

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: M-Series (Steel, Cast & Glass)

Intended Use: Free Standing Domestic Heating Appliance

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

Constasy of Performance System AVCP: System 3

| Model | M-Series 5kW | M-Series 5kW WIDE SCREEN | M-Series 7kW |
|---|-----------------------------|-----------------------------------|-----------------------------|
| Internal Product Code : | MSTEEL-5, MCAST-5,MGLASS-5 | MSTEEL-5WS, MCAST-5WS, MGLASS-5WS | MSTEEL-7, MCAST-7,MGLASS-7 |
| Approximate Output Range: (kW) | 1.5-7 | 1.5-7 | 1.5-10 |
| 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 |
| Additional Characteristics Test Standard: | DIN+ | DIN+ | DIN+ |
| Additional Particulate Emission Test Standard: | PD6434 | PD6434 | PD6434 |
| Test Report reference: | 61133 (PVA +1) | 61136-1 (PVA +1) | 61136-2 (PVA +1) |
| Performance Characteristics on Wood Fuel | | | |
| 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% O2) : (%) | 0.11 | 0.1 | 0.09 |
| Mean OGC emission (@13% O2): (Nmg/m3) | 86 | 68 | 72 |
| Mean NOx emission (@13% O2): (Nmg/m3) | 95 | 82 | 102 |
| DIN+ particulates (@13% O2): (Nmg/m3) | 27 | 22 | 38 |
| PD6434 Particulate Emissions High output: (gh-1) | 2.7 | 2.1 | 4.9 |
| PD6434 Particulate Emissions Low output: (gh-1) | 2 | 1.1 | 2.8 |
| Mean Flue Temperature: (Deg C) | 255 | 257 | 310 |
| Underhearth Temperature: (Deg C) | 51.2 | 99 | 95 |
| Approximate Max Log Length: (mm) | 300 | 375 | 375 |
| Safety Distances from Combustibles (Standard Flue Connection) | | | |
| Side Wall: (mm) | 350 | 350 | 475 |
| Back Wall: (mm) | 500 | 650 | 700 |
| Safety Distances from Combustibles (Standard Flue Connection & Heat Shield) | | | |
| Side Wall: (mm) | 350 | 400 | 475 |
| Back Wall: (mm) | 250 | 350 | 250 |
| Safety Distances from Combustibles (Twin Wall Flue Connection & Heat Shield) | | | |
| Side Wall: (mm) | 350 | 350 | 400 |
| Back Wall: (mm) | 50 | 150 | 100 |

Signed On Behalf Of The Manufacturer:

J. Stantiford

30 November 2023