

Installation and Use

Step 1: Unpack the Filter

The filter is double-bagged for cleanroom service and should remain packaged until installation.

NOTE: Do not remove the filter from the protective bag unless you are in a clean environment.

1. Remove the filter from the box and carry it into the gray area.
2. Remove the outer protective bag and discard.
3. Carry the filter (sealed in the inner bag), into the clean area.

Step 2a: Install the Filter (VCR®/Compression Seal)

1. Prepare the connection fitting in place on the gas line. Any other fitting components, such as stainless steel gaskets, should be blown clean with a filtered gas before use.
2. Maintain a flow of at least 1 SLPM (0.05 SCFM) of inert gas during installation to minimize tubing and filter contamination from environmental moisture and particles. The recommended purge gas is electronic-grade nitrogen.
3. Open the inner bag and remove the filter. Remove the fitting protection caps and seat the filter on the mating connections.
4. For VCR or compression seal (Swagelok®) connection: Tighten the nuts by hand, then 1/8 turn past hand tight by wrench for VCR or compression seal compatible fittings.

Step 2b: Install the Filter (Butt Weld)

1. Prepare the proper orbital TIG welding head for the tube size to be welded.
2. Set the proper welding schedules. Refer to the specific technical guides furnished by the welding equipment manufacturer for additional specifications.
3. Open the inner, transparent bag and remove the filter. Remove the fitting protection cap.

4. Prepare the outlet connection for welding. Flow purge gas from the inlet of the filter at 5 SLPM for 5 minutes prior to weld startup. Complete weld.
5. Prepare the inlet connection for welding. Flow purge gas from the outlet of the filter at 5 SLPM for 5 minutes prior to weld startup. Complete weld.
6. Verify integrity of the seal by appropriate helium leak-testing procedures
7. Turn the gas **ON** then **OFF**, 10 times to remove any particulate generated during filter installation. (The flow rate used should at least equal the process specification)
8. Installation is complete; initiate startup procedures for process gas

NOTE: Refer to specific technical guides furnished by fitting manufacturers for additional specifications.

Step 3: Prepare the Filter for Use

1. Verify integrity of the seal by appropriate helium leak-testing procedures.
2. Turn the gas flow **ON**, then **OFF**, 10 times to remove any particles generated during installation. (The flow rate used should at least equal the process flow specifications.)
3. Installation is complete. Initiate startup procedures for process gases.

Filter Replacement

1. Turn off the process gas.



CAUTION! Purge the system with inert gas for a minimum of 4 hours at full gas flow when using toxic, corrosive or pyrophoric gases.

2. Remove the existing filter from the gas line and seal with fitting caps.
3. Install a replacement filter as outlined above.



CAUTION! Dispose of the used filter in compliance with local regulations.

Entegris Standard Warranties

GENERAL LIMITED WARRANTY FOR NON-CUSTOM ENTEGRIS PRODUCTS

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Applicable Warranty Period

As used in this General Limited Warranty the term Applicable Warranty Period for the indicated product groups are as follows:

Entegris Products	Warranty Period	Entegris Product Codes	Entegris Products	Warranty Period	Entegris Product Codes
Polymeric membrane products Exceptions: Does not apply to membrane-based purifiers	1 year from date of shipment	H4, H5, M4, M6	Non-dispense electro-mechanical products	1 year from date of shipment	—
Metal membrane products Exceptions: Nickel membrane gas filtration products	2 years from date of shipment	I2	Integrated shipping systems products	30 days from date of shipment	—
Exceptions: Nickel membrane gas diffuser products	5 years or 100,000 cycles (whichever comes first) from date of shipment	I2	Wafer handling, electronic packaging products and cleaning systems	90 days from date of shipment	—
Exceptions: Nickel membrane gas diffuser products	5 years or 100,000 cycles (whichever comes first) from date of shipment	I5	Liquid fittings, containers and housings	1 year from date of shipment	—
Polymeric membrane-based purifiers / Other liquid purifiers / Gas purifiers / Chemical filters	1 year from date of shipment	I7, I8, F1, F2, F4	Exceptions: Sheetlined chemical container products and FluoroPure® PFA Liners (blistering, cracking or leakage only)	18 months from date of shipment	—
Dispense products and liquid subsystems	1 year from date of shipment	H6	Exceptions: FluoroPure® o-rings and gasket materials	90 days from date of shipment	—
Exceptions: Products and subsystems purchased by Original Equipment Manufacturers (OEM)	18 months from date of shipment	H6	Software Products	1 year from date of shipment	—
			Other Products	1 year from date of shipment	—

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