

# DECLARATION OF PERFORMANCE - Regulation (EU) 305/2011



**Manufacturer:** Arada Ltd, The Fireworks, Weycroft Avenue, Axminster, Devon, United Kingdom EX13 5HU

**Trade Mark Brand:** Hamlet

**Range Designation:** Solution S4 freestanding Stoves

**Intended Use:** Free Standing Domestic Heating Appliance

**Independent Performance and Safety tested:** UKCA - Kiwa Gastec, Notified Body No. 0558

CE - Kiwa Cermet Italia S.p.A, Notified Body No. 0476

**Constancy of Performance System AVCP:** System 3

Model	SOL4-S4	SOL5 Compact-S4	SOL5-S4	SOL5 Widescreen-S4	SOL7-S4
Approximate Output Range: (kW)	1 - 5	1 - 6	1.5 - 6.5	1.5 - 7	2 - 9
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:	DIN+	DIN+	DIN+	DIN+	DIN+
Additional Particulate Emission Test Standard:	PD6434	PD6434	PD6434	PD6434	PD6434
Test Report reference:	61276-6	61276-3	61210	61276-1	61276-2
<b>Performance Characteristics on Wood Fuel</b>					
Total Efficiency: (%)	83.1	81	80.6	82.5	77.9
Declared nominal output: (kW)	4.5	5	5	5	7
Tested nominal Output: (kW)	4.6	4.8	4.9	5	7
Flue gas mass flow: (g/s)	3.7	3.9	4	4	6.2
Mean CO emission (@13% O <sub>2</sub> ): (%)	0.1	0.12	0.09	0.12	0.12
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	91	79	67	113	107
Mean NOx emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	113	60	104	84	109
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	28	11	22	13	18
PD6434 Particulate Emissions High output: (gh-1)	3.3	2.6	3	2.3	1.8
PD6434 Particulate Emissions Low output: (gh-1)	1.6	1.6	1.2	1.1	1.2
Mean Flue Temperature: (Deg C)	232	259	265	240	291
Underhearth Temperature: (Deg C)	92	98	53	94	53
Approximate Max Log Length: (mm)	200	200	300	330	330
<b>Performance Characteristics on Maxibrite Briquetted Smokeless Fuel</b>					
Total Efficiency: (%):	75.5	79.9	79.7	79.4	81.5
Declared nominal output: (kW)	4.5	5	5	5	7
Tested nominal output: (kW)	4.4	4.8	4.9	5	7.1
Flue gas mass flow: (g/s)	3.8	3.5	3.8	3.3	4.3
Mean CO emission (@13% O <sub>2</sub> ): (%)	0.11	0.08	0.11	0.05	0.06
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	45	56	44	30	42
Mean NOx emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	150	101	132	121	120
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	16	18	33	25	24
Mean Flue Temperature: (Deg C)	300	285	275	291	326
Underhearth Temperature: (Deg C)	92	98	53	94	53
<b>Safety Distances from Combustibles (standard flue connection)</b>					
Side Wall: (mm)	650	700	550	550	650
Rear Wall: (mm)	650	700	750	900	650
<b>Safety Distances from Combustibles (twin wall flue connection)</b>					
Side Wall: (mm)	650	700	550	500	650
Rear Wall: (mm)	225	250	350	350	350

Signed On Behalf Of The Manufacturer:

C. Tribble 17 February 2021