

Disposable Oxygen Trap

Model 43L

Model 43L Series disposable oxygen traps are a one piece anodized aluminum canister that contains highly active metal with an inert supported reagent. This oxygen trap is filled under a heated flow of ultra-high-purity helium, eliminating the need for extensive purging prior to GC/MS operation.



Benefits/Features

Removes a minimum of 300 mL of oxygen content at 99% efficiency. Removes traces of moisture with no appreciable loss of capacity.

Specifications

Connections: 1/8" or 1/4" compression tube fitting

Operating Conditions: Mount in vertical position to avoid channeling

Operating Pressure: 250 psig (17 bar) maximum

Operating Temperature: 212°F (100°C) maximum

Dimensions: 1-1/4" diameter x 10-1/2" long (32 mm x 267 mm)

Materials of Construction

Body: Aluminum

Inlet/Outlet: 40 micron sintered stainless steel frits

Fittings: Nickel-plated brass

Model Number	Description
Q3-43L*	Disposable Oxygen Trap – 1/8" Fitting
Q3-43L4	Disposable Oxygen Trap – 1/4" Fitting
Q3-43C	Mounting Clip

* Use in conjunction with Indicating Oxygen Trap Model Q3-43T.

Note: Regardless of the ability for these units to scrub oxygen, we recommend high-purity gases be employed at all times.

Indicating Oxygen Trap

Model 43T

Model 43T Series indicating oxygen traps remove 30 cubic centimeters of oxygen before the catalyst is completely expended. They contain an extremely active reagent that changes color from a pale green to a deep brown as the catalyst becomes saturated. Both inlet and outlet fittings are equipped with a sintered stainless steel frit, designed to prevent particulates and dust from becoming entrained in carrier lines. Used in conjunction with the Model 43L Disposable Oxygen Trap, the combination provides both high-capacity oxygen removal and visual assurance of catalyst activity, effectively and economically.



Benefits/Features

- Extends capillary and packed column life when indicating reagent experiences vivid color change.
- Prevents premature replacement of high-capacity nonindicating traps by signaling oxygen breakthrough.

Specifications

- Connections:** 1/8" or 1/4" compression tube fitting – nickel-plated brass
- Operating Pressure:** 100 psig (7 bar) maximum
- Operating Temperature:** 212°F (100°C)
- Dimensions:** 1/2" diameter x 10" long (13 mm x 254 mm)

Materials of Construction

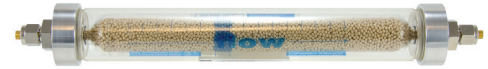
- Tube:** Borosilicate glass
- Fittings:** Nickel-plated brass
- Seal:** Graphitized Vespel®

Model Number	Description
Q3-43T	Indicating Oxygen Trap – 1/8" Fitting
Q3-43T4	Indicating Oxygen Trap – 1/4" Fitting
Q3-43TC	Mounting Clip

Glass Moisture Trap

Model 44G

Model 44G Series glass moisture traps were developed to satisfy the need for an indicating method of moisture removal, while eliminating the use of reactive plastics that can contribute to unacceptable background levels for extremely sensitive detectors. These traps are recommended for electron capture. Moisture removal capacity by this unit is 16 grams theoretically.



Benefits/Features

Heavy-walled glass tubing with polyethylene heat shrink cover.

Nickel-plated tube fittings create a truly inert sealing surface.

Eliminates bleed typical of reactive plastic-bodied traps.

Specifications

Connections: 1/4" or 1/8" compression tube fittings

Carrier Gases: Methane/argon, hydrogen/argon, nitrous oxide/nitrogen, argon, helium, hydrogen

Internal Volume: 100 mL

Operating Pressure: 125 psig (9 bar) maximum

Dimensions: 1-1/4" diameter x 12-3/4" long (32 mm x 324 mm)

Materials of Construction

Tube: Glass

Fittings: Nickel-plated brass

Model Number	Description
Q3-44G	Glass Indicating Moisture Trap – 1/4" Fitting
Q3-44G2	Glass Indicating Moisture Trap – 1/8" Fitting
Q3-44GR	1 Pint Molecular Sieve Refill
Q3-44GC	Mounting Clip

Hydrocarbon Trap

Model 44H

Model 44H Series hydrocarbon traps are designed for use in vapor phase applications such as gas chromatography. They contain a very highly active and fine pore structure, with high density and volume activity, and coconut shell based activated carbon that is prepurged prior to packaging to remove any traces of moisture. The all-metal construction eliminates organic contaminants that often bleed from traps constructed from plastics. Adsorbs alcohols, ethers, esters, chlorinated hydrocarbons, ketones and aromatics.



Benefits/Features

- Heavy-walled aluminum tubing.
- 40 micron sintered stainless steel frits in both inlet and outlet connections.
- Removes organics from carrier gases, air and hydrogen.

Specifications

- Connections:** 1/8" or 1/4" compression tube fittings
- Operating Pressure:** 250 psig (17 bar) maximum
- Operating Temperature:** 212°F (100°C) maximum
- Dimensions:** 1-3/4" diameter x 14" long (45 mm x 356 mm)

Materials of Construction

- Body:** Aluminum
- Seals:** Viton®
- Fittings:** Brass

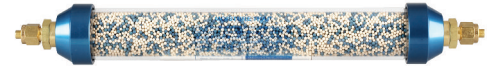
Model Number	Description
Q3-44H	Hydrocarbon Trap – 1/8" Fitting
Q3-44H4	Hydrocarbon Trap – 1/4" Fitting
Q3-44HR	Refill of Carbon, 1 Pint*
Q3-43C	Mounting Clip

* Accommodates two changes.

Indicating Moisture Trap

Model 44R

Model 44R Series indicating moisture traps are designed to remove water, oil and organics from gases commonly employed in, but not limited to, gas chromatography. These moisture traps contain both the 13X molecular sieve and indicating molecular sieve 4A, which are the highest capacity molecular sieves available and the preferred adsorbent for general gas drying. The blue indicating sieve turns buff at 20% relative humidity. Refilling can be accomplished through the O-Ring connector port without disturbing the more sensitive end cap seal.



Benefits/Features

All units are tested at 125 psi (9 bar) helium prior to shipping.

Specifications

Connections: 1/4" or 1/8" compression tube fitting

Internal Volume: 120 mL, 200 mL, and 400 mL

Operating Pressure: 125 psig (9 bar) maximum

Operating Temperature: 125°F (50°C) maximum

Dimensions:

400 mL: 1-3/4" diameter x 17-1/2" long
(51 mm x 445 mm)

200 mL: 1-5/8" diameter x 12-1/2" long
(41 mm x 318 mm)

120 mL: 1-1/5" diameter x 9" long
(31 mm x 229 mm)

Materials of Construction

Tube: Polycarbonate

O-Rings: Viton®

Fittings: Brass

Model Number	Description
Q3-44R-12	120 mL – 1/4" Fitting
Q3-44R-212	120 mL – 1/8" Fitting
Q3-44R-2	200 mL – 1/4" Fitting
Q3-44R-22	200 mL – 1/8" Fitting
Q3-44R	400 mL – 1/4" Fitting
Q3-44R-4	400 mL – 1/8" Fitting
Q3-44K	Refill Container, 1 Pint
Q3-43C	Mounting Clip for 120 mL and 200 mL
Q3-43CS	Mounting Clip for 400 mL