

SpyroCor® Radiant Tube Inserts

MARKET: ALUMINUM

CASE STUDY

Application Information

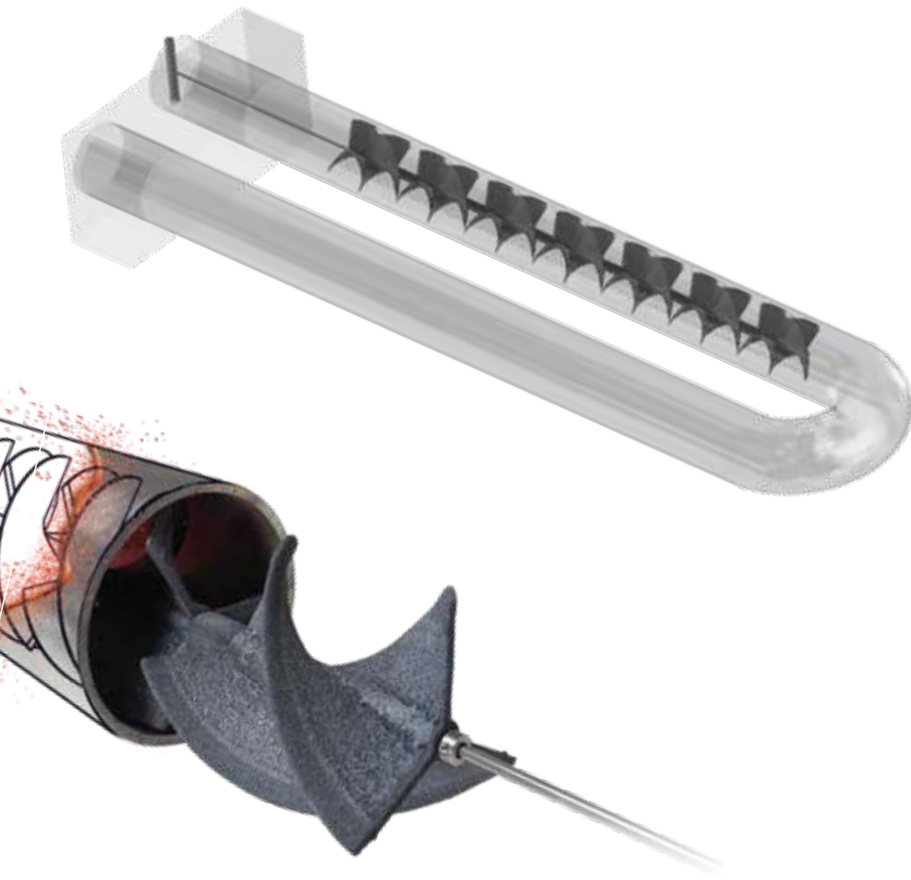
Type: Aluminum coil batch annealing furnace
 Layout: 12x vertical U-type radiant tubes
 Trial Details:

- SpyroCor installed in all 12 tubes
- Evaluated over a 180-day trial period

 Radiant Tube: U-type radiant tube in a vertical orientation
 Burner: 833,000 BTU/hr

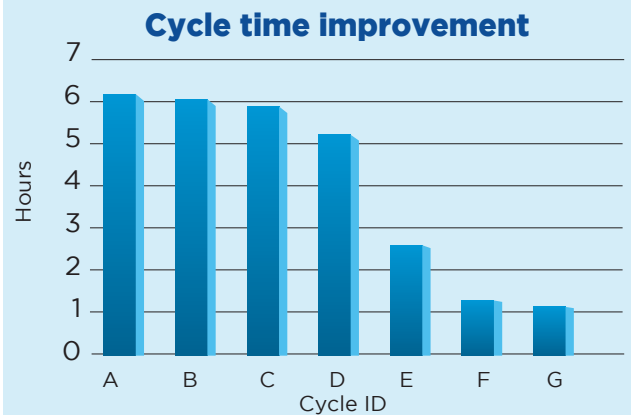
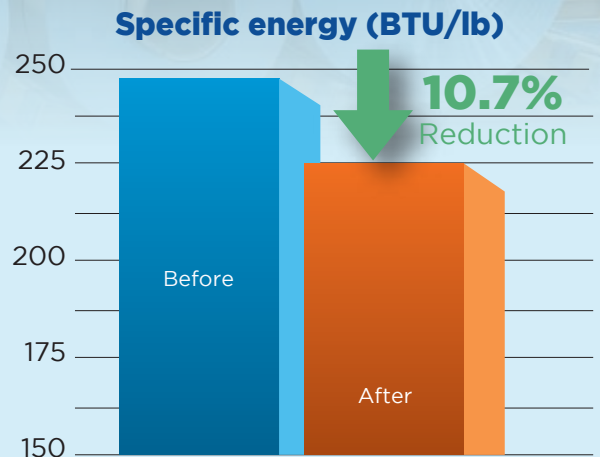
Saint-Gobain SpyroCor Radiant Tube Inserts

Dimensions: 6.5" diameter x 6" length
 Number of inserts: 7x SpyroCor per radiant tube



Result Summary

- **10.7%** Energy savings
- **10.7%** Cycle time reductions
- **+2.8 Million lbs** capacity increase



180 day trial period

Batch Size	Annealing Cycle	Soak Temp (°F)	Cycle Time Improv.	Spec. Energy Improv.
Avg. 78 Tons	Cycle A	710	10%	11%
	Cycle B	640	12%	11%
	Cycle C	580	11%	10%
	Cycle D	475	17%	13%
	Cycle E	460	19%	14%
	Cycle F	350	7%	6%
	Cycle G	275	6%	10%

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