



DECLARATION OF PERFORMANCE

Manufacturer: Arada Ltd

Range Designation: Ecoboiler Inset, Cassette and Wood Only 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	EB12HE-INSET-G5	EB16HE-INSET-G5	EB12-CASSETTE	EBW12-G2
Approximate Output Range: (kW)	4 - 14	4 - 18	5 - 13	4 - 14
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	BS EN 13240:2001 + Amd 2:2004
Additional Characteristics Test Standard:				
Additional Particulate Emission Test Standard:				
Test Report reference:	60110-5	60240	60803	60448
Performance Characteristics on Wood Fuel				
Total Efficiency: (%)				73.4
Total nominal output: (kW)				19.8
Nominal output to Space: (kW)				8
Nominal output to Water: (kW)				11.8
Flue gas mass flow: (g/s)				15.2
Mean CO emission (@13% O ₂): (%)				0.3
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)				372
Underhearth Temperature: (Deg C)				75
Approximate Max Log Length: (mm)				500
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)				
Mean NOx emission (@13% O ₂): (Nmg/m ³)				
DIN+ particulates (@13% O ₂): (Nmg/m ³)				
Mean Flue Temperature: (Deg C)	392	500	473	
Underhearth Temperature: (Deg C)	189	284.3		
Safety Distances from Combustibles (standard flue connection)				
Side Wall: (mm)	175	75	100	130
Rear Wall: (mm)				150
Safety Distances from Combustibles (twin wall flue connection)				
Side Wall: (mm)				
Rear Wall: (mm)				

Signed

Chris Linwood
Technical Director