



DECLARATION OF PERFORMANCE

Manufacturer: Arada Ltd

Range Designation: Ecoboiler HE freestanding boiler stoves

Intended Use: Domestic room and water heating appliance

Independent Performance and Safety tested by: Kiwa Gastec, Notified Body No: 0558 / SGS

Constancy of Performance System: ISO9001

Model	EB9HE-G5	EB12HE-G5	EB16HE-G5	EB20HE-G5	EB25HE-G5
Approximate Output Range: (kW)	3 - 11	4 - 14	4 - 18	5 - 22	6 - 26
Harmonised EN European Standard (hEN):	BS EN 13240:2001 + Amd 2:2004	BS EN 13240:2001 + Amd 2:2004	BS EN 13240:2001 + Amd 2:2004	BS EN 13240:2001 + Amd 2:2004	BS EN 13240:2001 + Amd 2:2004
Additional Characteristics Test Standard:					
Additional Particulate Emission Test Standard:					
Test Report reference:	60110-1	6180-1/Mod01/Mod02	60110-2	60150	60110-3
Performance Characteristics on Wood Fuel					
Total Efficiency: (%)					
Declared nominal output: (kW)					
Tested nominal Output: (kW)					
Flue gas mass flow: (g/s)					
Mean CO emission (@13% O ₂): (%)					
Mean OGC emission (@13% O ₂): (Nmg/m ³)					
Mean NOx emission (@13% O ₂): (Nmg/m ³)					
DIN+ particulates (@13% O ₂): (Nmg/m ³)					
PD6434 Particulate Emissions High output: (gh-1)					
PD6434 Particulate Emissions Low output: (gh-1)					
Mean Flue Temperature: (Deg C)					
Underhearth Temperature: (Deg C)					
Approximate Max Log Length: (mm)					
Performance Characteristics on Manufactured Smokeless Fuel (MSF)					
Total Efficiency: (%):	75.2	71.5	70.5	70.5	72.4
Total Nominal Output: (kW)	12	19.8	23.1	28	35.2
Nominal output to Space: (kW)	3	7.7	9.5	10	12.7
Nominal output to Water: (kW)	9	12.1	13.6	18	22.5
Flue gas mass flow: (g/s)	6.9	13.1	11.5	18.9	18.9
Mean CO emission (@13% O ₂): (%)	0.49	0.31	0.81	0.81	0.77
Mean OGC emission (@13% O ₂): (Nmg/m ³)					
Mean NOx emission (@13% O ₂): (Nmg/m ³)					
DIN+ particulates (@13% O ₂): (Nmg/m ³)					
Mean Flue Temperature: (Deg C)	342	403	516	516	456
Underhearth Temperature: (Deg C)	105.4	135.6	144	156.1	156.1
Safety Distances from Combustibles (standard flue connection)					
Side Wall: (mm)	100	130	240	150	150
Rear Wall: (mm)	150	150	250	200	200
Safety Distances from Combustibles (twin wall flue connection)					
Side Wall: (mm)					
Rear Wall: (mm)					

Signed

Chris Linwood
Technical Director