

# Super Clean™ Gas Filters

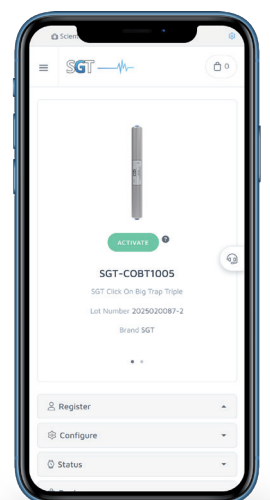


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U.S. Patent Pending 10/567,949

- High-purity output ensures 99.9999% Pure gas
- Largest Big Traps Available
- High Pressure Stainless Steel
- Click-On fittings for easy, leak-tight cartridge changes
- Available in two sizes:
  - » 1500 cc
  - » 750 cc

## QR Code Status Monitoring

- » View current trap Status
- » Get Technical Support
- » Set Maintenance Reminders
- » Request for Quotation



## ABOUT CLICK-ON INLINE BIG TRAPS

Click-On Inline Super-Clean™ Big 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.

## WHY GAS PURITY IS IMPORTANT

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 BIG TRAP SYSTEM COMPONENTS



### Click-On Connectors

Re-usable In- and outlet adapter connectors which allows inline cartridges to be exchanged without introducing contaminants.

Spring loaded check valves seal when a filter is removed and open only when a new filter has been locked in place.



### Click-On Inline Big Trap

The Click-On Big Trap is completely made out of stainless steel and can withstand high pressures.

The seals at each side of the trap will only be punctured when the Click-On connector is locked in place.



### Big Trap Mounting Brackets

Included in every installation kit are the wall mounting clamps to mount a Big trap to a wall or surface.



**GC / MS (ITD/MSD)**



Product	Part No.	Qty
Triple Big Trap	SGT-COBT1005 *	1
Click-On Connector Set	**	1

**GC / TCD**



Product	Part No.	Qty
Triple Big Trap	SGT-COBT1005 *	1
Click-On Connector Set	**	1

**GC / ECD**



Product	Part No.	Qty
Triple Big Trap	SGT-COBT1005 *	1
Combi (Moisture/Oxygen) Big Trap	SGT-COBT1004	1
Click-On Connector Set	**	1

**ICP-OES / ICP-MS**

Plasma Gas = Nebulizer Gas



Product	Part No.	Qty
Combi (Moisture/Oxygen) Big Trap	SGT-COBT1004	1
Click-On Connector Set	**	1

**ICP-OES**

Different Optic Flush Gas



Product	Part No.	Qty
Combi (Moisture/Oxygen) Big Trap	SGT-COBT1004	1
Click-On Connector Set	**	1

\* SGT-COBT1006 - Helium Specific  
 \* SGT-COBT1008 - Hydrogen Specific

\*\* CO2002 - Click-On Connector Set 1/8" Brass  
 \*\* CO2001 - Click-On Connector Set 1/4" Brass  
 \*\* CO2011 - Click-On Connector Set 1/8" Stainless Steel  
 \*\* CO2010 - Click-On Connector Set 1/4" Stainless Steel

**GC / FID**

GC/FID Solution 1 (Carrier Gas = Make-Up Gas)



Product	Part No.	Qty
Triple Big Trap	SGT-COBT1005 *	1
Combi (Hydrocarbon/ Moisture) Big Trap	SGT-COBT1007	2
Click-On Connector Set	**	3

GC/FID Solution 2 (Carrier Gas differs from Make-Up Gas)



Product	Part No.	Qty
Triple Big Trap	SGT-COBT1005 *	1
Combi (Hydrocarbon/ Moisture) Big Trap	SGT-COBT1007	3
Click-On Connector Set	**	4

**GC / (FPD/PFPD)**



Product	Part No.	Qty
Triple Big Trap	SGT-COBT1005 *	1
Combi (Hydrocarbon/ Moisture) Big Trap	SGT-COBT1007	2
Click-On Connector Set	**	3

**GC / (TSD/TID/NPD/PND)**



Product	Part No.	Qty
Triple Big Trap	SGT-COBT1005 *	1
Combi (Hydrocarbon/ Moisture) Big Trap	SGT-COBT1007	2
Click-On Connector Set	**	3

\* SGT-COBT1006 - Helium Specific  
 \* SGT-COBT1008 - Hydrogen Specific

\*\* CO2002 - Click-On Connector Set 1/8" Brass  
 \*\* CO2001 - Click-On Connector Set 1/4" Brass  
 \*\* CO2011 - Click-On Connector Set 1/8" Stainless Steel  
 \*\* CO2010 - Click-On Connector Set 1/4" Stainless Steel

LC/MS



Product	Part No.	Qty
Hydrocarbon Big Trap	SGT-COBT1003	1
Click-On Connector Set	**	1

TOC Analyzer





Product	Part No.	Qty
Combi (CO <sub>2</sub> / Moisture) Big Trap	SGT-COBT1010	1
Click-On Connector Set	**	1



Zero-Air Generator







Product	Part No.	Qty
Combi (CO <sub>2</sub> / Moisture) Big Trap	SGT-COBT1010	1
Click-On Connector Set	**	1

\*\* CO2002 - Click-On Connector Set 1/8 " Brass  
 \*\* CO2001 - Click-On Connector Set 1/4" Brass  
 \*\* CO2011 - Click-On Connector Set 1/8" Stainless Steel  
 \*\* CO2010 - Click-On Connector Set 1/4" Stainless Steel

Catalog No.	SGT-COBT1001	SGT-COBT1001M
<b>Specifications</b>		
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	22 inch x Ø 2.5 inch	11 inch x Ø 2.5 inch
Weight	3 Kg	1.5 kg
Estimated Lifetime	3 - 5 years	2-3 years
H <sub>2</sub> O Capacity	210 g	105 g

Catalog No.	SGT-COBT1002	SGT-COBT1002M
<b>Specifications</b>		
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	22 inch x Ø 2.5 inch	11 inch x Ø 2.5 inch
Weight	3 Kg	1.5 Kg
Estimated Lifetime	3 - 5 years	2 - 3 years
O <sub>2</sub> Capacity	4.5 L	2.25 L

Catalog No.	SGT-COBT1003	SGT-COBT1003M
<b>Specifications</b>		
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	22 inch x Ø 2.5 inch	11 inch x Ø 2.5 inch
Weight	3 Kg	1.5 Kg
Estimated Lifetime	3 - 5 years	2 - 3 years
HC Capacity (as <i>n</i> -butane)	360 g	180 g

Catalog No.	SGT-COBT1010	SGT-COBT1010M
<b>Specifications</b>		
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	22 inch x Ø 2.5 inch	11 inch x Ø 2.5 inch
Weight	3 Kg	1.5 Kg
Estimated Lifetime	3 - 5 years	2 - 3 years
CO <sub>2</sub> Capacity	450 g	225 g

### MOISTURE BIG TRAPS

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.

### OXYGEN BIG TRAPS

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.


### HYDROCARBON BIG TRAPS

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.


### CARBON DIOXIDE BIG TRAPS

Removes CO<sub>2</sub> from gas streams. This is a combination trap which also removes moisture.

Catalog No.	SGT-COBT1007	SGT-COBT1007M
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	22 inch x Ø 2.5 inch	11 inch x Ø 2.5 inch
Weight	3 Kg	1.5 Kg
Estimated Lifetime	3 - 5 years	2 - 3 years
H <sub>2</sub> O Capacity	105 g	52.5 g
HC Capacity (as <i>n</i> -butane)	180 g	90 g


**COMBI (HYDROCARBON/MOISTURE) BIG TRAPS**

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.

Catalog No.	SGT-COBT1004	SGT-COBT1004M
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	22 inch x Ø 2.5 inch	11 inch x Ø 2.5 inch
Weight	3 Kg	1.5 Kg
Estimated Lifetime	3 - 5 years	2 - 3 years
H <sub>2</sub> O Capacity	105 g	52.5 g
O <sub>2</sub> Capacity	2.25 L	1.12 L

**COMBI (OXYGEN/MOISTURE) BIG TRAPS**

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

Catalog No.	SGT-COBT1005 SGT-COBT1006 (He specific) SGT-COBT1008 (H2 specific)	SGT-COBT1005M SGT-COBT1006M (He specific) SGT-COBT1008M (H2 specific)
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	22 inch x Ø 2.5 inch	11 inch x Ø 2.5 inch
Weight	3 Kg	1.5 Kg
Estimated Lifetime	3 - 5 years	2 - 3 years
H <sub>2</sub> O Capacity	70 g	35 g
O <sub>2</sub> Capacity	2 L	1 L
HC Capacity (as <i>n</i> -butane)	120 g	60 g

**TRIPLE (OXYGEN/MOISTURE/HYDROCARBON) BIG TRAPS**

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

Catalog No. CO2002

Usable for

1/8" Brass tubing



**1/8" BRASS  
CLICK-ON CONNECTOR SET**

Click-On Connector Set - 1/8" Brass

Catalog No. CO2011

Usable for

1/8" Stainless Steel tubing



**1/8" STAINLESS STEEL  
CLICK-ON CONNECTOR SET**

Click-On Connector Set - 1/8" SS

Catalog No. CO2001

Usable for

1/4" Brass tubing



**1/4" BRASS  
CLICK-ON CONNECTOR SET**

Click-On Connector Set - 1/4" Brass

Catalog No. CO2010

Usable for

1/4" Stainless Steel tubing



**1/4" STAINLESS STEEL  
CLICK-ON CONNECTOR SET**

Click-On Connector Set - 1/4" SS

Catalog No. CO2020

Usable for

Big Traps



**DOUBLE  
CLICK-ON CONNECTOR**

A Double Connector to connect two Click-On Traps together

**Catalog No.** CO3001

**Usable for**

All click-on connectors



**O-RING REPLACEMENT SET**

A set of 10 + 10 Replacement O-rings for Click-On Inline Connectors.

**Catalog No.** CO3003

**Usable for**

Big Traps



**WALL MOUNT BRACKET SET**

Two wall mount brackets suitable for mounting a Click-On Big Trap.

**Catalog No.** B0060

**Usable for**

High flow applications



**PARTICLE FILTER**

Particulate filter for high flow applications.

**Catalog No.** B0065

**Usable for**

Particle Filter



**PARTICLE FILTER REPLACEMENT CUPS**

0.5 Micron Particle Filter Replacement Cups for use with Particle Filter.

## Installation Kits

Part No. *	Description	qty.
SGT-COBT1001-S4	Click-On Inline Moisture Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1002-S4	Click-On Inline Oxygen Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1003-S4	Click-On Inline Hydrocarbon Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1009-S4	Click-On Inline Co2 Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1004-S4	Click-On Inline Combi (Oxygen/Moisture) Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1007-S4	Click-On Inline Combi (Hydrocarbon/Moisture) Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1010-S4	Click-On Inline Combi (Co2/Moisture) Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1005-S4	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1006-S4	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) He Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.
SGT-COBT1008-S4	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) H2 Big Trap Kit Includes 1 Trap, 2 Connectors and 2 Wall-mount brackets	ea.

\* Standard fittings are 1/4" Stainless Steel. 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, '-B8' for 1/8" Brass and '-S8' for 1/8" Stainless steel fittings.

## Replacement Big Traps (1500 cc)

Part No.	Description	qty.
SGT-COBT1001	Click-On Inline Moisture Big Trap Moisture Replacement Trap	ea
SGT-COBT1002	Click-On Inline Oxygen Big Trap Oxygen Replacement Trap	ea
SGT-COBT1003	Click-On Inline Hydrocarbon Big Trap Hydrocarbon Replacement Trap	ea
SGT-COBT1004	Click-On Inline Combi (Oxygen/Moisture) Big Trap Combi Oxygen/moisture Replacement Trap	ea
SGT-COBT1007	Click-On Inline Combi (Hydrocarbon/Moisture) Big Trap Combi Hydrocarbon/Moisture Replacement Trap	ea
SGT-COBT1010	Click-On Inline Combi (Carbon dioxide/Moisture) Big Trap Combi Carbon dioxide/Moisture Replacement Trap	ea
SGT-COBT1005	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) Big Trap Triple Oxygen/Moisture/Hydrocarbon Replacement Trap	ea
SGT-COBT1006	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) He Big Trap Triple Oxygen/Moisture/Hydrocarbon Replacement Trap (Conditioned with Helium)	ea
SGT-COBT1008	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) H2 Big Trap Triple Oxygen/Moisture/Hydrocarbon Replacement Trap (Conditioned with Hydrogen)	ea

## Replacement Traps (750 cc)

Part No.	Description	qty.
SGT-COBT1001M	Click-On Inline Moisture Medium Trap Moisture Replacement Trap	ea
SGT-COBT1002M	Click-On Inline Oxygen Medium Trap Oxygen Replacement Trap	ea
SGT-COBT1003M	Click-On Inline Hydrocarbon Medium Trap Hydrocarbon Replacement Trap	ea
SGT-COBT1004M	Click-On Inline Combi (Oxygen/Moisture) Medium Trap Combi Oxygen/moisture Replacement Trap	ea
SGT-COBT1007M	Click-On Inline Combi (Hydrocarbon/Moisture) Medium Trap Combi Hydrocarbon/Moisture Replacement Trap	ea
SGT-COBT1010M	Click-On Inline Combi (Carbon dioxide/Moisture) Medium Trap Combi Carbon dioxide/Moisture Replacement Trap	ea
SGT-COBT1005M	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) Medium Trap Triple Oxygen/Moisture/Hydrocarbon Replacement Trap	ea
SGT-COBT1006M	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) He Medium Trap Triple Oxygen/Moisture/Hydrocarbon Replacement Trap (Conditioned with Helium)	ea
SGT-COBT1008M	Click-On Inline Triple (Oxygen/Moisture/Hydrocarbon) H2 Medium Trap Triple Oxygen/Moisture/Hydrocarbon Replacement Trap (Conditioned with Hydrogen)	ea

## Connector Sets

Part No.	Description	qty.
CO2001	Click-On Connector Set 1/4" Brass A set of 2 Click-On Inline Trap Connectors	ea.
CO2002	Click-On Connector Set 1/8" Brass A set of 2 Click-On Inline Trap Connectors	ea.
CO2010	Click-On Connector Set 1/4" Stainless Steel A set of 2 Click-On Inline Trap Connectors	ea.
CO2011	Click-On Connector Set 1/8" Stainless Steel A set of 2 Click-On Inline Trap Connectors	ea.
CO2020	Click-On Double Connector Set A Double Connector to connect two Click-On Inline Traps together	ea.
CO3001	Replacement O-ring Set for Click-On Connectors A set of 10 + 10 Replacement O-rings for Click-On Inline Trap Connectors	20/pk.

## Accessories

CO3003	Big Trap Wall-mounting Bracket Set Contains two Wall mount brackets suitable for mounting a genuine Click-On Inline Big Trap	2/pk.
B0060	Particle Filter 0.5 Micron Particle Filter recommended to be used in combination with a Big Trap when using high flow applications such as LC/MS	ea.
B0065	0.5 Micron Particle Filter Cup Replacement Pack Contains twelve 0.5 Micron Particle Filter Replacement Cups for use with Particle Filter	12/pk.



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Big Trap (750 cc)  
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