

# GC Supplies



Column Install Kit



Column Rinse Kit

## GC Column Installation Kit

The capillary column installation kit contains:

- Diamond-tipped pencil
- 20x magnifier
- Ferrule removal tool
- Septum removal tool
- Refillable 2 oz bottle of Snoop

Cat. No.	Description	Price
430-2000	Kit with diamond-tipped cutting pencil	

## GC Column Rinse Kit

This kit makes solvent rinsing easy! Solvent rinsing removes many contaminants that accumulate in columns. The contaminants are removed by passing solvents through the column. Only bonded and cross-linked phase columns should be rinsed, or permanent damage to the column will result.

Cat. No.	Description	Price
430-3000	Capillary rinse kit	

## Injection Port Cleaning Kit



- 4 Stainless Steel brushes: 1/8", 3/16", 1/4" and 3/8"
- Scraper to remove residue

Cat. No.	Description	Price
124500	Injector cleaning kit	

## FID Cleaning Kit



This easy-to-use maintenance kit improves sensitivity, reduces noise and decreases detector spiking.

Cat. No.	Description	Price
9301-0985	FID cleaning kit	

## LD-228 Helium Leak Detector

- Detection limits as low as 0.01mL/min. for He



This rechargeable gas leak detector is designed for the detection of helium gas. It is fast, reliable and very easy to use. The pen-sized sample probe proves handy in confined spaces.

The detection principle of the new LD-228 Helium Gas Leak Detector is based on the difference in thermal conductivity between the sample gas and atmosphere. The detector contains a high sensitivity thermistor actuated cell and a vacuum sample intake.

When a leak is detected through the monitoring probe, an elevated reading occurs on the LED level meter and an alarm buzzer sounds.

Cat. No.	Description	Price
AL60229	LD-228 Helium gas leak detector	

## Snoop

Leak test most pressurized gas systems. We recommend that leak detecting solutions be used with care where there is any possibility of the fluid being aspirated into gas flow streams supplying the column or detector. This squeezable bottle comes with a "Snooper Tube" extendable up to 12 inches.

Cat. No.	Description	Price
9300-0311	Snoop - 8 ounce bottle	

## Glas-Treet

- Used to deactivate active sites found in glassware, chromatography columns, and glass wool
- Does not coat glass; renders it inactive chemically

Cat. No.	Description	Price
970069	Glas-Treet, 4 x 25mL	

## Col-Treet

- Silylating mixture designed for conditioning gas chromatography columns
- Eliminates peak tailing, peak broadening and residues which may reduce column efficiency

Col-Treet is NOT to be used with any hydrogen bonding stationary phases such as CARBOWAX® or phases with active hydrogen sites.

Cat. No.	Description	Price
970130	Col-Treet, 10 x 1mL	
970131	Col-Treet, 4 x 5mL	

### Gas Cylinder Regulators

To plumb your system properly, select one of our economical brass regulators and the proper gas purification devices from our newly expanded product offering. These regulators and our broad spectrum of in-line filters, combination traps, and gas purification systems are an excellent combination to plumb your systems.

Helpful Hint: Always depressurize a regulator before closing the adjusting knob and removing the regulator from the cylinder.

#### Brass Body, Dual Stainless Steel Diaphragms

##### Specifications:

- Max inlet pressure:** 3000 psi
- Operating temp:** -40°F to 165°F
- Inlet-outlet port:** 1/4" Male NPT
- Outlet valve:** 1/4" Male NPT
- 2 1/2" Dual scale gauges**
- CGA-346, 350, 340, 580, 590**
- Internal self-reseating relief valve**
- Delivery pressure:** 1 to 125 psi
- Weight:** 5.6 lbs

##### Materials of Construction:

- Body:** Brass
- Bonnet:** Brass
- Diaphragms:** Stainless Steel
- Seat material:** PTFE
- Seat assemblies:** Encapsulated
- Gauges:** Brass
- Adjusting knob:** ABS plastic
- Outlet needle valve:** Brass



Cat. No.	Description	Price
5183-4641	CGA 346, 125 psi max, Air	
5183-4642	CGA 350, 125 psi max, H <sub>2</sub> , Ar/Me	
5183-4643	CGA 540, 125 psi max, O <sub>2</sub>	
5183-4644	CGA 580, 125 psi max, He, Ar, N <sub>2</sub>	
5183-4645	CGA 590, 125 psi max, Air	

For 1/4" tubing, purchase a 1/4" adapter, listed below.

#### Regulator Outlet Adapters—Female NPT to Swagelok-style

Cat. No.	Description	Price
0100-0118	1/4" to 1/8" brass (included with regulators)	
0100-0119	1/4" to 1/4" brass*	

\* Required for plumbing 1/4" tubing to regulators above



6890/6850 Split Vent Trap



Spectra-Link Tubing Connecting System on a two-stage regulator

### Spectra-Link Flexible Tubing

- **Stainless Steel:** no outgassing or permeation through polymeric materials
- **Quick Connection:** prevents air from entering gas lines during tank changeover
- **Tested:** each system has leak rates < 1 x 10<sup>-5</sup> cc/sec

Cat. No.	Description	Price
SL-8	Spectra-Link 36" SS line with 1/8" ftgs	
SL-4	Spectra-Link 36" SS line with 1/4" ftgs	

#### Copper Tubing—Precleaned

5180-4196	Copper tubing, 1/8", 50 ft
5021-7107	Copper tubing, 1/8", 12 ft



### Universal/External Split Vent Trap

Split vent trap stops environmental pollution. The split vent trap was designed to protect the lab environment from the contaminants released by split injection systems, which can vent up to 500 times the amount of sample reaching the detector into the laboratory's air. A replaceable, impregnated carbon filter media traps and eliminates a broad range of contaminants. Replace approximately every six months.

Cat. No.	Description	Price
RDT-1020	Split vent trap with 3 cartridges (1/8" Swagelok fitting)	
RDT-1023	3-pack of replacement cartridges	

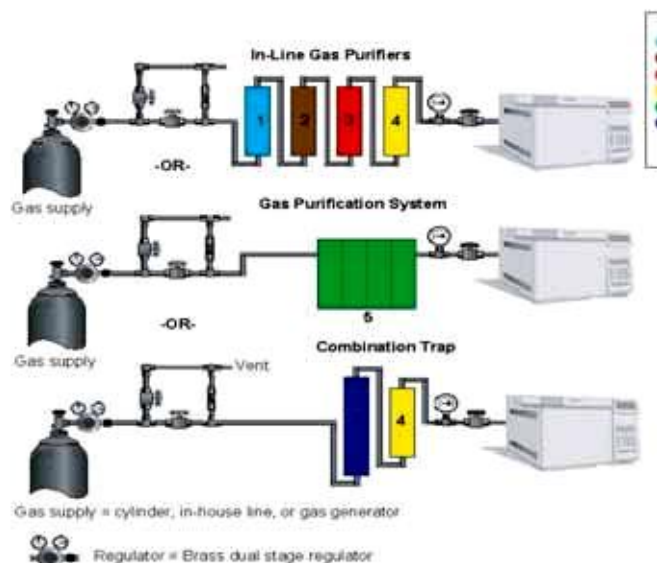
#### Replacement Split Vent Trap for 6890/6850

G1544-80530 2 replacement filters, 4 O-rings

# GC Supplies

## Gas Management—Moisture Removal Traps

Carrier Gas Purification Chart



**Key:**

- 1 Moisture Trap
- 2 Hydrocarbon Trap
- 3 Oxygen Trap
- 4 Indicating Oxygen Trap
- 5 Gas Purification System
- 6 Combination Trap for moisture, oxygen, and hydrocarbon removal

**Detector Gas Purification**

FID make-up, air, and  $H_2$

ECD make-up

ELCD reaction gas

MS carrier gas

## Economy Indicating Moisture Traps

- Three refillable sizes and three different packings •
- Both inlet and outlet connectors are equipped with stainless steel frits to prevent particulates from entering the gas stream
- Mixed packing bed makes improper installation impossible
- Easily refillable
- Tested to 150 psi (helium)

Agilent Indicating Moisture Traps are designed to remove water, oil and organics from gases commonly employed in, but not limited to, gas chromatography. Refillable moisture traps are constructed from Lexan brand polycarbonate tubing. Lightweight, chemically resistant, and of superior strength when compared to traps manufactured of acrylic.



### Economy Indicating Moisture Traps Continued

#### Molecular Sieve 13X (MT Series)

The preferred adsorbent for GC gas drying. Blue indicating sieve turns buff at 20% relative humidity.

Cat. No.	Size (cc)	Fitting (in.)	Removal Capacity (g)	Performance (ppb)	Price
MT120-2	120	1/8	21.6	20	
MT120-4	120	1/4	21.6	20	
MT200-2	200	1/8	36.0	18	
MT200-4	200	1/4	36.0	18	
MT400-2	400	1/8	72.0	14	
MT400-4	400	1/4	72.0	14	

#### Molecular Sieve 5! (MT-D Series)

High moisture capacity and simultaneously removes hydrogen sulfide and oil. Indicating Drierite changes dramatically from bright blue to pink as the gas stream approaches 40% relative humidity.

Cat. No.	Size (cc)	Fitting (in.)	Removal Capacity (g)	Performance (ppb)	Price
MT120-2-D	120	1/8	21.6	22	
MT120-4-D	120	1/4	21.6	22	
MT200-2-D	200	1/8	36.0	20	
MT200-4-D	200	1/4	36.0	20	
MT400-2-D	400	1/8	72.0	16	
MT400-4-D	400	1/4	72.0	16	

#### Silica Gel 40 (MT-S Series)

Highest moisture capacity adsorbent. Adsorbs as much as 40% of its weight in water. High affinity for hydrocarbons. Blue indicating gel turns from a deep blue to pale pink at 40% relative humidity.

Cat. No.	Size (cc)	Fitting (in.)	Removal Capacity (g)	Performance (ppb)	Price
MT120-2-S	120	1/8	31.5	40	
MT120-4-S	120	1/4	31.5	40	
MT200-2-S	200	1/8	52.5	39	
MT200-4-S	200	1/4	52.5	39	
MT400-2-S	400	1/8	105.0	39	
MT400-4-S	400	1/4	105.0	39	

#### Adsorbent Refill and Mounting Brackets for Economy Traps

Cat. No.	Description	Price
MSR-1	MT series, adsorbent refill, 1 pint	
MSR-2	MT-D series, adsorbent refill, 1 pint	
SGR	MT-S series, adsorbent refill, 1 pint	
MC-1	Mounting clip for 120 and 200cc traps	
UMC-4	Mounting clip for 400cc traps	

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