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1.Click-On inline series

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.



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



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

Specifications

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



Ordering information and capacity

Part. number.*	Description and capacity	H ₂ O, g	O ₂ , ml	CH, g	CO ₂ , g
CO1001	Moisture removal	21			
CO1002	Oxygen removal		450		
CO1003	Hydrocarbon removal			36	
CO1004	Moisture + Oxygen removal	10	225		
CO1005	Moisture + Hydrocarbon + Oxygen removal	6	150	12	
CO1006	Moisture + Hydrocarbon + Oxygen removal for Helium	6	150	12	
CO1007	Moisture + Hydrocarbon removal	10		18	
CO1008	Moisture + Hydrocarbon + Oxygen removal for Hydrogen	6	150	12	
CO1009	Carbon Dioxide removal				35
CO1010	Moisture + Carbon Dioxide removal	10			18

Click-On Inline Super Clean Indicator

Specifications

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



Ordering information and capacity

Part. number*	Description and capacity	H ₂ O, g	O ₂ , ml	CH, g	CO ₂ , g
CO1011	Moisture removal	6			
CO1021	Oxygen removal		120		
CO1031	Hydrocarbon removal			9	
CO1032	Moisture + Oxygen removal			9	
CO1041	Moisture + Hydrocarbon + Oxygen removal	3	60		
CO1051	Moisture + Hydrocarbon + Oxygen removal for Helium	1.5	50	1.5	
CO1071	Moisture + Hydrocarbon removal	3		4.5	
CO1081	Moisture + Hydrocarbon + Oxygen removal for Hydrogen	1.5	50	1.5	
CO1091	Carbon Dioxide removal				10
CO1111	Moisture + Carbon Dioxide removal	3			5

Click-On Inline Super Clean Indicator CO1061

Specifications

Outlet Gas Quality (%)	>99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	25 L/min
Usable For	Inert carrier gas, He, H ₂ , N ₂ , AR, Air, Carbon Dioxide
Dimensions	20 cm x Ø 3.2 cm
Weight	0.2 Kg
Estimated Lifetime: In combination with an inline trap estimated lifetime	3-5years



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.



Ordering information for Click-On connector kits

Part. number	Description
CO2001	Click-On connector – O.D. 1/4" Brass (2pcs in set)
CO2002	Click-On connector – O.D. 1/8" Brass (2pcs in set)
CO2010	Click-On connector – O.D. 1/4" Stainless steel (2pcs in set)
CO2011	Click-On connector – O.D. 1/8" Stainless steel (2pcs) in set

Ordering information for Click-On double connector kits, Mounting clamps, O-Rings

Part. number	Description
CO2020	Double Click-On connector, Stainless steel
CO3002	Click-On Wall-mounting Clamp Set (4pcs)
CO3001	Click-On Replacement O-ring Set (20pcs)

			
CO2020	CO2001, CO2002, CO2010 CO2011	CO3002	CO3001

2.Click-On inline big trap series

- Ideal for Central Purifying Solutions
- Largest Big Trap Available
- High Pressure Stainless Steel
- High-purity output ensures 99.9999% Pure gas
- Click-On fittings for easy, leak-tight cartridge changes



Material	Stainless steel
Length	559 mm
Diameter	64 mm
Maximum inlet pressure	70 bar
Maximum flow	25 l/min

Ordering information

Part. number*	Description and capacity	H ₂ O, g	O ₂ , ml	CH, g	CO ₂ , g
COBT1001	Moisture removal	210			
COBT1002	Oxygen removal		4500		
COBT1003	Hydrocarbon removal			360	
COBT1004	Moisture + Oxygen removal	105	2250		
COBT1005	Moisture + Hydrocarbon + Oxygen removal	70	2000	120	
COBT1006	Moisture + Hydrocarbon + Oxygen removal for Helium	70	2000	120	
COBT1007	Moisture + Hydrocarbon removal	105		180	
COBT1008	Moisture + Hydrocarbon + Oxygen removal for Hydrogen	70	2000	120	
COBT1009	Carbon Dioxide removal				450
COBT1010	Moisture + Carbon Dioxide removal	105			225

3. Super-Clean series



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 fittings everytime a trap is changed and your system will not become contaminated during the process

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



Filter cartridges. Ordering information

Part. number	Description and capacity	H ₂ O, g	O ₂ , ml	CH, g	CO ₂ , g
F0101	Moisture removal	7.2			
F0102	Oxygen removal		150		
F0103	Hydrocarbon removal			12	
F0104	Hydrocarbon removal			12	
F0105	Carbon Dioxide removal				12
F0201	Moisture + Hydrocarbon removal	3.6		6	
F0202	Moisture + Carbon Dioxide removal	3.6			6
F0301	Moisture + Hydrocarbon + Oxygen removal	1.8	75	4	
F0302	Moisture + Hydrocarbon + Oxygen removal for Helium	1.8	75	4	
F0303	Moisture + Hydrocarbon + Oxygen removal	1.8	75	4	
F0304	Moisture + Hydrocarbon + Oxygen removal for Hydrogen	1.8	75	4	

Base plates. Ordering information

Part. number	Description
B0010-B4	Base plate 1 Position, O.D. 1/4" Brass
B0010-B8	Base plate 1 Position, O.D. 1/8" Brass
B0010-S4	Base plate 1 Position, O.D. 1/4" Stainless steel
B0010-S8	Base plate 1 Position, O.D. 1/8" Stainless steel
B0030-B4	Base plate 3 Position, O.D. 1/4" Brass
B0040-B4	Base plate 4 Position, O.D. 1/4" Brass

4. Electronic indicator

The Electronic Maintenance Indicator is a monitoring device that warns you when planned maintenance for a consumable is due. Depending on the model that you have purchased it can be attached to the consumable that you would like to monitor, or it can be placed on or near the equipment which has the consumable that you would like to monitor built in.



Electronic indicator. Ordering information

Part. number	Description
E0001	Replacement Battery
E0002	Micro USB Cable
E0010	Electronic Maintenance Indicator Kit for Universal Ring Nut
E0020	Electronic Maintenance Indicator Kit for Click-On Inline Filter
E0030	Electronic Maintenance Indicator Kit for Click-On Big Trap
E0040	Electronic Maintenance Indicator Kit for Super Clean Gas Filters

5. Cylinder pressure regulator with filter



Ordering information

RF1C-P-0-1.5-G-A6M-19-FS

Series

RF1C – one stage regulator with filter
RF2C – two stage regulator with filter

Material

P – Brass nickel-plated

Configuration

0 – standard

Outlet pressure

1.5 – 0..1.5bar
8 – 0..8bar

Inlet connection, cylinder

G – G3/4"
W – W21.8
WL – W21.8 LH
C5 – CGA 580
C6 – CGA 660
Other by reference

Material of fittings

FS – Stainless steel (standard)
FB – Brass

Filter type

1 – Moisture Trap
2 - Oxygen Trap
3 - Hydrocarbon Trap
4- Combi (Hydrocarbon/Moisture) Trap
5 - Combi (Oxygen/Moisture) Trap
6 - Triple (Moisture/Oxygen/Hydrocarbon) Trap
7 - Triple (Moisture/Oxygen/Hydrocarbon) He Trap
8 - Triple (Moisture/Oxygen/Hydrocarbon) H2 Trap
9 – Carbon dioxide trap

Indicator

0 – without indication
1 – with indication

Outlet connection, cylinder

- A3M – A-Flok fitting 3mm
- A6M - A-Flok fitting 6mm
- A8M - A-Flok fitting 8mm
- A10M - A-Flok fitting 10mm
- A12M - A-Flok fitting 12mm
- A2T - A-Flok fitting 1/8"
- A4T - A-Flok fitting 1/4"
- F4N – FNPT 1/4"
- M4N – MNPT 1/4"

Other types by reference

6. In-line Pressure regulator with filter



Ordering information

RF1D-P-0-1.5-F4N-A6M-19-FS

Series
RF1D – one stage regulator with filter

Material
P – Brass nickel-plated

Configuration
0 – standard

Outlet pressure
1.5 – 0..1.5bar
8 – 0..8bar

Inlet and Outlet connection

- A3M – A-Flok fitting 3mm
- A6M – A-Flok fitting 6mm
- A8M – A-Flok fitting 8mm
- A10M – A-Flok fitting 10mm
- A12M – A-Flok fitting 12mm
- A2T – A-Flok fitting 1/8"
- A4T – A-Flok fitting 1/4"
- F4N – FNPT 1/4"
- M4N – MNPT 1/4"

Other types by reference

Material of fittings
FS – Stainless steel (standard)
FB – Brass

Filter type

- 1 – Moisture Trap
- 2 – Oxygen Trap
- 3 – Hydrocarbon Trap
- 4 – Combi (Hydrocarbon/Moisture) Trap
- 5 – Combi (Oxygen/Moisture) Trap
- 6 – Triple (Moisture/Oxygen/Hydrocarbon) Trap
- 7 – Triple (Moisture/Oxygen/Hydrocarbon) He Trap
- 8 – Triple (Moisture/Oxygen/Hydrocarbon) H2 Trap
- 9 – Carbon dioxide trap

Indicator
0 – without indication
1 – with indication

7. Gas supply panel with filter



Ordering information

GSF1P-3-1:3 (1.5-N-A6M-F4N-19)-FS

Number of lines (3)

Lines with similar parameters in brackets (1:3)

Outlet pressure

1.5 – 0..1.5bar
2.5 – 0..2.5bar
8 – 0..8bar

Gas

N – N₂, CO₂, Ar and other inert gases
F - Inflammable gas
O - Oxygen
A – Acetylene

Inlet and Outlet connection

- A3M – A-Flok fitting 3mm
 - A6M - A-Flok fitting 6mm
 - A8M - A-Flok fitting 8mm
 - A10M - A-Flok fitting 10mm
 - A12M - A-Flok fitting 12mm
 - A2T - A-Flok fitting 1/8"
 - A4T - A-Flok fitting 1/4"
 - F4N – FNPT 1/4"
 - M4N – MNPT 1/4"
- Other types by reference

Material of fittings

FS – Stainless steel (standard)
FB - Brass

Filter type

- 1 – Moisture Trap
- 2 - Oxygen Trap
- 3 - Hydrocarbon Trap
- 4 - Combi (Hydrocarbon/Moisture) Trap
- 5 - Combi (Oxygen/Moisture) Trap
- 6 - Triple (Moisture/Oxygen/Hydrocarbon) Trap
- 7 - Triple (Moisture/Oxygen/Hydrocarbon) He Trap
- 8 - Triple (Moisture/Oxygen/Hydrocarbon) H2 Trap
- 9 – Carbon dioxide trap

Indicator

- 0 – without indication
- 1 – with indication

Example of ordering number:



GSF1P-3-1:3(8-N-A4T-A2T-11)



GSF1P-1-1(8-N-A4T-A2T-01)

For example GSF1P-1-1(8-N-A4T-A2T-01) is gas supply system for one line; inlet pressure 8bar; for inert gas; inlet connection stainless steel fitting A-Flok 1/4"; outlet connection stainless steel fitting A-Flok 1/8"; without indicator; moisture trap