Harrick Plasma Cleaner PDC-32G



Tool Type: Surface treatment
Location: Microfluidics Lab
Description: Plasma cleaner

Manufacturer: Harrick

About

The Harrick PDC-32G is a compact table top plasma cleaner for nanoscale surface cleaning and activation of small samples. The attached PlasmaFlo gas mixer allows for quantitative control of up to two different process gasses and monitoring of the vacuumed pressure within the chamber.

Safety Concerns

The plasma cleaner uses **high frequency RF radiation**. If you have a pacemaker or similar device, please consult your doctor before using.

Training Documentation

Plasma Cleaner SOP

Recipes

Brian Dincau found that the following recipe works well for bonding PDMS to PDMS or Glass:

- Power High
- Pressure 440 to 460 mTorr
- Duration 30s
- Nitrogen flow adjust as needed to maintain desired pressure.

• Mate surfaces immediately after treatment, then transfer to an oven at 115C for 20 minutes.

Detailed Specifications

• 3 stage adjustable RF power settings

• Max RF power: 18W

• Chamber size: 3" diameter x 6.5" Pyrex chamber

• Valve threads: 1/8 NPT

Reference Documentation

harrick-plasma-product-information-web.pdf

plasma_cleaner_manual_32g.pdf

ufl_harrick_plasma_operating_instructions.pdf

harrick-plasma-cleaner-users-manual.pdf

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