



DECLARATION OF PERFORMANCE

Manufacturer: Arada Ltd

Range Designation: Hardy 4 and Hardy 5 Stoves

Intended Use: Domestic heating appliance

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

Constancy of Performance System: ISO9001

Model	HARDY4M-S4	HARDY5M-S4
Approximate Output Range: (kW)	1 - 5.5	1 - 6.5
Harmonised EN European Standard (hEN):	BS EN 13240:2001 + Amd 2:2004	BS EN 13240:2001 + Amd 2:2004
Additional Characteristics Test Standard:		
Additional Particulate Emission Test Standard:		
Test Report reference:	60160-1	60160-6
Performance Characteristics on Wood Fuel		
Total Efficiency: (%)	84.1	80.9
Declared nominal output: (kW)	4.2	4.5
Tested nominal Output: (kW)	4.2	5
Flue gas mass flow: (g/s)	2.5	3.8
Mean CO emission (@13% O ₂): (%)	0.58	0.58
Mean OGC emission (@13% O ₂): (Nmg/m ³)		
Mean NOx emission (@13% O ₂): (Nmg/m ³)		
DIN+ particulates (@13% O ₂): (Nmg/m ³)		
PD6434 Particulate Emissions High output: (gh-1)		
PD6434 Particulate Emissions Low output: (gh-1)		
Mean Flue Temperature: (Deg C)	199	279
Underhearth Temperature: (Deg C)	38.4	74.8
Approximate Max Log Length: (mm)	200	200
Performance Characteristics on Ancit Briquetted Smokeless Fuel		
Total Efficiency: (%):		
Declared nominal output: (kW)		
Tested nominal output: (kW)		
Flue gas mass flow: (g/s)		
Mean CO emission (@13% O ₂): (%)		
Mean OGC emission (@13% O ₂): (Nmg/m ³)		
Mean NOx emission (@13% O ₂): (Nmg/m ³)		
DIN+ particulates (@13% O ₂): (Nmg/m ³)		
Mean Flue Temperature: (Deg C)		
Underhearth Temperature: (Deg C)		
Safety Distances From Combustibles (standard flue connection)		
Side Wall: (mm)	500	500
Rear Wall: (mm)	650	675
Safety Distances From Combustibles (twin wall flue connection)		
Side Wall: (mm)		
Rear Wall: (mm)		

Signed

Chris Linwood
Technical Director