

Model RD-01-36-120 Rotary Drying Oven

Operating Cost & Return on Investment for Aluminum Chips



WET



DRY

Total Natural Gas	1,200,000 BTU/Hr.
Natural Gas Cost	\$8.00 per 1,000,000 BTU - National Average
Operating Cost	1.2 x 8 = \$9.60 Per Hour
Oven Capacity	570 LBS/Hr. to dry Aluminum Chips
Cost of Operation	$\\$9.60/570 = \\$0.017/ \text{LB of Aluminum Chips/Hr}$
Capacity per Day	570 LBS x 8 Hrs. = 4,560 Lbs per Day
Operating Cost/Day	4,560 LBS x \$0.017/LB = \$77.52 per Day
Dry Alum. Sell Price/LB	\$.40 Dry Alum. to Smelter
Revenue 8 Hr. Day	4,560 LBS x \$0.40 = \$1,824.00 per Day
Return on Investment	$\\$1,824 - \\$77.52 = \\$1,746.48$ per 8 Hour Day
Wet Alum Sell Price/LB	\$.30 per LB Wet Alum. to Smelter
Revenue 8 Hr Day	4,560 LBS x \$.30/LB = \$1,368.00
Return on Investment	$\\$1,368.00 - \\$77.52 = \\$1,290.48$
Dry-Wet Aluminum	$\\$1,746.48 - \\$1,290.48 = \\$456.00$ Savings/Day