



PROCESS SOLUTIONS  
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# VCO SERIES

## VERTICAL CURING OVEN

### Features & Benefits

- Modular design: Easy for Maintenance, Simple Heater Replacement
- Uniform temperature: 8 Recirculating Hot Air (RHA) Zones, with PID Close Loop Control
- Highly efficiency: Processing up to 70 assemblies at same time
- Highly Flexible: Line direction can be L → R or R → L
- Ergonomic design: Automatic width adjustment, Automatic door opening
- Thermal Run-Away protection
- Simple Online Maintenance

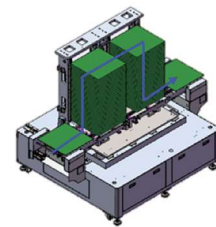
### Product Description

VCO-70 Vertical curing oven increases productivity, improves quality, reduces costs with vertical format curing solutions.

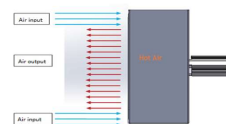
VCO-70 works in-line, vertical automation for epoxy curing process.

It has the benefits on

- In-line automation increases productivity by eliminating the labor needed to load and unload to batch ovens.
- It improves process consistency and quality by reducing the time and temperature variations caused by the frequent opening of batch oven.
- It reduces floor allocation costs as in a vertical format oven



Storage module process



Working principle for single temperature zone

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# Specifications :

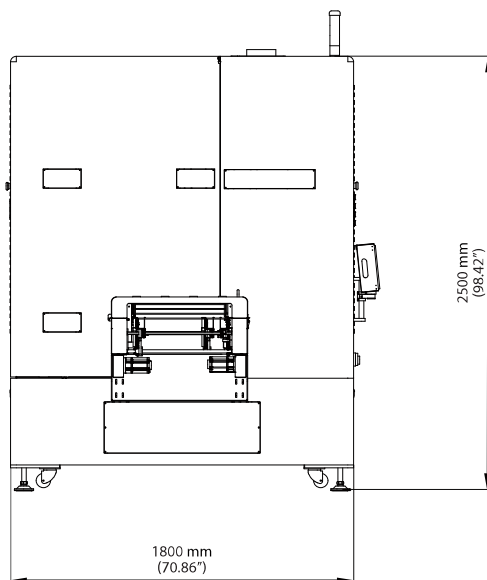
## System Specifications

VCO-70 Vertical Curing Oven

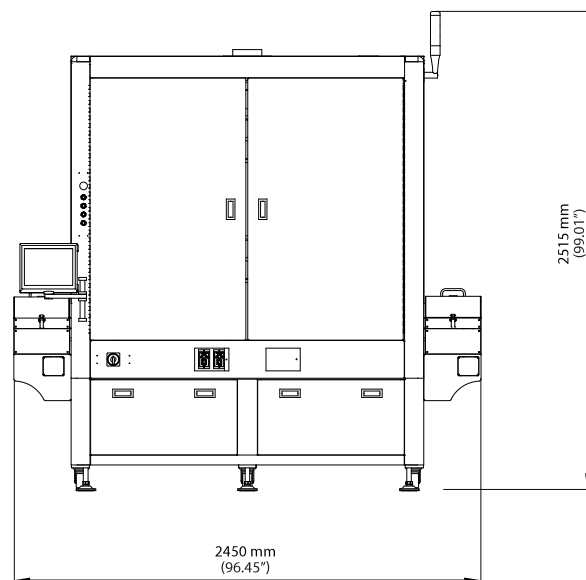
Curing system	
Maximum Temperature	150 C
Temperature Accuracy	±5 C
Heating method	Recirculating Hot Air (RHA)
Number of Heat Zones	8 RHA zones
Minimum Cycle Time	> 12s
Minimum Cure Time	> 192s
Transmission system	
Product Spacing Pitch	25.4 mm (1")
Maximum Product Storage	70 pieces
Process Flow	L to R (Standard), R to L (Optional)
Conveyor Height	900 ± 20mm (35.43" ± 0.79")
Product Dimensions	100 x 100 mm ~ 500 x 500 mm (3.94" x 3.94" ~ 19.68" x 19.68")
PCB Rim Space	10 mm (0.39")
Top Conveyor Clearance	80 mm (3.14")
Bottom Conveyor Clearance	50 mm (1.96")
Conveyor Width Adjust	Motorized
Input / Output Door	Motorized
Driving Method	Metal chain conveyor with gear motor
Conveyor Width Adjustment	Automatic (motorized)
Facility	
Standard Footprint	L 2450 x W1800 x H 2500 mm (L 96.45" x W 70.86" x H 98.42")
Weight	2500 kg (1136 lb)
Exhaust Port	150 mm (5.90")
Input Power	380VAC 3 Phase Wye
Total Power	35 KW
Interface	
Controller	PLC with touch screen control
Communications Protocol	SMEMA

## Standard Features

- 8 independent RHA heating control zones
- PID closed loop control
- Thermal runaway protection
- Entrance / Exit doors prevent heat loss, reduce power consumption
- Simple, online maintenance and heat module replacement
- CE certified



Side View



Front View