



DECLARATION OF PERFORMANCE

Manufacturer: Arada Ltd

Range Designation: Solution S4 freestanding Stoves

Intended Use: Domestic heating appliance

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

Constasy of Performance System: ISO9001

| Model | SOL5-S4 | SOL5 Widescreen-S4 | SOL7-S4 |
|---|----------------------------------|----------------------------------|----------------------------------|
| Approximate Output Range: (kW) | 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 |
| Additional Characteristics Test Standard: | DIN+ | DIN+ | DIN+ |
| Additional Particulate Emission Test Standard: | PD6434 | PD6434 | PD6434 |
| Test Report reference: | KG61276 / PROJ-0206 | KG61276 / PROJ-0207 | KG61276 / PROJ-0208 |
| Performance Characteristics on Wood Fuel | | | |
| Total Efficiency: (%) | 80.6 | 82.5 | 77.9 |
| Declared nominal output: (kW) | 5 | 5 | 7 |
| Tested nominal Output: (kW) | 4.9 | 5 | 7 |
| Flue gas mass flow: (g/s) | 4 | 4 | 6.2 |
| Mean CO emission (@13% O ₂): (%) | 0.09 | 0.12 | 0.12 |
| Mean OGC emission (@13% O ₂): (Nmg/m ³) | 67 | 113 | 107 |
| Mean NO _x emission (@13% O ₂): (Nmg/m ³) | 104 | 84 | 109 |
| DIN+ particulates (@13% O ₂): (Nmg/m ³) | 22 | 13 | 18 |
| PD6434 Particulate Emissions High output: (gh-1) | 3 | 2.3 | 1.8 |
| PD6434 Particulate Emissions Low output: (gh-1) | 1.2 | 1.1 | 1.2 |
| Mean Flue Temperature: (Deg C) | 265 | 240 | 291 |
| Underhearth Temperature: (Deg C) | 53 | 94 | 53 |
| Approximate Max Log Length: (mm) | 300 | 330 | 330 |
| Performance Characteristics on Ancit Briquetted Smokeless Fuel | | | |
| Total Efficiency: (%): | 79.7 | 79.4 | 81.5 |
| Declared nominal output: (kW) | 5 | 5 | 7 |
| Tested nominal output: (kW) | 4.9 | 5 | 7.1 |
| Flue gas mass flow: (g/s) | 3.8 | 3.3 | 4.3 |
| Mean CO emission (@13% O ₂): (%) | 0.11 | 0.05 | 0.06 |
| Mean OGC emission (@13% O ₂): (Nmg/m ³) | 44 | 30 | 42 |
| Mean NO _x emission (@13% O ₂): (Nmg/m ³) | 132 | 121 | 120 |
| DIN+ particulates (@13% O ₂): (Nmg/m ³) | 33 | 25 | 24 |
| Mean Flue Temperature: (Deg C) | 275 | 291 | 326 |
| Underhearth Temperature: (Deg C) | 53 | 94 | 53 |
| Safety Distances from Combustibles (standard flue connection) | | | |
| Side Wall: (mm) | 550 | 550 | 650 |
| Rear Wall: (mm) | 750 | 900 | 650 |
| Safety Distances from Combustibles (twin wall flue connection) | | | |
| Side Wall: (mm) | 550 | 500 | 650 |
| Rear Wall: (mm) | 350 | 350 | 350 |

Signed