



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 Gas heating: 900 cord per year based on 1 day turn-around.

This calculation is based on utilizing the kiln 100% for 6 months and then 50% for 6 months to allow for lower volume requirements during the summer. We consider 3 face cord or 160 bundles to a full cord.

Also we have used \$37500 in total price for a MiniQuick Firewood kiln which includes 2 sets 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 + 2 sets of baskets + delivery	US\$	37500.00
Estimated monthly payments for a lease:	US\$	800.00
<b>Total payments for 12 month of lease:</b>	<b>US\$</b>	<b>9600.00</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

Gas costs:

- 25 gallons @ \$1.50 per gallon = \$37.50.
- \$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\$	48.00 per full cord
	or	US\$ 16.00 per face cord
	or	US\$: 0.30 per bundle.

	Capital/lease costs	Operating costs	Total costs
Full cord:	\$10.67 per full cord	\$48.00 per full cord	\$58.67 per full cord
Face cord:	\$3.56 per face cord	\$16.00 per face cord	\$19.56 per face cord
Bundle 0.75 cu.ft	\$0.067 per bundle	\$0.30 per bundle	\$0.367 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.**