

# Commerical Dehydrator Systems, Inc.

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## Tray Dryer Energy Consumption Estimates

Dryer	Fan Motor HP/Amps	Heat Type, Max. load	Average Electrical Load/Fan	Average Heat Load	Average Hourly Cost Fan/Heat	Total Avg Hourly Cost
Harvest Saver	3/4 HP, 3.2 Amps	Electric coils, 8,800 watts	.65 kw/hour	3,520 Watts	.65 kw x \$0.09 = \$0.06 3.5 kw x \$0.09=\$0.31	<b>\$0.37</b>
Klamath	5 HP 15.2 Amps	Gas Burner, 400,000 Btus	5.6 kw/hour	160,000 Btus	5.6 kw x \$0.09 = \$0.50 1.6 therms x \$1.15 = \$1.84	<b>\$2.34</b>
McKenzie	10 HP, 28 Amps	Gas Burner, 1 Million Btus	10.26 kw/hour	400,000 Btus	10.26 kw x \$0.09 = \$0.92 4 Therms x \$1.13 = \$4.52	<b>\$5.44</b>
Santiam	20 HP, 54 Amps	Gas Burner, 2.5 Million Btus	19.79 kw/hour	1 Million Btus	19.79 kw x \$0.09 = \$ 1.78 10 Therms x \$1.13 = \$11.30	<b>\$13.08</b>
Columbia	30 HP, 80 Amps	Gas Burner, 3.5 Million Btus	29.32 kw/hour	1.4 Million Btus	29.32 kw x \$0.09 = \$ 2.64 14 Therms x \$1.13 = \$ 15.82	<b>\$18.46</b>

### NOTES:

The Harvest Saver is all electric (no gas burner), and uses single phase power.

All heating loads were computed based on a 40% average consumption rate. This is an average figure, and may not represent all applications

Energy costs will vary. This estimate was based on an average electrical cost of \$0.09 per Kilowatt, and \$1.13 per Therm of Natural Gas. A gallon of Propane and a Therm of Natural Gas contain approximately the same amount of energy.