Super Clean™ Gas Filters

Simply the best

Click-On Inline Series





Features

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

rev. 1.3

EP-B 04774871.0 U.S. Patent Pending 10/567,949

Click-On Inline Super Clean™ Traps

Click-On Inline Super-Clean™ Traps are inline traps designed with Click-On adaptor connectors which allows inline 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 need for loosening and tightening fittings every time a trap is changed and your system will not become contaminated during the process.



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.

Click-On Inline Super Clean™ Traps - Metal

Click-On Inline Moisture Trap

Catalog No.	SGT-CO1001

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	3 - 5 years



Moisture Removal

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

Capacity	
H_2O	21 g

Click-On Inline Oxygen Trap

Catalog No.	SGT-CO1002

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	3 - 5 years



Oxygen Removal

Oxygen is 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	3000 mL

Click-On Inline Hydrocarbon Trap

Catalog No. SGT-CO1003

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	3 - 5 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	36 g (as *n*-butane)

Click-On Inline Combi (Moisture + Hydrocarbon) Trap

Catalog No. SGT-CO1007

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	2 - 3 years



Fuel Gas Filter

The Fuel Gas Inline trap 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_2O	10 g
HC	18 g (as *n*-butane)

Click-On Inline Combi (Moisture + Oxygen) Trap

Catalog No. SGT-CO1004

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	2 - 3 years



Combi Filter

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

Capacity	
H_2O	10 g
O_2	1500 mL

Click-On Inline Triple (Moisture + Hydrocarbon + Oxygen) Trap

Catalog No. SGT-CO1005

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	2 - 3 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_2O	6 g
O_2	1000 mL
HC	12 g (as *n*-butane)

Click-On Inline Triple (Moisture + Hydrocarbon + Oxygen) He Specific Trap

Catalog No. SGT-CO1006

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	He
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	2 - 3 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_2O	6 g
O_2	1000 mL
HC	12 g (as *n*-butane)

Click-On Inline Triple (Moisture + Hydrocarbon + Oxygen) H2 Specific Trap

Catalog No. SGT-CO1008

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	H2
Dimensions	20 cm x Ø 3.2 cm
Weight	0.6 Kg
Estimated Lifetime	2 - 3 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_2O	6 g
O_2	1000 mL
HC	12 g (as *n*-butane)

Click-On Inline Super Clean™ Indicator

Click-On Inline Glass Indicating Triple (Moisture + Hydrocarbon + Oxygen) He Specific Trap

Catalog No. SGT-CO1061

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	He
Dimensions	20 cm x Ø 3.2 cm
Weight	0.2 Kg
Estimated Lifetime	> 1 year[1]



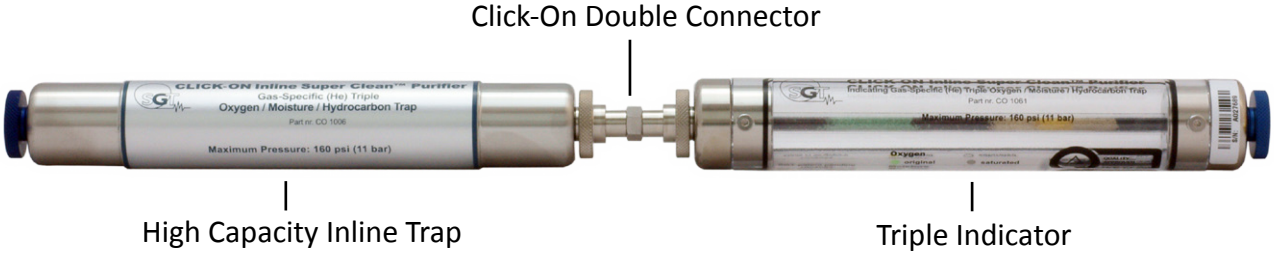
Triple Indicator He Specific

Install an indicator after the Click-On inline filter so there is no confusion about when to replace traps

Capacity	
H_2O	0.1 g
O_2	100 mL
HC	0.07 g (as *n*-butane)

[1] In combination with an ultra high capacity inline trap estimated lifetime will be 2 - 5 years.

Figure 1. Example of an Inline Indicator installed after an Ultra High Capacity Stainless Steel trap using the Click-On double connector, so there is no confusion about when to replace the non-indicating traps.



Click-On Inline Super Clean™ Indicating Traps - Glass

Click-On Inline Glass Indicating Moisture Trap

Catalog No. SGT-CO1011

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2 - 3 years



Moisture Removal

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

Capacity	
H_2O	6 g

Click-On Inline Glass Indicating Oxygen Trap

Catalog No. SGT-CO1021

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2 - 3 years



Oxygen Removal

Oxygen is 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	850 mL

Click-On Inline Glass Hydrocarbon Trap

Catalog No. SGT-CO1031

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2- 3 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	15 g (as *n*-butane)

Click-On Inline Glass Indicating Hydrocarbon Trap

Catalog No. SGT-CO1032

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2 - 3 years



Indicating Hydrocarbon

The hydrocarbon trap is also available with AT indicator.

Capacity	
HC	15 g (as *n*-butane)

Click-On Inline Glass Indicating Combi (Moisture + Hydrocarbon) Trap

Catalog No. SGT-CO1071

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2 - 3 years



Fuel Gas Filter

The Fuel Gas Inline trap 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 reproducability and sensitivity. Ideal for use in combination with a zero air generator.

Capacity	
H_2O	3 g
HC	7 g (as *n*-butane)

Click-On Inline Glass Indicating Combi (Moisture + Oxygen) Trap

Catalog No. SGT-CO1041

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2 - 3 years



Combi Filter

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

Capacity	
H_2O	3 g
O_2	415 mL

Click-On Inline Glass Indicating Triple (Moisture + Hydrocarbon + Oxygen) He Specific Trap

Catalog No. SGT-CO1051

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	He
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2 - 3 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_2O	2 g
O_2	400 mL
HC	1.5 g (as *n*-butane)

Click-On Inline Glass Indicating Triple (Moisture + Hydrocarbon + Oxygen) H2 Specific Trap

Catalog No. SGT-CO1081

Specifications

Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min.
Usable For	H2
Dimensions	20 cm x Ø 3.2 cm
Weight	0.25 Kg
Estimated Lifetime	2 - 3 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_2O	2 g
O_2	400 mL
HC	1.5 g (as *n*-butane)

Ordering Information

Click-On Inline Super Clean™ Trap and Connector Kits (Metal)



Part No. *	Description	qty.
SGT-CO1001-B8	SGT Click-On Moisture Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Moisture Trap	kit
SGT-CO1002-B8	SGT Click-On Oxygen Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Oxygen Trap	kit
SGT-CO1003-B8	SGT Click-On Hydrocarbon Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Hydrocarbon Trap	kit
SGT-CO1007-B8	SGT Click-On Combi Trap Kit (Hydrocarbon/Moisture) - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Hydrocarbon/Moisture Trap	kit
SGT-CO1004-B8	SGT Click-On Combi Trap Kit (Oxygen/Moisture) - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Oxygen/Moisture Trap	kit
SGT-CO1005-B8	SGT Click-On Triple Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Oxygen/Moisture/Hydrocarbon Trap	kit
SGT-CO1006-B8	SGT Click-On Triple Helium Specific Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Oxygen/Moisture/Hydrocarbon Helium Specific Trap	kit
SGT-CO1008-B8	SGT Click-On Triple Hydrogen Specific Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Oxygen/Moisture/Hydrocarbon Hydrogen Specific Trap	kit

Click-On Inline Super Clean™ Indicating Trap and Connector Kit (Glass)



Part No. *	Description	qty.
SGT-CO1061-B8	SGT Click-On Glass Indicating Triple Helium Specific Indicating Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicating Oxygen/Moisture/Hydrocarbon Helium Specific Trap	kit

Click-On Inline Super Clean™ Indicating Trap and Connector Kits (Glass)



Part No. *	Description	qty.
SGT-CO1011-B8	SGT Click-On Glass Indicating Moisture Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicating Moisture Trap	kit
SGT-CO1021-B8	SGT Click-On Glass Indicating Oxygen Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicating Oxygen Trap	kit
SGT-CO1031-B8	SGT Click-On Glass Hydrocarbon Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Hydrocarbon Trap	kit
SGT-CO1032-B8	SGT Click-On Glass Indicating Hydrocarbon Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicating Hydrocarbon Trap	kit
SGT-CO1071-B8	SGT Click-On Glass Indicating Combi Trap Kit (Hydrocarbon/Moisture) - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicating Hydrocarbon/Moisture Trap	kit
SGT-CO1041-B8	SGT Click-On Glass Indicating Combi Trap Kit (Oxygen/Moisture) - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicating Oxygen/Moisture Trap	kit
SGT-CO1051-B8	SGT Click-On Glass Indicating Triple Helium Specific Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicating Oxygen/Moisture/Hydrocarbon Helium Specific Trap (High Capacity)	kit
SGT-CO1081-B8	SGT Click-On Glass Indicating Triple Hydrogen Specific Trap Kit - 1/8" Brass Includes (2) 1/8" Brass Connectors and (1) Indicator for 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

Click-On Inline Super Clean™ Replacement Traps



Part No.	Description	qty.
SGT-CO1001	SGT Click-On Moisture Trap	ea.
SGT-CO1002	SGT Click-On Oxygen Trap	ea.
SGT-CO1003	SGT Click-On Hydrocarbon Trap	ea.
SGT-CO1007	SGT Click-On Combi (Hydrocarbon/Moisture) Trap	ea.
SGT-CO1004	SGT Click-On Combi (Oxygen/Moisture) Trap	ea.
SGT-CO1005	SGT Click-On Triple (Moisture/Oxygen/Hydrocarbon) Trap	ea.
SGT-CO1006	SGT Click-On Triple (Moisture/Oxygen/Hydrocarbon) He Trap	ea.
SGT-CO1008	SGT Click-On Triple (Moisture/Oxygen/Hydrocarbon) H2 Trap	ea.

Click-On Inline Super Clean™ Replacement Indicator



Part No.	Description	qty.
SGT-CO1061	SGT Click-On Glass Indicating Triple He Trap	ea.

Click-On Inline Super Clean™ Indicating Replacement Traps



Part No.	Description	qty.
SGT-CO1011	SGT Click-On Glass Indicating Moisture Trap	ea.
SGT-CO1021	SGT Click-On Glass Indicating Oxygen Trap	ea.
SGT-CO1031	SGT Click-On Glass Hydrocarbon Trap	ea.
SGT-CO1032	SGT Click-On Glass Indicating Hydrocarbon Trap	ea.
SGT-CO1071	SGT Click-On Glass Indicating Combi (Hydrocarbon/Moisture) Trap	ea
SGT-CO1041	SGT Click-On Glass Indicating Combi (Oxygen/Moisture) Trap	ea.
SGT-CO1051	SGT Click-On Glass Indicating Triple He Trap (high capacity)	ea.
SGT-CO1081	SGT Click-On Glass Indicating Triple H2 Trap	ea.

Click-On Connectors



Part No.	Description	qty.
CO2001	Click-On Connector Set - 1/4" Brass Includes (2) 1/4" Brass Click-On Connectors	2-pk.
CO2002	Click-On Connector Set - 1/8" Brass Includes (2) 1/8" Brass Click-On Connectors	2-pk.
CO2010	Click-On Connector Set - 1/4" Stainless Steel Includes (2) 1/4" Stainless Steel Click-On Connectors	2-pk.
CO2011	Click-On Connector Set - 1/8" Stainless Steel Includes (2) 1/8" Stainless Steel Click-On Connectors	2-pk.

Click-On Double Connector



Part No.	Description	qty.
CO2020	Click-On Double Connector Stainless Steel	ea

Ordering Information



Wall-mounting Clamps

Part No.	Description	qty.
CO3002	Click-On Wall-mounting Clamp Set	4-pk.

Replacement O-ring Set



Part No.	Description	qty.
CO3001	Click-On Replacement O-ring Set	20-pk.

Authorised Reseller