

OPERATING INSTRUCTIONS

FOR THREE STAGE

8702 OIL VAPOR PUMP

- Ultimate Pressure: 7×10^{-8} Hg without a cold trap¹
- Critical Fore Pressure 0.15 mm Hg
- Pumping Speed: 30L/sec. measured from 10^{-4} to 10^{-5} mm Hg. @22°C.
- Total Volume of Oil - 65cc - Apiezon C, Krytox® (Ace Cat. No. 14036)
- Power Input:

Ejection Stage - 75 watts, 15.0 ohms
Booster Stage - 77 watts, 15.0 ohms
High Vacuum Stage- 105 watts, 20.0 ohms
Total 257 watts Approx. Volts (maximum filled) 120
Control with autotransformer 2.1 amps

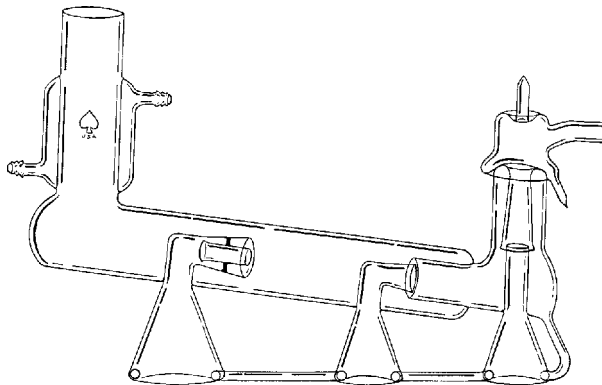
- Heaters - Nichrome Coils

SET UP

Add the oil (65cc) thru the large end with a pipet and allow to drain thoroughly.

Connect the large (inlet) tube to the system to be evacuated, and the small tube to a mechanical pump. Use tubing as large as the respective sizes if possible and keep lines to a minimum length; try to avoid bends. If rubber tubing must be used to connect the forepump, wrap it well with vinyl tape to reduce leakage. Rubber is porous.

The heating coils are connected in series as supplied² and will operate at the above wattage ratios when one of the three cords supplied is connected to the open terminals. For heat control, plug the cord into a variable voltage transformer such as a Powerstat® (ACE Cat. No. 12081).



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