

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 and Specifications

- *Meets the requirements for CO₂ Laser Gases*
2.0 micron rating meets 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
- *Isolation valves*
Brass barstock bodies
316L stainless steel diaphragms
- *Compression tube fittings*
300 series stainless steel
- *Filter assembly*
Stainless steel body
- *Stainless steel filter element*

Ordering Information

Part Number	Description
580-6001	Filter assembly with 2.0-micron rating. Inlet and outlet connections are ¼" stainless steel compression tube fittings. Isolation valves allow for gas shut off during filter replacement.
580-6002	½" Assembly with ball valves. Pipeline use.
580-6003	½" Assembly with 90° elbow (high pressure 4500).
830-0317	Filter assembly with 2.0-micron rating. Inlet and outlet connections are ¼" MPT.
830-0318	Replacement filter ¼" 2-micron filter element
830-8989	40-micron cartridge
830-8990	½" MPT
830-8999	Replacement ½" 40-micron filter element

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 and Specifications

- *Housing*
Brass barstock
- *Seals*
Buna-N
- *Inlet and Outlet Fittings*
Brass ¼" FPT
- *Pressure Drop*
2.4 PSIG at 3 scfm air
- *Efficiency*
99% original
- *Maximum Operating Pressure*
2000 PSIG (138 BAR)
500 PSIG Oxygen (33.3 BAR)
- *Weight*
2.6 lbs. (1.2 kg)

Ordering Information

Part Number	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