

Eaton ...

In September 2005 Eaton Corporation acquired the industrial filtration business of Hayward Industries, Inc. The Hayward filtration business has been integrated into Eaton's Fluid Power Group as the Filtration Division. Eaton's Filtration Division is a global leader in products that include pipeline strainers, bag filtration systems, and gas/liquid separators for industrial and commercial customers worldwide. Primary markets include general industrial, petro-chemical, pharmaceutical, food and beverage, power utilities, marine, and water.

BAG FILTRATION SYSTEMS

Eaton's bag filter housings and filter bags are used by industries around the world and are manufactured worldwide to global standards. Customers can choose from a complete line of single and multi-bag filter housings designed to meet the needs of the most demanding applications. The choice of single bag filter housings range from those suitable for exacting absolute filtration applications to high quality housings designed especially for cost sensitive applications...and everything in between. Multi-bag housings that accommodate up to 36 individual filter bags for flow rates of up to 1000 m³/h are available in a number of different designs. Eaton offers a full range of filter bags...more than 1500 choices in all. From economical sewn filter bags for standard applications to welded, multilayered bags for demanding applications.

CARTRIDGE FILTRATION SYSTEMS

Eaton's broad range of filter cartridges gives customers wide flexibility in choosing filtration solutions. Available are nominal and absolute rated melt blown, string wound, resin bonded and activated carbon cartridges, filter modules, stainless steel and plastic filter housings.

PIPELINE STRAINERS

Eaton's pipeline strainers are used by industrial and commercial customers to protect their process piping equipment by removing debris from the liquid that flows through pipe-

lines. Products include automatic self-cleaning strainers as well as manual, duplex, simplex, and Y- strainers. Both cast and fabricated type strainers are made in standard configurations to meet the needs of most applications. For unique, complex, or specialized applications, a pipeline strainer can be designed and manufactured to meet the exact requirements of the application with no compromises.

GAS/LIQUID SEPARATORS

Eaton's gas/liquid separators protect expensive system components, such as turbines, by removing potentially damaging moisture and particulate matter from air, gas, and steam lines.

COMMITMENT TO GLOBAL MARKETS

Eaton's bag filtration systems, cartridge filtration systems, pipeline strainers, and gas/liquid separators have each been developed into a global product line which is manufactured worldwide in multiple locations to a common design standard yet in compliance with local code requirements. This lets Eaton customers worldwide choose the pipeline strainer, bag filter, or gas/liquid separator that meets their exact requirements without compromise. Local sales and technical support specialists are always available to review the needs of an application with the customer and recommend specific solutions.

EATON CORPORATION

Eaton is a diversified industrial manufacturer with 2005 sales of \$11.1 billion. Eaton is a global leader in electrical systems and components for power quality, distribution, and control; fluid power systems and services for industrial, mobile, and aircraft equipment; intelligent truck drivetrain systems for safety and fuel economy; and automotive engine air management systems, powertrain solutions, and specialty controls for performance, fuel economy, and safety. Eaton has 59,000 employees and sells products to customers in more than 125 countries. For more information, visit www.filtration.eaton.com.

Eaton Filter Cartridges- Precision in Filtration -



LOFTOP	Melt Blown Absolute-Rated Polypropylene Filter Cartridges	Pages 4-6
LOFTREX	Melt Blown Industrial Polypropylene Filter Cartridges	Page 7
LOFWIND	String Wound Filter Cartridges	Page 8
LOFCLEAN	Resin Bonded Acrylic Fiber Filter Cartridges	Page 9
LOFSORB	Extruded Carbon Filter Cartridges	Page 10
LOFDISC	Cellulose and Active Carbon Filter Modules	Page 11

LOFTOP Absolute Filter Cartridges

The demand for industrial filtration continues to increase, driven by greater requirements for product purity. LOFTOP absolute filter cartridges are Eaton's response to these requirements. LOFTOP absolute filter cartridges have been developed for such demanding applications.

LOFTOP absolute filter cartridges are made of 100% high purity polypropylene micro fibers. Micro fibers are blown onto the center core. The meltblown process eliminates the requirement to use binders or additives.

LOFTOP absolute filter cartridges do not release any fibers. DOE cartridges and SOE cartridges equipped with a FPM O-ring adapter are **silicone free**.

Typical Applications/Types of Usage:

Pharmaceutical

Protection of membrane cartridges Filtration of extracts

Electronic

Pure water, DI-water (pre-filtration), R. O. water (pre-filtration), photo resins, acids, bases

Film and Photo

Photo resist resins, film lacquers, developer, emulsion, magnet dispersion

Food and Beverages

Mineral water, beer, wine, fruit juice, milk, edible oils

Cosmetics

Mouth wash, perfume, lotion, shampoo

Automotive

E-coats

Surface finishing

Coolants, plating liquids

Others

Chemicals, paper coatings, printing inks, solvents, resins, lacquers, condensate recycling



LOFTOP Absolute Filter Cartridges

- 100% pure Polypropylene
- No added adhesives
- Excellent chemical compatibility
- Biologically and chemically inert
- Controlled pore size
- Steam sterilization, autoclave
- Efficiency rating ß-ratio 5000
- Open pore structure
- High structural stability
- High dirt load capacity
- No fiber release

Technical Data:

Filter Fineness: 0.5 – 120 µm

Length: 5"- 40"

Connections: DOE and O-ring adapter

Fiber Material:

Pure Polypropylene micro fibers manufactured according to FDA requirements (§ 177.152), thermally bonded on a Polypropylene core.

Temperature Resistance: 80°C permanent, (121°C

steam sterilization)

Max. Differential Pressure: 4.0 bar/25°C

Efficiency > 99.98 % (\(\mathcal{B}\)-ratio 5000)

ß-Value Efficiency Rating

LOFTOP absolute filter cartridges are subject to stringent quality control processes. They are regularly tested for their ß-value.

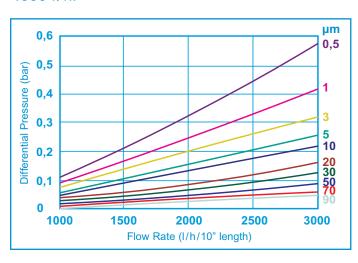
The table below gives the filter efficiencies in μm at given β -values:

	ß-5000	ß-1000	ß-100
LT-10-0,5-A	0.5	< 0.5	< 0.5
LT-10-1-A	1	0.5	< 0.5
LT-10-3-A	3	2	1
LT-10-5-A	5	4	3
LT-10-10-A	10	9	8
LT-10-20-A	20	18	15
LT-10-30-A	30	26	22
LT-10-50-A	50	40	31
LT-10-70-A	70	60	55
LT-10-90-A	90	80	77
LT-10-120-A	120	110	100

These results have been obtained according to OSU-F-2, ISO-4402 and ISO-4752 under laboratory conditions.

Pressure Drop ($\triangle P$)

The table below details the pressure drop-flow rate characteristics of LOFTOP cartridges flowing water at 20°C. Flow rate is stated as flow per 10" length. For fluids of other viscosities, multiply the indicated ΔP by the fluid viscosity in centipoise. The flow rate for multiple length cartridges is proportional, but should not exceed 4500 I/h.



Dirt Holding Capacity

LOFTOP absolute filter cartridges utilize a graded fibre structure capable of achieving high dirt loading characteristics.

The highest holding capacities are in the outer layers due to high pore volumes, preventing blinding of the cartridge surface.

	Dirt Holding Capacity (g/10")
LT-10-0,5-A	66
LT-10-1-A	68
LT-10-3-A	70
LT-10-5-A	70
LT-10-10-A	70
LT-10-20-A	70
LT-10-30-A	70
LT-10-50-A	70
LT-10-70-A	94
LT-10-90-A	360
LT-10-120-A	360

All tests were performed in water at 20°C with a flow rate of 7.5 l/min/10" length using coarse test dust at an inlet concentration of 1.2 g/l to a final ΔP of 2.7 bar. In other conditions, dirt capacity can vary significantly from these results.

Recommended Flow Rates

Filtration efficiency and particle holding capacity are dependent on viscosity, filter efficiency and flow rate. For optimum results we recommend not to exceed the following flow rates (I/min/10" length):

	Viscosity in mPas							
	1 (H ₂ O)	50	100	500				
LT-10-0,5-A	8	1	0.6	-				
LT-10-1-A	9	1.5	1	-				
LT-10-3-A	10	2.5	1.8	1				
LT-10-5-A	12	4	2.7	1.5				
LT-10-10-A	14	8	5.4	3				
LT-10-20-A	20	12	8	4				
LT-10-30-A	30	14	9	4.3				
LT-10-50-A	45	16	10	4.5				
LT-10-70-A	50	18	11	5				
LT-10-90-A	50	18	11	5				
LT-10-120-A	50	18	11	5				

LOFTOP Absolute Filter Cartridges

LOFTOP absolute filter cartridges are available in a wide range of types for use in many different applications:

Length:

05" (127 mm) 30" (762 mm) 10" (254 mm) 40" (1016 mm) 20" (508 mm)

Diameter:

Outer Diameter: 64 mm Inner Diameter: 27 mm

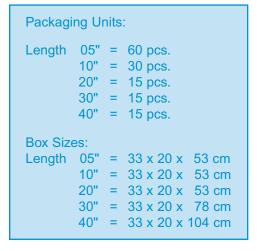
Sealing Materials:

Version G: Polypropylene Version 2, 3+4: Silicone rubber (standard), Viton



Optional Versions:

For operating temperatures up to 100°C LOFTOP filter cartridges can be equipped with a stainless steel core.

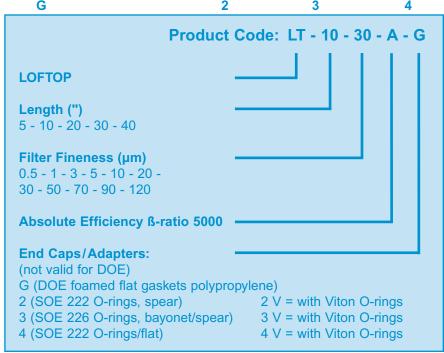




Choice of End Caps/Adapters:

LOFTOP absolute filter cartridges come standard as DOE (double open end) versions with polypropylene flat gaskets (G). In addition they are available with common end caps/adapter with O-rings for Eaton cartridge housings and other systems. All end caps/adapters are made of polypropylene (FDA-conform).





LOFTREX Industrial Filter Cartridges

LOFTREX filter cartridges are made of pure polypropylene (melt blown) micro fibers, thermally bonded to prevent any fibre migration.

LOFTREX filter cartridges do not contain an inner core.

LOFTREX filter cartridges comply with FDA requirements and are free of any binding agents.

LOFTREX filter cartridges are depth filters. They have a high pore volume and high dirt holding capacity.

LOFTREX filter cartridges are temperature resistant to 80°C. The polypropylene material offers excellent chemical compatibility.

Applications Examples:

Water treatment, pure water pre-filtration, edible oils, fine chemicals, resins, reverse osmosis, DI water, sea water desalination, wine (pre-filtration), beverages, film development, fixing baths, solvents, cosmetics, galvanic baths.

Technical Data:

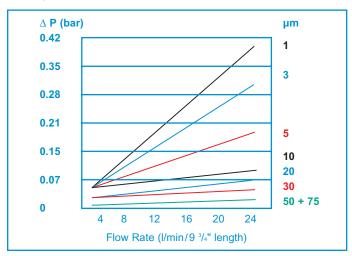
Filter Fineness (nominal) 1-3-5-10-20-30-50-75 μ m Length: 5" - 40" (50" on request)

Inside Diameter: 28 mm
Outside Diameter: 64 mm
Max. Working Temperature: 80°C

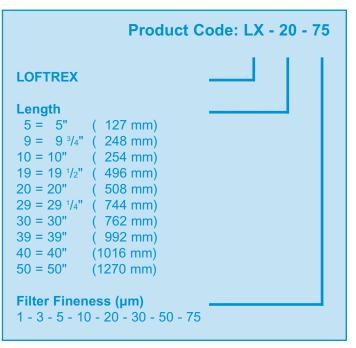
Max. Differential Pressure: 2.5 bar at 30°C

Pressure Drop ($\triangle P$)

The table below details the pressure drop-flow rate characteristics of LOFTREX cartridges flowing water at 20°C. Flow rate is stated as flow per 9 $^{3}/_{4}$ " length. For fluids of other viscosities, multiply the indicated ΔP by the fluid viscosity in centipoise.







LOFWIND String Wound Filter Cartridges

LOFWIND filter cartridges are string-wound depth filter elements.

LOFWIND filter cartridges can be used in many different types of applications due to the many different combinations of filter materials and inner cores.

Applications:

Water treatment, sea water desalination, condensate preparation, process water, photo chemicals, film development, edible oils, solvents, galvanic baths, fats, acids, bases, chemical processes

Technical Data:

Filter Fineness (nominal): 0.5-1-3-5-10-25-50-75

100-150 μm

Length: 5" - 40"

Inside Diameter: 28 mm

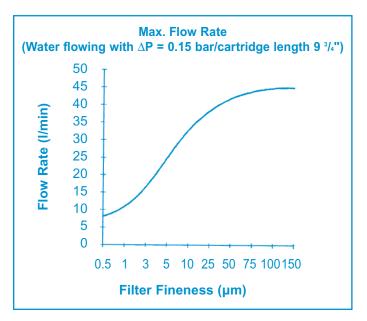
Outside Diameter: 62 mm

Max. Working Temperature: 80°C (Polypropylene)

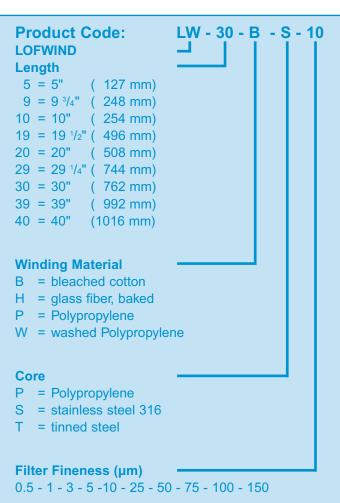
160°C (Cotton)

400°C (Glass fiber)

Max. Differential Pressure: 2.5 bar / 30°C







LOFCLEAN Filter Cartridges

LOFCLEAN filter cartridges are resin bonded depth filter cartridges. They are made of long acrylic fibers, bonded with phenolic resins.

LOFCLEAN filter cartridges have no core and are self-stabilized by the phenolic resin.

LOFCLEAN filter cartridges are always a single integral piece, irrespective of length. They are never glued together.

Applications:

Lacquer, paints, printing inks, adhesives, resins, emulsions, petroleum, wax, process water, organic solvents, animal or vegetable fats, inks, low acids and bases (ph 5-9).

Not recommended for oxidizing media and applications in the food industry.

Technical Data:

Material: Acrylic fibres

phenolic resin bonded

Filter Fineness (nominal): 2-5-10-25-50-75-125

150 µm

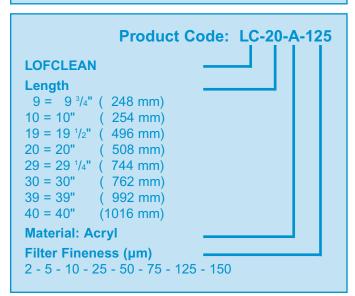
Length: 9 3/4" - 40"
Inside Diameter: 28 mm
Outside Diameter: 65 mm
Max. Working Temperature: 121°C
Max. Differential Pressure: 3.5 bar

Pressure Conditions: 10 bar/ 21°C

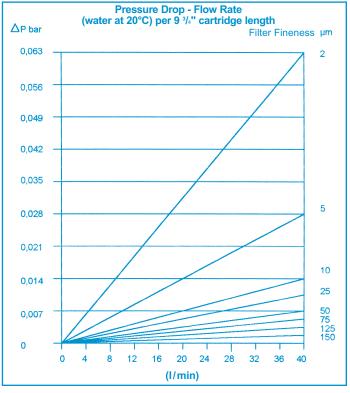
8.6 bar/ 38°C 6.2 bar/ 65°C 4.5 bar/ 82°C 1.7 bar/121°C

Viscosity: max. 3250 mPas

Flow Rate (max.): 19 l/min per 9 3/4" length







LOFSORB Activated Carbon Cartridges

LOFSORB activated carbon cartridges are pressed and extruded under high pressure.

LOFSORB active carbon cartridges prevent carbon particles passing into the filtrate.

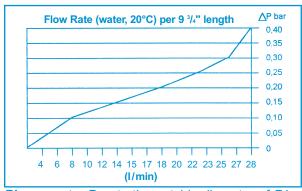
LOFSORB active carbon cartridges have excellent adsorption caracteristics for chlorine and organic compounds.

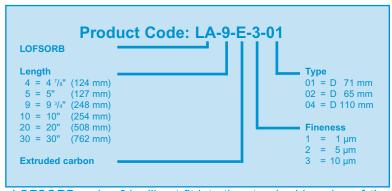
Applications:

Potable water, spirits, water based and organic solvents (for removal of color, smell and taste contamination), galvanic baths (removal of organic contamination from nickel and copper baths), through anodic oxidation or cathodic reductions, impurities that derive from organic electrolytic additives can be removed.



Type 01 (04) **Technical Data:** Type 02 1, 5 and 10 µm Filter Fineness: 5 µm 95 % Efficiency: 95 % 4 7/8, 9 3/4, 20 and 30" Length: 5, 9 ³/₄, 10, 20 and 30" 26 mm (01), 28 mm (04) **Inside Diameter:** 27 mm 71 mm (01), 110 mm (04) Outside Diameter: 65 mm Gaskets: ENGAGE (Ethylene-octene copolymer) Polypropylene 52°C Max. Working Temperature: 52°C Max. Differential Pressure: 7 bar 2.5 bar Recommended Flow Rate (max.): 8 l/min per 9 ³/₄" length 8 l/min per 9 ³/₄" length 85-90% coconut shell, 85-90% coconut shell, **Activated Carbon:** 10-15% others 10-15% others Weight of Carbon: $4^{7/8}$ " = 180 g = 95 g $9^{3}/_{4}$ " = 360 g (type 04 = 1100 g) $9^{3}/_{4} + 10" = 190 g$ = 720 g (type 04 = 2200 g) 20" = 380 a30" = 1080 q30" $= 570 \, \mathrm{g}$ Binder: **HDPE HDPE** Outside: Polypropylene fleece and net washed Polypropylene yarn





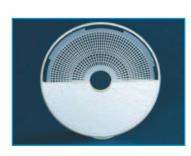
Please note: Due to the outside diameter of 71 mm, LOFSORB series 01 will not fit into the standard housing of the TOPCART series (from TKF-609 up). Special constructions are available upon request.

LOFDISC Filter Module

LOFDISC filter modules are used in closed systems, unlike filter sheets.

LOFDISC filter modules are made of either pure cellulose/diatomaceous earth filter sheets or activated carbon tinctured sheets. Each module contains 16 single cells (standard). Each cell has a drainage system through which the liquid drains from outside to inside.





LOFDISC filter modules can be sterilized:

- a) In an autoclave at 121°C for 20 minutes.
- b) With steam (1 bar) for 20 minutes in a closed filter housing.
- c) Chemically, though not very common. A non oxidizing media must be applied if this method is used.

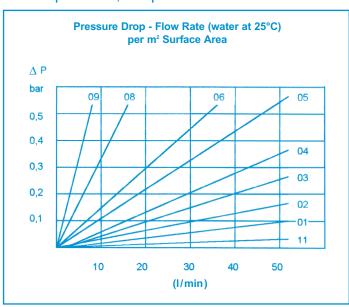
For wetting and removal of air and other particles, pre-washing of the filter unit (filter housing and module) with high purity water is necessary.

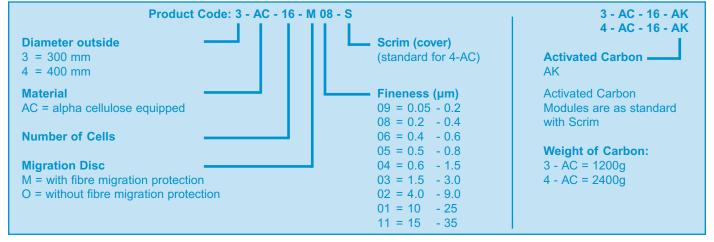
Cold water: 100 I per module through the system one time. Hot water: 20 I per module to be circulated for 30 minutes.

Application examples:

Wine, beer, fruit juice, mineral water, beverages, pure water, pre-filter for protection of membrane filter systems, pharmaceutical, cosmetical and chemical products, lacquer

Technical Data and Materia	als:	
	Type 3AC	Type 4AC
Number of Cells:	16	16
Surface Area/Module:	1.8 m ²	3.6 m ²
Outside Diameter:	300 mm	400 mm
Inside Diameter:	50 mm	50 mm
High:		275 mm
Max. Operating Temperature:	80°C	80°C
	121°C/20 min	121°C/20 min
Max. Differential Pressure:	2.5 bar	2.5 bar
pH Operating Range:	4 - 10	4 - 10
Filter Media (4 mm):	alpha grade cellulo	se and diatoma-
, , ,	ceous earth or act	tivated carbon
Filter Fineness:	0.2 - 35 μm	
Efficiency:	99.6%	
Support Skeleton:	Polypropylene (FD/	A 21
	CFR 177.1520 and	l European
	Pharmacopoeia in	
	paragraph 3.1.3 an	nd 3.1.6)
Metal Straps:	316 stainless stee	
Gaskets:	Silicone rubber (Fl	PM on request)
Scrim Cover:	Polypropylene `	, ,





Eaton Cartridge Filter Housings - Precision in Filtration -



EKF ..E"



EKF "BE"



PKF



TKF



EKF "E"



PCF



LDF



TKF

Cartridge Filter Housings

ECOCARI	Single Cartridge Filter Housing EKF "E" and EKF "BE" Series	Page 13
ECOCART	Multiple Cartridge Filter Housing EKF "E" Series	Page 14
TOPCART	Single Cartridge Filter Housing TKF Series	Page 1
TOPCART	Multiple Cartridge Filter Housing TKF Series	Page 16
POLYCART	Single Cartridge Filter Housing PKF Series	Page 17
POLYLINE	Multiple Cartridge Filter Housing PCF Series	Page 18
LOFDISC	Module Filter Housing LDF Series	Page 19

The housings shown in this catalog are standard inventoried products constructed in compliance with the EU Pressure Equipment Directive 97/23/EC, Article 3, paragraph 3 with the working fluid classification as Group 2 (per Article 9, paragraph 2.2) and a liquid as defined in Article 3, paragraph 1.1 (b) for Group 2 fluids.

For housings used in process applications that require compliance to other Pressure Equipment Directive criteria, please contact Eaton for price and availability.

ECOCART Single Cartridge Filter Housings

ECOCART (EKF) "E" series cartridge filters are made for double open end (DOE) cartridges. Manufactured in SS 304, they consist of a head and a sump, connected by a center rod with a cap nut. Head, sump, head and cap nut are sealed with flat ring gaskets.

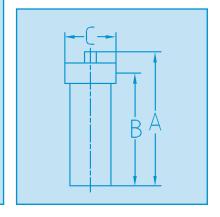
The sump is equipped with a bottom drain. An optional bracket is available for mounting the filter to the wall.

Technical Data:

ECOCART Type	EKF-109-E	EKF-120-E	EKF-130-E
Max. Flow Rate (m³/h)	2.4	4.8	4.8
Max. Operating Conditions (bar/°C) 10/121	10/121	10/121
Housing Dimensions (mm) A	349	603	857
В	281	535	789
C	105	105	105
Volume (I)	1.47	2.9	4.4
Weight (kg)	3.5	4.5	5.5
Inlet/Outlet (BSP female)	1"	1"	1"
Drain (NPT female)	³ / ₁₆ "	³ / ₁₆ "	³ / ₁₆ "
Length of Filter Cartridge	9 3/4"	20"	30"
	= 248 mm	= 508 mm	= 762 mm
No. of Filter Cartridges	1	1	1
Max. Cartridge Outside Diameter	72 mm	72 mm	72 mm



Series EKF "E"

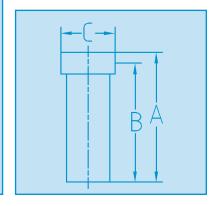


ECOCART "BE" series cartridge filters are made of brass (head and union nut) and SS 304 (sump) for the use with DOE filter cartridges. The union nut is pulled over the sump and screwed to the head. The sump and head are sealed by a NBR head O-ring. The O-ring can also be supplied in FPM. An optional bracket is available for wall mounting.

ECOCART Type	EKF-109-BE-3/4 EKF-109-BE-1	EKF-120-BE-3/4 EKF-120-BE-1
Max. Flow Rate (m³/h)	2.4	4.8
Max. Operating Conditions (bar/°C	17/121	17/121
Housing Dimensions (mm)	337	591
E	317	571
	114	114
Volume (I)	1.5	2.97
Weight (kg)	3.5	4.5
Inlet/Outlet (BSP female)	³ / ₄ " or 1"	³ / ₄ " or 1"
Drain (NPT female)	1/8"	1/8"
Length of Filter Cartridge	9 ³ / ₄ " = 248 mm	20" = 508 mm
No. of Filter Cartridges	1	1
Max. Cartridge Outside Diameter	72 mm	72 mm



Series EKF "BE"



ECOCART Multiple Cartridge Filter Housings

ECOCART cartridge filter housings (EKF) are made in a lightweight SS 304 construction for use with standard DOE filter cartridges. The housings feature a V-clamp closure sealing with an NBR O-ring. FPM is available as an option.

ECOCART cartridge filters are manufactured as self-supporting versions (500 series) or with legs (1200 series and larger). To mount a gauge or a vent to the housing, the lids are equipped with \(^{1}/_{4}\)" BSP female ports.

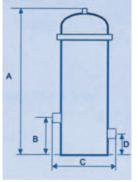
There are 1/2" BSP drains for clean and dirt-drain in the lower part of the housing.

All filter cartridges (DOE style) are secured by means of a hold down plate tightened with a center rod/bolt.

ECOCART cartridge filter housings are suitable for all standard DOE (double open end) cartridges, with a maximum outside diameter of 71 mm.



Serie EKF-E



ECOCART Type EKF	- 509-E	520-E	530-E	540-E	1220-E	1230-E	1240-E	2230-E	2240-E
Max. Flow Rate (m³/h)	8.4	16.8	25.2	33.6	40.2	60	80.4	110.4	147
Max. Pressure Conditions (bar/0	;°)				10/121		,		
Housing Dimensions (mm)	502	755	1010	1264	1003	1257	1511	1232	1486
E		17	75			391		38	36
	;	267			413			527	
		76			241			238	
Volume (I)	14	23	31	38	51	69.2	87.4	123	155.3
Weight (kg)	13	16	19	22	41	50	62	66	75
Inlet/Outlet	Е	BSP-female thread 2"			DIN flange DN80 PN 16			DIN flange DN100 PN 16	
Drain		BSP female 1/2"							
Length of Filter Cartridge (")	93/4/10	191/2/20	291/4/30	39/40	191/2/20	291/4/30	39/40	291/4/30	39/40
No. of Filter Cartridges		5			12			2	2
Max. Cartridge Outside Diamet	er	71 mm				71 mm		71 :	mm

TOPCART Single Cartridge Filter Housings

TOPCART single cartridge filter housings (TKF) are made of high quality SS 316. The housings have a head and sump. They are opened and closed with a Tri-Clamp ring. The head is electropolished; the sump is mechanically polished.

The head inlet and outlet (1" BSP threaded connection) are positioned in-line. The housing is equipped with a (1/4" BSP threaded connection) vent in the head and a drain in the sump (3/8" BSP). The housing is sealed with a NBR O-ring. FPM O-rings are available as an option.

TOPCART single cartridge filters are made for the use with 9³/₄", 10", 20" and 30" cartridges. The housings can be supplied for use with DOE-, SOE-222 and SOE-226 filter cartridges.



Series TKF-100

For DOE Filter Cartridges:

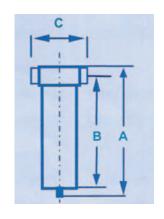
TKF-110-S; TKF-120-S; TKF-130-S

For SOE 222 Filter Cartridges:

TKF-110-S-222; TKF-120-S-222; TKF-130-S-222

For SOE 226 Filter Cartridges:

TKF-110-S-226; TKF-120-S-226; TKF-130-S-226



TOPCART Type	TKF-110-S TKF-110-S-222 TKF-110-S-226	TKF-120-S TKF-120-S-222 TKF-120-S-226	TKF-130-S TKF-130-S-222 TKF-130-S-226
Max. Flow Rate (m³/h)	2.4	4.8	4.8
Max. Operating Conditions (bar/°C	20/121	20/121	20/121
Housing Dimensions (mm)	354/354/398	604/604/649	854/854/899
В	316/316/360	566/566/611	816/816/861
C	120	120	120
Volume (I)	1.7	3.23	4.66
Weight (kg)	3	4	5.6
Inlet/Outlet	1"	1"	1"
Drain	³ / ₈ "	³ / ₈ "	3/8"
Length of Filter Cartridge	9 ³ / ₄ "/10" = 248/254 mm	20" = 508 mm	30" = 762 mm
No. of Filter Cartridges	1	1	1
Max. Cartridge Outside Diameter	72 mm	72 mm	72 mm

TOPCART Multiple Cartridge Filters

TOPCART multiple cartridge filters are heavy-duty standard filter housings designed for industrial liquid filtration. They are made of either stainless steel (SS 316) or special materials such as Hastelloy for 6 to 73 standard filter cartridges in 9 3/4" to 40" in length.

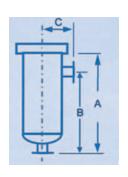
These filters feature a variety of different options including flat or spherical covers, clamp screws or swing-eye bolts, loose covers or davits (manual or hydraulic), side entry and central bottom outlet. The cover is sealed with an NBR-O-ring. FPM O-rings are available as an option. All filters are equipped with a cover vent and a drain in the bottom plate.

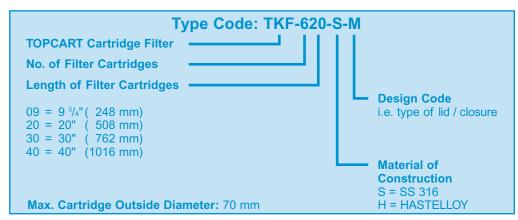




TOPCART cartridge filters are ready to be used with standard DOE filter cartridges, with SOE-222 cartridges (standard) or with SOE-226 cartridges (special).

On request, manufacturing can be made in accordance with a notified body approval (CE certification according to PED 97/23/EC).





TOPCART Type		TKF-609-S to TKF-640-S	TKF-1120-S to TKF-1140-S	TKF-1920-S to TKF-1940-S	TKF-3720-S to TKF-3740-S	TKF-7330-S to TKF-7340-S		
Max. Operating Condition	Max. Operating Conditions (bar/°C)		10/160		10/	121		
Construction Materials				SS 316 or specia	l material (e.g. HAS	STELLOY) on reque	st	
Filter Connections (N1/N2)	ons		DN 50	DN 80	DN 100	DN 150 DN 150		
Lid Type			flat loose cover	flat loose cover	flat davit construction	spherical davit construction	spherical davit construction	
Lid Closure			swing eye-bolts	studs, hex. bolts/nuts studs, hex. bolts/nuts segment clam			mps screws	
Max. Flow Rate (m³/h)	Cartridge	9 ³ / ₄ " 20" 30" 40"	9 18 27 36	- 33 50 66	- 57 86 115	_ 111 167 222	- - 328 438	
(mm) A/B/C	of Filter Ca	9 ³ / ₄ " 20" 30" 40"	490 / 410 / 220 735 / 665 / 220 985 / 905 / 220 1230 / 1150 / 220	700 / 500 / 265 945 / 745 / 265 1195 / 995 / 265	735 / 525 / 305 980 / 770 / 305 1230 / 1020 / 305	795 / 595 / 380 1040 / 840 / 380 1290 / 1090 / 380	1115 / 925 / 500 1365 / 1175 / 500	
	Length	9 ³ / ₄ " 20" 30" 40"	43 / 14 47 / 24 51 / 31 55 / 44	- 76 / 51 82 / 73 88 / 93	- 118 / 85 129 / 120 140 / 150	- 200 / 210 221 / 270 242 / 330	- - 562 / 405 605 / 530	

POLYCART Single Cartridge Filter Housings

POLYCART cartridge filter housings are single cartridge filters constructed of plastic for (DOE) standard cartridges in 4 ⁷/₈" to 20".

The housings are available in two styles with different diameters: 122 and 185 mm:

The 122 mm model (Series K) is available in either polypropylene alone or with a polypropylene head and a transparent sump (SAN).

The 185 mm model (Series G) works with cartridges up to a diameter of 114 mm.

The head inlet and outlet (N1/N2) are positioned in-line. They are available in sizes 3/8" up to 1 1/2" BSP threaded connection, depending on housing style (see technical data).

An NBR O-ring seals cover and sump. FPM O-rings are available as an option.



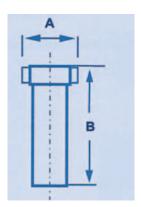
Series PKF

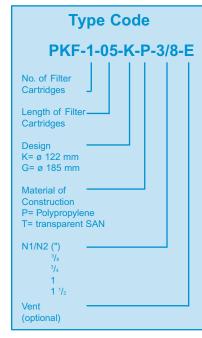


Key



Mounting Bracket





POLYCART Type PK	- 1-05-K-P	1-05-K-T	1-09-K-P	1-09-K-T	1-20-K-P	1-09-G-P-E	1-20-G-P-E	
Max. Operating Conditions (bar/°	C)	8/50						
Filter Connections (N1/N2) BSP Female Thread (")	³ / ₈ or ³ / ₄	³ / ₈ or ³ / ₄	3/8 / 3/4 / 1	³ / ₈ / ³ / ₄ / 1	³ / ₄ or 1	1 1/2	1 1/2	
Measure A (mm)			122			18	35	
Measure B (mm)	175/190	175/190	295/310/310	295/310/310	575/575	350	620	
Length of Filter Cartridges (")	4 ⁷ / ₈	4 ⁷ / ₈	9 3/4	9 3/4	20	9 3/4	20	
Max. Cartridge Outside Diamet	er	72 mm					114 mm	
Material Filter Head				Polypropylene				
Material Filter Sump	Polypropylene	SAN	Polypropylene	SAN	Polypropylene	Polypropylene	Polypropylene	
Vent			optional			yes		
Key (optional)		PKF-K-S				PKF-G-S		
Wall Mounting Bracket (optional)		PKF-K-W				PKF	-G-W	

POLYLINE Multiple Cartridge Housing

POLYLINE multiple cartridge housings are heavy-duty filter housings made of glass-reinforced polypropylene. These housings are made in one piece without any welds. All inserts are also molded in one piece, free of welds.

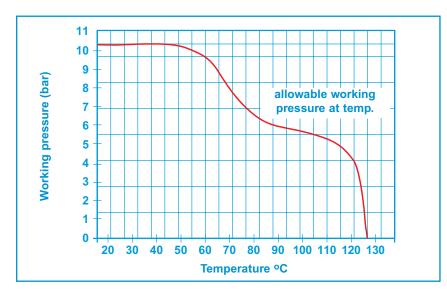
The housing can fit five filter cartridges of 30" length. Cartridges to be used can be DOE (double open end) or SOE 222 (with double O-ring).

The cover is screwed onto the housing sealed with an FPM O-ring. The cover features a vent as standard.

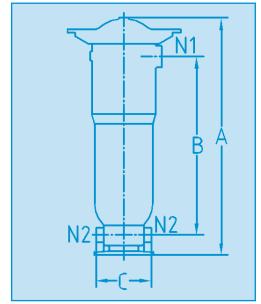
The housing is equipped with an inlet (N1) and two outlets (N2) for in-line or loop piping connections. The unused outlet can either be plugged or can be used as a drain.

The filter housing is supplied with either 2" BSP female connections or 2" ANSI/DIN flanges.

The filter housing has a self-supporting integral bottom mounting flange. It can be bolted in the floor for additional security. No additional leg assembly is needed.







POLYLINE Type	PCF-530-P-10	PCF-530-P-10-F			
Max. Operating Conditions (bar/°C)	10/20 (see graph)				
Material	glass-reinforced Polypropylene				
Housing Dimensions (mm) A	1221				
В	930				
C	330	584			
Volume (I)	36				
Vent	⁵ / ₈ " NPT				
Length of Filter Cartridge	30" (= 762 mm)				
No. of Filter Cartridges 5					
Max. Cartridge Outside Diameter	70 mm				
Weight (kg)	30	32			
Inlet/Outlet	2" BSP female thread	2" ANSI/DIN flange			

LOFDISC Module Filters

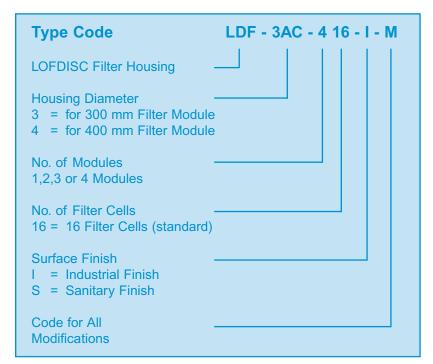
LOFDISC module filter housings are constructed with a variety of diameters and heights. They are available with either an industrial finish (glass bead blasted or brushed) or a sanitary finish (electro-polished).

The standard housing is made for operating conditions of 10 bar/121°C.

The closing mechanism operates with a V-clamp or clamp screws.

The housings (standard) are equipped with $1-\frac{1}{2}$ " Tri-Clamp (series 3AC) or 2" Tri-Clamp (series 4AC) connections. They can be supplied with flanges, dairy or sanitary connections.

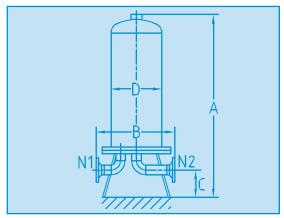
The filter modules are placed over the central rod and fixed to the housing bottom plate. The filter housing is sealed with an adjustable top screw pressing the top down onto the bottom plate.





LDF-3AC-316-S-N





LOFDISC Housing Type	Dimensions (mm)				N1/N2	Weight	Volume	Filter area	Flow rate* area
	А	В	С	D	Tri-clamp	(kg)	(liter)	(m²)	(m³/h)
LDF-3AC-116-I	730	440	210	324	1 1/2"	34	29	1.8	2.5
LDF-3AC-216-I	1030	440	210	324	1 1/2"	40	53	3.6	5
LDF-3AC-316-I	1390	440	210	324	1 1/2"	48	81	5.4	7.5
LDF-3AC-416-I	1710	440	210	324	1 1/2"	58	108	7.2	10
LDF-4AC-116-I	750	640	210	450	2"	75	60	3.6	5
LDF-4AC-216-I	1050	640	210	450	2"	85	106	7.2	10
LDF-4AC-316-I	1410	640	210	450	2"	97	162	10.8	15
LDF-4AC-416-I	1730	640	210	450	2"	105	214	14.4	20

^{*} max. recommended flow rate for water bases liquids (Viscosity ≥ 1mPas)

Germany Headquarter EMEA

Eaton Filtration GmbH Auf der Heide 2 53947 Nettersheim, tel: +49 (0) 2486 809 0 fax: +49 (0) 2486 809 800 e-mail: info-filtration@eaton.com www.filtration.eaton.com

France

La Tour Sier,

69500 Bron

Eaton Filtration GmbH

129 boulevard Pinel,

fax: 0800 29 36 90

tel: +33 (0) 4 72 78 84 50 fax: +33 (0) 4 78 74 43 07 e-mail: info-filtration@eaton.com www.filtration.eaton.com

United Kingdom

Eaton Filtration GmbH
Unit 2, Crown Gate,
Wyncolls Road,
Colchester, Essex C04 9HZ
tel: +44 (0) 1206 848 350
fax: +44 (0) 1206 848 359
e-mail: info-filtration@eaton.com
www.filtration.eaton.com

Customer Service EMEA

Austria tel: 0800 29 36 89 tel. 0800 77 0 22 Belgium France tel: +33 (0) 4 72 78 84 50 tel: +49 (0) 2486 809 400 Germany Italy tel: 800 78 58 83 Luxembourg tel: 800 2 42 98 Netherlands tel: 0800 0 22 27 03 South Africa tel: +27 (0) 11 791 43 31 tel: 900 98 49 15 Snain tel: +44 (0) 1206 848 350 UK Export tel: +49 (0) 2486 809 470

fax: +49 (0) 2486 809 570

North America

Eaton Filtration, LLC 900 Fairmount Avenue Elizabeth, NJ 07207 USA tel: 1 908 787 1000

fax: 1 908 351 7893 e-mail: filtration@eaton.com www.filtration.eaton.com

Asia/Pacific

Eaton Filtration Pte. Ltd. #05-02 Shriro House Singapore, 159640 tel: +65 6452 0955 fax: +65 6452 1132 e-mail: filtration@eaton.com www.filtration.eaton.com

South America

Eaton Filtration Indústria de Filtros Ltda.
Rua Padre Roque, 2084
Bairro da Saude,
Mogi Mirim/SP
CEP: 13800-335 Brazil
tel: +55 19 3805 8200
fax:+55 19 3805 8201
e-mail: filtration@eaton.com
www.filtration.eaton.com

GAF®, the GAF® logo,
ACCUGAF™, DURAGAF™,
PROGAF™, and GAF
SNAP-RINC® are
registered trademarks of
GAF Corporation in the
United States and are
used under license.
To the best of our knowledge,
although not binding for us,
all stated information is correct.

© 2006 Eaton Corporation

All Rights Reserved Printed in Germany April 2006

