

3. Disposal



Saturated traps should not be placed in household waste bins. Please check local regulations for information about the disposal of chemical waste in your area. Never re-condition any trap: for recycling, please contact your local supplier.

PHYSICAL SPECIFICATIONS:

- **Max. inlet pressure (gauge):** 160 psi (11 barg).
- **Maximum flow:** 25 L/min.
- **Operating temperature:** -40° C to 65° C.
- **Dimensions:** 200 (L) x 32 mm (OD).
- **Gas outlet purity:** > 6.0 grade (purity level > 99.9999 %); rest impurities < 0.1 ppm at flow of 2 L/min.

Ordering Information

Click-On Inline Super Clean® Purifier

CLICK-ON Inline Super Clean™ SS Traps

SGT-CO1001	Moisture Trap
SGT-CO1002	Oxygen Trap
SGT-CO1003	Hydrocarbon Trap
SGT-CO1004	Combi (Oxygen/Moisture) Trap
SGT-CO1005	Triple Trap
SGT-CO1006	Triple He Trap
SGT-CO1007	Combi (Hydrocarbon/Moisture) Trap
SGT-CO1008	Triple H2 Trap

CLICK-ON Inline Super Clean™ Indicating Traps

SGT-CO1011	Indicating Moisture Trap
SGT-CO1021	Indicating Oxygen Trap
SGT-CO1031	Hydrocarbon Trap
SGT-CO1041	Indicating Combi (Oxygen/Moisture) Trap
SGT-CO1051	Indicating Triple He Trap
SGT-CO1061	Indicating Triple Trap
SGT-CO1071	Indicating Combi (Hydrocarbon/Moisture) Trap
SGT-CO1081	Indicating Triple H2 Trap

CLICK-ON Inline Super Clean™ SS Trap Kits

SGT-CO1001-B8	Moisture Trap Kit - 1/8" Brass
SGT-CO1002-B8	Oxygen Trap Kit - 1/8" Brass
SGT-CO1003-B8	Hydrocarbon Trap Kit - 1/8" Brass
SGT-CO1004-B8	Combi Trap Kit (Oxygen/Moisture) - 1/8" Brass
SGT-CO1005-B8	Triple Trap Kit - 1/8" Brass
SGT-CO1006-B8	Triple He Trap Kit - 1/8" Brass
SGT-CO1007-B8	Combi Trap Kit (Hydrocarbon/Moisture) - 1/8" Brass
SGT-CO1008-B8	Triple H2 Trap Kit - 1/8" Brass

CLICK-ON Inline Super Clean™ Indicating Trap Kits

SGT-CO1011-B8	Indicating Moisture Trap Kit - 1/8" Brass
SGT-CO1021-B8	Indicating Oxygen Trap Kit - 1/8" Brass
SGT-CO1031-B8	Hydrocarbon Trap Kit - 1/8" Brass
SGT-CO1041-B8	Indicating Combi Trap Kit (Oxygen/Moisture) - 1/8" Brass
SGT-CO1051-B8	Indicating Triple He Trap Kit - 1/8" Brass
SGT-CO1061-B8	Indicating Triple Trap Kit - 1/8" Brass
SGT-CO1071-B8	Indicating Combi Trap Kit (Hydrocarbon/Moisture) - 1/8" Brass
SGT-CO1081-B8	Indicating Triple H2 Trap Kit - 1/8" Brass

CLICK-ON Inline Super Clean™ parts

CO2001	Connector Set - 1/4" Brass
CO2002	Connector Set - 1/8" Brass
CO2010	Connector Set - 1/4" SS
CO2011	Connector Set - 1/8" SS
CO2020	Double Connector
CO3001	Replacement O-ring Set
CO3002	Wall-mounting Clamp Set

NOTE: For ordering CLICK-ON kit's with a different connector type, replace B4 with B8, S4 or S8. (B4 = 1/4" Brass, B8 = 1/8" Brass, S4 = 1/4" SS, S8 = 1/8" SS)



Click-On Inline Super Clean® Purifier

Instructions for Use



Patent pending
1024083



SGT-MANU0401.5
Rev. 6 (March 2021)



Click-On Inline Super Clean® purifiers are suited for the purification of noncorrosive gases with low contamination concentrations to a better as 6.0 grade (99.99990%) purity. Click-On Inline Super Clean® purifiers are connected to an appropriate genuine Click-On connector, which can only be connected to the gas line once.

CAUTION

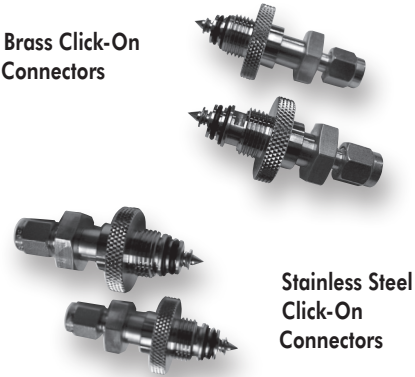
- The maximum concentration of oxygen allowed in the gas before entering the indicating trap is 0.5%. (Valid only for each purifier packed with O2-adsorbents and O2-indicator.)
- Maximum gas-maximum system pressure must not exceed 11 bar (160 psi).
- Install outlet connector first; then install inlet connector.
- Do not install a purifier system near or in a hot area (i.e., the hot-air exhaust at the rear of the GC).
- Never recondition any trap, ever: for eventual recycling, please contact your local supplier.
- Always install traps in the appropriate position with the label at the front.
- Installation of the connector to the gas line should be done by experienced and/or certified personnel.
- Do not forget to perform a reliable leak test, especially when installing an indicating trap.
- During installation of a new Click-On Inline Super Clean® indicating purifier, torsion on the plastic outer protection tube should be avoided at any time; watch out for cracks in the inside glass tube after installation (valid only for glass Click-On types of traps).
- The screws on the outside trap housing on both sides should never be removed; in case these screws should be missing, the cartridge should not be installed; it should be returned to the supplier.
- Click-On connectors are available as spare parts – do NOT repair damaged connectors; replace them with new ones.
- Only use original parts to avoid malperformance and loss of warranty.

NEVER INSTALL AN OXYGEN PURIFIER IN A GAS LINE FOR AIR: it will result in instant saturation!

1. Installation of a Click-On Connector

A Click-On connector is available for gas line tubing with OD of 1/4" and 1/8". These instructions are valid for each dimension of tubing; We advise the use of stainless steel or copper tubing for gas lines, preferably.

1. Shut off the incoming gas.
2. If no trap was previously in use, cut the gas line using an appropriate metal tubing cutter.
3. Disconnect the gas line from the analytical instrument.
4. Turn the carrier gas on and flush the gas line for 2 min with pure carrier gas; advised pressure: 90 psi.
5. Remove the blue closing plugs at both ends of the trap and connect the Click-On connectors tightly to both ends of the gas line.
6. For stainless steel tubing, always use stainless steel Click-On connectors; for copper tubing, always use brass Click-On connectors.
7. Flush the incoming gas line and connectors for 10 min with pure carrier gas by pushing back the needle valve on the Click-On connector. NOTE: SHARP EDGE!! Advised pressure: 90 psi.
8. Attach Click-On Trap to both Click-On connectors by punching the internal membranes in the traps and tightening the knurled ring clockwise.
9. Install outlet connector first; then install inlet connector.
10. Flush the trap/whole system for at least 15 min with pure carrier gas; advised pressure: 90 psi (except for He-specific traps; they are already conditioned and need no flush). Do NOT connect the gas line to the analytical instrument yet!
11. Once the purifier has been flushed, mount the outgoing carrier gas line to the analytical system and you are ready to go: normally, the user should not see any notable argon or nitrogen peaks in the chromatogram.
12. Check whole system for leaks after installation!



NOTE:

- Once the purifier is positioned to the Click-On connector, the PTFE seals inside the purifier will be punctured, and it is necessary to keep the trap in position by hand to prevent air entering the system.
- After installing the trap to the Click-On connector, highly pure gas will automatically stream from the purifier into the analytical system.
- Regularly check both the big and small Viton O-rings on the Click-On connector for hair cracks. The slightest leak may allow moisture, oxygen, and hydrocarbons to enter the system and contaminate the system. Also, check the glass indicating purifier cartridge for cracks with a leak detector.
- Indicator color change with moisture adsorbents devices according to EC Directive December 1998.
- All purifiers are packed under argon, except for the special, He-specific GC-MS filter.
- As long as there is no trap connected, the special Click-On connector will automatically block the gas stream.

NO GAS WILL PASS THROUGH THE GAS LINE!

2. Replacement of a Saturated Click-On Purifier

1. A purifier cartridge needs to be exchanged when the visual indicators (if applicable) start changing color. The original indicator color and the color after saturation are printed on the front of the purifier.
2. For metal traps without an indicator, it is strongly recommended you replace the trap once a year.
3. Before installation of a new replacement trap, make sure that the temperature of the replacement trap is more or less identical to the temperature of the (already installed) Click-On connectors on your gas line to avoid any leakage in connections. If the temperature is not identical, use at least one hour of stabilization time in the same room as the connectors.

Specific Capacities of Click-On Inline Super Clean® Purifier Types

Purifier Type	Gas Quality at Outlet	Max. Pressure	Max. Flow	Usable for:
Moisture	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas: He *Air *H2
Oxygen	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas
Hydrocarbons	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas: He *Air *H2
Ind. Triple (moisture + oxygen + hydrocarbons)	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas: He
Combi. (moisture + hydrocarbons)	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas: He *Air *H2
Triple (moisture + oxygen + hydrocarbons)	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas
Combi. (oxygen/ moisture)	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas: He, H2
Ind. combi. (oxygen/moisture)	> 6.0	11 bar - 160 psi	25 L/min	Inert carrier gas: He, H2

Purifier Type	H2O (gr)	Capacity O2 (ml)	Hydrocarbons (g)	Estimated Lifetime
Moisture	21	n/a	n/a	> 3 years
Oxygen	n/a	450	n/a	> 3 years
Hydrocarbons	n/a	n/a	36 (as n-butane)	> 3 years
Ind. Triple (moisture + oxygen + hydrocarbons)	2	32	1.5 (as n-butane)	> 1 year
Combi. (moisture + hydrocarbons)	10	n/a	18 (as n-butane)	> 2 years
Triple (moisture + oxygen + hydrocarbons)	6	150	12 (as n-butane)	> 2 years
Combi. (oxygen/ moisture)	10	225	n/a	> 2 years
Ind. combi. (oxygen/moisture)	3	65	n/a	> 2 years

NOTE: the data given in the table strongly depend on the level of gas purity prior to entering the purifier.

Replacement of a metal purifier cartridge without an indicator is recommended once a year.