



YES-G500 Plasma Cleaning System

For Wire Bond Surface Preparation and Gentle Cleaning Applications

Specifications

Hardware	
Clean Room Compatibility	Class 10
Operation Temperature	145 °C maximum
N ₂ Flow Rate	1.0 SCFM
Process Gas Flow Rate	0.6 x 10 ⁻³ SCFM @ 150 Mtorr, 12 CFM PUMP 1.2 x 10 ⁻³ SCFM @ 150 Mtorr, 19 CFM PUMP
Interior Chamber Dimensions	45.72 cm (W) x 45.72 cm (D) x 20.955 cm (H) (18" x 18" x 8.25")
Chamber Process Area	700 in ² maximum (mode dependent) or 233 in ² per shelf
Overall System Dimensions	59.69 cm (W) x 71.2 cm (D) x 103.81 cm (H) (23.5" x 28.03" x 40.87") light tower adds 27 cm to height (10.62")
Chamber Material	6061-T6 aluminum
Process Gas Inputs	3 standard, 4 th optional
Mass Flow Controllers	Optional, up to 3 for gas mixing
SEMI™ Compliance	S2 compliance
Software	
Number of Recipes	12 with load/save/loop/link capability
Range of Exposure Time	0-1200 seconds (20 minutes)
Resolution of Timer Setting	1 second
Performance	
RF Plasma Power	100-500 watts
RF Leakage Magnetic	0.5 m from front; 0.84 mA/m, 7.06 x 10 ⁻⁷ A ² /m ² 0.5 m from rear; 0.35 mA/m, 1.23 x 10 ⁻⁷ A ² /m ²
RF Leakage Electrical	0.5 m from front; 2.89 V/m, 8.35 V ² /m ² 0.5 m from rear; 0.24 V/m, 0.06 V ² /m ²
Nitrogen Consumption	0 SCF idle, 6.8 SCF peak, 1.7 SCF average
Power Consumption with Pump	375W idle, 1000W peak, 640W average
Reactant Gas Consumption	0 SCF idle, 20-50 SCCM
Heat Emission	920 watts average
Additional	
Power Requirements	208-230V, 20 amps, 50/60 Hz, 1 phase
System Weight	147 kg (325 lbs)



Contact Us

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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