



## DECLARATION OF PERFORMANCE

**Manufacturer:** Arada Ltd

**Range Designation:** Holborn

**Intended Use:** Domestic heating appliance

**Independent Performance and Safety tested by:** Kiwa Gastec

**Constancy of Performance System:** ISO9001

Model	Holborn 5	Holborn 5 WS	Holborn 7
Approximate Output Range: (kW)	1.5 - 7	1.5 - 7	1.5 - 10
Harmonised EN European Standard (hEN):	EN13240: 2001 Amd 2:2004	EN13240: 2001 Amd 2:2004	EN13240: 2001 Amd 2:2004
Additional Characteristics Test Standard:	DIN +	DIN +	DIN +
Additional Particulate Emission Test Standard:	PD6434	PD6434	PD6434
Test Report reference:	61133	61136-1	61136-2
<b>Performance Characteristics on Wood Fuel</b>			
Total Efficiency: (%)	79.8	81.3	78.2
Declared nominal output: (kW)	4.9	4.9	7
Tested nominal Output: (kW)	4.9	4.9	7.1
Flue gas mass flow: (g/s)	4.7	4.1	5.6
Mean CO emission (@13% O <sub>2</sub> ): (%)	0.11	0.1	0.09
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	86	68	72
Mean NOx emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	95	82	102
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	27	22	38
PD6434 Particulate Emissions High output: (gh-1)	6.8	7	7.6
PD6434 Particulate Emissions Low output: (gh-1)	6.4	6.3	6.7
Mean Flue Temperature: (Deg C)	255	257	310
Underhearth Temperature: (Deg C)	51.2	46.4	95
Approximate Max Log Length: (mm)	300	375	375
<b>Performance Characteristics on Ancit Briquetted Smokeless Fuel</b>			
Total Efficiency: (%):	82.3	79.3	81.2
Declared nominal output: (kW)	4.9	4.9	7
Tested nominal output: (kW)	4.9	4.9	7.1
Flue gas mass flow: (g/s)	3.5	4.2	5.6
Mean CO emission (@13% O <sub>2</sub> ): (%)	0.1	0.09	0.11
Mean OGC emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	26	19	39
Mean NOx emission (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	94	102	116
DIN+ particulates (@13% O <sub>2</sub> ): (Nmg/m <sup>3</sup> )	10	9	10
Mean Flue Temperature: (Deg C)	254	281	271
Underhearth Temperature: (Deg C)	51.2	46.4	95
<b>Safet Distances From Combustibles (standard flue connection)</b>			
Side Wall: (mm)	550	450	600
Rear Wall: (mm)	700	650	650
<b>Safety Distances From Combustibles (Schiedel Twin wall Insulated Flue)</b>			
Side Wall: (mm)	500	250	500
Rear Wall: (mm)	75	50	100

Signed

**Chris Linwood**  
**Technical Director**  
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