
Pacific Energy

Project # [REDACTED]

Models: Super LE (formerly known as the Super (Series E)), aka: Super Heritage, Super Classic, and Alderlea T5

Type: Residential Non-Catalytic Wood Fired Heater

March 31, 2017

EPA Test Method 28R for Certification and Auditing of Wood Heaters

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Results:

The weighted average emission rate is **1.8 g/hr** with a weighted average efficiency of **71.3%** and a weighted average CO of **129.0 g/hr**. The Pacific Energy Fireplace Products Ltd. Model Super LE non-catalytic wood heater meets the 2020 PM emission standard of ≤ 2.0 g/hr per CFR 40 part 60, §60.532 (b).

Summary Table:

| Category 2 < 1.00 kg/hr | | Category 2 0.80 to 1.25 kg/hr | | Category 3 1.25 to 1.90 kg/hr | | Category 4 Maximum | |
|----------------------------|--------|----------------------------------|--------|----------------------------------|--------|---------------------------|--------|
| Run Number | 1C | Run Number | 2 | Run Number | 3 | Run Number | 4 |
| Emissions Rate g/hr | 2.42 | Emissions Rate g/hr | 1.21 | Emissions Rate g/hr | 1.90 | Emissions Rate g/hr | 1.39 |
| Burn Rate kg/hr | 0.94 | Burn Rate kg/hr | 1.13 | Burn Rate kg/hr | 1.50 | Burn Rate kg/hr | 2.95 |
| BTU/hr (HHV) | 12,518 | BTU/hr (HHV) | 15,210 | BTU/hr (HHV) | 20,539 | BTU/hr (HHV) | 38,177 |
| CO g/hr | 153.35 | CO g/hr | 146.06 | CO g/hr | 136.37 | CO g/hr | 38.59 |
| OA Efficiency (HHV) | 70.8% | OA Efficiency (HHV) | 71.6% | OA Efficiency (HHV) | 72.7% | OA Efficiency (HHV) | 68.8% |