



PURE LIFE

FRP CARTRIDGE FILTER HOUSINGS

PURELIFE KSA COMPANY | We partner for the filtration future





FRP CARTRIDGE FILTER HOUSINGS

FIBERGLASS REINFORCED POLYESTER

Pure Life offers a wide range of filter housing made from high-quality fiberglass reinforced polyester (FRP) with different capacities and designs to meet your needs, compatible with various universal cartridge elements, providing superb filtration efficiency and durability. Our filter housings are long service life, large flow rate, easy to install, good dirt capacity, high filtration efficiency and low maintenance cost. Whether you're building a new water treatment plant or upgrading an existing one, Pure Life's cartridge filter housings are the perfect solution for your filtration needs.

FRP CARTRIDGE FILTER HOUSINGS (FIBERGLASS REINFORCED POLYESTER)

FEATURES:

- Applicable design codes: ASME-X/EN13121-3/ Ad Merkblatt 2000/ AS1210 code
- Design pressure up to 10 bar/150 psi (Higher pressure under request)
- Design temperatures up to 85 °C / 194 °F
- Horizontal and vertical configuration available
- Chemical barrier: Vinyl-Ester resin FDA/NSF compliant
- Mechanical reinforcement: Isophthalic resin structural layer
- Davit arm and swing bolts available
- GRP flanges, FF, drilled according EN 1092-1 (Coupling connection under request)
- Inlet/outlet with GRP elbows under request
- Standard Paint Color RAL 7035 or defined by customer (RAL chart)
- Complete FRP filter housing range is compliant with NSF/ANSI 61-G and 372 standards.
- Seismic and wind calculations



APPLICATIONS:

- Reverse Osmosis Prefiltration
- Sea Water Desalination
- Water Treatment
- Process Water
- Agriculture
- Water for Drinking





FRP FILTER HOUSING SERIES

1 PL FO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

2 PL HFO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

3 PL SF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

4 PL HSF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

5 PL SF-B SERIES

Flow Rates: 260-4711 m³/h
Design Pressure: 10 Bar

PL FO SERIES

DESCRIPTION

The PL FO filters are made of the industry's top-rated materials and manufactured in compliance with international design codes, ensuring a long and effective service life. Unlike traditional bolted closure systems, our filter's Fast-Open mechanism provides a fully non-corrosive design, making it perfect for water treatment systems. Additionally, the fast cartridge replacement feature allows you to easily change out dirty cartridges, minimizing downtime and maximizing efficiency.

CHARACTERISTICS

- Flow rates: 6-350 m³ /h (at 0.65 m³ /h /10")
- Design pressure up to 10 bar/150 psi
- N^o elements: 3 - 70
- Elements length: 30"/40"/50"
- Housing configuration: Vertical
- Features: Quick opening, no bolts
- Suitable: Low Flow rates
- Optional: Davit arm

MATERIALS OF CONSTRUCTION

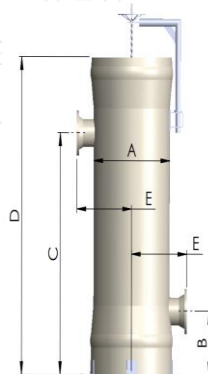
- Shell/Main body: FRP (Fiberglass Reinforced Polyester)
- Anchoring brackets: Carbon steel painted - C5M/
- Stainless steel (A4 or A2)
- Inlet/Outlet flanges: FRP
- Air vent: FRP/PP
- Clean drain: FRP/PP/PA
- Dirt drain: FRP/PP/PA
- Deflector plate: FRP
- Tube sheet: PVC/PPH/FRP
- Guide plate: PVC/PPH
- Lifting lugs: FRP/Stainless steel (A4 or A2)
- Main body gaskets: EPDM
- Cartridge element: PP
- Davit arm (Optional): Stainless steel bolts (A4 or A2)



CARTRIDGE INSTALLATION

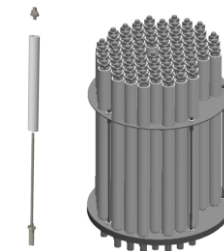
The design of these filter housings is compatible with Double Open End (DOE) cartridge elements. Each cartridge is mounted on an internal support rod and a nut, both featuring knife edges that ensure a perfect seal. This supporting system, called Swords, is fixed as follows: The cartridge is firmly seated in the false bottom plate at the lower end, guided by a support rod and a circular knife edge that remains embedded within the cartridge. At the upper end, a high-speed assembly nut is provided for easy and swift cartridge replacement, equipped with a knife edge to ensure water tightness. Pure Life's Swords system provide exceptional mechanical strength, offering the necessary rigidity to prevent cartridge damage caused by internal vibrations, while also providing a larger open flow area, resulting in reduced pressure drop.

Model	Design Flow rate m ³ /h	Cartridges		N1/N2 DN (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
		Quantity	Length (Inch mm)						
PL FO 3-30	6	3	30 762	50	150	105	995	1100	155
PL FO 3-40	8	3	40 1016	50	150	105	1250	1350	155
PL FO 3-50	10	3	50 1270	50	150	105	1400	1600	155
PL FO 5-30	10	5	30 762	50	200	105	995	1100	180
PL FO 5-40	13	5	40 1016	50	200	105	1250	1300	180
PL FO 5-50	16	5	50 1270	50	200	105	1400	1500	180
PL FO 7-30	14	7	30 762	50	250	250	895	1500	235
PL FO 7-40	19	7	40 1016	50	250	250	1150	1700	235
PL FO 7-50	23	7	50 1270	80	250	250	1400	1950	235
PL FO 12-30	24	12	30 762	100	300	250	895	1500	260
PL FO 12-40	32	12	40 1016	100	300	250	1150	1700	260
PL FO 12-50	39	12	50 1270	100	300	250	1400	1950	260
PL FO 22-30	43	22	30 762	100	400	250	895	1500	310
PL FO 22-40	58	22	40 1016	100	400	250	1150	1700	310
PL FO 22-50	72	22	50 1270	100	400	250	1400	1950	310
PL FO 35-30	69	35	30 762	150	500	250	895	1500	360
PL FO 35-40	91	35	40 1016	150	500	250	1150	1700	360
PL FO 35-50	114	35	50 1270	150	500	250	1400	1950	360
PL FO 50-30	98	50	30 762	150	600	285	895	1600	410
PL FO 50-40	130	50	40 1016	150	600	285	1150	1850	410
PL FO 50-50	163	50	50 1270	200	600	285	1400	2100	410
PL FO 70-30	137	70	30 762	200	700	285	895	1600	500
PL FO 70-40	182	70	40 1016	200	700	285	1150	1850	500



- The recommended average flow rate is approximately 0.65 m³/h for every 10" of cartridge length.
- The maximum recommended flow rate is up to 1.00 m³/h for every 10" of cartridge length.

Product Key: **PL FO XXX-LL PNXX**
 FO: **Fast Open**
 XXX: **number of cartridges**
 LL: **Length of the cartridges**
 PNXX: **Design pressure rating**





FRP FILTER HOUSING SERIES

PL FO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

PL HFO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

PL SF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

PL HSF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

PL SF-B SERIES

Flow Rates: 260-4711 m³/h
Design Pressure: 10 Bar

PL HFO SERIES

DESCRIPTION

The PL HFO filter housings are the horizontal configuration of the PL HFO series. Made of the industry's top-rated materials and manufactured in compliance with international design codes, ensuring a long and effective service life. Unlike traditional bolted closure systems, our filter's quick-open mechanism provides a fully non-corrosive design, making it perfect for water treatment systems. Additionally, the fast cartridge replacement feature allows you to easily change out dirty cartridges, minimizing downtime and maximizing efficiency. We understand that every water treatment application is unique, that is why we created the PL HFO series to offer you more choices according to your needs.

CHARACTERISTICS

- Flow rates: 6-350 m³ /h (at 0.65 m³ /h /10")
- Design pressure up to 10 bar/150 psi
- N° elements: 3 - 70
- Elements length: 30"/40"/50"
- Housing configuration: Vertical
- Features: Quick opening, no bolts
- Suitable: Low Flow rates
- Optional: Davit arm



MATERIALS OF CONSTRUCTION

- Shell/Main body: FRP (Fiberglass Reinforced Polyester)
- Saddles: Carbon steel painted - C5M/
- Stainless steel (A4 or A2)/FRP
- Inlet/Outlet flanges: FRP
- Air vent: FRP/PP
- Clean drain: FRP/PP/PA
- Dirt drain: FRP/PP/PA
- Deflector plate: FRP
- Tube sheet: PVC/PPH/FRP
- Guide plate: PVC/PPH
- Lifting lugs: FRP/Stainless steel (A4 or A2)
- Main body gaskets: EPDM
- Cartridge element: PP
- Davit arm (Optional): Stainless steel bolts (A4 or A2)

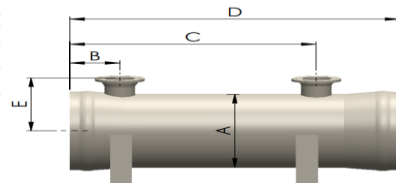


CARTRIDGE INSTALLATION

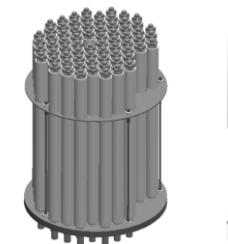
The design of these filter housings is compatible with Double Open End (DOE) cartridge elements. Each cartridge is mounted on an internal support rod and a nut, both featuring knife edges that ensure a perfect seal. This supporting system, called Swords, is fixed as follows: The cartridge is firmly seated in the false bottom plate at the lower end, guided by a support rod and a circular knife edge that remains embedded within the cartridge. At the upper end, a high-speed assembly nut is provided for easy and swift cartridge replacement, equipped with a knife edge to ensure water tightness. Pure Life's Swords system provide exceptional mechanical strength, offering the necessary rigidity to prevent cartridge damage caused by internal vibrations, while also providing a larger open flow area, resulting in reduced pressure drop.

Model	Design Flow rate m ³ /h	Cartridges		N1/N2 DN (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
		Quantity	Length (Inch mm)						
PL HFO 7-30	14	7	30 762	80	250	250	895	1500	235
PL HFO 7-40	19	7	40 1016	80	250	250	1150	1700	235
PL HFO 7-50	23	7	50 1270	80	250	250	1400	1950	235
PL HFO 12-30	24	12	30 762	100	300	250	895	1500	260
PL HFO 12-40	32	12	40 1016	100	300	250	1150	1700	260
PL HFO 12-50	39	12	50 1270	100	300	250	1400	1950	260
PL HFO 22-30	43	22	30 762	100	400	250	895	1500	310
PL HFO 22-40	58	22	40 1016	100	400	250	1150	1700	310
PL HFO 22-50	72	22	50 1270	100	400	250	1400	1950	310
PL HFO 35-30	69	35	30 762	150	500	250	895	1500	360
PL HFO 35-40	91	35	40 1016	150	500	250	1150	1700	360
PL HFO 35-50	114	35	50 1270	150	500	250	1400	1950	360
PL HFO 50-30	98	50	30 762	150	600	285	895	1600	410
PL HFO 50-40	130	50	40 1016	150	600	285	1150	1850	410
PL HFO 50-50	163	50	50 1270	200	600	285	1400	2100	410
PL HFO 70-30	137	70	30 762	200	700	285	895	1600	500
PL HFO 70-40	182	70	40 1016	200	700	285	1150	1850	500
PL HFO 70-50	228	70	50 1270	200	700	285	1400	2100	500

- The recommended average flow rate is approximately 0.65 m³/h for every 10" of cartridge length.
- The maximum recommended flow rate is up to 1.00 m³/h for every 10" of cartridge length.



Product Key: **PL HFO XXX-LL PNXX**
 HFO: **Horizontal configuration of the Fast Open series**
 XXX: **number of cartridges**
 LL: **Length of the cartridges**
 PNXX: **Design pressure rating**





FRP FILTER HOUSING SERIES

1 PL FO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

2 PL HFO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

3 PL SF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

4 PL HSF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

5 PL SF-B SERIES

Flow Rates: 260-4711 m³/h
Design Pressure: 10 Bar

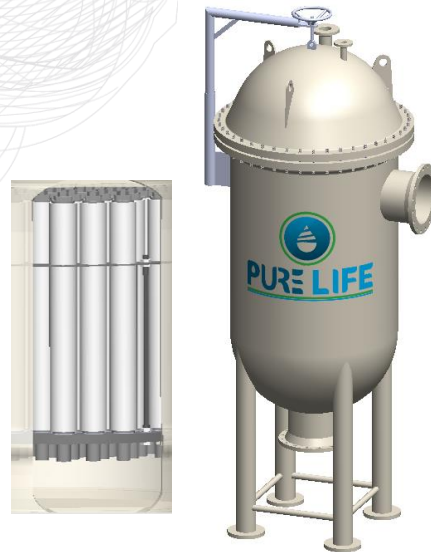
PL SF-S SERIES

DESCRIPTION

Pure Life's PL SF-S Series are designed with a Single Flange (SF) in the upper part of the housing (the closure) and side (S) entry/inlet flow. Made of the industry's top-rated materials and manufactured in compliance with international design codes, ensuring a long and effective service life. These filter housings are the best choice for medium and high flow rates.

CHARACTERISTICS

- Flow rates: 234 - 4466 m³ /h
- Design pressure up to 10 bar / 150 psi
- N^o elements: 90 - 638
- Elements length: 40"/50"/70"
- Housing Configuration: Vertical
- Features: Side inlet / bottom outlet
- Optional: Swing bolts, Davit arm
- Suitable: Medium and High flows



MATERIALS OF CONSTRUCTION

- Shell & cap/Main body: FRP (Fiberglass Reinforced Polyester)
- Support legs: FRP/Carbon steel painted - C5M/
- Stainless steel (A4 or A2)
- Inlet/Outlet flanges: FRP
- Air vent: FRP
- Clean drain: FRP
- Dirt drain: FRP
- Deflector plate: FRP
- Tube sheet: FRP
- Guide plate: PVC/PPH
- Lifting lugs: FRP/Stainless steel (A4 or A2)/
- Carbon steel painted - C5M
- Main body gaskets: EPDM
- Cartridge element: PP
- Davit arm (Optional): Stainless steel (A4 or A2)
- Closure bolts: Stainless steel (A4 or A2)

CARTRIDGE INSTALLATION

The design of these filter housings is compatible with Double Open End (DOE) cartridge elements. Each cartridge is mounted on an internal support rod and a nut, both featuring knife edges that ensure a perfect seal. This supporting system, called Swords, is fixed as follows: The cartridge is firmly seated in the false bottom plate at the lower end, guided by a support rod and a circular knife edge that remains embedded within the cartridge. At the upper end, a high-speed assembly nut is provided for easy and swift cartridge replacement, equipped with a knife edge to ensure water tightness. Pure Life's Swords system provide exceptional mechanical strength, offering the necessary rigidity to prevent cartridge damage caused by internal vibrations, while also providing a larger open flow area, resulting in reduced pressure drop.

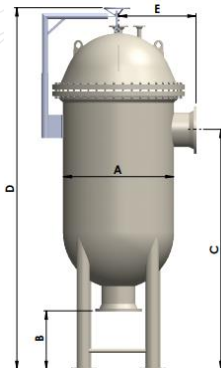
Model	Design Flow rate m ³ /h	Cartridges		N1/N2 DN (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
		Quantity	Length (Inch mm)						
PL SF-S 90-40	234	90	40 1016	250	800	690	1825	2795	640
PL SF-S 90-50	293	90	50 1270	250	800	690	2080	3050	640
PL SF-S 114-40	297	114	40 1016	250	900	690	1845	2915	700
PL SF-S 114-50	371	114	50 1270	300	900	800	2215	3285	700
PL SF-S 114-70	519	114	70 1778	350	900	900	2825	3890	700
PL SF-S 114-40	351	135	40 1016	300	1000	800	1990	3100	750
PL SF-S 114-50	439	135	50 1270	300	1000	800	2245	3355	750
PL SF-S 114-70	615	135	70 1778	350	1000	900	2850	3965	750
PL SF-S 180-40	468	180	40 1016	300	1100	800	2065	3205	850
PL SF-S 180-50	585	180	50 1270	350	1100	900	2420	3560	850
PL SF-S 180-70	819	180	70 1778	400	1100	1010	3040	4175	850
PL SF-S 215-40	559	215	40 1016	350	1200	900	2115	3280	875
PL SF-S 215-50	699	215	50 1270	350	1200	900	2370	3530	875
PL SF-S 215-70	979	215	70 1778	400	1200	1010	2985	4145	875
PL SF-S 260-40	676	260	40 1016	350	1300	900	2115	3290	925
PL SF-S 260-50	845	260	50 1270	400	1300	1010	2475	3650	925
PL SF-S 260-70	1183	260	70 1778	450	1300	1115	3085	4260	925
PL SF-S 295-40	767	295	40 1016	400	1400	1010	2355	3805	1100
PL SF-S 295-50	959	295	50 1270	400	1400	1010	2610	4060	1100
PL SF-S 295-70	1343	295	70 1778	500	1400	1215	3320	4770	1100
PL SF-S 335-40	871	335	40 1016	400	1500	1010	2365	3800	1150
PL SF-S 335-50	1089	335	50 1270	450	1500	1115	2725	4160	1150
PL SF-S 335-70	1525	335	70 1778	500	1500	1215	3330	4765	1150
PL SF-S 410-40	1066	410	40 1016	450	1600	1115	3025	4700	1150
PL SF-S 410-50	1333	410	50 1270	500	1600	1215	3355	5040	1150
PL SF-S 410-70	1866	410	70 1778	600	1600	1365	4075	5820	1150

CUSTOMIZED MODELS

Pure Life understands the diverse requirements of its customers and therefore offers customized large diameter filter housings (equal to or larger than DN1700), which are specifically designed to meet the unique requirements of each customer. Pure Life achieves this by implementing a wide range of FRP cartridge filter housings, thus offering a complete choice to its customers. This extensive range ensures that customers can find the perfect filter body that precisely meets their specific needs. By offering such customization, Pure Life is committed to meeting and exceeding customer expectations, providing reliable and efficient filter bodies that meet their individual filtration needs.

Model	Cartridges		A (mm)	Average Design Flow m ³ /hour	Maximum Design Flow m ³ /hour
	Quantity	Length (Inch mm)			
PL SF-S 433-40	433	40 1016	1700	1126	1732
PL SF-S 433-50	433	50 1270	1700	1408	2165
PL SF-S 433-70	433	70 1778	1700	1971	3031
PL SF-S 504-40	504	40 1016	1800	1311	2016
PL SF-S 504-50	504	50 1270	1800	1638	2520
PL SF-S 504-70	504	70 1778	1800	2294	3528
PL SF-S 553-40	553	40 1016	1900	1438	2212
PL SF-S 553-50	553	50 1270	1900	1798	2765
PL SF-S 553-70	553	70 1778	1900	2517	3871
PL SF-S 638-40	638	40 1016	2000	1659	2552
PL SF-S 638-50	638	50 1270	2000	2074	3190
PL SF-S 638-70	638	70 1778	2000	2903	4466

- The recommended average flow rate is approximately 0.65 m³/h for every 10" of cartridge length.
- The maximum recommended flow rate is up to 1.00 m³/h for every 10" of cartridge length.



Product Key: **PL SF-S XXX-LL PNXX**
 SF-S: **Single Flange housing with Side inlet**
 XXX: **number of cartridges**
 LL: **Length of the cartridges**
 PNXX: **Design pressure rating**



FRP FILTER HOUSING SERIES

1 PL FO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

2 PL HFO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

3 PL SF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

4 PL HSF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

5 PL SF-B SERIES

Flow Rates: 260-4711 m³/h
Design Pressure: 10 Bar

PL HSF-S SERIES

DESCRIPTION

The PL HSF-S filter housings are the horizontal configuration of the SF-S series. Pure Life's PL HSF-S Series are designed with a Single Flange (SF) in the upper part of the housing (the closure) and side (S) entry/inlet flow. Made of the industry's top-rated materials and manufactured in compliance with international design codes, ensuring a long and effective service life. These filter housings are the best choice for medium and high flow rates. We understand that every water treatment application is unique, that is why we created the HSF series to offer you more choices according to your needs.

CHARACTERISTICS

- Flow rates: 234 - 4466 m³/h
- Design pressure up to 10 bar / 150 psi
- N° elements: 90 - 638
- Elements length: 40"/50"/70"
- Housing Configuration: Horizontal
- Features: Side inlet / bottom outlet
- Optional: Swing bolts, Davit arm
- Suitable: Medium and High flows



MATERIALS OF CONSTRUCTION

- Shell & cap/Main body: FRP (Fiberglass Reinforced Polyester)
- Saddles: Carbon steel painted - C5M/ Stainless steel (A4 or A2)/FRP
- Inlet/Outlet flanges: FRP
- Air vent: FRP
- Clean drain: FRP
- Dirt drain: FRP
- Deflector plate: FRP
- Tube sheet: FRP
- Guide plate: PVC/PPH
- Lifting lugs: FRP/Stainless steel (A4 or A2)/ Carbon steel painted - C5M
- Main body gaskets: EPDM
- Cartridge element: PP
- Davit arm (Optional): Stainless steel (A4 or A2)
- Closure bolts: Stainless steel (A4 or A2)



CARTRIDGE INSTALLATION

The design of these filter housings is compatible with Double Open End (DOE) cartridge elements. Each cartridge is mounted on an internal support rod and a nut, both featuring knife edges that ensure a perfect seal. This supporting system, called Swords, is fixed as follows: The cartridge is firmly seated in the false bottom plate at the lower end, guided by a support rod and a circular knife edge that remains embedded within the cartridge. At the upper end, a high-speed assembly nut is provided for easy and swift cartridge replacement, equipped with a knife edge to ensure water tightness. Pure Life's Swords system provide exceptional mechanical strength, offering the necessary rigidity to prevent cartridge damage caused by internal vibrations, while also providing a larger open flow area, resulting in reduced pressure drop.

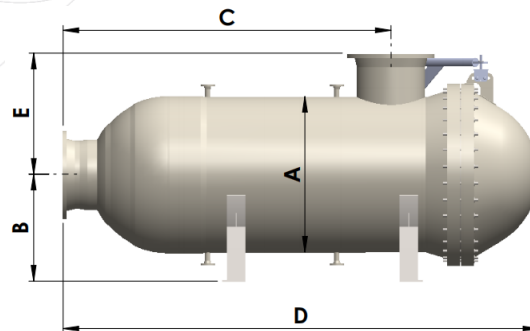
Model	Design Flow rate m ³ /h	Cartridges		N1/N2 DN (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
		Quantity	Length (Inch mm)						
PL HSF-S 90-40	234	90	40 1016	250	800	615	1320	2020	640
PL HSF-S 90-50	293	90	50 1270	250	800	615	1320	2275	640
PL HSF-S 114-40	297	114	40 1016	250	900	670	1160	2015	700
PL HSF-S 114-50	371	114	50 1270	300	900	670	1415	2270	700
PL HSF-S 114-70	519	114	70 1778	350	900	671	1925	2775	700
PL HSF-S 114-40	351	135	40 1016	300	1000	725	1190	2110	750
PL HSF-S 114-50	439	135	50 1270	300	1000	725	1445	2365	750
PL HSF-S 114-70	615	135	70 1778	350	1000	725	1950	2875	750
PL HSF-S 180-40	468	180	40 1016	300	1100	725	1270	2200	850
PL HSF-S 180-50	585	180	50 1270	350	1100	725	1520	2455	850
PL HSF-S 180-70	819	180	70 1778	400	1100	725	2030	2965	850
PL HSF-S 215-40	559	215	40 1016	350	1200	825	1215	2185	875
PL HSF-S 215-50	699	215	50 1270	350	1200	825	1470	2440	875
PL HSF-S 215-70	979	215	70 1778	400	1200	825	1975	2950	875
PL HSF-S 260-40	676	260	40 1016	350	1300	875	1215	2200	925
PL HSF-S 260-50	845	260	50 1270	400	1300	875	1470	2450	925
PL HSF-S 260-70	1183	260	70 1778	450	1300	875	1975	2960	925
PL HSF-S 295-40	767	295	40 1016	400	1400	985	1410	2475	1100
PL HSF-S 295-50	959	295	50 1270	400	1400	985	1660	2730	1100
PL HSF-S 295-70	1343	295	70 1778	500	1400	985	2170	3240	1100
PL HSF-S 335-40	871	335	40 1016	400	1500	1085	1360	2490	1150
PL HSF-S 335-50	1089	335	50 1270	450	1500	1085	1610	2740	1150
PL HSF-S 335-70	1525	335	70 1778	500	1500	1085	2120	3255	1150
PL HSF-S 410-40	1066	410	40 1016	450	1600	1177	1915	3260	1150
PL HSF-S 410-50	1333	410	50 1270	500	1600	1177	2170	3510	1150
PL HSF-S 410-70	1866	410	70 1778	600	1600	1177	2675	4020	1150

CUSTOMIZED MODELS

Pure Life understands the diverse requirements of its customers and therefore offers customized large diameter filter housings (equal to or larger than DN1700), which are specifically designed to meet the unique requirements of each customer. Pure Life achieves this by implementing a wide range of FRP cartridge filter housings, thus offering a complete choice to its customers. This extensive range ensures that customers can find the perfect filter body that precisely meets their specific needs. By offering such customization, Pure Life is committed to meeting and exceeding customer expectations, providing reliable and efficient filter bodies that meet their individual filtration needs.

Model	Cartridges		A (mm)	Average Design Flow m ³ /hour	Maximum Design Flow m ³ /hour
	Quantity	Length (Inch mm)			
PL HSF-S 433-40	433	40 1016	1700	1126	1732
PL HSF-S 433-50	433	50 1270	1700	1408	2165
PL HSF-S 433-70	433	70 1778	1700	1971	3031
PL HSF-S 504-40	504	40 1016	1800	1311	2016
PL HSF-S 504-50	504	50 1270	1800	1638	2520
PL HSF-S 504-70	504	70 1778	1800	2294	3528
PL HSF-S 553-40	553	40 1016	1900	1438	2212
PL HSF-S 553-50	553	50 1270	1900	1798	2765
PL HSF-S 553-70	553	70 1778	1900	2517	3871
PL HSF-S 638-40	638	40 1016	2000	1659	2552
PL HSF-S 638-50	638	50 1270	2000	2074	3190
PL HSF-S 638-70	638	70 1778	2000	2903	4466

- The recommended average flow rate is approximately 0.65 m³/h for every 10" of cartridge length.
- The maximum recommended flow rate is up to 1.00 m³/h for every 10" of cartridge length.



Product Key: **PL HSF-S XXX-LL PNXX**
 HSF-S: **Horizontal configuration of the SF-S series**
 XXX: **number of cartridges**
 LL: **Length of the cartridges**
 PNXX: **Design pressure rating**



FRP FILTER HOUSING SERIES

1 PL FO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

2 PL HFO SERIES

Flow Rates: 6-350 m³/h
Design Pressure: 10 Bar

3 PL SF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

4 PL HSF-S SERIES

Flow Rates: 234-4466 m³/h
Design Pressure: 10 Bar

5 PL SF-B SERIES

Flow Rates: 260-4711 m³/h
Design Pressure: 10 Bar

PL SF-B SERIES

DESCRIPTION

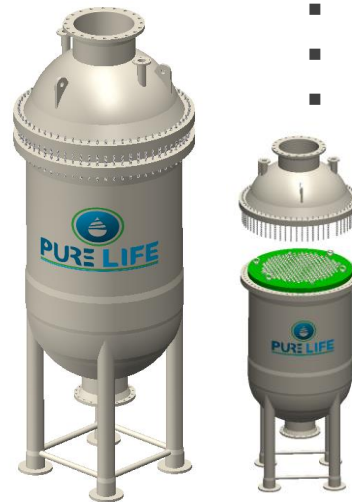
Pure Life's PL SF-B series are designed with single body flange and inlet connection at the bottom of the housing for an extractable sword system package. This allows the entire filtering package to be removed from the housing quickly. With a spare filtering package available on request, replacement is instantaneous. To extract the filter package, an overhead crane is necessary. These filters are made from the industry's top-rated materials and manufactured in compliance with international design codes, ensuring a long and effective service life. For high flow rate these filters are the best choice.

CHARACTERISTICS

- Flow rates: 260 - 4711 m³ /h
- Design pressure up to 10 bar / 150 psi
- N° elements: 100 - 673
- Elements length: 40"/50"/70"
- Housing Configuration: Vertical
- Features: Bottom Inlet / Top Outlet, Filtering elements removal as package
- Optional: Swing bolts, Davit arm
- Suitable: High flows

MATERIALS OF CONSTRUCTION

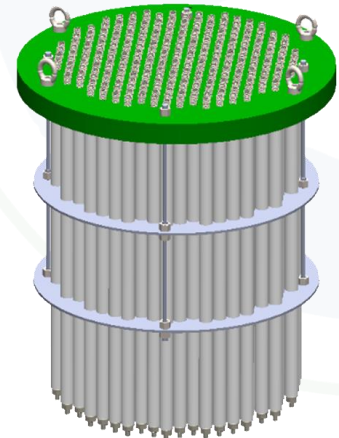
- Shell & cap/Main body: FRP (Fiberglass Reinforced Polyester)
- Support legs: FRP/Carbon steel painted - C5M/
- Stainless steel (A4 or A2)
- Inlet/Outlet flanges: FRP
- Air vent: FRP
- Clean drain: FRP
- Dirt drain: FRP
- Deflector plate: FRP
- Tube sheet: FRP
- Guide plate: PVC/PPH
- Lifting lugs: FRP/Stainless steel (A4 or A2)/
- Carbon steel painted - C5M
- Main body gaskets: EPDM
- Cartridge element: PP
- Davit arm (Optional): Stainless steel (A4 or A2)
- Closure bolts: Stainless steel (A4 or A2)



CARTRIDGE INSTALLATION

The design of these filter housings is compatible with Double Open End (DOE) cartridge elements. Each cartridge is mounted on an internal support rod and a nut, both featuring knife edges that ensure a perfect seal. In this case, this supporting system, known as Swords is fixed to the false upper plate on their lower end. These components, along with the guide plates, collectively form the "Extractable Filtering Package". Additionally, an optional extra Filtering Package can be provided to enhance the efficiency of the cartridge change process. Pure Life's Swords system provide exceptional mechanical strength, offering the necessary rigidity to prevent cartridge damage caused by internal vibrations, while also providing a larger open flow area, resulting in reduced pressure drop.

Model	Design Flow rate m ³ /h	Cartridges		N1/N2 DN (mm)	A (mm)	B (mm)	C (mm)
		Quantity	Length (Inch mm)				
PL SF-B 100-40	260	100	40 1016	250	800	690	2860
PL SF-B 100-50	325	100	50 1270	250	800	690	3120
PL SF-B 121-40	315	121	40 1016	250	900	690	2970
PL SF-B 121-50	394	121	50 1270	250	900	690	3220
PL SF-B 121-70	551	121	70 1778	300	900	900	3845
PL SF-B 150-40	390	150	40 1016	300	1000	800	3180
PL SF-B 150-50	488	150	50 1270	300	1000	800	3435
PL SF-B 150-70	683	150	70 1778	350	1000	900	4045
PL SF-B 195-40	507	195	40 1016	300	1100	800	3335
PL SF-B 195-50	634	195	50 1270	350	1100	900	3690
PL SF-B 195-70	888	195	70 1778	400	1100	1010	4310
PL SF-B 240-40	624	240	40 1016	350	1200	900	3400
PL SF-B 240-50	780	240	50 1270	400	1200	1010	3760
PL SF-B 240-70	1092	240	70 1778	450	1200	1115	4370
PL SF-B 280-40	728	280	40 1016	350	1300	900	3420
PL SF-B 280-50	910	280	50 1270	400	1300	1010	3780
PL SF-B 280-70	1274	280	70 1778	500	1300	1215	4490
PL SF-B 315-40	819	315	40 1016	450	1400	1010	3925
PL SF-B 315-50	1024	315	50 1270	450	1400	1115	4140
PL SF-B 315-70	1434	315	70 1778	500	1400	1215	4750
PL SF-B 360-40	936	360	40 1016	400	1500	1010	3935
PL SF-B 360-50	1170	360	50 1270	450	1500	1115	4290
PL SF-B 360-70	1638	360	70 1778	600	1500	1365	5050
PL SF-B 433-40	1126	433	40 1016	450	1600	1115	4490
PL SF-B 433-50	1408	433	50 1270	500	1600	1215	4840
PL SF-B 433-70	1971	433	70 1778	600	1600	1365	5550

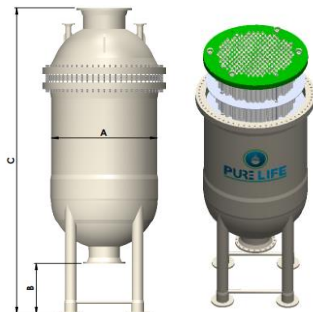


CUSTOMIZED MODELS

Pure Life understands the diverse requirements of its customers and therefore offers customized large diameter filter housings (equal to or larger than DN1700), which are specifically designed to meet the unique requirements of each customer. Pure Life achieves this by implementing a wide range of FRP cartridge filter housings, thus offering a complete choice to its customers. This extensive range ensures that customers can find the perfect filter body that precisely meets their specific needs. By offering such customization, Purelife is committed to meeting and exceeding customer expectations, providing reliable and efficient filter bodies that meet their individual filtration needs.

Model	Cartridges		A (mm)	Average Design Flow m ³ /hour	Maximum Design Flow m ³ /hour
	Quantity	Length (Inch mm)			
PL SF-B 470-40	470	40 1016	1700	1222	1880
PL SF-B 470-50	470	50 1270	1700	1528	2350
PL SF-B 470-70	470	70 1778	1700	2139	3290
PL SF-B 542-40	542	40 1016	1800	1410	2168
PL SF-B 542-50	542	50 1270	1800	1762	2710
PL SF-B 542-70	542	70 1778	1800	2467	3794
PL SF-B 590-40	590	40 1016	1900	1534	2360
PL SF-B 590-50	590	50 1270	1900	1918	2950
PL SF-B 590-70	590	70 1778	1900	2685	4130
PL SF-B 673-40	673	40 1016	2000	1750	2692
PL SF-B 673-50	673	50 1270	2000	2188	3365
PL SF-B 673-70	673	70 1778	2000	3063	4711

- The recommended average flow rate is approximately 0.65 m³/h for every 10" of cartridge length.
- The maximum recommended flow rate is up to 1.00 m³/h for every 10" of cartridge length.



Product Key: **PL SF-B XXX-LL PNXX**
 SF-B: **Single Flange housing with Bottom inlet**
 XXX: **number of cartridges**
 LL: **Length of the cartridges**
 PNXX: **Design pressure rating**

THANK YOU

“ Thank you for taking the time to browse our catalogue. We hope you found what you were looking for! If you're interested in learning more about our products or services, we invite you to visit our website or contact us for a custom quote or consultation. Our team is always happy to help answer your questions and provide personalized solutions tailored to your unique needs. Don't hesitate to reach out - we would love to hear from you! “



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