

# INTEK Intelligence

Electric Convection / IR Oven

SN 108134-1 / 108134-2

## PROJECT: Hybrid Electric IR~Convection Oven with Monorail Conveyor



### THE CHALLENGE – Consistent temperatures, space saving design, single operator.

INTEK was presented with the challenge of building two identical conveyor ovens for de-embrittlement of aircraft components at a brand-new manufacturing plant. The customer was very specific about designing the oven so that just one worker could operate the heat-treating oven including loading and unloading without moving more than a few feet. The unique design incorporated electric convection with twin blowers combined with electric infrared modules to provide additional heat zones where needed to maintain precise temperatures. A cooling blower was provided to make certain the processed parts would be cool to the touch by the time they arrived at the common loading/unloading area. An additional challenge was that both ovens had to be sized to fit between building columns on 40-foot centers without sacrificing performance. Mission accomplished!

**PRICE RANGE:** \$300,000 - \$350,000 Depending on controls selected.

#### **SYSTEM DIMENSIONS - INTERNAL:**

18 in. Wide x 48in. High x 432 in. Long

#### **POWER REQUIREMENT:**

480V, 3Ph, 250kW, 60 Hz, 320Amps

**HEAT SOURCE:** Hybrid heat source – Electric convection and Electric IR combined.

**RE-CIRCULATING BLOWER:** Twin 5HP, 3200 CFM Convection Blowers for balanced heat circulation.

**EXHAUST BLOWER:** 3 HP, 1200 CFM

**PURGE/COOLING BLOWER:** 3 HP, 1200 CFM

**PROCESS TEMP:** 575°F

**PROCESS TIME:** 5.5 – 12 Hrs, depending on product requirements



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