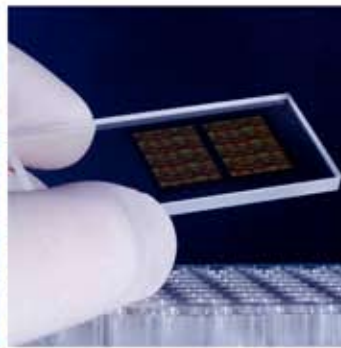




## IoN 40 Plasma System





## IoN 40 Plasma System

PVA TePla's **IoN 40** is a full featured plasma surface modification system designed for both laboratory and production use. This tidy, fully integrated system is used to clean, chemically functionalize and deposit coatings on various materials used in medical diagnostics, optics, electronics, etc. PVA TePla is a proven and trusted resource for high-quality, reliable, cost-effective and easy to operate Gas Plasma Systems offering some of the most advanced and innovative solutions to a wide variety of applications.

### Features include:

- Flexible electrode design for improved process uniformity
- Industrial computer with a Windows® based system
- Graphical User Interface (GUI) with large touch screen Software written to Semi E95-1101 and FDA CFR Title 21 Part II
- Recipe driven processes
- Self diagnostic features and graphing
- Ethernet communications
- Energy saving control features
- Alternate gas selector
- Simple plug and play installation

## Technical Data

### Process Chamber

<b>Material</b>	Aluminum
<b>Volume</b>	36.5 liters volume
<b>Inner Dimensions</b>	229 x 330 x 483 mm 9" x 13" x 19" inner dimensions

### Available Electrodes

#### Primary Plasma

- Vertical Electrode
- Side wall Electrode
- Removable 3 & 5 shelf (289 mm x 234 mm 11.38" x 13.15" tray)
- Temperature controlled 3 shelf
- Low particulate electrode

**Secondary Plasma**      Cage electrode

### Process Gas

<b>Mass Flow Control</b>	Up to 6 gasses
<b>Process Pressure</b>	Approx. 120-2000 mTorr (pump and gas flow dependent)
<b>Evacuation Time</b>	~1 minute (pump dependent)
<b>Venting</b>	Adjustable rate
<b>RF Generator</b>	Air cooled 13.56 MHz, 300 Watts (Standard)

### Power Requirements

**Electricity**      110 VAC or 220 VAC single phase,  
2.3 KW, 50/60 Hz

<b>Process Gas</b>	Input pressure 1- 2 bar 30 PSI
<b>Purge Gas</b>	Input pressure 1- 2 bar 30 PSI
<b>Compressed Air</b>	Input pressure 5 bar 75 PSI

**System Dimensions**      775 x 723 x 781 mm  
30.5" x 28.5" x 30.75"

**Weight**      156.36 kg / 344 lbs.

### Options

- 1% pressure monitor
- Pressure controller
- Light tower
- Barcode reader
- Alternate gas selector
- Recipe editor software
- Spectrographic endpoint detection
- 300 and 600 watt RF/kHz generator
- Stainless steel MFC
- Printer
- Recirculating liquid chiller
- Table
- Vapor phase MFC
- Liquid monomer handling system
- Vacuum pumps (rotary vane, dry and scroll)

### Safety Certification Standards

- CE certified
- EN 61010
- EN 61326

### PVA TePla America, Inc.

251 Corporate Terrace • Corona, CA 92879  
Tel: (951) 371-2500 • Fax: (951) 371-9792  
www.pvateplaamerica.com  
Email: sales@pvateplaamerica.com