# ANCORP

**VACU-SHIELD TRAPS AND FILTERS** 

# MOLECULAR SIEVE TRAP

The Molecular Sieve Trap is a rechargeable trap that can protect your vacuum system from backstreaming pump oil and water from upstream within your system.



# CONTENTS

1.	Product Features	2
2.	Refreshing Media	2
	Connection Options	
	Tran Heaters	



## **Molecular Sieve Trap**

#### **Product Features**

The VSMI series foreline trap provides a rechargeable and regenerable shield within your vacuum system. These traps can protect your system from backstreaming pump and/or water from upstream within your system.

The design of the Vacu-Shield Molecular Sieve traps includes a heating element that allows the trapping media to be refreshed once the synthetic zeolite has become saturated with water.

The 2-stage trapping system of the Molecular Sieve trap extends the life of the media.

Trapping Media: Molecular Sieve (Synthetic Zeolite)

System protection from pump oil backstreaming

Pump protection from water

2-Stage Trapping System:

- Stage 1: Stainless steel baffle extends the life of the media
- Stage 2: Adsorbant media

Rechargeable media: Refresh saturated synthetic zeolite by baking with the included heater element or replace with fresh synthetic zeolite

ISO-QF and hose connection (contact technical sales for other connection options)

### REFRESHING MEDIA

The Molecular Sieve trap is rechargable and bakeable. The onboard heater element allows the gettering media to be periodically "refreshed". That is, a periodic bakeout will remove some hydrocarbons and most moisture. A bakeout, however, does not return the media to an "as new" condition. Eventually, the synthetic zeolite media will become saturated and will have to be replaced.

The refresh process takes about 90 minutes and the system should be isolated so that the captured products do not poison the process chamber when they are released during bakeout.

The duration of the bakeout depends on the amount of water vapor in the synthetic zeolite, but generally ranges from 2 to 12 hours.

**Note:** It is common for process pressures to rise to more than 100 milliTorr (10 Torr) during the regenerative media bakeout.

## **Connection Options**

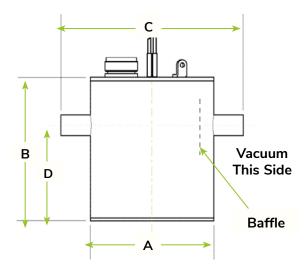
Molecular Sieve Traps feature two connection options: Tube End and ISO-QF Connections.

#### TUBE END CONNECTIONS

- Port Terminations : Tube end
- Materials:

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- Body, flanges, and baffle: 304 stainless steel electropolished
- Seal: Buna-N



PART #	REFERENCE ID	A	В	С	D	CONNECTION
7500321	VSMI-450-075-120	4.50	5.25	6.70	3.50	3/4" TUBE END
7500322	VSMI-450-100-120	4.50	5.25	6.70	3.50	1" TUBE END
7500323	VSMI-450-150-120	4.50	8.00	6.70	5.50	1.5" TUBE END
7500324	VSMI-450-200-120	4.50	8.00	6.70	5.50	2" TUBE END
7500331	VSMI-450-075-220	4.50	5.25	6.70	3.50	3/4" TUBE END
7500332	VSMI-450-100-220	4.50	5.25	6.70	3.50	1" TUBE END
7500333	VSMI-450-150-220	4.50	8.00	6.70	5.50	1.5" TUBE END
7500334	VSMI-450-200-220	4.50	8.00	6.70	5.50	2" TUBE END

## **Molecular Sieve Trap**



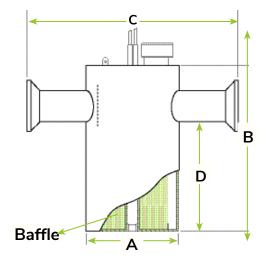
#### ISO-QF CONNECTIONS

- Port Terminations : ISO-QF

- Materials:

 Body, flanges, and baffle: 304 stainless steel electropolished

- Seal: Buna-N



PART #	REFERENCE ID	A	В	С	D	CONNECTION
7500301	VSMI-450-QF16-120	4.50	5.25	7.00	3.50	QF16 FLANGE
7500302	VSMI-450-QF25-120	4.50	5.25	7.00	3.50	QF25 FLANGE
7500303	VSMI-450-QF40-120	4.50	8.00	7.00	5.50	QF40 FLANGE
7500304	VSMI-450-QF50-120	4.50	8.00	7.00	5.50	QF50 FLANGE
7500311	VSMI-450-QF16-220	4.50	5.25	7.00	3.50	QF16 FLANGE
7500312	VSMI-450-QF25-220	4.50	5.25	7.00	3.50	QF25 FLANGE
7500313	VSMI-450-QF40-220	4.50	8.00	7.00	5.50	QF40 FLANGE
7500314	VSMI-450-QF50-220	4.50	8.00	7.00	5.50	QF50 FLANGE

## TRAP HEATERS

Molecular Sieve Trap heaters are used to refresh saturated synthetic zeolite by "baking out" the trap.

PART #	REFERENCE ID	DESCRIPTION
7510350	VSM-H75-120	Molecular Sieve Trap Heater - 75 W 120VAC
7510352	VSM-H75-220	Molecular Sieve Trap Heater - 75 W 220BAV
7510354	VSM-H125-120	Molecular Sieve Trap Heater - 125 W 120BAV
7510356	VSM-H125-220	Molecular Sieve Trap Heater - 125 W 220BAV
7510358	VSM-HEC	Electrical Connection for Trap Heater - Hubble 7564-7465 Set