



# DECLARATION OF PERFORMANCE

**Manufacturer:** Arada Ltd

**Range Designation:** Ecoburn Inset Stoves

**Intended Use:** Domestic heating appliance

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

**Constancy of Performance System:** ISO9001

Model	ECB5FPLUS-INSET	ECB7FPLUS-INSET
Approximate Output Range: (kW)	1 - 6	2 - 9
Harmonised EN European Standard (hEN):	BS EN 13229:2001 + A1:2003 + A2:2004	BS EN 13229:2001 + A1:2003 + A2:2004
Additional Characteristics Test Standard:		
Additional Particulate Emission Test Standard:		
Test Report reference:	6300	6446-3
<b>Performance Characteristics on Wood Fuel</b>		
Total Efficiency: (%)	80.1	72.1
Declared nominal output: (kW)	4.9	6.1
Tested nominal Output: (kW)	4.8	7.1
Flue gas mass flow: (g/s)	3.4	6
Mean CO emission (@13% O <sub>2</sub> ): (%)	0.5	0.58
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )		
Mean NOx emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )		
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )		
PD6434 Particulate Emissions High output: (gh-1)		
PD6434 Particulate Emissions Low output: (gh-1)		
Mean Flue Temperature: (Deg C)	261	346
Underhearth Temperature: (Deg C)	127	81.1
Approximate Max Log Length: (mm)	200	254
<b>Performance Characteristics on Ancit Briquetted Smokeless Fuel</b>		
Total Efficiency: (%):		
Declared nominal output: (kW)		
Tested nominal output: (kW)		
Flue gas mass flow: (g/s)		
Mean CO emission (@13% O <sub>2</sub> ): (%)		
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )		
Mean NOx emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )		
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )		
Mean Flue Temperature: (Deg C)		
Underhearth Temperature: (Deg C)		
<b>Safety Distances from Combustibles (standard flue connection)</b>		
Side Wall: (mm)	200	200
Rear Wall: (mm)		
<b>Safety Distances from Combustibles (twin wall flue connection)</b>		
Side Wall: (mm)		
Rear Wall: (mm)		

Signed

Chris Linwood  
Technical Director