

Particulate Filter Assembly



The 580-6001 series 2.0 micron filter is designed to protect laser gases from unwanted particulates which may exist in the laser gas system. The filter assembly is intended to be placed directly to the inlet port or ports for the premixed laser gas or the pure component laser gases.

Features

- Meets the Requirements for CO₂ Laser Gases. 2.0 Micron Rating or Exceeds the Most Stringent Requirements for Lasing Gases.
- Flexibility of Installation. Compression Tube Fittings Add to Ease of Installation.
- Long Life. Replacement Filter Available.

Specifications

Isolation Valves
 Brass Bar Stock Bodies
 316L Stainless Steel Diaphragms

Compression Tube Fittings
 300 Series Stainless Steel

Filter Assembly Stainless Steel Body
 Filter Element Stainless Steel

How to Order:

Part Number	Description
580-6001	Filter Assembly with 2.0-Micron Rating. Inlet and Outlet Connections are 1/4" Stainless Steel Compression Tube Fittings. Isolation Valves Allow for Gas Shut Off during Filter Replacement.
830-0318	Replacement filter 1/4" 2-Micron Filter Element

Special Applications

Molecular Sieve Filter



The 580-1700 Series filters are designed for use in high pressure, high purity laser gas systems to prevent the possible introduction of moisture into lasing, purge, or assist gas streams.

Materials

Housing Brass Bar Stock
 Seals Buna-N
 Inlet and Outlet Fittings Brass 1/4" FPT

Specifications

Pressure Drops
 2.4 PSIG at 3 scfm Air

Efficiency99% Original

Maximum Operating Pressure
 2000 PSIG (138 BAR)
 500 PSIG Oxygen (33.3 BAR)

Weight 2.6 lbs. (1.2 kgs)

How to Order:

Part Number	Housing/ Catalyst	Removal Capacity
580-1701	Housing	N/A
580-1723	13X Mole Sieve (removes oil and water)	5.4 grams H ₂ O
580-1733	4A Mole Sieve (removes water)	6.0 grams H ₂ O
580-1753	Activated Carbon (removes C ₃ and up)	4.8 grams C ₃
580-1743	Sintered Bronze (removes 5µm particle)	99.5% efficiency