

**EPA WEIGHTED AVERAGES CALCULATIONS
EPA WEIGHTED AVERAGE PARTICULATE EMISSION RATE**

The weighted average particulate emission rate (\overline{PM}) for the
PE Alderka 1.2 RV Noncatalytic Wood Heater
manufactured by Pacific Energy
Fireplaces is 2.60 g/hr.

EPA WEIGHTED AVERAGE OVERALL EFFICIENCY

The weighted average overall efficiency (\overline{OE}) using the Higher Heating Value (HHV) in CSA B415.10-1 is 74.4%. The weighted average overall efficiency (\overline{OE}) using the Lower Heating Value (LHV) in CSA B415.10-1 is 80.4%. The EPA Default efficiency Value is 63.0%.

EPA TEST RESULTS

<u>Run #</u>	<u>Dry Burn Rate/kg/hr</u>	<u>Grams/Hour</u>	<u>HHV Overall Efficiency</u>	<u>LHV Overall Efficiency</u>
<u>3</u>	<u>0.977</u>	<u>3.5085</u>	<u>73.3</u>	<u>79.2</u>
<u>1</u>	<u>1.069</u>	<u>3.1105</u>	<u>75.6</u>	<u>81.7</u>
<u>5</u>	<u>1.661</u>	<u>1.4465</u>	<u>74.3</u>	<u>80.3</u>
<u>4</u>	<u>1.941</u>	<u>2.0655</u>	<u>74.0</u>	<u>80.0</u>
<u>6¹</u>	<u>1.154</u>	<u>3.4900</u>	<u>75.6</u>	<u>81.7</u>
<u>2²</u>	<u>0.876</u>	<u>3.8670</u>	<u>73.0</u>	<u>78.9</u>

Notes: 1. Run 6 = Fan Confirmation Test
2. Run 2 - Replaced by runs 1 and 3