# 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**

### **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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