Atomflo™ 400L
Linear-Beam Atmospheric Plasma System

Pre-Treat and Clean Surfaces For:
Bonding    Marking    Painting    Coating

Features:
High Speed Surface Treatment
Simple, Safe and Reliable Operation
Lightweight and Compact
No Vacuum, No Chamber
In-line or Handheld Processing
Versatile Plasma Chemistry

Applications:
Medical Devices
Structural Composites
Advanced Materials
The Atomflo™ 400L-Series plasma system has a streamlined design for easy insertion into production lines. The source is integrated into robotic systems for rapid surface treatment of 3D parts. Material is placed 1 cm downstream of the source. A pure beam of reactive gas atoms is produced which excludes ions, charged species and metal contaminates, thereby preventing damage to sensitive materials.

The Atomflo™ 400 controller includes a variable RF generator, auto-tuning matching network, and gas delivery system with two mass-flow controllers. The user-friendly interface offers locked and timed modes, and serial communications of process conditions for data logging functionality. The tool operates with helium and a reactive gas, e.g., oxygen, hydrogen, nitrogen, or carbon tetrafluoride.

Surfx Technologies’ engineers and scientists are available to provide you with expert service and support for your surface treatment needs. Contact us today for more information about our:

FREE APPLICATION ANALYSIS
ATOMFLO™ RENTAL PROGRAM
Specifications

Electrical Specifications

Input Requirements: 110 - 240 VAC 50/60 Hz
700 Watts, 8 Amps
RF Power: 0 - 300 Watts 27.12 MHz

Physical Specifications

Plasma Controller:
Weight: 27 Kg (60 lbs)
Width x Depth x Height: 521 x 521 x 203 mm (20.5 x 20.5 x 8.0 inches)

25 mm Plasma Source:
Weight: 120 g (0.25 lbs)
Width x Length x Height: 20.5 x 54 x 98.4 mm
(0.8 x 2.13 x 3.87 in)

50 mm Plasma Source:
Weight: 200 g (0.45 lbs)
Width x Length x Height: 20.5 x 54 x 79.4 mm
(0.8 x 3.125 x 3.1 in)

US Patent #: 7,329,608 and others pending

Operational Specifications

RF Power: 25 mm (50 mm): 60 - 150 Watts (120 - 200 Watts)
Helium Flow: 25 mm (50 mm): 15 LPM (30 LPM)
Reactive Gas Flow: 0 - 1.5 Liters per Minute
Source-to-Sample Distance: 3 mm - 15 mm

Ordering Information

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atomflo 400L1</td>
<td>Plasma system with Atomflo 400 plasma controller and AH-250L, 25 mm linear-beam plasma applicator.</td>
</tr>
<tr>
<td>Atomflo 400L2</td>
<td>Plasma system with Atomflo 400 plasma controller and AH-500L, 50 mm linear-beam plasma applicator.</td>
</tr>
<tr>
<td>RB300-XY</td>
<td>3-Axis desktop robot with 300 mm x 300 mm work area. Includes teach pendant.</td>
</tr>
</tbody>
</table>

Surfx Technologies, LLC
3617 Hayden Avenue, Culver City, CA 90232 USA Tel: (310) 558-0770
e-mail: sales@surfxttechnologies.com visit us at: www.surfxttechnologies.com