DECLARATION OF PERFORMANCE

Manufacturer: Arada Ltd
Range Designation: Solution freestanding toves
Intended Use: Domestic heating appliance
Independent Performance and Safety tested by: Kiwa Gastec, Notified Body No: 0558 / BSRIA, Notified Body No: 0480
Constancy of Performance System: ISO9001

Model	SOL5SC-S3	SOL5MCE-S2	SOL5MCE-WS	SOL7MCE-S2	SOL9MCE-S2	SOL11MCE-S2
Approximate Output Range: (kW)	1 - 5.5	1 - 6.5	1.5 - 9	1.5 - 9	2 - 11	2.4 - 14
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	BS EN 13240:2001 + Amd 2:2004
Additional Characteristics Test Standard:	DIN+					
Additional Particulate Emission Test Standard:	PD6434		PD6434			
Test Report reference:	61133/1	6178/1	59496/1	6178/2	6178/3	6178/4
Performance Characteristics on Wood Fuel						
Total Efficiency: (%)	79.8	74.7	79.3	72.1	71.6	74.7
Declared nominal output: (kW)	4.9	4.9	4.9	6.1	8.8	11
Tested nominal Output: (kW)	4.9	5.1	4.9	6.1	8.8	11
Flue gas mass flow: (g/s)	4.7	4.4	6.96	4.9	6.9	6.9
Mean CO emission (@13% O2) : (%)	0.11	0.58	0.21	0.58	0.68	0.71
Mean OGC emission (@13% O2): (Nmg/m3)	86					
Mean NOx emission (@13% O2): (Nmg/m3)	95					
DIN+ particulates (@13% O2): (Nmg/m3)	27					
PD6434 Particulate Emissions High output: (gh-1)	2.7		1.69			
PD6434 Particulate Emissions Low output: (gh-1)	2		1.46			
Mean Flue Temperature: (Deg C)	255	306	178.4	363	364	370
Underhearth Temperature: (Deg C)	51.2	51.4	62.9	58.3	63.6	62.8
Approximate Max Log Length: (mm)	300	254	380	350	380	500
Performance Characteristics on Ancit Briquetted Smokeless Fuel						
Total Efficiency: (%):	82.3					
Declared nominal output: (kW)	4.9					
Tested nominal output: (kW)	4.9					
Flue gas mass flow: (g/s)	3.5					
Mean CO emission (@13% O2) : (%)	0.1					
Mean OGC emission (@13% O2): (Nmg/m3)	26					
Mean NOx emission (@13% O2): (Nmg/m3)	94					
DIN+ particulates (@13% O2): (Nmg/m3)	10					
Mean Flue Temperature: (Deg C)	254					
Underhearth Temperature: (Deg C)	51.2					
Safety Distances from Combustibles (standard flue connection)						
Side Wall: (mm)	550	525	300	450	500	500
Rear Wall: (mm)	700	625	300	650	750	800
Safety Distances from Combustibles (twin wall flue connection)						
Side Wall: (mm)	500					
Rear Wall: (mm)	75					

Signed

Chris Linwood
Technical Director
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