Downstream Plasma Applicator, WR284

GERLING

The GA6102 Downstream Plasma Applicator was designed as general purpose tool for plasma process development. It features a quartz plasma tube fitted between standard stainless steel vacuum fittings which are easily disassembled for tube replacement. Standard Swagelok® fittings are provided for water cooling as well as waveguide perforations for viewing and/or additional forced air cooling of the plasma tube.

To facilitate process development for different gas recipes, the waveguide is designed with flanges at both ends. This allows connection to a sliding short circuit (such as model GA1205) which helps to optimize microwave coupling as the load impedance varies with gas recipe. For basic installations a fixed position short can be installed in place of the sliding short circuit. A popular feature for laboratory applications is the quick-connect waveguide flange which allows rapid assembly and disassembly of adjacent waveguide components using single screw clamps (model GA8410).

General Specifications:

Waveguide WR284

Flanges UG-584/U with taper Frequency 2450 MHz nominal

Input Power 1.5 kW continuous max. (process dependent

and may require additional cooling)

Vacuum Flanges 2-3/4" Conflat®, Type 304 stainless steel

O-rings Parker Parofluor®

Water Fittings Stainless steel Swagelok® 1/4" nuts and ferrules;

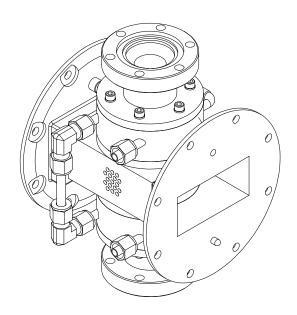
Copper tubing and channels

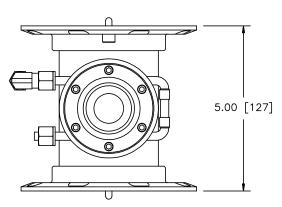
Construction Dip brazed aluminum waveguide Finish Chemical film; Black textured paint

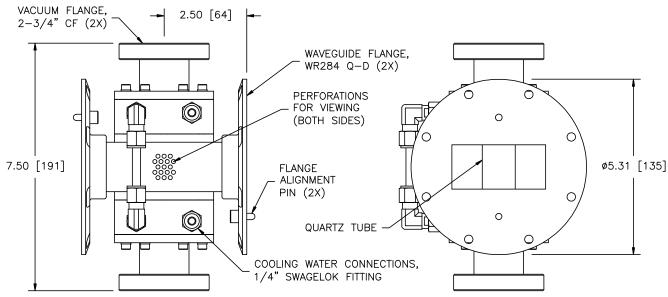
Options:

- Alternate vacuum flange styles
- Integrated waveguide termination (fixed or sliding)
- Flange interlock switches











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