



AUTOGLOW PLASMA

THE AUTOGLOW PLASMA SYSTEM IS AN AUTOMATIC TUNING, VARIABLE 10 TO 300 WATT, TABLE-TOP PLASMA SYSTEM THAT PROVIDES AN EXTREMELY EFFICIENT PLASMA FOR LAB APPLICATIONS. IT IS DESIGNED WITH THE LATEST IN RF TECHNOLOGY TO ALLOW USERS A SAFE AND RUGGED PLASMA SYSTEM AT A MODERATE COST.

The system is suitable for R&D centers, universities, and laboratory facilities, who will find the AutoGlow plasma system the perfect fit for their plasma needs.

POWER and MATCHING NETWORK

Different plasma applications require different RF power settings. **RF power can be set as low as 10 watts for gentle plasma conditions, or as high as 300 watts for more aggressive processing.** The AutoGlow plasma system is equipped with an automatic impedance matching network for ease of operation and consistent results.

CHAMBER

The plasma chamber is constructed of high-quality quartz that is resistant to chemicals and easy to clean. It is designed to provide the most efficient plasma processing for short or longer processing times.

PROCESS CONTROL

The system's control module monitors chamber pressure, forward power, reflected power, RF set point, and power level. Up to three (3) process gasses can be connected to a Gas Control Module (GCM) that provides process recipe flexibility. The electronics provides automatic operation, is user friendly, and ensures precise, reproducible process conditions.

APPLICATIONS – Electronics & Medical Device Processing

Gas plasma treatment provides a fast, efficient method for surface modification and cleaning prior to: wire bonding, die attach, encapsulation, conformal coating, printing and other processes. Plasma processing increases wettability, improves lubricity, enhances bonding and adhesion strength, promotes underfill adhesion, and enables deposition of bio-compatible materials.



SAFETY

Standard features include a button that terminates gas flow and RF power input. Safety interlocks prevent activation of the RF power and gas flow when the chamber door is open. The AutoGlow is CE marked to international safety standards for safe operation.

THE AUTOGLOW PLASMA SYSTEM IS IDEAL FOR:

- BGAs
- LED & FPD devices
- Hybrid devices
- Lead frames
- Optical components
- Multi-chip modules
- Flex/Rigid circuits panels
- Plastic & Ceramics
- Solar Cells
- PV devices
- Medical devices
- Automotive parts
- Catheters
- Ocular implants

2 YEAR WARRANTY

AUTOGLOW SYSTEM SPECIFICATIONS

Enclosure:

Zinc-coated steel, polyurethane painted.
System houses process chamber, RF generator, electronics & controls.

Dimensions:

406.4 W x 612.7 D x 406.4 H (mm)
16 W x 24.12 D x 16 H (in.)

Weight:

37.7 kg (83 lbs.)

Chamber: High-purity quartz

Inside Chamber Dimensions:
144.27 dia x 186.94 D (mm)
5.68 dia x 7.36 D (in.)

Optional Larger Chamber:

160 dia. x 186.94 D (mm)
6.29 dia x 7.36 D (in.)

RF Power:

13.56 MHz
10-300 W, solid state
Automatic tuning network

Control:

Push-button interface, dial control of RF power. Selectable display for Process Time, Forward Power, Reflected Power, RF Setpoint & Pressure.

Optional Pump System:

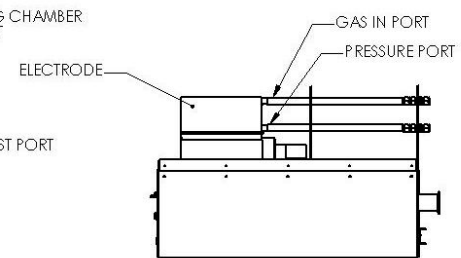
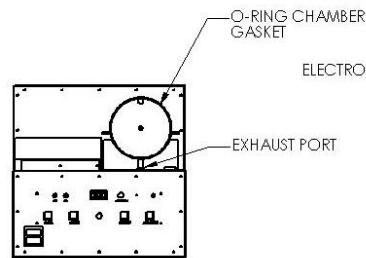
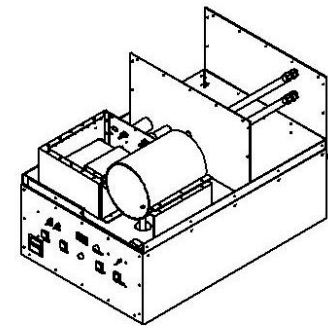
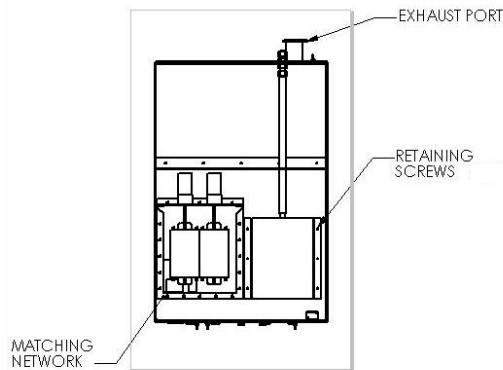
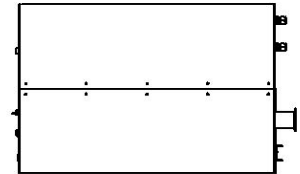
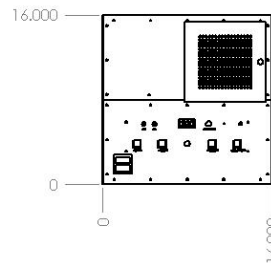
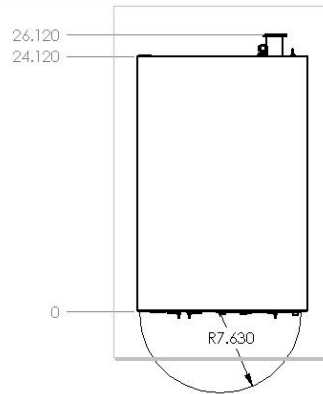
3.8 CFM wet pump with oil mist eliminator. Prepared for Fomblin oil for use with oxygen.

Optional Gas Control: *

Optional Gas Control Module (GCM) for up to three gasses. Flowmeter for each gas. Toggle On/Off for each gas.

Optional Nitrogen Purge

One flowmeter from the GCM is used for N₂ venting of the chamber after the process is complete.



* Optional Gas Control

Facilities Requirements:

Power: 120-230 VAC, single phase, 10A, 50-60 Hz, 18 AWG, 3 wire

Process Gas (ea): 0.25 in. female pipe thread (FPT) fitting, 20 psig

Gas Connections: Stainless Steel or Teflon tubing (Customer Supplied)

Exhaust: KF25 flange, connects to pump package