

## DRY ICE / ISOPROPANOL TRAP (-79°C)



1420H-14

- Recommended for use with freeze dryer, Schlenk line, concentrator and vacuum oven.
- Uses dry ice or liquid nitrogen as refrigerant
- Removable center make trapping surface easy to clean

DryIce/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 liters) center well for the dry ice/isopropyl alcohol slurry or liquid nitrogen; traps up to 1.5 liter condensate. 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.

Trap Connection	Height, in.(cm)	Diameter, in.(cm)	In/Out Offset, in.(cm)	CAT. No. <sup>1</sup>
7/16 in. I.D. tubing (18/8x5)	8.25	10.75	3.5	1420H-14

Note: 1. Gasket replacement kit 1420K-01

## Acid Neutralization Trap



1420K-25

- Neutralizes acidic vapors
- Element changes color when spent

The acid neutralization trap contains a large alkaline (calcium hydroxide) element cartridge to neutralize hydrous acids before they enter the vacuum pump. The element changes from white to bluish-transparent when spent and can be observed through the transparent trap body. For high vapor loads, place a cold trap between acid neutralization trap and pump to avoid rapidly saturating element.

Pump FAD, lpm (m <sup>3</sup> /hr)	Trap Connection	Dimensions LxW in.(cm)	Trap CAT. No.	Replacement Element CAT. No.	Pump Connection Kit CAT. No. <sup>1</sup>
<100 (<6)	DN 16 KF (NW16)	8x5.5(20x14)	1420H-21	1420E-02	1420K-16
101- 500(6 to 30)	DN 25 KF (NW25)	12.8x5.5(33x14)	1420H-20	1420E-01	1420K-25

Note: 1. Kit CAT. No. 1420K-16 includes KF 16 elbow, hinge clamp and centering ring and Kit CAT. No. 1420K-25 includes KF 25 elbow, hinge clamp and centering ring.

## Inlet Catchpot AKS



- Protects the vacuum pump from liquid ingestion

Catchpot trap mounts directly on inlet of pump via KF (NW) flange connection. Properly maintained trap prevents ingestion of liquid by pump. Liquid ingestion will cause pump to fail.

Pump Model	Flange Connection	Height, cm	Arm Reach, cm	CAT. No.
CRVpro 4/6/8, MPC 1201 T, 1801 Z, 2401 E, 2052, 2062, 2054, 2064	DN 16 KF (NW 16)	8.25	2.5	320016
CRVpro 16/24/30	DN 25 KF (NW 25)	8.25	2.5	320018
2070, 2071, 2080	DN 25 KF (NW 25)	8.25	10	320018-01

## Inlet/Exhaust Separator Jars



1423B

230 ml glass jar assembly attaches to pump intake or exhaust to capture ingested liquids.

Pump Model	CAT. No.
2014, 2032, 2034, 2037, 2042, 2044, 2047	1423B

## PARTICULATE, HYDROPHOBIC IN-LINE FILTERS



1475K-21

1475K-23

1475K-22

The filters are an economical solution to protect your WOB-L® piston vacuum pump from fine particulates and aerosols to 0.2 microns in diameter. Made of Polypropylene housing.

Pump Model	Porosity	Hose I.D. in.	Pack Qty.	CAT. No.
2511, 2515, 2522, 2534,2546	0.8 micron	1/4 to 3/8	10	1475K-21
2561, 2581, 2562, 2567	0.8 micron	1/4 to 3/8	1	1475K-22
2562, 2567	0.2 micron	1/4	1	1475K-23

Tubing CAT. No. 331040-5, gasket replacement kit 1420K-01.

## Application Note | Cold Traps

Cold traps employing a dry ice slurry or liquid nitrogen are effective as long as the refrigerant level is maintained. If the trap warms up while the pump is running, all of the trapped condensables will be ingested by the vacuum pump, contaminating the oil.

Cold traps must be cleaned out at the end of each day. If the pump is run overnight, the trapped condensables will ultimately be ingested by the pump as the trap warms up. Cleaning a Dry Ice Slurry/Liquid Nitrogen trap is easy. The steps are: 1. Turn off the pump. 2. Leak air into the trap from the application side. 3. Remove the center well and polypropylene ring to a hood. The center well can be washed off into a beaker or the condensables can be allowed to evaporate in the hood or added to the laboratory waste.