

MOLECULAR SIEVE TRAPS



Generality

Foreline traps series FSM are devices very useful placed between a rotary vane pump and a vacuum system to stop the oil backstreaming.

Generally FSM are used with a zeolite charge to stop oil vapor migration from the mechanical pump to the high vacuum vessel.

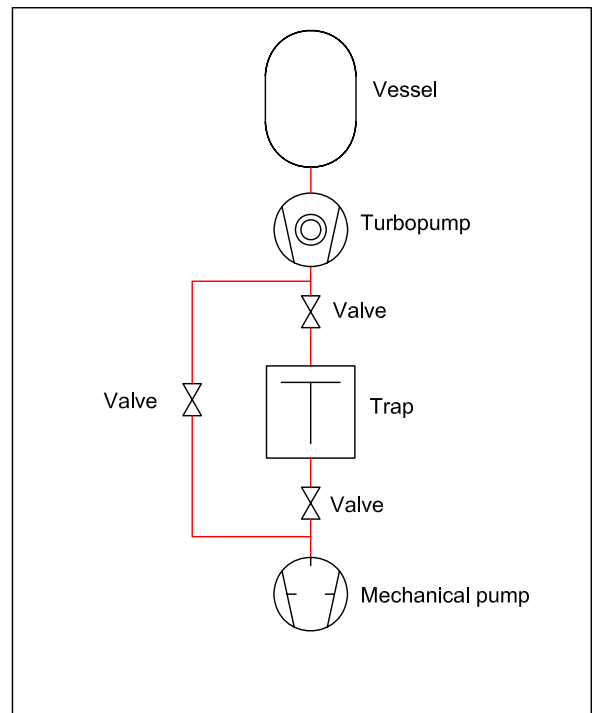
According to the process, zeolites can be substituted with activated alumina or activated charcoal.

Description

The FSM filters are realized in stainless steel in cylindrical shape and can be mounted in any attitude. The high amount of zeolites and the large surfaces of the net container confer long autonomy to the trap with high performance when used to prevent oil backstreaming. Usually the active elements are replaced after 1 or 2 years.

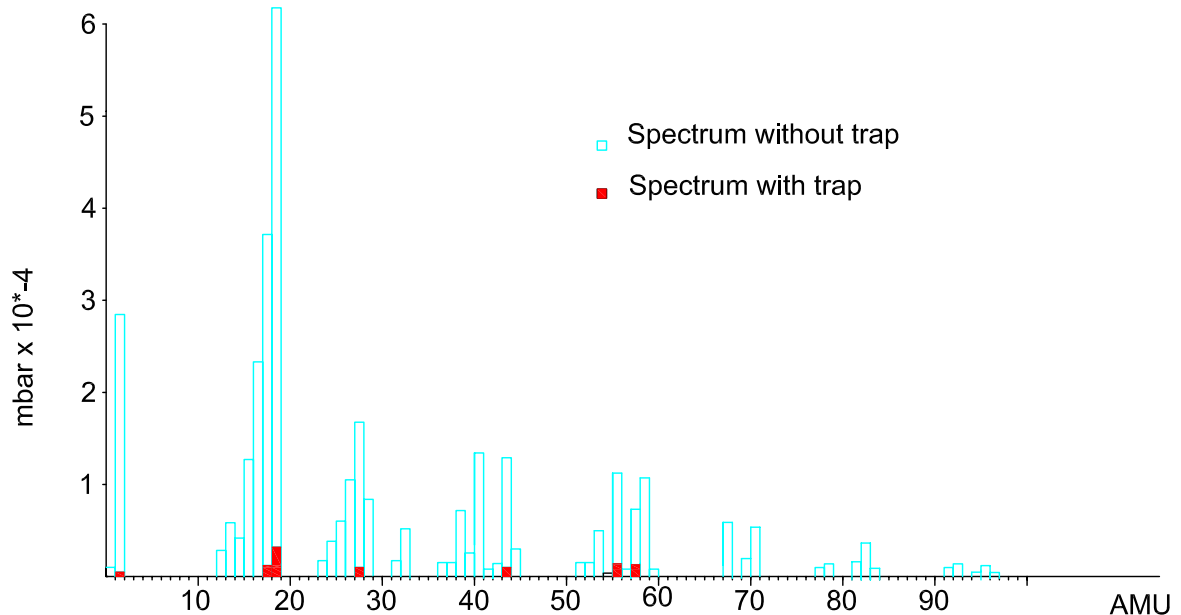
To avoid oil saturation, the filter must be rigorously baked at 250 °C frequently following the work cycles.

All FSM series traps have an integral heater to allow baking without removal of the molecular sieve trap from the foreline. The traps are Pneuop-Iso standard flanged and are also available with CF flanges or custom made terminations.

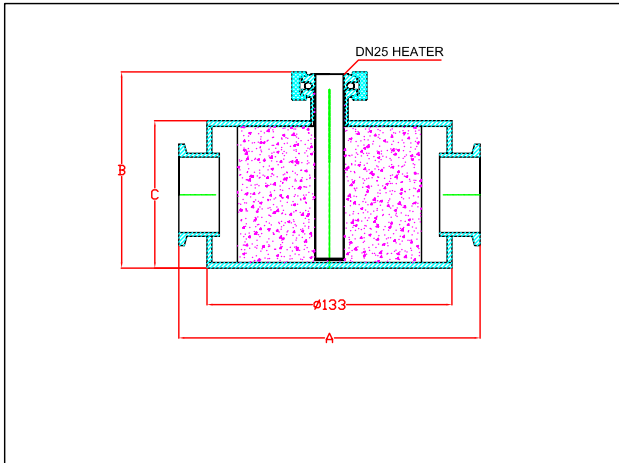


Typical mounting scheme

Residual gas analysis



SIZES



Model	A	B	C
FSM 16	170	101	60
FSM 25	170	101	60
FSM 40	164	101	80
FSM 50	160	101	80
FSM 63	177	160	130
FSM 100	171	180	150

CHARACTERISTICS

Model	Pumping rate m ³ /h	Connection flanges	Absorber volume cc	Weight Kg	Heater 230 V
FSM 16	1.6 - 8	DN16	400	1.4	75W
FSM 25	8 - 16	DN25	400	1.4	75W
FSM 40	16 - 30	DN40	570	1.6	75W
FSM 50	30 - 60	DN50	570	1.6	75W
FSM 63	60 - 80	DN63	950	2.3	75W
FSM 100	80 - 100	DN100	1100	2.4	75W

ORDERING CODE

Model	Filter set	Zeolite charge	Heater	Activated alumina	Activated charcoal
FSM 16	TP 026	TP 033	TP 038	TP 039	TP 045
FSM 25	TP 027	TP 033	TP 038	TP 039	TP 045
FSM 40	TP 028	TP 034	TP 038	TP 040	TP 046
FSM 50	TP 029	TP 034	TP 038	TP 040	TP 046
FSM 63	TP 030	TP 035	TP 038	TP 041	TP 047
FSM 100	TP 031	TP 036	TP 038	TP 042	TP 048