

# 14 **Filters - Traps - Silencers**

## **Introduction**

### **Introduction**

Vacuum pumps are used in many industrial and scientific applications, a few examples are, freeze drying, pharmaceuticals, vacuum distillation, materials research, and fundamental studies. In many of these applications it is important to filter the flow of evacuated gases to protect the vacuum pump from process gases and particulates. Proper containment of vacuum pump exhaust is very important. In some applications, evacuated gas flows contain particulates, corrosives, oils, and solvent vapors. To let these vapors and debris into the atmosphere without proper filtration and exhaust treatment could be harmful for the operators, researchers and scientists working in the area. When vacuum pumping applications include harmful chemical gases the pump's exhaust flow must be plumbed to a fume hood or to an approved exhaust vent system. Ideal Vacuum offers a wide variety of inlet filters, inlet traps, exhaust mist filters, exhaust silencers, and vacuum pump exhaust hoses to build a dependable vacuum pumping system that meet your application needs.

### **Exhaust Mist Filters and Oil Return Kits**

In clean process applications, such as, evacuation of air, nitrogen, water vapor, or inert gases the vacuum pump exhaust may be allowed to vent directly into the room air space. Some vacuum pump designs, like oil-sealed rotary vane pumps, still require an exhaust mist filters to adequately manage oil mist that is present in the exhaust gas flow. Exhaust mist is an aerosol "micro fine droplets of vacuum pumping fluid" that are suspended in the exhaust gas flow. The exhaust mist filter causes the fine droplets of vacuum pump oil to coalesce "turn to larger drops of oil" which can no longer be suspended in the exhaust flow. The separated vacuum pump oil collects in the exhaust mist filter body. Most dual-stage rotary vane pumps do not have an effective internal exhaust mist filter, and we highly recommend purchasing an external exhaust mist eliminator. Many single stage pumps are designed with a built-in internal exhaust oil mist filter system which works very well at removing oil mist from the exiting gas flow.

### **(cont.) Exhaust Mist Filters and Oil Return Kits**

An oil return line is an optional accessory for dual-stage oil-sealed rotary vane pumps to return collected vacuum pump oil from the exhaust mist filter back to the pumps oil casing reservoir. In high gas load applications substantial amounts of the vacuum pump's oil can be transported to the oil mist filter. This is especially true for dual-stage oil-sealed rotary vane vacuum pumps that are deployed in automated process applications where the vacuum pump is frequently required to rough the vacuum system from atmosphere to full vacuum. This can leave the vacuum pump low on vital cooling and lubricating vacuum oil. In high gas load applications, we recommend an oil return kit to be installed with the exhaust oil mist filter, where a small portion of the pump's vacuum draws the oil from the oil mist filter body back into the pump. When deployed correctly, oil mist filters with oil-return lines can provide a hassle free solution for dual-stage rotary vane pump mist control.

### **Exhaust Silencers**

Exhaust silencers are a recommended optional accessory for dry vacuum pumps as they greatly reduce the noise level generated from dry pumps and capture exhausted particles. Many dry scroll pumps are used in inert gas applications where they evacuate air. In many of these applications, the dry scroll pump exhaust is vented directly into the room air space. Exhaust silencers capture the tip-seal dust that is generated inside dry scroll pumps and prevent it from being blown out into the room. Exhaust silencers provide a cleaner and lower noise work environment in lab spaces where dry vacuum pumps are used. Ideal Vacuum offers a wide range of exhaust silencer kits that are specifically suited for dry pumps and typically used for lab applications where the dry pump is not connected to the house exhaust.

We recommend that exhaust filter media be replaced with every preventive maintenance interval, typically every 3 to 6 months. Clogged exhaust filter media can cause vacuum pump damage from exhaust over pressure conditions. In extreme cases, exhaust over pressure can damage shaft seals and oil casing gaskets causing catastrophic oil leaks, requiring the pump to be rebuilt.



**Exhaust Mist Filters**

### Intake Filters and Inlet Traps

Inlet filters and traps are designed for one of two main concerns: First concern would be to protect the vacuum pump from possible process contamination, such as, dust particles, manufacturing debris, organic or acidic vapors, high humidity of water vapor, or flowing aqueous liquid solutions; Second concern would be to protect the vacuum chamber system from possible vacuum pump contaminants, through backstreaming of vacuum pump oils or suck-back of tip-seal dust particles. Ideal Vacuum offers a variety inlet filters and traps, including canister-style inlet traps which contain replaceable media filters, cold traps, liquid-gas flow separating traps, and backstreaming filters. It is very important to consider the pumping speed of the vacuum pump when purchasing a filter or trap, the filter size must be large enough to provide ample surface area to maintain the pumps maximum pumping speed.

Canister-Style inlet traps with replaceable media are great at capturing dust or solid manufacturing debris and preventing it from flowing into the vacuum pump. We offer polyester and HEPA filter media which can be easily replaced during preventive maintenance intervals. We also offer activated alumina and activated carbon filter media for these traps which will absorb small quantities of acidic and organic vapors, respectfully. Only small minute quantities of vapors can be captured as these filter media have a limited absorption capacity. This requires absorption based filter media to be replaced often in some vacuum applications.

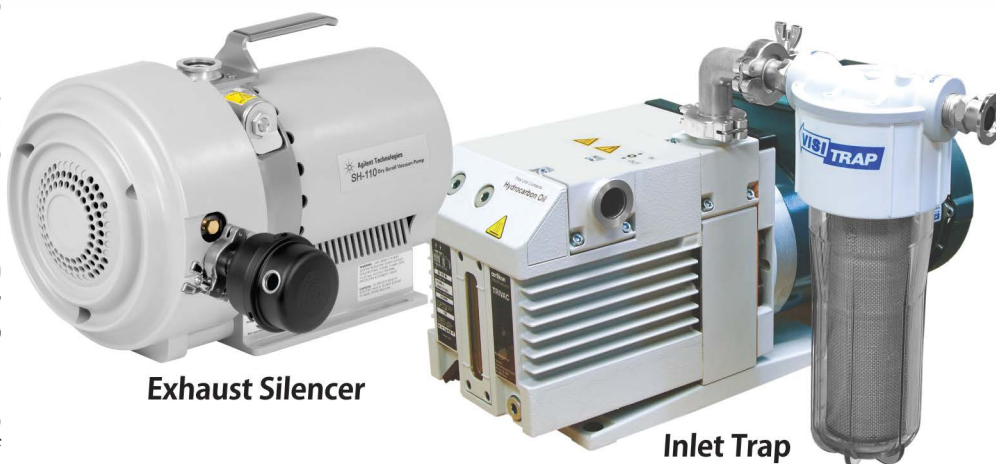
Cold traps are design to capture larger quantities of condensable vapors that have evaporated during the process application and are being pumped in the gas-phase through the roughing line towards the vacuum pump inlet. It is important to clarify here, cold traps are designed to capture gas-phase vapors that have evaporated from liquid samples inside the vacuum chamber. These vapors could be from evaporated water, methanol, ethanol, isopropanol, acetone, just to name a few. Dry Ice and liquid nitrogen are often used as coolants for our cold traps but have to be maintained daily as these coolants evaporate. We also offer a refrigerated cold trap that requires no coolant maintenance. They operate on standard A/C electrical power with an internal refrigeration system that cools down to -90 degrees Celsius (-130 degrees Fahrenheit). Cold traps are very effective at protecting the vacuum pump from possible process contamination and are cost effective solutions since some process chemicals have the ability to destroy vacuum pumps in a short time of period.

### (cont.) Intake Filters and Inlet Traps

Liquid-gas phase flow separating traps are a good option to consider if your process contains liquids that could enter the roughing line. Vacuum pumps are not designed to pump liquids and can be damaged if liquids are allowed to enter the pump. Our liquid-gas separating traps are designed on a sump-type concept where the liquids are separated from the gas-phase flow and stored in a canister section. One model that we offer is the VisiTrap which has a clear see-through canister so that the vacuum system operator can visually identify when liquids have been captured. At this point, the operator could shut down the vacuum systems, empty and clean the sump canister before continuing with the process application.

Backstreaming filters are effective at protecting the vacuum chamber system from minute quantities of vacuum pump oil that can migrate backwards through the roughing line. When using an oil-sealed rotary vane vacuum pump, backstreaming can only occur at very low throughput conditions, when the vacuum pump reaches its ultimate base pressure. At zero flow the hot oil inside the pump has a small vapor pressure which causes it to evaporate and slowly migrate backwards up through the roughing line towards the chamber. The oil vapor will condense on any cold surfaces that it touches. This process is call backstreaming. Quality backstreaming filters are packed with copper or stainless steel wire mesh. The high density and large surface area inside backstreaming filters causes the hot vacuum pump oil vapors to condense on the cool mesh surface.

Ideal Vacuum stocks the material and equipment needed to build a quality vacuum system to meet your application needs. We have the expertise and engineers on staff to help you with your vacuum product application questions. Please give us a call at (505) 872-0037.





# 14 Filters - Traps - Silencers

## Oil Mist Filters

**NON OEM** *Ideal Vacuum Brand / Same Specs as Brand*  
**For Oil Sealed Rotary Vane Vacuum Pumps**

All oil mist filters come with media cartridge

0-25 CFM	NON OEM Generic OIL Mist Filters	★ Vacuum Pumps	IDEAL P/N	Price*
Oil Mist Filter with inlet KF16 for Pumps up to 5 CFM		All Pumps with KF16 Outlet up to 5 CFM	P101879	\$149.00
Oil Mist Filter with inlet 1"-20 Fine NPT for Pumps up to 5 CFM		All Pumps with 1"-20 fine NPT up to 5 CFM	P101877	\$155.00
Replacement Cartridge for P101879, P101877 Oil Mist Filters			P101883	\$63.00
Oil Mist Filter with Drain Back, inlet KF25 for Pumps up to 16 CFM		All Pumps with KF25 Outlet up to 16 CFM	P102028	\$296.56
Oil Mist Filter with Drain Back, inlet 1"-20 Fine NPT for Pumps up to 16 CFM		All Pumps with 1"-20 fine NPT up to 16 CFM	P101874	\$295.00
Replacement Cartridge for P102028, P101874 Oil Mist Filters			P101880	\$95.00
Oil Mist Filter with inlet KF25 for Pumps up to 24 CFM		All Pumps with KF25 Outlet up to 24 CFM	P101878	\$229.00
Oil Mist Filter with inlet 1"-20 Fine NPT for Pumps up to 24 CFM		All Pumps with 1"-20 fine NPT up to 24 CFM	P101876	\$229.00
Replacement Cartridge for P101878, P101876 Oil Mist Filters			P101882	\$83.00
Oil Mist Filter with Drain Back, 1-3/4"-20 Fine NPT for up to 24 CFM	WELCH 1374, 1397	All Pumps with 1-3/4"-20 fine NPT up to 24 CFM	P101875	\$365.00
Replacement Cartridge for P101875 Oil Mist Filter			P101881	\$145.00
Oil Mist Filter with inlet & outlet ports of KF16 for Pumps up to 10 CFM		All Pumps with KF16 Outlet up to 10 CFM	P102026	\$165.00
Oil Mist Filter with inlet & outlet ports of KF25 for Pumps up to 10 CFM		All Pumps with KF25 Outlet up to 10 CFM	P102027	\$189.95
Replacement Cartridge for P102026, P102027 Oil Mist Filters			P102554	\$89.00
Oil Mist Filter with inlet & outlet ports of KF25 for Pumps up to 20 CFM		All Pumps with KF25 Outlet up to 20 CFM	P102029	\$325.00
Replacement Cartridge for P102029 Oil Mist Filter			P102555	\$155.00
Oil Mist Filter with Inlet 3/4"-20 fine NPT for Pumps up to 4 CFM	WELCH 8905, 8890, 8890A	All Pumps with 3/4"-20 fine NPT up to 4 CFM	P104263	\$145.00
Replacement Cartridge for P104263 Oil Mist Filter			P103204	\$58.55
Replacement Paper Cartridge size	I.D. O.D. H 1.25X2.25X4.00	For Any oil mist filter that fits these dimensions	P103205	\$79.99



26-50 CFM	NON OEM Generic OIL Mist Filters	★ Vacuum Pumps	IDEAL P/N	Price*
Oil Mist Filter with inlet KF40 for Pumps up to 44 CFM		All Pumps with KF40 Outlet up to 44 CFM	P101453	\$358.00
Replacement Cartridge for P101453 Oil Mist Filter			P101884	\$112.00
Oil Mist Filter with inlet 1" Female NPT for Pumps up to 40 CFM #		All Pumps with 1" Female NPT Outlet up to 40 CFM	P102587	\$365.00
Oil Mist Filter with inlet 1-1/2" Female NPT for Pumps up to 50 CFM #		All Pumps with 1-1/2" Female NPT Outlet up to 50 CFM	P102588	\$395.00
Replacement Cartridge for P102587, P102588 Oil Mist Filters			P102626	\$115.00



51-175 CFM	NON OEM Generic OIL Mist Filters	★ Vacuum Pumps	IDEAL P/N	Price*
Heavy Duty Oil Mist Filter with inlet 2" Female NPT for Pumps up to 125 CFM #		All Pumps with 2" Female NPT Outlet up to 125 CFM	P102589	\$473.00
Replacement Cartridge for P102589 Heavy Duty Oil Mist Filter			P102627	\$195.00
Heavy Duty Oil Mist Filter with inlet 2" Female NPT for Pumps up to 175 CFM #		All Pumps with 2" Female NPT Outlet up to 175 CFM	P102590	\$585.00
Replacement Cartridge for P102590 Heavy Duty Oil Mist Filter			P102628	\$245.00



# May require male NPT to NPT adapter for installation.

★ ALL vacuum pump oil mist filters come with a filter cartridge as part of the oil mist filter. As oil mist accumulates or builds up on the cartridge, the filter must be replaced or the pump will get clogged up and degrade pump down characteristics. We have given all our oil mist filters a CFM (cubic foot per minute) vacuum rating corresponding to the CFM rating of your rotary vane vacuum pump. Look for the CFM rating in your owner's manual and what type oil mist exhaust/outlet the vacuum pump has, either KF or NPT. For help call us at 505-872-0037 and we will find what oil mist filter or replacement filter cartridge fits your rotary vane pump.

\* Catalog Pricing  
 Subject to Change

# NON OEM

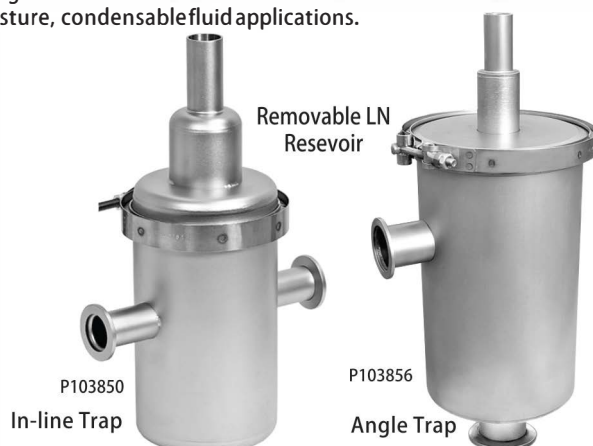
## Ideal Vacuum Brand / Same Specs as Brand

Traps on this page require liquid nitrogen, cold water or have copper media or a Zeolite charge.

### Liquid Nitrogen Trap

	Vacuum Pumps	IDEAL P/N	Price*
Stainless Steel Liquid Nitrogen Trap Angle Inlet KF16, 4" O.D.	All Pumps with KF16 inlet	P103855	\$600.00
Stainless Steel Liquid Nitrogen Trap Angle Inlet KF25, 4" O.D.	All Pumps with KF25 inlet	P103856	\$605.00
Stainless Steel Liquid Nitrogen Trap Angle Inlet KF40, 4" O.D.	All Pumps with KF40 inlet	P103857	\$650.00
Stainless Steel Liquid Nitrogen Trap Angle Inlet KF40, 6" O.D.	All Pumps with KF40 inlet	P103858	\$700.00
Stainless Steel Liquid Nitrogen Trap Angle Inlet KF40, 8" O.D.	All Pumps with KF40 inlet	P103860	\$1,450.00
Stainless Steel Liquid Nitrogen Trap Angle Inlet KF50, 6" O.D.	All Pumps with KF50 inlet	P103859	\$800.00
Stainless Steel Liquid Nitrogen Trap Angle Inlet KF50, 8" O.D.	All Pumps with KF50 inlet	P103861	\$1,500.00
Stainless Steel Liquid Nitrogen Trap In-Line Inlet KF16, 4" O.D.	All Pumps with KF16 inlet	P103849	\$625.00
Stainless Steel Liquid Nitrogen Trap In-Line Inlet KF25, 4" O.D.	All Pumps with KF25 inlet	P103850	\$650.00
Stainless Steel Liquid Nitrogen Trap In-Line Inlet KF40, 4" O.D.	All Pumps with KF40 inlet	P103848	\$665.00
Stainless Steel Liquid Nitrogen Trap In-Line Inlet KF40, 6" O.D.	All Pumps with KF40 inlet	P103851	\$750.00
Stainless Steel Liquid Nitrogen Trap In-Line Inlet KF40, 8" O.D.	All Pumps with KF40 inlet	P103854	\$1,250.00
Stainless Steel Liquid Nitrogen Trap In-Line Inlet KF50, 6" O.D.	All Pumps with KF50 inlet	P103852	\$800.00
Stainless Steel Liquid Nitrogen Trap In-Line Inlet KF50, 8" O.D.	All Pumps with KF50 inlet	P103853	\$1,300.00

**TRAPS:** Collect condensable gas vapors such as water, solvents, etc. as they are being pumped from the vacuum chamber before they can intrude into the mechanical pump. All these traps collect harmful by-products by utilizing Liquid Nitrogen, Zeolite, Copper Wool or Refrigerated Water and should be the foremost choice in high moisture, condensable fluid applications.



### Molecular Sieve Trap

	Vacuum Pumps	IDEAL P/N	Price*
Stainless Steel Molecular Sieve Trap Angle Inlet KF16, 4" O.D.	All Pumps with KF16 inlet	P103862	\$450.00
Stainless Steel Molecular Sieve Trap Angle Inlet KF25, 4" O.D.	All Pumps with KF25 inlet	P103863	\$462.50
Stainless Steel Molecular Sieve Trap Angle Inlet KF40, 4" O.D.	All Pumps with KF40 inlet	P103864	\$500.00
Stainless Steel Molecular Sieve Trap Angle Inlet KF50, 6" O.D.	All Pumps with KF50 inlet	P103866	\$675.00
Stainless Steel Molecular Sieve Trap Angle Inlet KF50, 8" O.D.	All Pumps with KF50 inlet	P103867	\$1,250.00
Stainless Steel Molecular Sieve Trap In-Line Inlet KF16, 4" O.D.	All Pumps with KF16 inlet	P103868	\$450.00
Stainless Steel Molecular Sieve Trap In-Line Inlet KF25, 4" O.D.	All Pumps with KF25 inlet	P103869	\$475.00
Stainless Steel Molecular Sieve Trap In-Line Inlet KF40, 4" O.D.	All Pumps with KF40 inlet	P103864	\$500.00
Stainless Steel Molecular Sieve Trap In-Line Inlet KF50, 6" O.D.	All Pumps with KF50 inlet	P103866	\$675.00
Stainless Steel Molecular Sieve Trap In-Line Inlet KF50, 8" O.D.	All Pumps with KF50 inlet	P103867	\$1,250.00



A molecular sieve Zeolite charge and regeneration heater are included with every molecular sieve trap.

### Sealed Element Trap

	Vacuum Pumps	IDEAL P/N	Price*
Sealed Element Roughing Foreline Trap In-Line Inlet KF16	All Pumps with KF16 inlet	P103206	\$225.00
Sealed Element Roughing Foreline Trap In-Line Inlet KF25	All Pumps with KF25 inlet	P103207	\$245.00
Sealed Element Roughing Foreline Trap In-Line Inlet KF40	All Pumps with KF40 inlet	P103208	\$295.00
Sealed Element Roughing Foreline Trap In-Line Inlet KF50	All Pumps with KF50 inlet	P103209	\$325.00

Copper wool trapping media is contained within the stainless steel trap by stainless steel screens that are permanently attached to the body trap.



### Angle Water Cooled Trap

	Vacuum Pumps	IDEAL P/N	Price*
Angle Water Cooled Trap, with in & out water tubes, KF40, 4.5" O.D.	All Pumps with KF40 inlet	P103874	\$1,495.00
Angle Water Cooled Trap, with in & out water tubes, KF40, 6" O.D.	All Pumps with KF40 inlet	P103876	\$1,725.00
Angle Water Cooled Trap, with in & out water tubes, KF50, 4.5" O.D.	All Pumps with KF50 inlet	P103875	\$1,550.00
Angle Water Cooled Trap, with in & out water tubes, KF50, 6" O.D.	All Pumps with KF50 inlet	P103877	\$1,875.00
Angle Water Cooled Trap, with in & out water tubes, KF40, 8" O.D.	All Pumps with KF50 inlet	P103878	\$2,250.00

Depending on the application, house water or refrigerated water can be used to achieve the required temperature to cause by-products to pass from gas to solid phase.



\* Catalog Pricing  
Subject to Change



# 14 Filters - Traps - Silencers

## Traps

### NON OEM

#### VisiTrap Transparent Inlet Trap

	IDEAL P/N	Price*
VisiTrap Transparent Sump Inlet Trap 3/4" NPT, 4.5" Sump	P102738	\$110.00
VisiTrap ADAPTER KF25 to 3/4" NPT for 4.5" or 9.5" Sump (1 each)	P102739	\$32.50
Filter Element for 4.5" Sump Trap (Activated Charcoal)	P102753	\$46.95
Filter Element for 4.5" Sump Trap (Copper Gauze)	P102749	\$49.95
Filter Element for 4.5" Sump Trap (Molecular Sieve)	P102751	\$49.95
Filter Element for 4.5" Sump Trap (PolyPro 2 micron)	P102754	\$46.95
Filter Element for 4.5" Sump Trap (PolyPro 5 micron)	P102755	\$49.95
Filter Element for 4.5" Sump Trap (PolyPro 20 micron)	P102756	\$49.95
Filter Element for 4.5" Sump Trap (Stainless Steel)	P102750	\$49.95
Filter Element for 4.5" Sump Trap (SodaSorb)	P102752	\$47.59
VisiTrap Transparent Sump Inlet Trap 3/4" NPT, 9.5" Sump	P102737	\$130.00
VisiTrap ADAPTER KF40 to 3/4" NPT for 9.5" Sump (1 each)	P102740	\$39.50
Filter Element for 9.5" Sump Trap (Activated Charcoal)	P102745	\$52.80
Filter Element for 9.5" Sump Trap (Copper Gauze)	P102741	\$52.80
Filter Element for 9.5" Sump Trap (Molecular Sieve)	P102743	\$79.95
Filter Element for 9.5" Sump Trap (PolyPro 2 micron)	P102746	\$52.80
Filter Element for 9.5" Sump Trap (PolyPro 5 micron)	P102747	\$52.80
Filter Element for 9.5" Sump Trap (PolyPro 20 micron)	P102748	\$52.80
Filter Element for 9.5" Sump Trap (Stainless Steel)	P102742	\$54.95
Filter Element for 9.5" Sump Trap (SodaSorb)	P102744	\$52.80

Traps on this page DO NOT come with filter media

The VISITRAP protects your vacuum pump from being exposed directly to particles, liquids, or solutions that could travel down the vacuum line. The VISITRAP acts as a clear see-through catch-pot so you can see the trapped liquid materials. While not under vacuum the VISITRAP can be opened and cleaned as needed. The VISITRAP will also help prevent back-streaming and vacuum pump oil from contaminating your vacuum system.



KF25 to 3/4" NPT for Pumps up to 5 CFM, 4.5" Sump Height

Trap DOES NOT come with adapters, install hardware or filter element.

KF40 or KF25 to 3/4" NPT for Pumps up to 15 CFM, 9.5" Sump Height

#### Nickle Chrome Inlet Trap

	IDEAL P/N	Price*
Corrosive Resistant Nickle Chrome Finish Inlet Trap KF25 Inlet	P101861	\$130.25
Filter Element for KF25 Trap (Activated Alumina)	P101865	\$89.95
Filter Element for KF25 Trap (HEPA Filter)	P103608	\$96.75
Filter Element for KF25 Trap (Activate Carbon Granule)	P101864	\$99.95
Filter Element for KF25 Trap (Polyester)	P101862	\$125.00
Filter Element for KF25 Trap (Steel Wire Mesh)	P101863	\$99.95
Corrosive Resistant Nickle Chrome Finish Inlet Trap KF40 Inlet	P101866	\$185.00
Filter Element for KF40 Trap (Activated Alumina)	P101869	\$177.50
Filter Element for KF40 Trap (HEPA Filter)	P103609	\$154.99
Filter Element for KF40 Trap (Activate Carbon Granule)	P101868	\$169.95
Filter Element for KF40 Trap (Polyester)	P101867	\$130.00
Filter Element for KF40 Trap (Steel Wire Mesh)	P101885	\$177.50
Filter Element for KF40 Trap (Steel Wire Mesh w/outer foam prefilter)	P104332	\$180.00



KF25 for pumps up to 18 CFM

KF40 for pumps up to 80 CFM

Trap DOES NOT come with adapters, install hardware or filter element.

#### Uses for Trap — Filter Element

Copper Gauze - Condensable particulates & oil vapor  
 Stainless Steel Wire Mesh - Same as copper w/added corrosive protection  
 Molecular Sieve - Back-streaming, water vapor, acid vapor  
 Activated Alumina - Back-streaming, water vapor, acid vapor  
 SodaSorb - Corrosive chemicals, neutralizes acid vapors  
 Activated Carbon/Charcoal - Organic vapors  
 PolyPro/Polyester - Solids & particles  
 HEPA Filter - Hot air, oil vapor, more durable than paper, moisture resistant

# Filters - Traps - Silencers 14

## Traps and Silencers

# NON OEM

**Ideal Vacuum Brand / Same Specs as Brand**

### Refrigerated Vapor Cold Trap

	IDEAL P/N	Price*
Refrigerated Vapor Cold Trap 110VAC	P103927	\$5,495.00
Glass Liner with Copper Mesh Jacket (4 liter)	P103928	\$687.50
Stainless Steel Top Plate for Vapor Trap 3/4" in X 5/8" out	P103929	\$350.00
Stainless Steel Top Plate for Vapor Trap KF25 in X KF16 out	P103930	\$495.00



**REFRIGERATED TRAPS** consist of a well-insulated stainless steel chamber that is cooled by direct expansion of refrigerant in refrigeration lines that are bonded directly to the outside of the chamber walls. This method of refrigeration is a highly efficient and energy-saving means of heat removal. These Vapor Traps have a maximum low temperature of -90 degrees Celsius (-130 degrees Fahrenheit). The process is fairly simple. Vapors enter the chamber through a port in the vacuum top plate, while the vapors circulate in the chamber, they strike the sides and are frozen -out adhering to the side wall. The good gases are allowed to evacuate to the pump and not the water vapor.



For Complete OPERATION/INSTALLATION Instructions go to our website [www.idealvac.com](http://www.idealvac.com). Type in the search bar P103927 select GO then scroll down to AVAILABLE DOWNLOADS and download the .pdf service manual for this refrigerated cold trap.

### Dry Pump Exhaust Silencer

	IDEAL P/N	Price*
Exhaust Silencer for use with dry pumps up to 9 CFM, KF16	P103342	\$245.00
Exhaust Silencer for use with dry pumps up to 11 CFM, KF25	P103343	\$255.00
Exhaust Silencer for use with dry pumps up to 23 CFM, KF25	P103344	\$285.00
Replacement Paper Element for Silencer P103342	P103975	\$89.00
Replacement Paper Element for Silencer P103343, P103344, P102553, P102938	P103974	\$99.00



**SILENCERS** are for use on dry scroll pumps and dry rotary lobe vacuum pumps that are not connected to a house exhaust system. They are designed for clean dry air (CDA) vacuum pumping applications where the exhaust is vented into the room. They greatly silence the exhaust of dry pumps and come with replaceable internal filter media. These media filters also provide exhaust filtration to capture tip seal dust that is produced in dry scroll pumps. Paper filter element included.



These Silencers fit most Dry Scroll or Dry Rotary Lobe Pump with KF16 or KF25 Outlet

\* Catalog Pricing  
Subject to Change

[www.idealvac.com](http://www.idealvac.com) (505)872-0037

**Ideal** LLC  
vacuum products

14-6



# 14 Filters - Traps - Silencers

## Oil Mist Filters

### Alcatel Adixen by PFEIFFER VACUUM

OME-25-S	IDEAL P/N	Adixen P/N	Price*
Oil Mist Eliminator OME-25-S	P102596	104200	\$395.00
Replacement Filter Element (1 each)	P102593	068304	\$20.63

Contains filter, element, KF25 centering ring, clamp and angle port.

Fits Alcatel Adixen Pumps:

2005I, 2010I, 2015I, 202I, 2004A, 2008A, 2012A, 2020A, 2005SD, 2010SD, 2015SD, 2021SD, 1005SD, 1010SD, 1015SD, 1021SD and other KF25 outlet pumps



OME-25-HP	IDEAL P/N	Adixen P/N	Price*
Oil Mist Eliminator OME-25-HP	P102597	104199	\$525.00
Replacement Filter Element (1 each)	P102594	100522	\$39.95

Contains filter, element, KF25 centering ring, and clamp.

Fits Alcatel Adixen Pumps:

2005I, 2010I, 2015I, 202I, 2004A, 2008A, 2012A, 2020A, 2005SD, 2010SD, 2015SD, 2021SD, 1005SD, 1010SD, 1015SD, 1021SD and other KF25 outlet pumps



OME-25-HP +	IDEAL P/N	Adixen P/N	Price*
Oil Mist Eliminator OME-25-HP +	P102705	108341	\$595.00
Replacement Filter Element (1 each)	P102706	107494	\$195.00

Contains filter, element, KF25 centering ring, clamp, and O-rings. This + Filter contains a more efficient element.

Fits Alcatel Adixen Pumps:

2005I, 2010I, 2015I, 202I, 2004A, 2008A, 2012A, 2020A, 2005SD, 2010SD, 2015SD, 2021SD, 1005SD, 1010SD, 1015SD, 1021SD and other KF25 outlet pumps



OME-40-S	IDEAL P/N	Adixen P/N	Price*
Oil Mist Eliminator OME-40-S	P102598	104887	\$895.00
Replacement Filter Element (1 each)	P102595	068443	\$69.96

Contains filter, element, KF40 centering ring, and clamp.

Fits Alcatel Adixen Pumps:

1033SD, 1033, 1063SD, 1063, 2033SD, 2033, 2063SD, 2063 and other KF40 outlet pumps.



OME-40-C1	IDEAL P/N	Adixen P/N	Price*
Oil Mist Eliminator OME-40-C1	P104920	068785	2,213.30
Replacement Filter Element (1 each)	P104861	068778	\$85.12

Contains filter, element, KF40 centering ring, and clamp. For applications pumping corrosive gases, **except fluorinated gases**.

Fits Alcatel Adixen Pumps:

1033C1, 1063C1, 1033C2, 1063C2, 2033C1, 2063C1, 2033C2, 2063C2



OME-40-C2	IDEAL P/N	Adixen P/N	Price*
Oil Mist Eliminator OME-40-C2	P104919	068942	\$3,700.00
Replacement Filter Element (1 each)	P104932	100802	\$559.00

Contains filter, element, KF40 centering ring, and clamp. For applications pumping corrosive gases, to include **fluorinated gases**.

Fits Alcatel Adixen Pumps:

1033C2, 1063C2, 2033C2, 2063C2



\* Catalog Pricing  
Subject to Change

# Filters - Traps - Silencers 14

## Oil Mist Filters

### Alcatel Adixen by PFEIFFER VACUUM

#### OME-25-C/H

	IDEAL P/N	Adixen P/N	Price*
Oil Mist Eliminator OME-25-C/H		066849	\$993.60
Replacement Filter Element		066806	

Contains filter, element, KF25 centering ring, and clamp. For use with pumps involving **corrosive gases** or high level of tightness.

Fits Alcatel Adixen Pumps:

2005C1, 2010C1, 2015C1, 2021C1, 2010C2, 202015C2, 2021C2 and other KF25 outlet pumps that are pumping corrosive gases



#### External Oil Filter DE1/DE2

	IDEAL P/N	Adixen P/N	Price*
External Oil Filter DE1 (with 1 cartridge) 115VAC	P103023	068991	\$8,350.00
External Oil Filter DE1 (with 1 cartridge) 220VAC	P104863	068990	\$8,350.00
External Oil Filter DE2 (with 2 cartridges) 115VAC	P103021	104375	\$10,995.40
External Oil Filter DE2 (with 2 cartridges) 220VAC	P104862	104374	\$10,995.40

This is a stand alone unit consisting of a magnetically driven gear pump which circulates oil through filtration cartridges. All necessary components for connection are included. Fits all pumps.

(DE1 has a Cellulose Cartridge, DE2 has a Cellulose & Activated Alumina Filter Cartridge.)



#### Replacement Pump and Motor

	IDEAL P/N	Adixen P/N	Price*
Pump and Motor for Oil Filter DE1 or DE2 (For External Oil Filter DE1 or DE2 115VAC or 220VAC)	P104784	068970	\$3,350.00

Replacement Pump and Motor for Adixen Alcatel DE1 or DE2 External Oil Filter. Can be wired for 110VAC or 220VAC.

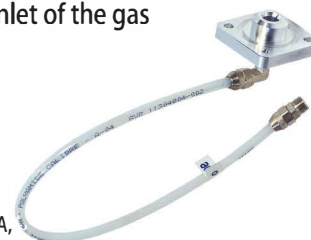
Fits DE1 or DE2 External Filters:



#### Oil Drain Return Kit

	IDEAL P/N	Adixen P/N	Price*
Oil Drain Return Kit for OME-25 HP Mist Eliminator	P104546	104360	\$225.00

Must be used with oil mist eliminator OME-25 HP (P/N P102597). Contains a drain line to be connected to the bottom of the OME 25 HP, the other end to the inlet of the gas ballast on the vacuum pump.



Fits Alcatel Adixen Pumps:

2005I, 2010I, 2015I, 2021, 2004A, 2008A, 2012A, 2020A, 2005SD, 2010SD, 2015SD, 2021SD, 1005SD, 1010SD, 1015SD, 1021SD

#### DE1/DE2 Filter Elements

	IDEAL P/N	Adixen P/N	Price*
Cellulose Filter Element	P103019	078212	\$199.95
Activated Alumina Filter Element	P102898	068880	\$365.00
Activated Charcoal Filter Element	P103020	068881	\$195.00

**Cellulose Filter:** Filtration for solid particles only.

**Activated Alumina:** Applications to include mineral acids, Lewis acids, Polar compounds.

**Activated Charcoal** Applications to include Chlorinated products, water and chlorine, Nitrous vapors, Ammonia.

(DE1 Requires 1 Filter, DE2 Requires 2 Filters)



#### Sorption Traps

	IDEAL P/N	Adixen P/N	Price*
5T 25C Sorption Trap with 115VAC heating element	P102707	066845	\$1,458.00
LNT-25P1 Liquid Nitrogen Inlet Trap	P102708	786346	\$1,195.00

ST 25C Sorption Trap with heating element (without activated alumina charge purchased separately)



Fits Alcatel Adixen Pumps:

2005I, 2010I, 2015I, 2021, 2004A, 2008A, 2012A, 2020A, 2005SD, 2010SD, 2015SD, 2021SD, 1005SD, 1010SD, 1015SD, 1021SD

\* Catalog Pricing  
Subject to Change

www.idealvac.com (505)872-0037

**Ideal** LLC  
vacuum products **14-8**



# 14 Filters - Traps - Silencers

## Oil Mist Filters

### Edwards

EMF3 Oil Mist Filter	IDEAL P/N	Edwards P/N	Price*
EMF3 Oil Mist Filter (comes with both elements)	P102665	A462-20-000	\$299.95
Replacement Filter Element (Oil)	P102666	A223-04-197	\$149.95
Replacement Filter Element (Odor)	P102670	A223-04-081	\$65.99

Contains semi-transparent filter, oil element and odor element, 3/8" BSP to KF10 adapter, O-Ring and clamp.

Fits Edwards Pumps:

Speedivac 2, E2M0.7, E2M1, E2M1.5, E2M2



EMF10 Oil Mist Filter	IDEAL P/N	Edwards P/N	Price*
EMF10 Oil Mist Filter (comes with both elements)	P102664	A462-26-000	\$335.00
Replacement Filter Element (Oil)	P102668	A223-04-198	\$165.00
Replacement Filter Element (Odor)	P102671	A223-04-079	\$74.50

Contains semi-transparent filter, oil element and odor element, 3/8" BSP to KF25 adapter, O-Ring and clamp.

Fits Edwards Pumps:

RV3, RV5, RV8, RV12, E1M5, E2M5, E1M8, E2M8, E2M12



EMF20 Oil Mist Filter	IDEAL P/N	Edwards P/N	Price*
EMF20 Oil Mist Filter (comes with both elements)	P102663	A462-29-000	\$389.95
Replacement Filter Element (Oil)	P102669	A223-04-199	\$195.00
Replacement Filter Element (Odor)	P102672	A223-04-077	\$85.00

Contains semi-transparent filter, oil element and odor element, 3/8" BSP to KF25 adapter, O-Ring and clamp.

Fits Edwards Pumps:

RV12, E1M18, E2M18



MF30 Oil Mist Filter	IDEAL P/N	Edwards P/N	Price*
Oil Mist Eliminator MF30 (comes with element)	P102673	A462-33-000	\$1,255.00
Replacement Filter Element for MF30 (1 each)	P102676	A223-04-057	\$345.00

Contains filter, element, KF40 centering ring, elbow, clamp, and 2 KF40 adapters.

Fits Edwards Pumps:

E2M28 and E2M30



MF100/300 Oil Mist Filter	IDEAL P/N	Edwards P/N	Price*
Oil Mist Eliminator MF100 with 2 Elements	P102890	A462-33-000	\$1,590.00
Replacement Filter Element for MF100 (requires 2)	P102891	A223-04-020	\$225.00
Oil Mist Eliminator MF300 with 4 Elements	P102888	A462-04-000	\$3,350.00
Replacement Filter Element for MF300 (requires 4)	P102889	A223-04-021	\$325.00

Contains filter, elements, and all necessary hardware to attach to pump.

MF100: Inlet(KF25)Outlet(1"BSP)  
MF300: Inlet(KF40)Outlet(KF40)

Fits Edwards Pumps:

MF100: E1M40, E1M80, E2M40, E2M80 and Superpumps  
MF300: E1M175, E1M275, E2M175, E2M275



Oil Drain Back Kits	IDEAL P/N	Edwards P/N	Price*
1) Drain Back Kit (small pumps)	P104594	A504-19-000	\$195.00
2) Drain Back Kit with adjustable gas ballast (RV)	P104595	A505-23-000	\$275.00
3) Drain Back Kit (medium pumps)	P104596	A504-20-000	\$245.00

Returns oil trapped in the oil mist filter back to the vacuum pump via the gas ballast.

Fits Edwards Pumps:

1) RV3, RV5, RV8, RV12, Speedivac 2, E2M0.7, E2M1.5  
2) RV3, RV5, RV8, RV12  
3) E1M18, E2M18, E2M28, & E2M30



\* Catalog Pricing  
Subject to Change

## Edwards

FL20K Foreline Inlet Trap	IDEAL P/N	Edwards P/N	Price*
FL20K Foreline Inlet Trap with Alumina Sorbent	P102674	A133-05-000	\$495.00
Replacement Activated Alumina Sorbet (0.45kg)	P102666	H026-00-050	\$149.95

The Edwards FL20K foreline inlet trap has been developed for use in clean pumping systems, to prevent the back-migration of rotary pump oil vapor into the system.



**Fits Edwards Pumps:**

RV3, RV5, RV8, RV12, E2M2, E2M5, E2M8, E2M12, E1M18, E2M18, E2M28 and E2M30

ITF20K Inlet Dust Filter	IDEAL P/N	Edwards P/N	Price*
ITF20K Inlet Dust Filter with Filter Element	P102661	A442-15-000	\$1,245.00
Replacement Dust Filter Element & Gasket Kit	P102677	A442-01-800	\$258.50

The ITF20K Inlet Dust Filter prevents the entry of dust particles into the vacuum pump.



**Fits Edwards Pumps:**

RV3, RV5, RV8, RV12, E2M2, E2M5, E2M8, E2M12, E1M18, E2M18, E2M28 and E2M30

ITC20K Inlet Chemical Trap	IDEAL P/N	Edwards P/N	Price*
ITC20K Inlet Chemical Trap (no sorbent charge)	P102660	A444-10-000	\$1,325.00
Activated Carbon sorbent charge (0.5kg)	P102662	H122-05-001	\$69.95
Activated Carbon sorbent charge (3kg)	P102667	H122-05-002	\$195.00

The ITC20K Series Chemical Trap protects against various aggressive or heavy lacquer forming vapors. These may attack the pump or contaminate pump oil.



**Fits Edwards Pumps:**

RV3, RV5, RV8, RV12, E2M2, E2M5, E2M8, E2M12, E1M18, E2M18, E2M28 and E2M30

IT0800 Inlet Catchpot	IDEAL P/N	Edwards P/N	Price*
IT0800 Inlet Catchpot with hardware (9.5 liters)	P103178	A441-04-000	\$2,795.00

Used on vacuum processes where large quantities of vapor are produced. The catchpot traps liquid that would otherwise condense in the pipelines and drain towards the pump. The catchpot is also suitable for use on vacuum processes where froth or spray can go into the pump.



**Fits Edwards Pumps:**

E1M175, E1M275, E2M175, E2M275

Inlet & Outlet

LF NWISO100

Exhaust Silencer Kit for XDS5/10, nXDSi/ iR - XDS35i	IDEAL P/N	Edwards P/N	Price*
Exhaust Silencer with media for XDS5/XDS10, nXDS	P102553	A505-97-000	\$195.00
Exhaust Silencer with media for XDS35i	P102938	A505-97-001	\$253.00



For XDS35i



For XDS5/XDS10, nXDS

For use on XDS / nXDS Series Edwards Dry Scroll Pumps that are not connected to a shop exhaust system, comes with filter media. This silencer also offers exhaust filtration. Comes with Silencer Filter Media, O-Ring and Clamp.



\* Catalog Pricing  
Subject to Change



# 14 Filters - Traps - Silencers

## Oil Mist Filters

### Oerlikon Leybold

SE Smoke Eliminator	IDEAL P/N	Oerlikon P/N	Price*
SE 2-4 up to 5 cfm, Inlet KF16	P102970	99171125	\$149.00
Replacement Filter Element for SE 2-4	P102971	99171128	\$63.00
SE 8-16 up to 24 cfm, Inlet KF25	P102972	99171126	\$229.00
Replacement Filter Element for SE 8-16	P102973	99171129	\$83.00
SE 30-60 up to 44 cfm, Inlet KF40	P102974	99071127	\$358.00
Replacement Filter Element for SE 30-60	P102975	99171130	\$112.00
Compact Oil Mist Eliminator, Inlet KF25	P102977	72187113	\$325.00
Replacement Filter Element for Compact	P102976	72197099	\$155.00
D8A and D16A (Internal) Oil Mist Element	P103883	39026117	\$29.00



#### Fits Leybold Oerlikon Pumps:

SE 2-4 - NT5/10, D2A, D4A, D1.6B, D4B, and D8B  
 Compact and SE 8-16 - NT16/25, D8A, D16A, D16B, D25B  
 SE 30-60 - D30A, D60A, D40B, D40BCS, D65B, D65BCS

AF/ARS Exhaust Filter	IDEAL P/N	Oerlikon P/N	Price*
AF8 Oil Exhaust Filter	P105881	19050	\$295.00
AF 4-8 Oil Exhaust Filter	P102964	18906	\$573.75
Replacement Element FE 4-8 for AF 4-8, AR 4-8	P103103	18971	\$118.00
AF 16-25 Oil Exhaust Filter	P102966	18911	\$840.00
ARS 16-25 Oil Exhaust Filter with lubricant return	P102911	18956	\$948.80
Replacement Element FE 16-25 for AF/AR/ARS 16-25	P103031	18972	\$159.00
AF 40-65 Oil Exhaust Filter	P102968	18916	\$872.40
ARS 40-65 Oil Exhaust Filter with lubricant return	P102912	18957	\$1,875.00
Replacement Element FE 40-65 for AF/AR/ARS 40-65	P103033	18973	\$250.00

(All Leybold filters come with filter element)



#### Fits Leybold Oerlikon Pumps:

AF 8 - D2.5E  
 AF 4-8, AR 4-8 - NT5/10, D4B, and D8B  
 AF 16-25, AR 16-25, ARS 16-25 - NT16/25, D16B/25B, D16BCS/25BCS  
 AF 40-65, AR 40-65, ARS 40-65 - D40B, D40BCS, D65B, D65BCS

Oil Filters Internal/External	Vacuum Pumps	IDEAL P/N	Oerlikon P/N	Price*
External Spin On Filter for Sogevac Pumps	SV40, SV65 SV585 style II	P103614	71212718	\$34.99
External Spin On Filter for Sogevac Pumps	SV100	P103018	71213158	\$35.00
External Spin On Filter for Sogevac Pumps	SV100B	P103615	71213150	\$45.98
External Spin On Filter for Sogevac Pumps	SV180, SV200 SV280, SV300	P103554	71018858	\$43.58
External Spin On Filter for Sogevac Pumps	SV585 style I, SV630 SV630F, SV500, SV750	P103616	71405318	\$49.55
Internal Exhaust Mist Filter for Sogevac Pumps	SV10B, SV16B	P103613	71413280	\$88.95
Internal Exhaust Mist Filter for Sogevac Pumps	SV16, SV25	P103611	71232023	\$85.89
Internal Exhaust Mist Filter for Sogevac Pumps	SV25B	P103610	71416340	\$88.95
Internal Exhaust Mist Filter for Sogevac Pumps	SV40B	P103612	71421180	\$94.95
Internal Exhaust Mist Filter for Sogevac Pumps	SV65B, SV100B	P103495	71417300	\$94.95
Internal Exhaust Mist Filter for Sogevac Pumps	SV40, SV65 SV180, SV200	P103017	71064763	\$95.89
Internal Exhaust Mist Filter for Sogevac Pumps	SV280, SV300 SV585, SV630, SV630F	P103555	71064773	\$115.00



\* Catalog Pricing  
Subject to Change

# Oerlikon Leybold

Traps/Air Filters	Vacuum Pumps	IDEAL P/N	Oerlikon P/N	Price*
RST16KF Inlet Refillable Trap	D4/8 B	P102949	99171135	\$657.50
RST25KF Inlet Refillable Trap	D16B/BCS, D25B/BCS	P102950	99171136	\$865.00
RST40KF Inlet Refillable Trap	D40B/BCS, D65B/BCS	P102951	99171137	\$1,006.25
Refillable Trap Media Stainless Steel (for corrosive apps.)		P102952	99171141	\$125.00
Refillable Trap Media Copper (for standard apps.)		P102953	99171147	\$125.00
AK 4-8 Condensate Separator	D4/8 B	P102947	18806	\$363.75
AK 16-25 Condensate Separator	D16B/BCS, D25B/BCS	P102943	18811	\$725.00
AK 40-60 Condensate Separator	D40B/BCS, D65B/BCS	P102945	18816	\$741.25
Sogevac Intake Air Dust Filter 1-1/4" FNPT	SV40B, SV65B	P103367	N/A	\$225.00
Sogevac Replacement Paper Filter for 1-1/4" Air Dust Filter		P103368	N/A	\$29.95
Sogevac Intake Air Dust Filter 2" FNPT	SV180, SV200 SV280, SV300	P103395	N/A	\$395.00
Sogevac Replacement Paper Filter for 2"		P103394	N/A	\$69.95



AK Condensate Trap  
P102943



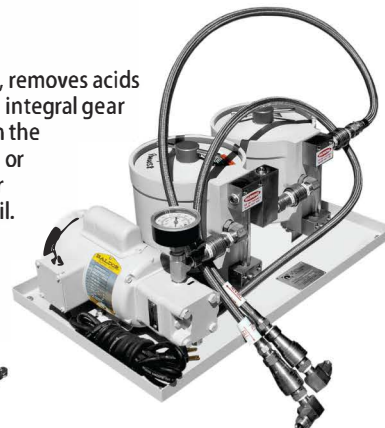
RST Refillable Trap  
(media not included)  
P102950



Sogevac Intake  
Air Dust Filter  
Includes Paper Filter

Oil Filtering System	IDEAL P/N	Oerlikon P/N	Price*
OF-1000 Single Canister Oil Filtering System	P103359	898550	\$3,964.00
OF-1000 Dual Canister Oil Filtering System	P103358	898552	\$6,615.00
Hydrophilic Filter Element for OF-100 (1 each)	P104628	898506	\$195.00

The OF-1000 Oil Filtering System, removes acids and particulates with an external integral gear pump while recycling oil through the filtering medium. No filter media or oil is included. These units are for standard hydrocarbon/mineral oil. PFPE oil or chemically severe service models are available.



OF-1000 - Dual  
(no filter media)  
P103358



OF-1000 - Single  
(no filter media)  
P103359

Mechanical/Chemical Oil Filters	Vacuum Pumps	IDEAL P/N	Oerlikon P/N	Price*
OF 4-25 Mechanical Oil Filter	NT 16/25 D4/8 B, D16/25 B	P102941	10191	\$436.25
WF 4-25 Replacement Paper Oil Filter Element for OF 4-25 (0.5qt.)			18991	\$14.00
CF 4-25 Chemical Oil Filter	NT 16/25 D4/8 B, D16/25 B	P102939	10196	\$506.25
WF Alu 4-65 Replacement Paper Oil Filter for CF 4-25 (1qt.)		P102954	18996	\$135.00
OF 40-65 Mechanical Oil Filter	D40B, D65B	P102960	10192	\$812.50
WF 40-65 Replacement Paper Oil Filter for OF 40-65 (0.8qt.) 2 required			18992	\$50.00
CF 40-65 Chemical Oil Filter	D40B, D65B	P102962	10197	\$1,010.00
WF Alu 4-65 Replacement Paper Oil Filter for CF 40-65 (1qt.) 2 required		P102954	18996	\$135.00
CFS 16-25 Chemical Filter w/ Safety Isolation Valve*	NT 16/25 D16/25 B/BCS (PFPE)	P102914	10176	\$2,593.75
WF Replacement Particle Filter Paper Oil Filter for CFS16-25 (1.7qt.)		P103010	20009804	\$85.00
WFG Replacement Particle Paper w/support mesh Oil Filter for CFS 16-25 (1qt.)		P102956	18990	\$79.95
CFS 40-65 Chemical Filter w/ Safety Isolation Valve*	D40/65 B/BCS, (PFPE)	P102916	10177	\$2,999.25
WF Replacement Paper & Al <sub>2</sub> O <sub>3</sub> Oil Filter for CFS 40-65 (1.7qt.) 2 required		P102955	18999	\$169.00
WF Replacement Particle Filter Paper Oil Filter for CFS40-65 (1.7qt.) 2 required		P103010	20009804	\$85.00
WFG Replacement Particle Paper w/support mesh Oil Filter for CFS40-65 (1qt.) 2 required		P102956	18990	\$79.95



OF Mechanical or  
CF Chemical Oil Filter  
P102946



Replacement Paper  
Oil Filter  
P102954



CFS Chemical Oil  
Filter w/ Isolation  
Safety Valve  
P102916

\* Catalog Pricing  
Subject to Change



# 14 Filters - Traps - Silencers

## Oil Mist Filters

### AGILENT Varian

More Agilent Silencers  
& Filters on Page 3-17

Oil Mist Eliminator	IDEAL P/N	Agilent P/N	Price*
Oil Mist Eliminator (KF25)	P103219	9499395	\$255.00
Replacement Filter Element (pack of 2)	P103222	9499394	\$75.00

Contains filter, element, KF25 centering ring, and clamp.

Fits Agilent/Varian Pumps:

DS102, DS202, DS302, DS402, DS602, HS502, HS452, HS652



Oil Mist Eliminator	IDEAL P/N	Agilent P/N	Price*
Oil Mist Eliminator for DS42	P103196	9499388	\$235.00
Replacement Filter Element (pack of 2)	P103230	9499386	\$115.00

Contains filter, element, K16 centering ring, and clamp.

Fits Agilent/Varian Pumps:

DS42



Deluxe Oil Mist Eliminator	IDEAL P/N	Agilent P/N	Price*
Deluxe Oil Mist Eliminator (KF25)	P103228	9499382	\$440.00
Replacement Filter Element for Deluxe	P103422	9499342	\$195.00

Contains filter, element & seal, K25 centering ring, and clamp. Uses high efficiency oil separating cartridge. Its function is to purify the exhaust gas from oil or other liquid aerosol.

Fits Agilent/Varian Pumps:

DS102, DS202, DS302, DS402, DS602, HS502, HS452, HS652



Coaxial Foreline Trap	IDEAL P/N	Agilent P/N	Price*
Coaxial Roughing Foreline Trap for Inlet (KF16)	P103562	RT0075NW16	\$225.00
Coaxial Roughing Foreline Trap for Inlet (KF25)	P103561	RT0010NW25	\$245.00
Coaxial Roughing Foreline Trap for Inlet (KF40)	P103563	RT0150NW40	\$295.00
Coaxial Roughing Foreline Trap for Inlet (KF50)	P103564	RT0200NW50	\$325.00

Designed specifically for use in the roughing manifolds in vacuum systems where freedom from contaminates is desired. Copper wool stops backstreaming pump fluids from contaminating vacuum pump. Vertical or Horizontal installed.



Fits ALL Vacuum Pumps with KF16 thru KF50 Inlet:

Exhaust Silencer For SH110/112	IDEAL P/N	Agilent P/N	Price*
Exhaust Silencer for Agilent Scroll Pump SH110/112	P104623	SHO110EXSLR	\$295.00

For Clean Dry Air (CDA) vacuum pumping applications where the exhaust is vented into the room. These greatly silence the exhaust of the Agilent SH110, SH112 Scroll Pump.



(Pump not Included)



Oil Drain Back Kit	IDEAL P/N	Agilent P/N	Price*
Oil Drain Back Kit used with Deluxe Mist Filter	P103229	9499376	\$225.00

Returns oil trapped in the oil mist filter back to the vacuum pump oil reservoir. Oil return line can only be used with the Agilent Deluxe Oil Mist Filter and any DS or HS Agilent Pump.

(Kit only, pump and oil mist filter not included)

Fits Agilent/Varian Pumps:

DS102, DS202, DS302, DS402, DS602, HS502, HS452, HS652



\* Catalog Pricing  
Subject to Change

# Busch

R5 OIL Mist Filter Elements	IDEAL P/N	Busch P/N	Price*
Busch Discharge Oil Mist Filter Kit for R5 010B/016B	P102895	BFK001	\$45.00
Busch Discharge Oil Mist Filter Only for R5 010B/016B	P103028	0532127413	\$34.95
Busch Discharge Oil Mist Filter Kit for R5 0012B/0021B/0025D/0040D	P102896	0532500510	\$78.00
Busch Discharge Oil Mist Filter Kit for R5 0025B/0040B	P102894	0532000509	\$45.00
Busch Discharge Oil Mist Filter Kit for R5 0025D/0040D/0055E/0063E 5K	P102897	0532000512	\$50.00
Busch Discharge Oil Mist Filter Element for R5 0012B/0021B	P103011	0532500510	\$78.00
Busch Strainer Baffle for R5 0025B, C, E, & 0040B, C, E	P104031	53701400	\$9.01
Busch Spin On Oil Filter for R5 0025 thru 0100 B, C, E	P102900	53100200	\$22.50
Busch Oil Cap w/Filter Pressure Gauge for R5 010B & 016B/025E thru 0100E/010D, 016D, 020D	P103220	94610002	\$129.99
Busch Filter Pressure Gauge for R5 010B & 016B/025E thru 0100E/010D, 016D, 020D	P103221	0946000100	\$99.99



R5 Inlet AIR Filters	IDEAL P/N	Busch P/N	Price*
Intake Air Filter 1-1/4" FNPT 4-3/8"high for R5 025/040/063 B/C/E	P102993	0945000132	\$225.00
Replacement Air Filter Cartridge for 1-1/4" FNPT - 4-1/2"high	P102994	0530000002	\$29.95
Intake Air Filter 1-1/4" FNPT 6-3/4"high for R5 025/040/063/ 0100 B/C/E	P103198	0945000134	\$295.00
Replacement Air Filter Cartridge for 1-1/4" FNPT - 6-3/4"high	P103199	0530000003	\$38.50
Intake Air Filter 2" FNPT 10-1/4"high for R5 0160/0305 B/C/D	P103200	0945000142	\$395.00
Replacement Air Filter Cartridge for 2" FNPT - 10-1/4"high	P103201	0530000005	\$69.95
Intake Air Filter 3" FNPT 15-3/4"high for R5 0400/0630 B	P103202	0945000030	\$899.99
Replacement Air Filter Cartridge for 3" FNPT - 15-3/4"high	P103203	0945501236	\$195.00
Inlet Screen for Busch Pumps 0025 thru 0040 B/C/E	P103032	53401800	\$20.25



\* Catalog Pricing  
Subject to Change



# 14 Filters - Traps - Silencers

## Oil Mist Filters

### PFEIFFER

#### ONF 16 S/25 S Oil Mist Filter

Pfeiffer Oil Mist Filter ONF 16M, ONF 16 S (KF16) PK Z40 001  
Pfeiffer Oil Mist Filter ONF 10-12, ONF 25 S (KF25) P105359 PK Z40 004 \$298.00  
Mounted on the pump's exhaust port, prevents contamination of the air by collecting oil mist.

**Replaces Oil Mist Filter ONF 4-20**

Fits Pfeiffer Vacuum Pumps  
ONF 16 S - UNO/DUO2.5, DUO 1.6, 3, 5, 6, 10, 11  
ONF 25 S - DUO 5M, DUO 10M



#### ONF 16 Oil Mist Filter

Pfeiffer Oil Mist Filter ONF 16 (KF16) P103423 PKZ40003 \$595.00

The ONF-16 filter inserts are installed in a housing made of corrosion-resistant aluminum and consist of a cylindrical filter of glass polyester fleece. The filter inserts are opened by an incorporated pressure relief valve when the contamination becomes excessive so that the maximum working pressure of 1.5 bar (absolute) cannot be exceeded. The collected oil mist, now fluid can be observed through the sight glass and discharged with the drain screw.

Fits Pfeiffer Vacuum Pumps  
DUO Uno2.5, Duo1.5A, Duo2.5, Duo5M



#### ONF 25 Oil Mist Filter

Pfeiffer Oil Mist Filter ONF 25 (KF25) P103424 PKZ40157 \$755.00

The ONF-25 filter inserts are installed in a housing made of corrosion-resistant aluminum and consist of a cylindrical filter of glass polyester fleece. The filter inserts are opened by an incorporated pressure relief valve when the contamination becomes excessive so that the maximum working pressure of 1.5 bar (absolute) cannot be exceeded. The collected oil mist, now fluid can be observed through the sight glass and discharged with the drain screw.

Fits Pfeiffer Vacuum Pumps  
DUO 10M, Penta 10



#### ONF 25L Oil Mist Filter

Pfeiffer Oil Mist Filter ONF 25L (KF25) P103425 PKZ40158 \$845.00

The ONF-25L filter inserts are installed in a housing made of corrosion-resistant aluminum and consist of a cylindrical filter of glass polyester fleece. The filter inserts are opened by an incorporated pressure relief valve when the contamination becomes excessive so that the maximum working pressure of 1.5 bar (absolute) cannot be exceeded. The collected oil mist, now fluid can be observed through the sight glass and discharged with the drain screw.

Fits Pfeiffer Vacuum Pumps  
Uno30, Duo 20M, Penta 20, Twin 20-10



#### Oil Return Units

	IDEAL P/N	Pfeiffer P/N	Price*
Oil return unit for ONF 4-20 Oil Mist Filter	P103430	PK196173-T	\$225.00
Oil return unit for ONF 16 Oil Mist Filter	P103428	PK194315-T	\$299.00
Oil return unit for ONF 16, ONF25, ONF25L Oil Mist Filter	P103429	PK196172-T	\$225.00
Oil return unit for ONF 16 S/25S for Duo 5M/Duo 10M pumps		PK005987-T	
Oil Return Unit for ONF 16S to Duo 1.6 thru Duo 3 pumps		PK005986-T	
Oil Return Unit for ONF 16S to Duo 1.6, 2.5, 3.0 and Uno5		PK005990-T	

These Oil Return Units returns the oil mist droplets from the oil mist filter back into the Pfeiffer Pump via the gas ballast as a liquid.



For ONF 4-20 Oil Mist Filter  
P103430



For ONF 16 Oil Mist Filter  
P103428

For ONF 16, 25, 25L Oil Mist Filter  
P103429