

Traps

Dry Ice/Liquid Nitrogen Cold Trap

Recommended to protect pump from condensable vapors. Use either dry ice slurry of LN2 in the 3 quart center well.

- Recommended for freeze dryers, vacuum manifolds, concentrators, etc.
- Dry ice slurry cold temperature maintained for up to 12 hours¹
- Liquid nitrogen cold temperature maintained up to 2 hours¹
- Easy to maintain

Dry Ice/Liquid Nitrogen Cold Trap has a large 3 qt. refrigerant well to extend effective cold trapping time. Flow-through design captures up to 1.5 liter condensate. The transparent ring allows visual monitoring of the trapping surface while the system is operating.

Note 1: Trap's cold temperature time will be less with a high vapor load.

Recommended for vacuum manifold (Schlenk Line) use

- Uses dry ice or liquid nitrogen as refrigerant
- Removable center make trapping surface easy to clean

DRY ICE/LIQUID NITROGEN COLD TRAP is an effective foreline cold trap for vacuum manifolds or Schlenk Lines. The trap has a large 3 quart (2.8 L) center well for the dry ice/isopropyl alcohol slurry or liquid nitrogen. The transparent ring allows *visual monitoring* of the trapping surface without breaking the vacuum while the system is operating. With dry ice cold temperature may be maintained for up to 12 hours depending upon the vapor load. With liquid nitrogen cold temperature can be maintained for up to 2 hours depending upon the vapor load.



Tubing Needed	Diam.	Height	Diameter	In/Out Offset	Trap Cat. No.	Repl. Seal Cat. No.
7/16 I.D.	10	8.25	10.75	3.5	1420H-14	545210

Ordering Information

Part Number	Description	Price
1420H-14	Dry Ice Trap ½" Inlet/Outlet	\$782.80
545210	Replacement Seal for 1420H-14	\$82.18

Traps

Ultra Cold Refrigerated Trap (-100° C)

- Saves the labor and expense of recharging dry ice/LN₂ traps
- Reduces the risk of pump failure caused by neglect of recharging dry ice/LN₂ traps
- Protects oil-sealed high vacuum pumps from corrosive organic vapors



Specifications	Catalog No. 1440H-01
Maximum low temperature	-100°C
Solvent trapping capacity	300 ml
Bath volume	1.3 L
Power	115V, 60 Hz, 500 Watts
Dimensions LxWxH in. (cm)	16.5 x 20 x 18.8 (42 x 51 x 47.5)
Weight, lbs (kg)	103.4 (47)

Notes:

1. Support/clamp set for glass trap; also order cat. no. 1420H-21

Ordering Information

Part Number	Description	Price
1440H-01	Ultra Cold Refrigerated Trap	P.O.R.

Traps

Coaxial Traps

- ISO NW flange connection
- Reduces oil backstreaming
- Stainless steel construction
- Easy replacement of elements
- Element must be ordered separate from trap
- One way flow



ISO Size	Capacity	Diameter	Height	Catalog Number
NW16	To 4 CFM	3.75	8.25	541001
NW25	To 12 CFM	5.50	8.25	541002
Stainless steel element for ISO NW16 trap				541921
Stainless steel element for ISO NW25				541922

Ordering Information

Part Number	Description	Price
541001	STD 2" COAXIAL TRAP NW 16	\$424.79
541002	STD 4" COAXIAL TRAP NW 25	\$541.53
541911	2" COPPER ELEMENT	\$67.30
541912	4" COPPER ELEMENT	\$90.63
541921	2" STAINLESS STEEL ELEMENT	\$67.30
541922	4" STAINLESS STEEL ELEMENT	\$90.63

Traps

Acid Neutralization Trap

- ISO NW flange connection
- Calcium Hydroxide Element
- Element changes from white to bluish-transparent when spent
- Configure with prior cold trap to reduce loading



ISO Size	Capacity	Trap	Replacement Element	Pump Connector Kit for Trap ¹
NW16	To 2 CFM (57 L/min.)	1420H-21	1420E-02	1420K-16
NW25	To 12 CFM (340 L/min.)	1420H-20	1420E-01	1420K-25

1. Includes hinge clamp, centering ring and elbow. Use with ChemStar® vacuum pumps.

Ordering Information

Part Number	Description	Price
1420A-01	REPLACEMENT WRENCH FOR 8917A-80	\$58.74
1420E-01	REPL ELEMENT FOR 1420H-20	\$114.60
1420E-02	REPL ELEMENT FOR 1420H-21	\$88.60
1420E-03	FILTER ELEMENT ASSEMBLY	\$146.70
1420H-01	INTERCONNECT KIT, SMALL OVENS	\$149.05
1420H-02	INTERCONNECT KIT, LARGE OVENS	\$149.05
1420H-12	INTERCONNECT KIT, GEM PUMP 8890	\$149.05
1420H-14	DRY ICE TRAP 1/2" INLET/OUTLET	\$782.80
1420H-16	Glass secondary cold trap, accepts 1/4in, ID hose	\$376.53

Traps

Ordering Information

Part Number	Description	Price
1420H-20	ACID NEUTRALZTN TRAP 9.5" SUMP NW25	\$366.69
1420H-21	ACID NEUTRALZTN TRAP 4.5" SUMP NW16	\$322.28
1420K-16	ACID TRAP ADAPTER KIT NW16	\$383.92
1420K-25	ACID TRAP ADAPTER KIT NW25	\$451.97
1421A-01	REPL. WRENCH FOR 8917A-80	\$58.74
1420E-01	REPL ELEMENT FOR 1420H-20	\$114.60
1420E-02	REPL ELEMENT FOR 1420H-21	\$88.60
1420E-03	FILTER ELEMENT ASSEMBLY	\$146.70
1420H-01	CONNECT KIT, SMALL OVENS	\$149.05
1420H-02	CONNECT KIT, LARGE OVENS	\$149.05
1420H-12	CONN. KIT, GEM PUMP 8890	\$149.05
1420H-14	DRY ICE TRAP 1/2" INLET/OUTLET	\$782.80
1420H-16	Glass Secondary Cold Trap, accepts 1/4in, ID hose	\$376.53
1420H-20	ACID NEUTRALZTN TRAP 9.5" SUMP NW25	\$366.69
1420H-21	ACID NEUTRALZTN TRAP 4.5" SUMP NW16	\$322.28
1420K-16	ACID TRAP ADAPTER KIT NW16	\$383.92
1420K-25	ACID TRAP ADAPTER KIT NW25	\$451.97