



Providing the lumber industry with quality kiln drying equipment and knowledge. Helping you build a better kiln more economically.

## Cost estimate for Kiln drying using Wood Waste heating: 450 cord per year based on 2 day turn-around.

This calculation is based 2-day charges on utilizing the kiln 100% for 6 months and 50% for 6 month. We consider 3 face cord or 160 bundles to a full cord.

Also we have used \$40000 in total price for a MiniQuick Firewood kiln which includes 1 set of steel baskets and delivery charge of \$2500. This does not include the concrete pad/foundation or electrical connection costs.

We are trying to be very conservative in our cost estimates, which is the reason we are only counting on 4 cord output per charge. Please keep this in mind when you compare our numbers with our manufacturers.

Total prices for MiniQuick kiln + 1 set of baskets + delivery	US\$	40000.00
Estimated monthly payments for a lease:	US\$	850.00
<b>Total payments for 12 month of lease:</b>	<b>US\$</b>	<b>10200.00</b>

Electrical costs per cord based on 22 hours run time:

- 6 kw per hour x 22 kw = 132 kw x \$0.09 = \$11.88
- \$11.88 per load / 4 cord per load = about \$3 per cord

Labor to load and maintain fire:

- 20 minutes to start fire + 4 x 10 minutes for reloading.
- \$15 per hour labor costs / 4 cord per load = about \$3.75 per cord.

Extra labor to load and unload kiln:

- This assumes there is no extra labor to load baskets (as this can be done directly into baskets).
- 30 minutes to load and 30 minutes to unload kiln.
- \$30 per hour labor costs / 4 cord per load = about \$7.50 per cord.

Variable cost per cord (Electric \$3 + Gas \$37.50 + Labor + \$ 7.50)	US\$	14.25 per full cord
	or US\$	4.75 per face cord
	or US\$:	0.089 per bundle.

	Capital/lease costs	Operating costs	Total costs
Full cord:	\$22.67 per full cord	\$14.25 per full cord	\$36.92 per full cord
Face cord:	\$7.56 per face cord	\$4.75 per face cord	\$12.31 per face cord
Bundle 0.75 cu.ft	\$0.141 per bundle	\$0.089 per bundle	\$0.23 per bundle.

**WE DID NOT CONSIDER WOOD SHRINKAGE AS PART OF THIS CALCULATION, BUT WE DID UNDERESTIMATE THE OUTPUT BY 25%**

**THIS IS ONLY AN ESTIMATE BUT IT SHOULD HELP YOU UNDERSTAND THE COST AND HOW MUCH TO CHARGE FOR THIS SERVICE.**