



DECLARATION OF PERFORMANCE

Manufacturer: Arada Ltd

Range Designation: Solution S4 Inset Stoves

Intended Use: Domestic heating appliance

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

Constancy of Performance System: ISO9001

Model	SOLUTION 5 INSET S4	SOLUTION 7 INSET S4
Internal Product Code :	SOL5-INSET-S4	SOL7-INSET-S4
Approximate Output Range: (kW)	4.1 - 6.7	5 - 8.6
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:	DIN+	DIN+
Additional Particulate Emission Test Standard:	PD6434	PD6434
Test Report reference:	61276-***TBA***	61276-4
Performance Characteristics on Wood Fuel		
Total Efficiency: (%)	79.9	75.4
Declared nominal output: (kW)	5	7
Tested nominal Output: (kW)	5	7.1
Flue gas mass flow: (g/s)	4.1	6.2
Mean CO emission (@13% O2) : (%)	0.08	0.11
Mean OGC emission (@13% O2): (Nmg/m3)	79	92
Mean NOx emission (@13% O2): (Nmg/m3)	97	95
DIN+ particulates (@13% O2): (Nmg/m3)	14	27
PD6434 Particulate Emissions High output: (gh-1)	2.7	2.3
PD6434 Particulate Emissions Low output: (gh-1)	1.8	1.2
Mean Flue Temperature: (Deg C)	274	326
Underhearth Temperature: (Deg C)	66	115
Approximate Max Log Length: (mm)	200	300
Performance Characteristics on Maxibrite Briquetted Smokeless Fuel		
Total Efficiency: (%)	76	75.5
Declared nominal output: (kW)	5	7
Tested nominal output: (kW)	5	7.1
Flue gas mass flow: (g/s)	4.1	6.4
Mean CO emission (@13% O2) : (%)	0.07	0.08
Mean OGC emission (@13% O2): (Nmg/m3)	30	43
Mean NOx emission (@13% O2): (Nmg/m3)	138	159
DIN+ particulates (@13% O2): (Nmg/m3)	12	27
Mean Flue Temperature: (Deg C)	323	332
Underhearth Temperature: (Deg C)	66	115
Safety Distances from Combustibles (standard flue connection)		
Side Wall: (mm)	175	175
Top Shelf: (mm)	250	200
Safety Distances from Combustibles (twin wall flue connection)		
Side Wall: (mm)	N/A	N/A
Rear Wall: (mm)	N/A	N/A

Signed

Chris Linwood
 Technical Director
 Sep-20