKA/2017-12/00013-5	60240/EKZA/2017-12/00013-4	60803
Performance Characteristics on Wood Fuel			
Total Efficiency: (%)	74.6	70.7	N/A
Total nominal output: (kW)	13.3	15.5	N/A
Nominal output to Space: (kW)	5.3	6.7	N/A
Nominal output to Water: (kW)	8	8.8	N/A
Flue gas mass flow: (g/s)	9.9	12.1	N/A
Mean CO emission (@13% O ₂): (%)	0.33	0.34	N/A
Mean OGC emission (@13% O ₂): (Nmg/m ³)	37	74	N/A
Mean NO _x emission (@13% O ₂): (Nmg/m ³)	64	96	N/A
DIN+ particulates (@13% O ₂): (Nmg/m ³)	N/A	N/A	N/A
PD6434 Particulate Emissions High output: (gh-1)	N/A	N/A	N/A
PD6434 Particulate Emissions Low output: (gh-1)	N/A	N/A	N/A
Mean Flue Temperature: (Deg C)	364	423	N/A
Underhearth Temperature: (Deg C)	189	284.3	N/A
Approximate Max Log Length: (mm)	300	350	N/A
Performance Characteristics on Manufactured Smokeless Fuel (MSF)			
Total Efficiency: (%):	72.7	71.5	74.5
Total nominal output: (kW)	18.7	21.4	16.6
Nominal output to Space: (kW)	7.1	5.3	4.3
Nominal output to Water: (kW)	11.6	16.1	12.3
Flue gas mass flow: (g/s)	12.4	10.7	10.2
Mean CO emission (@13% O ₂): (%)	0.57	0.92	0.28
Mean OGC emission (@13% O ₂): (Nmg/m ³)	N/A	N/A	N/A
Mean NO _x emission (@13% O ₂): (Nmg/m ³)	N/A	N/A	N/A
DIN+ particulates (@13% O ₂): (Nmg/m ³)	N/A	N/A	N/A
Mean Flue Temperature: (Deg C)	392	500	473
Underhearth Temperature: (Deg C)	189	284.3	N/A
Safety Distances from Combustibles (standard flue connection)			
Side Wall: (mm)	100	100	100
Top Shelf: (mm)	250	250	250

Signed On Behalf Of Manufacturer:

Arada
Arada
C. Tribble

C. Tribble

17 February 2021