

# Harrick Plasma Cleaner PDC-32G

## Plasma Cleaner



**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. (Hot plate OK too)

## 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
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## 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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