

Super Clean™ Gas Filters

Simply the best

E-Line Series



CHROMATOGRAPHY
AND ALLIED CHEMICALS

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Super Clean™ E-Line Gas Filters

Cartridge systems make changing gas filters quick and easy. A base plate allows cartridges to be exchanged without introducing oxygen. Spring-loaded check valves seal when a filter is removed and open only when a new filter has been locked in place. There is no longer a need for loosening and tightening filters everytime a trap is changed and your system will not become contaminated during the proces



Carrier Gas Purity

Carrier gas should contain less than 1ppm of oxygen, moisture, or other trace contaminants, to prevent column degradation, increase column lifetime and decrease stationary phase bleed. The expense of using high-purity gases in combination with carrier gas line purifiers will be offset by longer column lifetime and less GC maintenance.

Contaminants cause ghost peaks to appear during temperature programming and degrade the validity of analytical data. Make-up gas also should be contaminant-free, or baseline fluctuations and excessive detector noise can occur; detector gases should be free of water and hydrocarbons, or excessive baseline noise can result. Gas purifiers remove these contaminants from gas sources, thereby improving system performance.



Super Clean™ E-Line Gas Filters

E-Line Moisture Filter

Catalog No. SGT-EF1002

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Moisture Removal

Moisture in carrier gas lines will prematurely degrade oxygen and hydrocarbon traps and increase detector noise. As a precaution, we highly recommend installing a moisture trap before the hydrocarbon and oxygen traps on all carrier gas lines.

Capacity

H ₂ O	0.8 g
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E-Line Oxygen Filter

Catalog No. SGT-EF1001

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Oxygen Removal

Oxygen is a column killer. It is present even in UHP gases, as minutes leaks at fittings allow oxygen to influx against the concentration gradient. Because oxygen can enter a gas line at any fitting or during gas bottle exchange, the oxygen trap should be the last connection before the gas line enters the chromatograph.

Capacity

O ₂	160 mL
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E-Line Indicating Hydrocarbon Filter

Catalog No. SGT-EF1003

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H ₂ , N ₂ , AR, Air
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Hydrocarbon Removal

Use a hydrocarbon trap if your gas has a potential source of hydrocarbon contaminants or if you suspect you are observing carrier gas ghost peaks. Install the hydrocarbon trap after the moisture trap, to prevent moisture from degrading the hydrocarbon-trapping ability of the activated carbon in the hydrocarbon trap.

Capacity

HC	2.3 g (as <i>n</i> -butane)
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E-Line Combi Filter

Catalog No. SGT-EF1006

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H ₂ , N ₂ , AR, Air
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Fuel Gas Filter

The Fuel Gas Filter is perfect for purifying flame ionization detector (FID) fuel gases, removing both moisture and hydrocarbons. Using the Fuel Gas Filter for FID Hydrogen and air will produce a stable baseline, improving overall reproducibility and sensitivity. Ideal for use in combination with a zero air generator.

Capacity

H ₂ O	0.5 g
HC	1 g (as <i>n</i> -butane)

E-Line Triple Filter

Catalog No. SGT-EF1004

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H ₂ , N ₂ , AR
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Triple Filter

The Triple trap is ideal for purifying carrier gas. It contains oxygen, moisture and hydrocarbon scrubbers in one easy to change economical cartridge

Capacity

H ₂ O	0.17 g
O ₂	130 mL
HC	0.5 g (as <i>n</i> -butane)

E-Line Triple Filter with AT Indicator

Catalog No. SGT-EF1005

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H ₂ , N ₂ , AR
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Triple Filter with AT Indicator

The Triple trap is also available with AT indicator for Hydrocarbon.

Capacity

H ₂ O	0.17 g
O ₂	130 mL
HC	0.5 g (as <i>n</i> -butane)

E-Line Triple Filter Helium Specific

Catalog No. SGT-EF1007

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	He
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Triple Filter Helium Specific

The Helium-Specific Triple trap is ideal for purifying helium in GC/MS systems. This trap is packed and purged under helium and contains oxygen, moisture and hydrocarbon scrubbers in one cartridge.

Capacity

H ₂ O	0.17 g
O ₂	130 mL
HC	0.5 g (as <i>n</i> -butane)

E-Line Triple Filter Hydrogen Specific

Catalog No. SGT-EF1008

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	H ₂
Dimensions	14.5 cm x Ø 3 cm
Weight	0.09 Kg
Estimated Lifetime	> 1 year



Triple Filter Hydrogen Specific

The Hydrogen-Specific Triple trap is ideal for purifying hydrogen in GC/MS systems. This trap is packed and purged under hydrogen and contains oxygen, moisture and hydrocarbon scrubbers in one cartridge.

Capacity

H ₂ O	0.17 g
O ₂	130 mL
HC	0.5 g (as <i>n</i> -butane)

Ordering Information

Super Clean™ E-Line Filter and Base plate Kits



Part No. *	Description	qty.
SGT-EF2001-B8	SGT E-Line Oxygen Kit - 1/8" Brass Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Oxygen Trap	kit
SGT-EF2002-B8	SGT E-Line Moisture Kit - 1/8" Brass Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Moisture Trap	kit
SGT-EF2003-B8	SGT E-Line Indicating Hydrocarbon Kit - 1/8" Brass Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Indicating Hydrocarbon Trap	kit
SGT-EF2004-B8	SGT E-Line Triple Kit - 1/8" Brass Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Oxygen/Moisture/Hydrocarbon Trap	kit
SGT-EF2005-B8	SGT E-Line Triple Kit with AT Indicator - 1/8" Brass Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Oxygen/Moisture/Hydrocarbon Trap with AT Indicator	kit
SGT-EF2006-B8	SGT E-Line Combi (Hydrocarbon/Moisture) Kit Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Hydrocarbon/Moisture Trap	kit
SGT-EF2007-B8	SGT E-Line Triple He-specific Kit - 1/8" Brass Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Oxygen/Moisture/Hydrocarbon Helium Specific Trap	kit
SGT-EF2008-B8	SGT E-Line Triple H ₂ -specific Kit - 1/8" Brass Includes (1) 1 position E-Line base plate with 1/8" Brass inlet/outlet fittings and (1) E-Line Oxygen/Moisture/Hydrocarbon Hydrogen Specific Trap	kit

* Standard fittings are 1/8" Brass. All Kits are available in 1/4" to 1/8" Brass and Stainless steel fittings. To order replace Part No. suffix into '-B4' for 1/4" Brass, '-S8' for 1/8" Stainless steel and '-S4' for 1/4" Stainless steel fittings. Price upon request.

Ordering Information

Super Clean™ Replacement E-Line Filter Bundles



Part No. *	Description	qty.
SGT-EF3001	SGT E-Line Oxygen Bundle Includes (3) E-Line Oxygen Traps	bundle
SGT-EF3002	SGT E-Line Moisture Bundle Includes (3) E-Line Moisture Traps	bundle
SGT-EF3003	SGT E-Line Indicating Hydrocarbon Bundle Includes (3) E-Line Indicating Hydrocarbon Traps	bundle
SGT-EF3004	SGT E-Line Triple Bundle Includes (3) E-Line Oxygen/Moisture/Hydrocarbon Traps	bundle
SGT-EF3005	SGT E-Line Triple with AT Indicator Bundle Includes (3) E-Line Oxygen/Moisture/Hydrocarbon Traps with AT Indicator	bundle
SGT-EF3006	SGT E-Line Combi (Hydrocarbon/Moisture) Bundle Includes (3) E-Line Hydrocarbon/Moisture Traps	bundle
SGT-EF3007	SGT E-line Triple He-specific Bundle Includes (3) E-Line Oxygen/Moisture/Hydrocarbon Helium Specific Traps	bundle
SGT-EF3008	SGT E-line Triple H2-specific Bundle Includes (3) E-Line Oxygen/Moisture/Hydrocarbon Hydrogen Specific Traps	bundle

Super Clean™ Replacement E-Line Filters



Part No.	Description	qty.
SGT-EF1001	SGT E-line Oxygen Filter	ea.
SGT-EF1002	SGT E-line Moisture Filter	ea.
SGT-EF1003	SGT E-line Hydrocarbon Filter with AT Indicator	ea.
SGT-EF1004	SGT E-line Triple Filter	ea.
SGT-EF1005	SGT E-line Triple Filter with AT indicator	ea.
SGT-EF1006	SGT E-Line Combi (Hydrocarbon/Moisture) Filter	ea.
SGT-EF1007	SGT E-line Triple He-specific Filter	ea.
SGT-EF1008	SGT E-line Triple H2-specific Filter	ea.

Super Clean™ E-Line Filter Base plates



Part No.	Description	qty.
SGT-EF4002-B4	SGT E-Line Base plate - 1/4" Brass	ea.
SGT-EF4002-B8	SGT E-Line Base plate - 1/8" Brass	ea.
SGT-EF4002-S4	SGT E-Line Base plate - 1/4" Stainless Steel	ea.
SGT-EF4002-S8	SGT E-Line Base plate - 1/8" Stainless Steel	ea.

Super Clean™ E-Line Base plate Flush Cap Replacement Set



Part No.	Description	qty.
B1130	Flush Cap Replacement for E-Line Base plate	ea.
B1131	Flush Cap Replacement Set for E-Line Base plate	2-pk.

Replacement O-Rings for E-Line Base plate



Part No.	Description	qty.
B1110	Base plate O-ring Replacement Set for E-Line Base plate	20-pk.

Super Clean™ Base plate fittings for E-Line Base plate



Part No.	Description	qty.
B0120	Connector Set - 1/4" Brass	6-pk
B0121	Connector Set - 1/8" Brass	6-pk
B0122	Connector Set - 1/4" Stainless steel	6-pk.
B0123	Connector Set - 1/8" Stainless steel	6-pk.



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