



YES-PB 8-2P-CP High Temperature Vacuum Oven

For Curing Polyimide, BCB, Low-K Dielectrics & Copper Anneal

Specifications

Hardware			
Clean Room Compatibility	Class 10		
Chamber Cleanliness	Class 1		
Wafer Size	Up to 200mm		
Capacity	Up to 50 8" wafers/batch (two 25 wafer cassettes)		
Operation Temperature	Ambient to 450 °C Optional high temperature version: Ambient to 550°C		
N ₂ Flow Rate	1 SCFM		
Nitrogen Consumption	15-25 liters/min.		
Interior Chamber Dimensions	36.62 cm barrel (ID) x 66.52 cm (D) (14.42" x 26.19")		
Chamber Process Area	23.95 cm (W) x 45.97 cm (D) x 24.69 cm (H) (9.43" x 18.10" x 9.72")		
Overall System Dimensions	68.96 cm (W) x 145.92 cm (D) x 77.87 cm (H) (27.15" x 57.45" x 30.64")		
Control Console Dimensions	59.44 cm (W) x 96.01 cm (D) x 23.62 cm (H) (23.4" x 37.8" x 9.3")		
Chamber Material	316L stainless steel		
Process Gas Inputs	1 standard, up to 3 optional		
Mass Flow Controllers	Optional – up to 3 for gas mixing		
Laminar Flow Filter	100 micron Mott™ plate filter		
Cleanliness	Particle reduction in most applications		
Software			
Number of Recipes	8 temperature profiles		
Number of Steps for Each Recipe	16 program steps		
Range of Segment Time	0-99 hours		
Resolution of Timer Setting	1 minute		
Performance			
Temperature Uniformity	± 5 °C during dwell after all temperature points have stabilized for 15 minutes		
Average Heat-Up Rate (150°C - 450°C)	5 °C/min. Empty Chamber Load Dependent		
Average Cool-Down Rate (450°C - 150°C)	4 °C/min. Empty Chamber Load Dependent		
Oxygen Concentration	10 ppm over background		
Additional			
Power Requirements	208V, 40 amps, 50/60 Hz, 3 phase		
Tool Weight (approx.)	575 lbs (261 kgs)		
# of cassettes that fit inside the laminar flow zone			
2 inch wafers	9 cassettes	150 mm wafers	3 cassettes
3 inch wafers	6 cassettes	200 mm wafers	2 cassettes
100 mm wafers	3 cassettes	300 mm wafers	0 cassettes
125 mm wafers	3 cassettes		



When you're ready to run process tests, a demonstration can be arranged using your chemicals and samples. Call +1 925-373-8353 (worldwide), 1-888-YES-3637 (US toll free), or visit us online at www.yieldengineering.com

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