

DECLARATION OF PERFORMANCE - CPR 2011 (retained EU law EUR 305/2011) as amended



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

**Range Designation:** I-Series S3

**Intended Use:** Cassette (Inset) Domestic Heating Appliance

**Independent Performance and Safety tested:** UKCA - Kiwa Ltd, Approved Body No. 0558

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

Model	I-Series 400 S3	I-Series 500 S3	I-Series 600 S3
Internal Product Code :	I400-S3	I500-S3	I600-S3
Approximate Output Range: (kW)	1.5 - 6	2 - 7	2.5 - 8
Harmonised EN European Standard (hEN):	BS EN 13229:2001 Amd 2:2004	BS EN 13229:2001 Amd 2:2004	BS EN 13229:2001 Amd 2:2004
Additional Characteristics Test Standard:	DIN+	DIN+	DIN+
Additional Particulate Emission Test Standard:	PD6434	PD6434	PD6434
Test Report reference:	61772	61776 (PVA +1)	61771 (PVA +1)
<b>Performance Characteristics on Wood Fuel</b>			
Total Efficiency: (%)	82.6	76.5	78.1
Declared nominal output: (kW)	4.9	5.6	6.2
Tested nominal Output: (kW)	5.2	5.6	6.2
Flue gas mass flow: (g/s)	3.8	5.4	5.4
Mean CO emission (@13% O <sub>2</sub> ) : (%)	0.08	0.06	0.07
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	66	44	68
Mean NO <sub>x</sub> emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	91	74	92
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	19	32	31
PD6434 Particulate Emissions High output: (gh-1)	4.5	3.2	2.2
PD6434 Particulate Emissions Low output: (gh-1)	2.5	2.1	1.4
Mean Flue Temperature: (Deg C)	267	292	297
Approximate Max Log Length: (mm)	200	300	350
<b>Performance Characteristics on Maxibrite Smokeless Fuel</b>			
Total Efficiency: (%)	83	81	80.3
Declared nominal output: (kW)	5	5.6	5.9
Tested nominal Output: (kW)	5	5.6	5.9
Flue gas mass flow: (g/s)	3	3.8	4.3
Mean CO emission (@13% O <sub>2</sub> ) : (%)	0.05	0.06	0.11
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	23	16	56
Mean NO <sub>x</sub> emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	143	98	174
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	15	35	32
Mean Flue Temperature: (Deg C)	264	301	293
<b>Safety Distances from Combustibles (Standard Flue Connection)</b>			
Side Wall: (mm)	170	130	75
Underhearth Temperature: (Deg C)	44.2	68	86
Shelf: (mm)	695	850	700

The performance of the products above is in conformity with the set of declared performance.

This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011 as it has effect in the United Kingdom in respect of Great Britain, under the sole responsibility of the manufacturer identified above.

**Signed On Behalf Of The Manufacturer:**

**ARADA**  
DEVON  
  
J. Stantiford

18 February 2025