

Super Clean™ Gas Filters

Simply the best

Cartridge Type



Features

- Ultra-high capacity
- High-purity output ensures 99.9999% Pure gas
- "Quick connect" fittings for easy, leak-tight cartridge changes
- Glass inside to prevent diffusion; plastic outside for safety
- Easy-to-read indicators



Super Clean™ 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

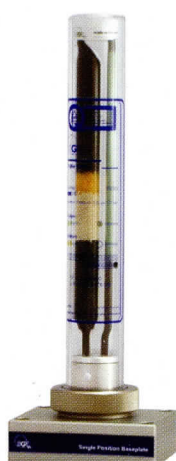


Carrier Gas Purity

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.

Applications & Configurations



Triple Filter Kit for MS/ECD/NPD

The Triple Filter Kit is an all in one solution ideal for purifying carrier gas. The kit includes 1 Triple (Oxygen/Moisture/Hydrocarbon) Filter cartridge and (1) 1 position base plate.

Filter Type	Part No.	Gas Type
Triple Filter	SGT-F0301	Carrier Gas

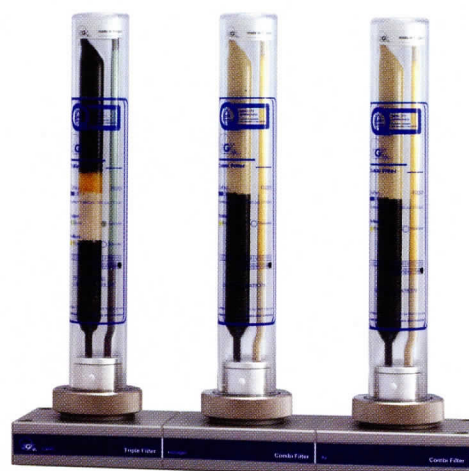
Kit Part No. SGT-B1010-B8

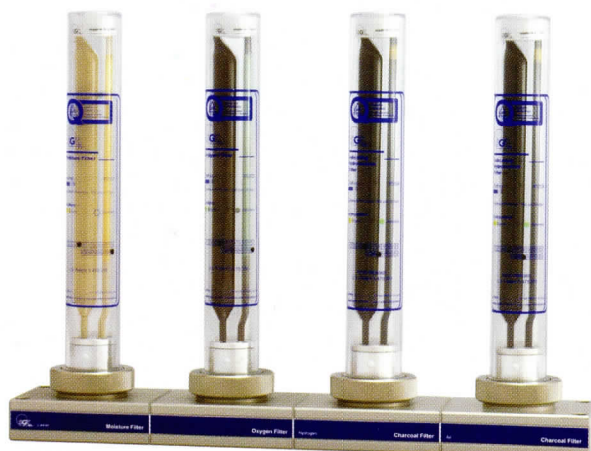
Complete Filter Bundle Kit for FID

The Fuel Gas Triple Kit is perfect for purifying carrier gas and flame ionization detector (FID) fuel gases, removing oxygen, moisture and hydrocarbons from the carrier gas using the **triple filter** and removing both moisture and hydrocarbons from the Fuel gas using the two **combi filters**. Using the combi filters for FID Hydrogen and air will produce a stable baseline, improving overall reproducibility and sensitivity.

Filter Type	Part No.	Gas Type
Triple Filter	SGT-F0301	Carrier Gas
Combi Filter	SGT-F0201	Hydrogen
Combi Filter	SGT-F0201	Air

Kit Part No. SGT-B1030-B8





Ultra Capacity Filter Bundle Kit for FID

Ultra **purity** combined with Ultra **capacity**. This kit contains (1) Ultra High Capacity Moisture filter, (1) Ultra High Capacity Oxygen Filter, (2) Ultra High Capacity Hydrocarbon Filters and (1) four position base plate.

Filter Type	Part No.	Gas Type
Moisture Filter	SGT-F0101	Carrier Gas
Oxygen Filter	SGT-F0102	Carrier Gas
Hydrocarbon Filter	SGT-F0103	Hydrogen
Hydrocarbon Filter	SGT-F0103	Air

Kit Part No. SGT-B1040-B8

Fuel Gas Kit for FID

The Fuel Gas Kit Gas 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.

Filter Type	Part No.	Gas Type
Combi Filter	SGT-F0201	Hydrogen
Combi Filter	SGT-F0201	Air

Kit Part No. SGT-B1020-B8



Super Clean™ Gas Filters for GC/MS

Ultra-High Capacity Moisture Filter

Catalog No. SGT-F0101

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	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



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

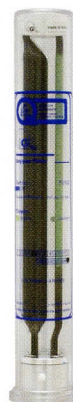
H ₂ O	7.2 g
------------------	-------

Ultra-High Capacity Oxygen Filter

Catalog No. SGT-F0102

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	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



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	1000 mL
----------------	---------

Ultra-High Capacity Hydrocarbon Filter

Catalog No. SGT-F0103

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	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



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	24 g (as <i>n</i> -butane)
----	----------------------------

Ultra-High Capacity Indicating Hydrocarbon Filter

Catalog No. SGT-F0104

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	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Indicating Hydrocarbon

The hydrocarbon trap is also available with AT indicator.

Capacity

HC	24 g (as <i>n</i> -butane)
----	----------------------------

High Capacity Combi Filter

Catalog No. SGT-F0201

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	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



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

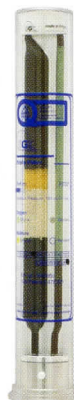
H ₂ O	3.5 g
HC	12 g (as <i>n</i> -butane)

High Capacity Triple Filter

Catalog No. SGT-F0301

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	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



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

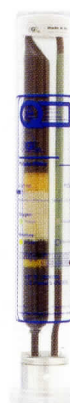
H ₂ O	1.8 g
O ₂	500 mL
HC	7 g (as <i>n</i> -butane)

High Capacity Triple Filter with AT Indicator

Catalog No. SGT-F0303

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	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Triple Filter with AT Indicator

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

Capacity

H ₂ O	1.8 g
O ₂	500 mL
HC	7 g (as <i>n</i> -butane)

High Capacity Triple Filter Helium Specific

Catalog No. SGT-F0302

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	He
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



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	1.8 g
O ₂	500 mL
HC	7 g (as <i>n</i> -butane)

High Capacity Triple Filter Hydrogen Specific

Catalog No. SGT-F0304

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	H ₂
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



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	1.8 g
O ₂	500 mL
HC	7 g (as <i>n</i> -butane)

Super Clean™ Gas Filters for LC/MS



Kit Part No. SGT-B1021-B4

To meet the high flow needs of the LC/MS system, the hydrocarbon or moisture filled cartridges are positioned and placed in parallel. The incoming gas stream is split equally between the cartridges and the two streams are rejoined after purification but before the gas exits the base plate.



Kit Part No. SGT-B1022-B4

Ultra-High Capacity Hydrocarbon Filter bundle for LC/MS

Catalog No. SGT-F0720

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	20 L/min.
Usable For	Nitrogen
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	3 to 6 months

Ultra-High Capacity Indicating Hydrocarbon Filter bundle for LC/MS

Catalog No. SGT-F0722

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	20 L/min.
Usable For	Nitrogen
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	3 to 6 months

Ultra-High Capacity Moisture Filter bundle for LC/MS

Catalog No. SGT-F0721

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	20 L/min.
Usable For	Inert carrier gas, He, H ₂ , N ₂ , AR, Air
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	3 to 6 months



Hydrocarbon Removal

Up to 20 L/min. of hydrocarbon-free nitrogen per minute.

Capacity

HC	24 g (as <i>n</i> -butane)
----	----------------------------



Indicating Hydrocarbon

The high flow hydrocarbon trap is also available with AT indicator.

Capacity

HC	24 g (as <i>n</i> -butane)
----	----------------------------



Moisture Removal

High Flow moisture filters are ideal for central purifying solutions. 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	7.2 g
------------------	-------

Ordering Information

Super Clean™ Filter and Base plate Kits



Part No. *	Description	qty.
SGT-B1010-B8	SGT 1 Triple Filter Kit - 1/8" Brass Includes (1) 1 position base plate with 1/8" Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Trap	kit
SGT-B1011-B8	SGT 1 Triple Helium Specific Filter Kit - 1/8" Brass Includes (1) 1 position base plate with 1/8" Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Helium Specific Trap	kit
SGT-B1012-B8	SGT 1 Triple Hydrogen Specific Filter Kit - 1/8" Brass Includes (1) 1 position base plate with 1/8" Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Hydrogen Specific Trap	kit
SGT-B1020-B8	SGT 2 Combi Filters Kit - 1/8" Brass Includes (1) 2 position base plate with 1/8" Brass inlet/outlet fittings and (2) Hydrocarbon/Moisture Traps	kit
SGT-B1030-B8	SGT 3 Filters Kit - 1/8" Brass Includes (1) 3 position base plate with 1/8" Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Trap and (2) Hydrocarbon/Moisture Traps	kit
SGT-B1040-B8	SGT 4 Filters Kit - 1/8" Brass Includes (1) 4 position base plate with 1/8" Brass inlet/outlet fittings and (1) Moisture Trap, (1) Oxygen Trap, and (2) Hydrocarbon Traps	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.



Super Clean™ Replacement Filter Bundles

Part No.	Description	qty.
SGT-F0730	SGT Filter Bundle of 3 Includes (1) Oxygen/Moisture/Hydrocarbon Trap and (2) Hydrocarbon/Moisture Traps	bundle
SGT-F0740	SGT Filter Bundle of 4 Includes (1) Moisture Trap, (1) Oxygen Trap, and (2) Hydrocarbon Traps	bundle

Super Clean™ Replacement Filters



Part No.	Description	qty.
SGT-F0101	SGT Moisture Filter	ea.
SGT-F0102	SGT Oxygen Filter	ea.
SGT-F0103	SGT Hydrocarbon Filter	ea.
SGT-F0104	SGT Hydrocarbon with AT indicator Filter	ea.
SGT-F0201	SGT Combi (Hydrocarbon/Moisture) Filter	ea.
SGT-F0301	SGT Triple (Oxygen/Moisture/Hydrocarbon) Filter	ea.
SGT-F0303	SGT Triple (Oxygen/Moisture/Hydrocarbon) with AT indicator Filter	ea.
SGT-F0302	SGT Triple (Oxygen/Moisture/Hydrocarbon) Helium-specific Filter	ea.
SGT-F0304	SGT Triple (Oxygen/Moisture/Hydrocarbon) Hydrogen-specific Filter	ea.

Super Clean™ Filter Base plates



Part No. *	Description	qty.
SGT-B0010-B8	SGT Base plate 1 Position - 1/8" Brass	ea.
SGT-B0020-B8	SGT Base plate 2 Position - 1/8" Brass	ea.
SGT-B0030-B8	SGT Base plate 3 Position - 1/8" Brass	ea.
SGT-B0040-B8	SGT Base plate 4 Position - 1/8" Brass	ea.

* Standard fittings are 1/8" Brass. All base plates 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™ Base plate Flush Cap Replacement Set for GC/MS



Part No.	Description	qty.
B0130	Flush Cap Replacement Set	2-pk.

Wall mounting Bracket for all Cartridge base plates



Part No.	Description	qty.
B0050	Wall-mounting Bracket Set	ea.

Replacement O-Rings for all Cartridge base plates



Part No.	Description	qty.
B0110	Base plate O-ring Replacement Set	20-pk.

Super Clean™ Base plate fittings for GC/MS



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.

Super Clean™ Filter and Base plate Kits for LC/MS



Part No. *	Description	qty.
SGT-B1021-B4	SGT High Flow Hydrocarbon Filter Kit - 1/4" Brass Includes (1) 2 position high flow base plate with 1/4" Brass inlet/outlet fittings, (2) High Flow Hydrocarbon Traps, and a 1/4" Brass Particle Filter	kit
SGT-B1022-B4	SGT High Flow Moisture Filter Kit - 1/4" Brass Includes (1) 2 position high flow base plate with 1/4" Brass inlet/outlet fittings, (2) High Flow Moisture Traps, and a 1/4" Brass Particle Filter	kit

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

Super Clean™ Replacement Filter Bundles for LC/MS



Part No.	Description	qty.
SGT-F0720	SGT High Flow Hydrocarbon Filter Bundle Includes (2) High Flow Hydrocarbon Traps	bundle
SGT-F0722	SGT High Flow Indicating Hydrocarbon Filter Bundle Includes (2) High Flow Indicating Hydrocarbon Traps	bundle
SGT-F0721	SGT High Flow Moisture Filter Bundle Includes (2) High Flow Moisture Traps	bundle

Super Clean™ Base plate for LC/MS



Part No. *	Description	qty.
SGT-B0021-B4	SGT High Flow Base plate 2 Position - 1/4" Brass Includes 1/4" Brass Particle Filter	ea.

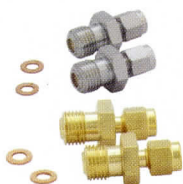
* Standard fittings are 1/4" Brass. LC/MS base plate is available in 1/4" Brass and Stainless steel fittings. To order replace Part No. suffix into '-S4' for 1/4" Stainless steel fittings. Price upon request.

Ordering Information



Particle Filter for LC/MS

Part No.	Description	qty.
B0060	0.5 Micron Particle Filter (1/4" Brass)	ea.
B0065	0.5 Micron Particle Filter Cup Replacement Pack	12-pk.



Super Clean™ Base plate fittings for LC/MS

Part No.	Description	qty.
B0124	High Flow Connector Set - 1/4" Brass	6-pk.
B0125	High Flow Connector Set - 1/4" Stainless steel	6-pk.



Super Clean™ Base plate Flush Cap Replacement Set for LC/MS

Part No.	Description	qty.
B0131	High Flow Flush Cap Replacement Set	2-pk.