

MULTIPURPOSE FILTER MOD.FAC

Generality

Foreline trap mod.FAC is a device very useful placed between a rotary vane pump and a vacuum system to stop the oil backstreaming.FAC can be utilized also as a vapor condenser when its baffle is fullfilled by cryogenic fluid. Generally Fac is used with a zeolite charge to stop oil vapor migration from the mechanical pump to the high vacuum vessel.

According to the process,zeolithes can be substituted with activated alumina or activated charcoal.In these cases,the cooling mode increases approximately ten times the trapping capacities of the loaded pellets.

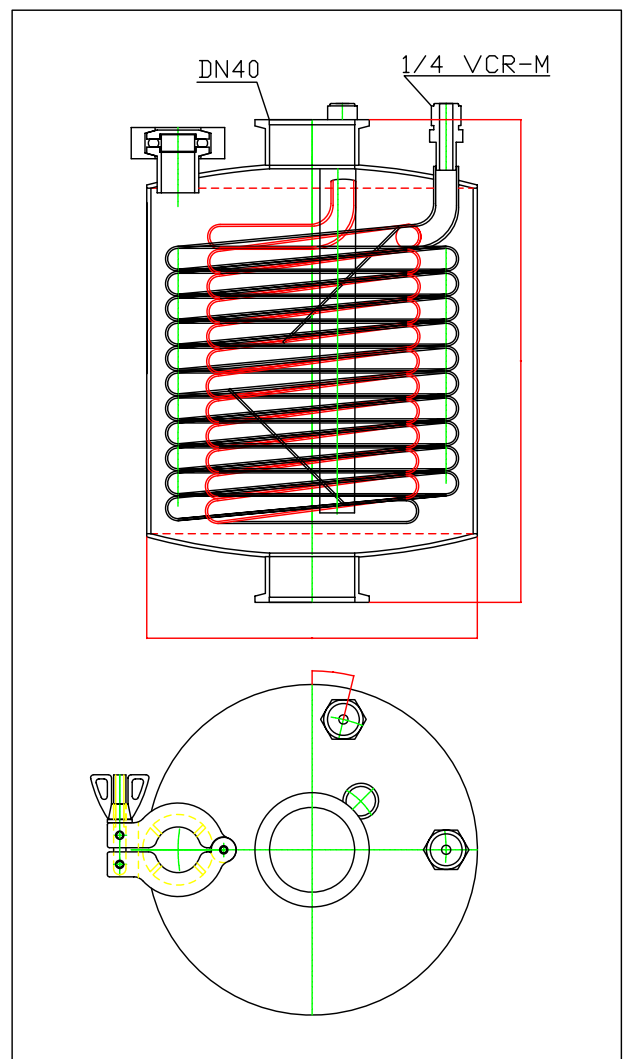
Description

The FAC 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 cooling circuit confer long autonomy to the trap with high performance when used to prevent oil backstreaming.Usually the active elements are replaced after 2-3 years.

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

Cooling fluid can be pressurised,so that a closed freon circuit is admitted.

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



| Model | FAC-16 | FAC-25 | FAC-40 |
|---------------------------------|--------------|--------------|--------------|
| Pneurop FLANGE | DN16 | DN25 | DN40 |
| Conductance l/s | 5 | 8 | 13 |
| Max Pump Size m ³ /h | 4 | 12 | 30 |
| Heater Included | 90 W - 220 V | | |
| Sieve Charge Not Included | 2.2 Kg | | |
| ORDER CODE | TP011 | TP012 | TP013 |

ABSORBENT MATERIALS

| Material | Pellet sizes | Weight | CODE |
|--------------------|--------------|--------|--------------|
| Zeolite 13X | 3mm | 1.0 Kg | TP015 |
| Activated Alumina | 3mm | 1.0 Kg | TP016 |
| Activated Charcoal | 3mm | 1.0 Kg | TP017 |

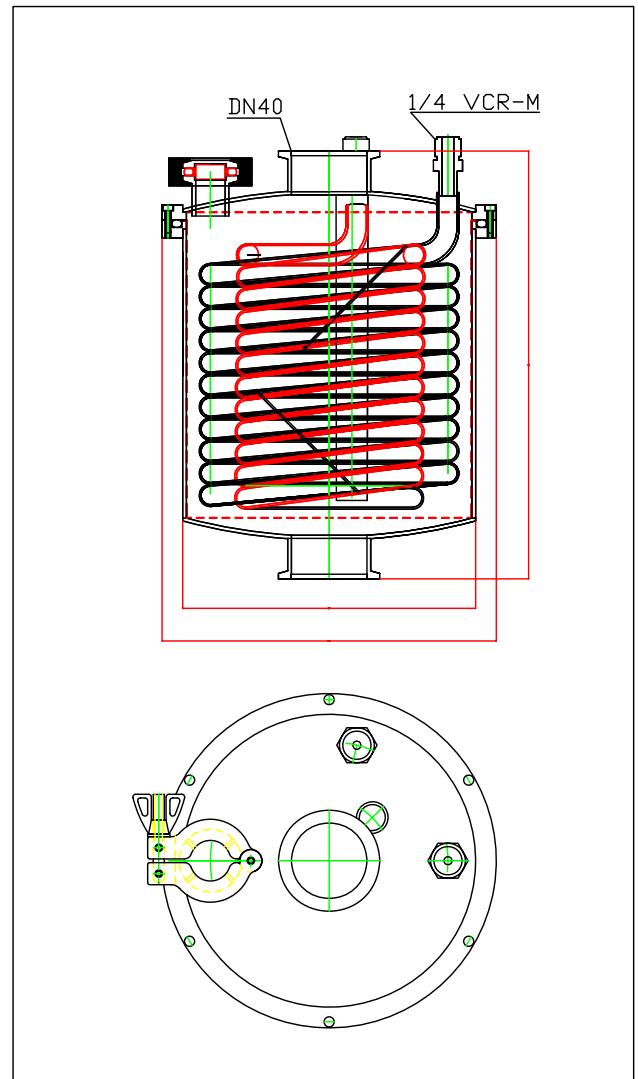
DISMOUNTABLE MULTIPURPOSE FILTER MOD.FACS

Generality

Cooled traps are used when the vacuum system contains large quantities of solvents ,water vapors or organic vapors.Their purpose is to trap the volatile materials before they enter the mechanical pump and ruin the foreline pressure.In addition the cooling traps prevent hydrocarbon from flowing back from rotary vane pumps. Most vapor traps use LN2 and require rigorous maintenance.Any decrease in LN2 level may cause a vapor slug to enter the pump.On system shutdown,the LN2 must be vented to avoid pressure explosion,or even a real explosion if the vapors are flammable.

Description

When large quantities of condensable vapors should be trapped before reaching the mechanical pump,a dismountable filter is necessary. For example,polimerisation resin processes have a large quantity of solvent vapours that condensate in the filters,sticking the allumina pellets: in this case a filter with active elements is not advised,but a dismountable LN2 cooled filter is suitable.To avoid the obstruction after each application the filter cleaning is necessary. FACS filters have the same performances of FAC filters;in addition they are dismountable for an easy maintenance in case of large quantities of condensable. In any case,we strongly recommend ,when trapping operations condensate dangerous or explosive mixtures,to contact our technical service before putting a foreline trap in line.



| Model | FACS-16 | FACS-25 | FACS-40 |
|---------------------------------|--------------|--------------|--------------|
| Pneurop FLANGE | DN16 | DN25 | DN40 |
| Conductance l/s | 5 | 8 | 13 |
| Max Pump Size m ³ /h | 4 | 12 | 30 |
| Heater Included | 90 W - 220 V | | |
| Sieve Charge Not Included | 2.2 Kg | | |
| ORDER CODE | TP018 | TP019 | TP020 |

ABSORBENT MATERIALS

| Material | Pellet sizes | Weight | CODE |
|--------------------|--------------|--------|--------------|
| Zeolite 13X | 3mm | 1.0 Kg | TP015 |
| Activated Allumina | 3mm | 1.0 Kg | TP016 |
| Activated Charcoal | 3mm | 1.0 Kg | TP017 |

