

A photograph of a row of large, cylindrical FRP cartridge filter housings in an industrial facility. The housings are arranged in a line, receding into the distance. Each housing has a large circular access door at the bottom and a curved outlet pipe at the top. The background shows a large industrial building with a corrugated metal roof and a crane structure. The entire image has a red color overlay.

Piedmont

FRP CARTRIDGE FILTER HOUSING

TECHNICAL CATALOG

FRP CARTRIDGE FILTER HOUSING

(FIBERGLASS REINFORCED POLYESTER)



Available in different capacities, our filter housings are made of fiberglass reinforced polyester (FRP) and include unique components and design elements making them fit for multiple brands of universal cartridge elements. A cost-effective solution, our filter housings are a reliable protection for your BWRO and SWRO membrane systems. Piedmont’s cartridge filter housings are meant for new and existing water treatment plants.

Standard Features / Benefits

- Designed to ASME-X / EN13121
- Design temperatures up to **60 °C / 140 °F**
- Standard Design pressure up to 10 bar / 150 psi
- Horizontal and vertical configuration available
- Internal lining of Vinylester Resin
- FDA/NSF or equivalent compliant
- Davit arm and swing bolts available
- Coupling or flanged connection available
- Complete FRP filter housing range is NSF/ANSI 61-G & 372 compliant

CARTRIDGE FILTER HOUSINGS

MATERIALS LISTING

1. FRP Housings:

 - Vinylester resin for chemical barrier (FDA & NSF compliant)
 - Isophthalic resin for structural layer
2. PVC/PP/HDPE/POM plates
3. EPDM gaskets
4. Support legs can be in:

 - Carbon steel painted
 - FRP
 - Stainless steel (316L)
5. Stainless steel bolts, nuts and washers (A4 - A2)
6. Inlet/Outlet grooved or flanged connection
7. Internal Rods and support rods:

 - Plastic over injection parts in FRP + NORYL
8. Davit Arm Stainless steel (316L)

ENERGY SAVING ROD (ESR)

Reinforced, state of the art internal cartridges support rods compared to existing designs on the market

The ENERGY SAVING ROD is the element used to join the filter cartridges and the filter housings, through its intermediate tube sheet. These pieces submerged in seawater and under wear conditions due to mechanical and chemical fatigue, then susceptible to deterioration, requiring their replacement as a spare part.



MAIN CHARACTERISTICS

MATERIAL NORYL + FRP (fiberglass)

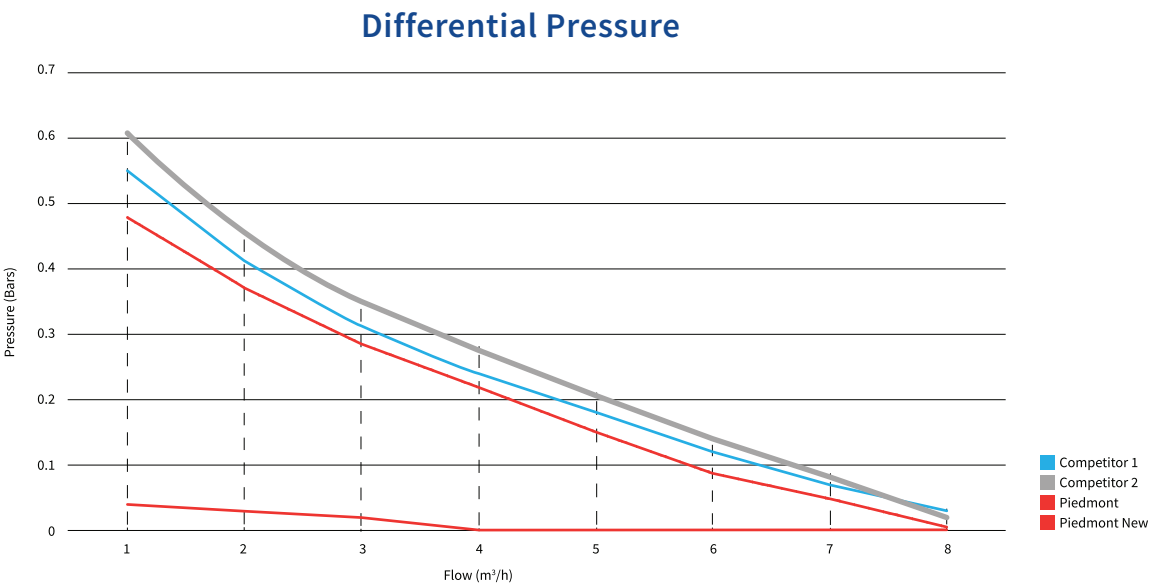
- 90°C Design Temperature
- High mechanical resistance (2500 N)
- High chemical resistance

INNOVATIVE MANUFACTURING PROCESS

- One single piece (including the ends)
- No glue (Overinjected)
- No risks of chemical attacks in joints

LESS DIFFERENTIAL PRESSURE COMPARED TO EXISTING MODELS

- Differential pressure comparison chart between Piedmont and competitors



ENERGY SAVING ROD (ESR)

Reducing the pressure loss, allow us important energy savings per year (Kw/h) and a consequently, also an important carbon footprint reduction (metric tons of carbon dioxide equivalent).

EASY ASSEMBLY & EASY MAINTENANCE

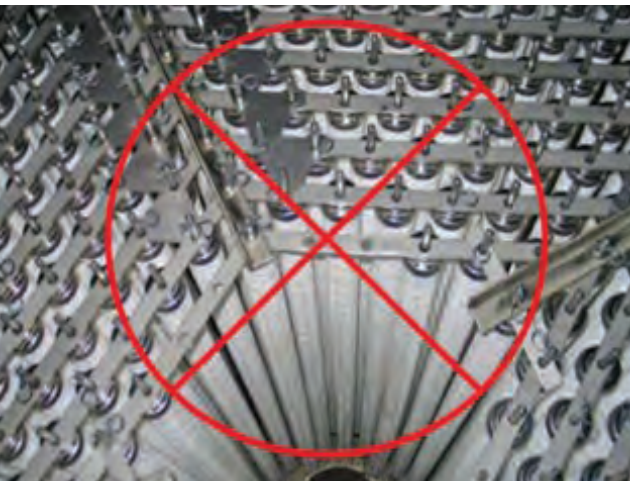
- High-speed assembly nut with ergonomic design for easy and fast cartridge replacement.
- No lattice or grating system.
- Dramatic time reduction for cartridge exchange.

HIGH VERSATILITY

- It is valid for Double Open End (DOE) cartridges (string-wound & melt-blown).
- It absorbs high cartridges length differences (up to 20 mm).

ADVANTAGES

- ✓ No springs are required.
Easy and quick maintenance
- ✓ Possibility of using DOE elements (string-wound and melt-blown)
- ✓ High design temperature (90° C)
- ✓ One single piece without glue
- ✓ High mechanical resistance
- ✓ Low differential pressure
- ✓ No lattice or grating system
- ✓ Zero reported breaks
- ✓ Absorbs cartridge length differences (up to 20 mm)



FRP CARTRIDGE FILTER HOUSING STYLES

QPV	6
Q	8
QH	10
S-XS	12
S-HXS	14
XB	16
XS	18
XSH	20
HV-Q	22
HV-X	24
HH-Q	26
HH-X	28
B-Q	30
B-X	32
SQ & SX	35



OUR STANDARD FILTER HOUSINGS ARE DESIGNED WITH PIEDMONT COUPLINGS (OR SIMILAR) FOR A MORE ECONOMIC AND SIMPLE CONNECTION TO YOUR PIPING. HOIST (LIFTING ARM) OPTIONAL.





CHARACTERISTICS

CARTRIDGES

Flow rates: 16 - 33 m³/h
N° elements: 7
Elements length: 30/40/50 inches
Cartridge flow: Outside - Inside
Housing layout: Horizontal / Vertical
Features: Quick opening, very manageable
Ideal: Modular / Skid / Container
Design pressure: 10 bar

HIGH FLOW

Flow rates: 40 - 60 m³/h
N° elements: 1
Elements length: 40/60 inches
Cartridge flow: Inside - Outside
Housing layout: Horizontal / Vertical
Features: Quick opening, very manageable
Ideal: Modular / Skid / Container
Design pressure: 10 bar

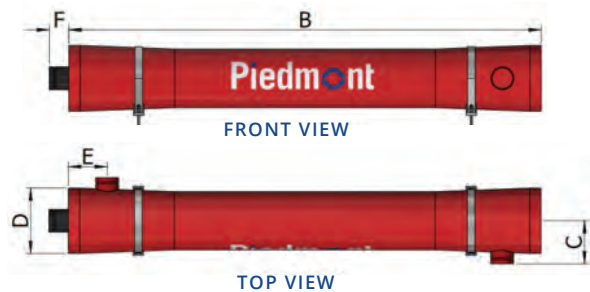
MATERIALS

CARTRIDGES

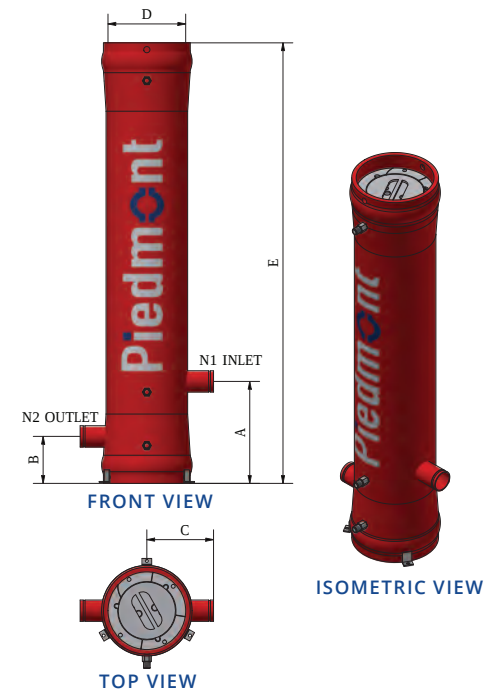
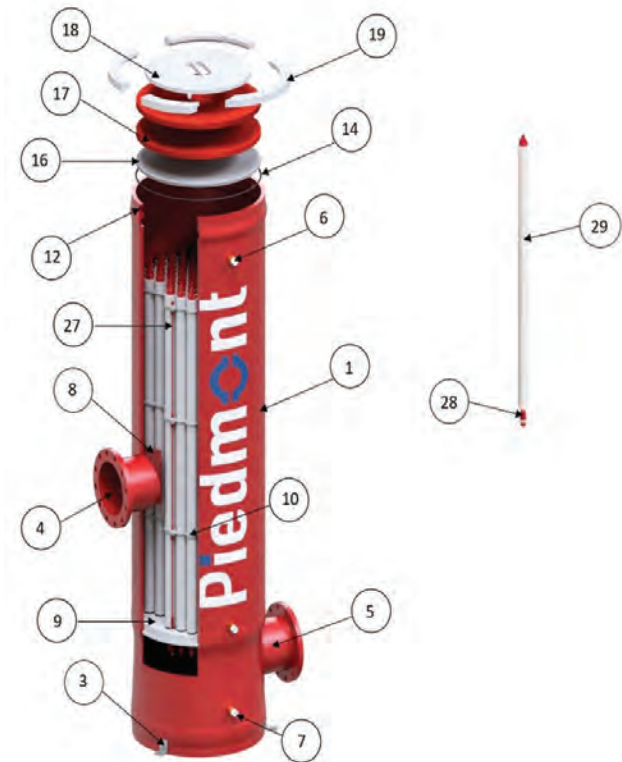
- 1. Shell & cap / Main body: FRP
- 4. Inlet flange: Plastic
- 5. Outlet flange: Plastic
- 9. Tube sheet: HDPE
- 10. Guide plate: HDPE
- 13. Closure bolts: Super Duplex
- 14. Main body gaskets: EPDM
- 19. Locking rings: FRP
- 20. Caps: ABS
- 21. Straps: Rubber-316SST
- 22. Strap Bolts: 316SST
- 27. Support rod: Noryl GF15 + FRP
- 28. Internal support rod: Noryl GF15 + FRP
- 29. Filter element: PP

HIGH FLOW

- 1. Shell & cap / Main body: FRP
- 4. Inlet flange: ABS
- 5. Outlet flange: Plastic
- 13. Closure bolts: Super Duplex
- 14. Main body gaskets: EPDM
- 19. Locking rings: FRP
- 20. Caps: ABS
- 21. Straps: Rubber-316SST
- 22. Strap Bolts: 316SST
- 24. Thrust ring: PP
- 25. Guiding frame: HDPE
- 26. Adjustment rings: ABS
- 29. Filter element: PP



QPV-STYLE Quick Opening Cartridge Filter Housing										
Filter Housing model reference	Cartridges	Maximum Flow in gpm	Maximum Flow in m ³ /h	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)	F (inch / mm)
	Qty. x Length									
QPV-PCF-7-30	7 x 30	86	20	3 / 80	5 / 117	51 / 1315	6 / 160	8 / 200	6 / 150	2 / 65
QPV-PCF-7-40	7 x 40	115	26	3 / 80	5 / 117	56 / 1420	6 / 160	8 / 200	6 / 150	2 / 65
QPV-PCF-7-50	7 x 50	143	33	3 / 80	5 / 117	72 / 1825	6 / 160	8 / 200	6 / 150	2 / 65
High Flow QPV-STYLE Quick Opening Cartridge Filter Housing										
QPV-PCF-1-40	1 x 40	176	40	3 / 80	5 / 117	51 / 1315	6 / 160	8 / 200	6 / 150	2 / 65
QPV-PCF-1-60	1 x 60	264	60	3 / 80	5 / 117	72 / 1825	6 / 160	8 / 200	6 / 150	2 / 65



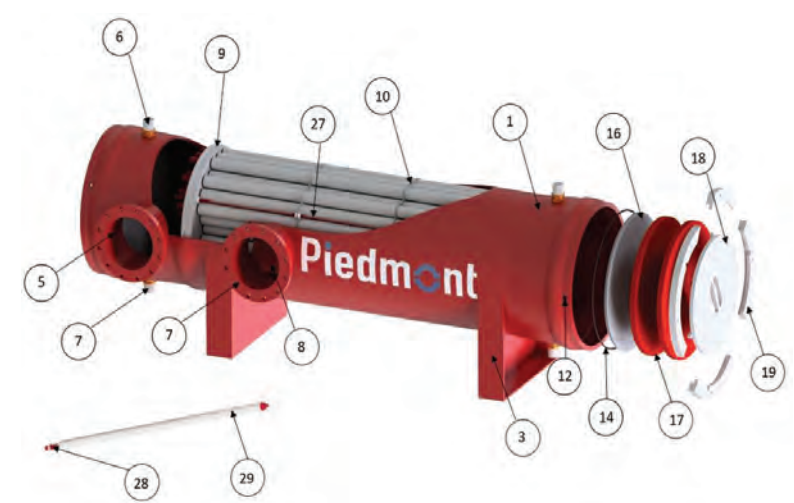
CHARACTERISTICS

Flow rates: 29 - 456 m³/h
N° elements: 12 - 70
Elements length: 30/40/50/70 inches
Cartridge flow: Outside - Inside
Housing layout: Vertical
Features: Quick opening, no bolts
Ideal: Modular / Skid / Container
Design pressure: 10 bar

MATERIALS

1. Shell & cap / Main body: FRP
3. Support legs: AISI SS 316
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: PA
7. Drains: PA
8. Deflector plate: FRP
9. Tube sheet: PVC / FRP
10. Guide plate: PVC
12. Lifting lugs: FRP
14. Main body gaskets: NBR
16. O-Ring support plate: POM
17. Structural plate: FRP
18. Securing plate: PP
19. Locking rings: PP
27. Support rod: Noryl GF15 + FRP
28. Internal support rod: Noryl GF15 + FRP
29. Filter element: PP

Q-STYLE Quick Opening Cartridge Filter Housing											
Filter Housing model reference	Cartridges	Flow at 3.5 gpm per 10"	Flow at 0,8 m³/h per 10"	Flow at 4 gpm per 10"	Flow at 0,93 m³/h per 10"	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length										
Q-PCF-12-30	12 x 30	127	29	147	33	3 / 80	20 / 517	9 / 230	10 / 260	12 / 300	61 / 1559
Q-PCF-12-40	12 x 40	169	38	197	45	3 / 80	20 / 517	9 / 230	10 / 260	12 / 300	71 / 1813
Q-PCF-12-50	12 x 50	211	48	246	56	4 / 100	21 / 533	10 / 242	10 / 260	12 / 300	81 / 2067
Q-PCF-22-30	22 x 30	232	53	270	61	4 / 100	21 / 533	10 / 242	12 / 310	16 / 400	61 / 1559
Q-PCF-22-40	22 x 40	310	70	360	82	4 / 100	21 / 533	10 / 242	12 / 310	16 / 400	71 / 1813
Q-PCF-22-50	22 x 50	387	88	450	102	6 / 150	22 / 558	11 / 267	14 / 360	16 / 400	81 / 2067
Q-PCF-35-30	35 x 30	370	84	430	98	6 / 150	21 / 533	11 / 275	16 / 410	20 / 500	62 / 1573
Q-PCF-35-40	35 x 40	493	112	573	130	6 / 150	21 / 533	11 / 275	16 / 410	20 / 500	72 / 1827
Q-PCF-35-50	35 x 50	616	140	717	163	6 / 150	21 / 533	11 / 275	16 / 410	20 / 500	82 / 2081
Q-PCF-50-30	50 x 30	528	120	614	140	6 / 150	26 / 665	12 / 309	18 / 460	24 / 600	66 / 1679
Q-PCF-50-40	50 x 40	704	160	819	186	6 / 150	26 / 665	12 / 309	18 / 460	24 / 600	76 / 1933
Q-PCF-50-50	50 x 50	881	200	1024	233	8 / 200	27 / 675	12 / 309	19 / 485	24 / 600	86 / 2187
Q-PCF-50-70	50 x 70	1233	280	1433	326	8 / 200	27 / 675	12 / 309	19 / 485	24 / 600	106 / 2695
Q-PCF-70-30	70 x 30	740	168	860	195	8 / 200	30 / 770	13 / 325	20 / 510	28 / 700	74 / 1869
Q-PCF-70-40	70 x 40	986	224	1147	260	8 / 200	31 / 795	14 / 350	21 / 535	28 / 700	84 / 2123
Q-PCF-70-50	70 x 50	1233	280	1433	326	8 / 200	31 / 795	14 / 350	21 / 535	28 / 700	94 / 2377
Q-PCF-70-70	70 x 70	1726	392	2006	456	10 / 250	32 / 820	15 / 375	22 / 560	28 / 700	114 / 2885

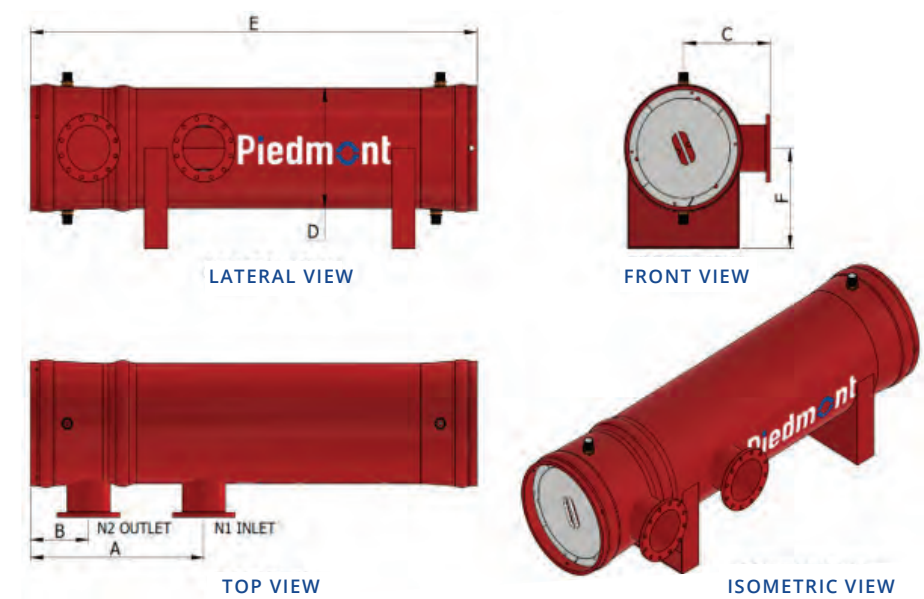


CHARACTERISTICS

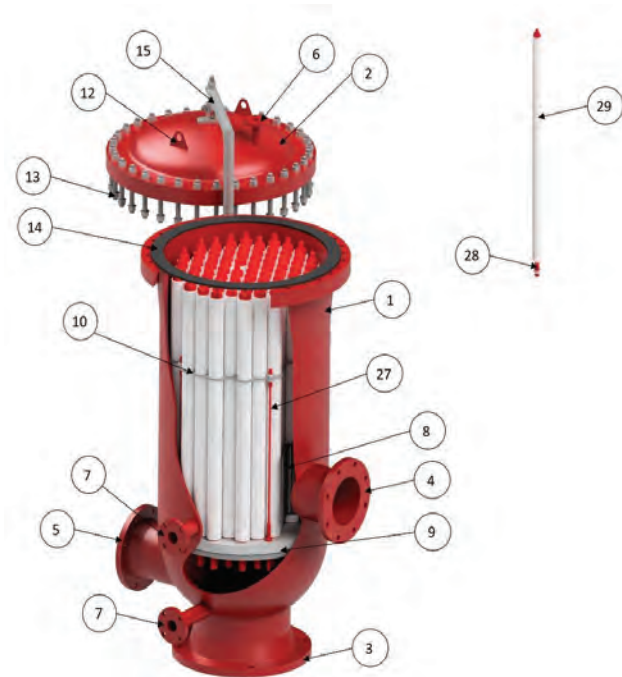
Flow rates: 29 - 456 m³/h
N° elements: 12 - 70
Elements length: 30/40/50/70 inches
Cartridge flow: Outside - Inside
Housing layout: Horizontal
Features: Quick opening, no bolts
Ideal: Modular / Skid / Container
Design pressure: 10 bar

MATERIALS

- 1. Shell & cap / Main body: FRP
- 3. Support legs: CS + C5HD Painted
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: PA
- 7. Drains: PA
- 8. Deflector plate: FRP
- 9. Tube sheet: PVC / FRP
- 10. Guide plate: PVC
- 12. Lifting lugs: FRP
- 14. Main body gaskets: NBR
- 16. O-ring support plate: POM
- 17. Structural plate: FRP
- 18. Securing plate: PP
- 19. Locking rings: PP
- 27. Support rod: Noryl GF15 + FRP
- 28. Internal support rod: Noryl GF15 + FRP
- 29. Filter element: PP



QH-STYLE Quick Opening Cartridge Filter Housing												
Filter Housing model reference	Cartridges	Flow at 3.5 gpm per 10"	Flow at 0,8 m³/h per 10"	Flow at 4 gpm per 10"	Flow at 0,93 m³/h per 10"	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)	F (inch / mm)
	Qty. x Length											
QH-PCF-12-30	12 x 30	127	29	147	33	3 / 80	29 / 740	11 / 267	10 / 260	12 / 300	61 / 1559	12 / 303
QH-PCF-12-40	12 x 40	169	38	197	45	3 / 80	29 / 740	11 / 267	10 / 260	12 / 300	71 / 1813	12 / 303
QH-PCF-12-50	12 x 50	211	48	246	56	4 / 100	30 / 773	11 / 267	10 / 260	12 / 300	81 / 2067	12 / 303
QH-PCF-22-30	22 x 30	232	53	270	61	4 / 100	30 / 760	11 / 267	12 / 310	16 / 400	61 / 1559	14 / 353
QH-PCF-22-40	22 x 40	310	70	360	82	4 / 100	30 / 760	11 / 267	12 / 310	16 / 400	71 / 1813	14 / 353
QH-PCF-22-50	22 x 50	387	88	450	102	6 / 150	34 / 875	11 / 274	14 / 360	16 / 400	81 / 2067	14 / 353
QH-PCF-35-30	35 x 30	370	84	430	98	6 / 150	31 / 775	11 / 274	16 / 410	20 / 500	62 / 1573	16 / 407
QH-PCF-35-40	35 x 40	493	112	573	130	6 / 150	35 / 885	11 / 274	16 / 410	20 / 500	72 / 1827	16 / 407
QH-PCF-35-50	35 x 50	616	140	717	163	6 / 150	36 / 925	11 / 274	16 / 410	20 / 500	82 / 2081	16 / 407
QH-PCF-50-30	50 x 30	528	120	614	140	6 / 150	33 / 839	12 / 309	18 / 460	24 / 600	66 / 1679	18 / 457
QH-PCF-50-40	50 x 40	704	160	819	186	6 / 150	36 / 915	12 / 309	18 / 460	24 / 600	76 / 1933	18 / 457
QH-PCF-50-50	50 x 50	881	200	1024	233	8 / 200	40 / 1005	13 / 329	19 / 485	24 / 600	86 / 2187	18 / 457
QH-PCF-50-70	50 x 70	1233	280	1433	326	8 / 200	40 / 1005	13 / 329	19 / 485	24 / 600	86 / 2187	18 / 457
QH-PCF-70-30	70 x 30	740	168	860	195	8 / 200	42 / 1078	14 / 350	20 / 510	28 / 700	74 / 1869	20 / 507
QH-PCF-70-40	70 x 40	986	224	1147	260	8 / 200	42 / 1078	14 / 350	21 / 535	28 / 700	84 / 2123	20 / 507
QH-PCF-70-50	70 x 50	1233	280	1433	326	8 / 200	46 / 1175	14 / 350	21 / 535	28 / 700	94 / 2377	20 / 507
QH-PCF-70-70	70 x 70	1726	392	2006	456	10 / 250	52 / 1321	16 / 400	22 / 560	28 / 700	114 / 2885	20 / 507

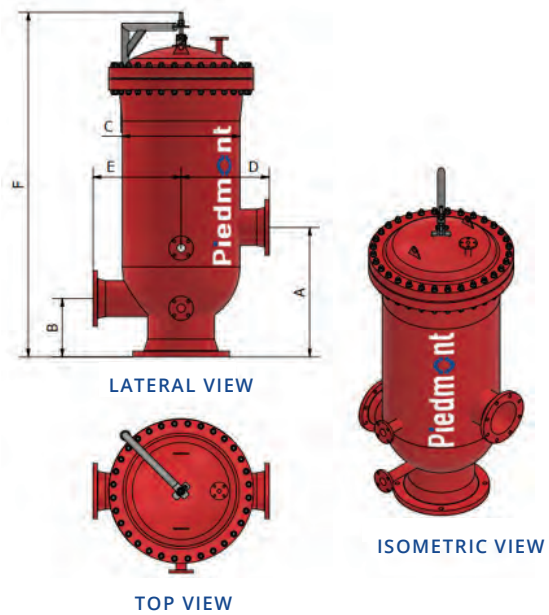


MATERIALS

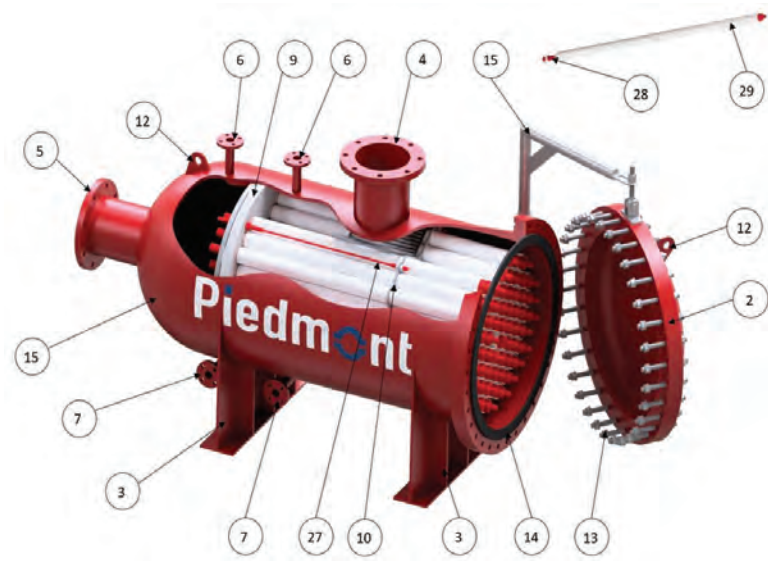
1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support flange: FRP
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Drains: FRP
8. Deflector plate: FRP
9. Tube sheet: FRP
10. Guide plate: PE
12. Lifting lugs: CS + C5HD
13. Closure bolts: A4
14. Main body gaskets: EPDM + SS 316L
15. Davit arm: SS 316L
27. Support rod: Noryl GF15 + FRP
28. Internal support rod: Noryl GF15 + FRP
29. Filter element: PP

CHARACTERISTICS

Flow rates: 29 - 456 m³/h
N° elements: 12 - 70
Elements length: 30/40/50/70 inches
Cartridge flow: Outside - Inside
Housing layout: Vertical
Features: Versatile, davit arm available
Ideal: Modular / Skid / Container
Design pressure: 10 bar



S-XS-STYLE Cartridge Filter Housing												
Filter Housing model reference	Cartridges	Flow at 3.5 gpm per 10"	Flow at 0,8 m³/h per 10"	Flow at 4 gpm per 10"	Flow at 0,93 m³/h per 10"	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)	F (inch / mm)
	Qty. x Length											
S-XS-PCF-12-30	12 x 30	127	29	147	33	3 / 80	17 / 425	5 / 135	12 / 300	10 / 260	10 / 260	54 / 1381
S-XS-PCF-12-40	12 x 40	169	38	197	45	3 / 80	17 / 425	5 / 135	12 / 300	10 / 260	10 / 260	64 / 1630
S-XS-PCF-12-50	12 x 50	211	48	246	56	4 / 100	17 / 425	5 / 135	12 / 300	10 / 260	10 / 260	74 / 1884
S-XS-PCF-12-70	12 x 70	296	67	344	78	4 / 100	17 / 425	5 / 135	12 / 300	10 / 260	10 / 260	96 / 2434
S-XS-PCF-22-30	22 x 30	232	53	270	61	4 / 100	22 / 566	10 / 254	16 / 400	15 / 370	15 / 370	62 / 1580
S-XS-PCF-22-40	22 x 40	310	70	360	82	4 / 100	22 / 566	10 / 254	16 / 400	15 / 370	15 / 370	72 / 1826
S-XS-PCF-22-50	22 x 50	387	88	450	102	6 / 150	22 / 566	10 / 254	16 / 400	15 / 370	15 / 370	82 / 2082
S-XS-PCF-22-70	22 x 70	542	123	631	143	6 / 150	22 / 566	10 / 254	16 / 400	15 / 370	15 / 370	104 / 2632
S-XS-PCF-35-30	35 x 30	370	84	430	98	6 / 150	28 / 709	14 / 348	20 / 500	17 / 420	17 / 420	69 / 1746
S-XS-PCF-35-40	35 x 40	493	112	573	130	6 / 150	28 / 709	14 / 348	20 / 500	17 / 434	17 / 434	79 / 2000
S-XS-PCF-35-50	35 x 50	616	140	717	163	6 / 150	28 / 709	14 / 348	20 / 500	17 / 434	17 / 434	89 / 2260
S-XS-PCF-35-70	35 x 70	863	196	1003	228	8 / 200	28 / 709	14 / 348	20 / 500	17 / 434	17 / 434	111 / 2810
S-XS-PCF-50-30	50 x 30	528	120	614	140	6 / 150	31 / 779	14 / 352	24 / 600	19 / 494	19 / 494	71 / 1795
S-XS-PCF-50-40	50 x 40	704	160	819	186	6 / 150	31 / 779	14 / 352	24 / 600	19 / 494	19 / 494	81 / 2070
S-XS-PCF-50-50	50 x 50	881	200	1024	233	8 / 200	32 / 805	15 / 370	24 / 600	19 / 494	19 / 494	92 / 2335
S-XS-PCF-50-70	50 x 70	1233	280	1433	326	8 / 200	32 / 805	15 / 370	24 / 600	19 / 494	19 / 494	114 / 2885
S-XS-PCF-70-30	70 x 30	740	168	860	195	8 / 200	31 / 786	15 / 373	28 / 700	21 / 544	21 / 544	72 / 1817
S-XS-PCF-70-40	70 x 40	986	224	1147	260	8 / 200	32 / 802	14 / 361	28 / 700	21 / 544	21 / 544	83 / 2119
S-XS-PCF-70-50	70 x 50	1233	280	1433	326	8 / 200	32 / 802	14 / 361	28 / 700	21 / 544	21 / 544	93 / 2373
S-XS-PCF-70-70	70 x 70	1726	392	2006	456	10 / 250	32 / 802	14 / 361	28 / 700	21 / 544	21 / 544	115 / 2923

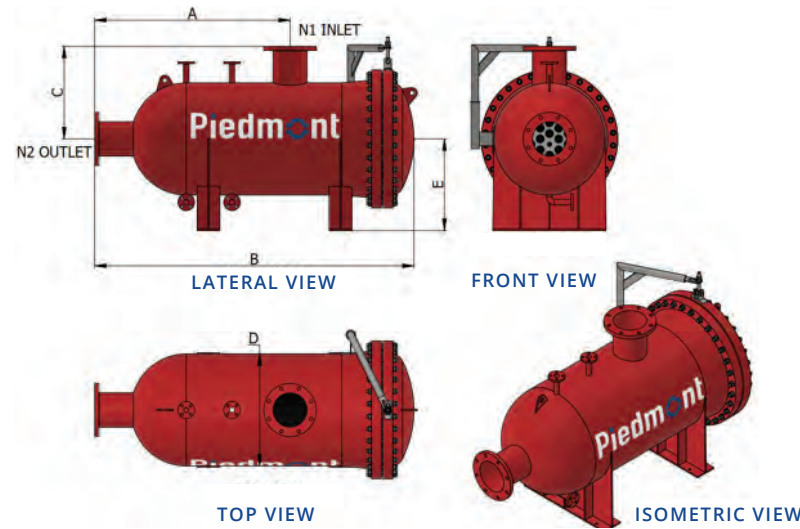


CHARACTERISTICS

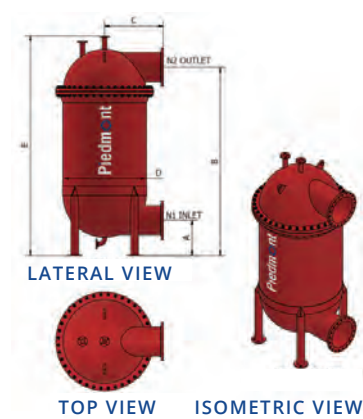
Flow rates: 29 - 456 m³/h
N° elements: 12 - 70
Elements length: 30/40/50/70 inches
Cartridge flow: Outside - Inside
Housing layout: Horizontal
Features: Side outlet, davit arm available
Optional: Swing bolts
Ideal: Modular / Skid / Container
Design pressure: 10 bar

MATERIALS

- 1. Shell & cap / Main body: FRP
- 2. Closure cover plate: FRP
- 3. Support legs: CS + C5HD
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: FRP
- 7. Drains: FRP
- 8. Deflector plate: FRP
- 9. Tube sheet: FRP
- 10. Guide plate: PE
- 12. Lifting lugs: CS + C5HD
- 13. Closure bolts: A4
- 14. Main body gaskets: EPDM + SS 316L
- 15. Davit arm: SS 316L
- 27. Support rod: Noryl GF15 + FRP
- 28. Internal support rod: Noryl GF15 + FRP
- 29. Filter element: PP



S-HXS-STYLE Cartridge Filter Housing											
Filter Housing model reference	Cartridges	Flow at 3.5 gpm per 10"	Flow at 0,8 m³/h per 10"	Flow at 4 gpm per 10"	Flow at 0,93 m³/h per 10"	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length										
S-HXS-PCF-12-30	12 x 30	127	29	147	33	3 / 80	28 / 715	56 / 1434	14 / 350	12 / 300	16 / 394
S-HXS-PCF-12-40	12 x 40	169	38	197	45	3 / 80	28 / 715	66 / 1684	14 / 350	12 / 300	16 / 394
S-HXS-PCF-12-50	12 x 50	211	48	246	56	4 / 100	28 / 715	76 / 1934	14 / 350	12 / 300	16 / 394
S-HXS-PCF-12-70	12 x 70	296	67	344	78	4 / 100	28 / 715	98 / 2484	14 / 350	12 / 300	16 / 394
S-HXS-PCF-22-30	22 x 30	232	53	270	61	4 / 100	30 / 755	60 / 1518	16 / 400	16 / 400	17 / 444
S-HXS-PCF-22-40	22 x 40	310	70	360	82	4 / 100	30 / 755	70 / 1768	16 / 400	16 / 400	17 / 444
S-HXS-PCF-22-50	22 x 50	387	88	450	102	6 / 150	30 / 755	79 / 2018	16 / 400	16 / 400	17 / 444
S-HXS-PCF-22-70	22 x 70	542	123	631	143	6 / 150	30 / 755	101 / 2568	16 / 400	16 / 400	17 / 444
S-HXS-PCF-35-30	35 x 30	370	84	430	98	6 / 150	39 / 1000	65 / 1663	18 / 450	20 / 500	19 / 494
S-HXS-PCF-35-40	35 x 40	493	112	573	130	6 / 150	43 / 1100	76 / 1922	18 / 450	20 / 500	19 / 494
S-HXS-PCF-35-50	35 x 50	616	140	717	163	6 / 150	43 / 1100	86 / 2176	18 / 450	20 / 500	19 / 494
S-HXS-PCF-35-70	35 x 70	863	196	1003	228	8 / 200	43 / 1101	107 / 2726	18 / 450	20 / 500	19 / 494
S-HXS-PCF-50-30	50 x 30	528	120	614	140	6 / 150	42 / 1055	69 / 1754	20 / 500	24 / 600	22 / 547
S-HXS-PCF-50-40	50 x 40	704	160	819	186	6 / 150	42 / 1060	79 / 2008	20 / 500	24 / 600	22 / 547
S-HXS-PCF-50-50	50 x 50	881	200	1024	233	8 / 200	45 / 1150	91 / 2312	22 / 550	24 / 600	22 / 547
S-HXS-PCF-50-70	50 x 70	1233	280	1433	326	8 / 200	45 / 1151	113 / 2862	22 / 550	24 / 600	22 / 547
S-HXS-PCF-70-30	70 x 30	740	168	860	195	8 / 200	43 / 1080	70 / 1788	22 / 550	28 / 700	23 / 594
S-HXS-PCF-70-40	70 x 40	986	224	1147	260	8 / 200	50 / 1280	82 / 2092	24 / 600	28 / 700	23 / 594
S-HXS-PCF-70-50	70 x 50	1233	280	1433	326	8 / 200	50 / 1280	92 / 2346	24 / 600	28 / 700	23 / 594
S-HXS-PCF-70-70	70 x 70	1726	392	2006	456	10 / 250	50 / 1281	114 / 2896	24 / 600	28 / 700	23 / 594



CHARACTERISTICS

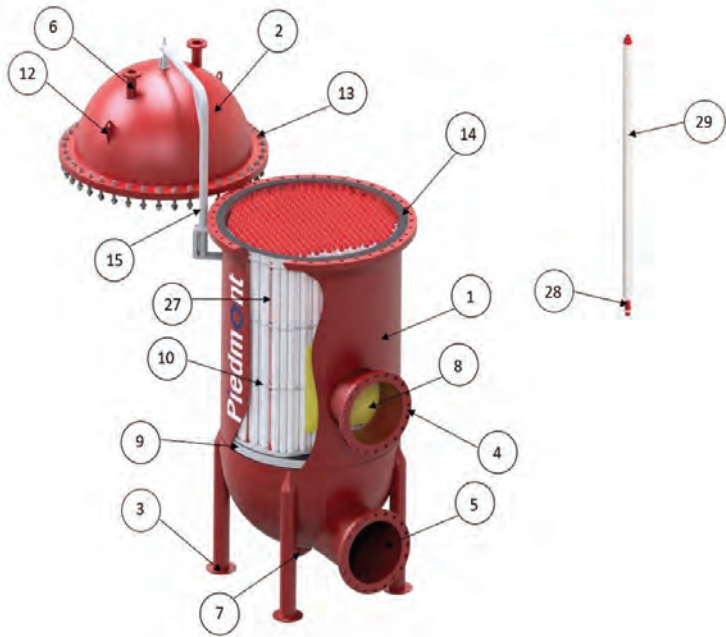
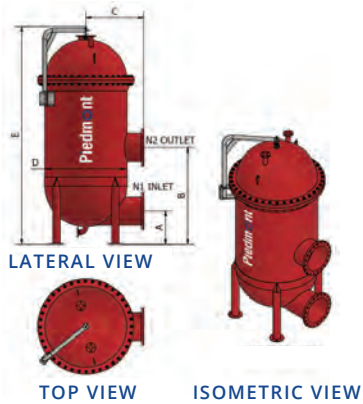
Flow rates: 323 - 6 185 m³/h
N° elements: 101 - 950
Elements length: 40/50/70 inches
Cartridge flow: Outside - Inside
Housing layout: Vertical
Features: Cartridge removal as package
Davit arm available
Bottom Inlet / Top Outlet
Optional: Swing bolts
Ideal: High flows and stand alone
Design pressure: 6 - 10 bar

MATERIALS

- 1. Shell & cap / Main body: FRP
- 2. Closure cover plate: FRP
- 3. Support legs: CS + C5HD
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: FRP
- 7. Drains: FRP
- 9. Tube sheet: FRP
- 10. Guide plate: PP
- 12. Lifting lugs: CS + C5HD
- 13. Closure bolts: A4
- 14. Main body gaskets: EPDM + SS 316L
- 27. Support rod: Noryl GF15 + FRP / SuperDuplex
- 28. Internal support rod: Noryl GF15 + FRP
- 29. Filter element: PP

XB-STYLE | Bottom Inlet Higher Flow Cartridge Filter Housing

Filter Housing model reference	Cartridges	Flow at 3.5 gpm per 10"	Flow at 0,8 m³/h per 10"	Flow at 4 gpm per 10"	Flow at 0,93 m³/h per 10"	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length										
XB-PCF-101-40	101 x 40	1423	323	1654	376	10 / 250	21 / 529	86 / 2172	26 / 650	31 / 800	101 / 2560
XB-PCF-101-50	101 x 50	1779	404	2068	470	10 / 250	21 / 529	96 / 2426	26 / 650	31 / 800	111 / 2820
XB-PCF-101-70	101 x 70	2490	566	2895	658	12 / 300	22 / 555	116 / 2959	28 / 700	31 / 800	133 / 3375
XB-PCF-126-40	126 x 40	1775	403	2064	469	10 / 250	21 / 529	88 / 2226	28 / 700	35 / 900	103 / 2620
XB-PCF-126-50	126 x 50	2219	504	2580	586	12 / 300	22 / 555	99 / 2505	30 / 750	35 / 900	115 / 2920
XB-PCF-126-70	126 x 70	3107	706	3612	820	14 / 350	22 / 555	120 / 3046	30 / 750	35 / 900	137 / 3480
XB-PCF-160-40	160 x 40	2254	512	2621	595	12 / 300	24 / 600	93 / 2350	31 / 800	39 / 1000	109 / 2760
XB-PCF-160-50	160 x 50	2818	640	3276	744	12 / 300	24 / 600	102 / 2599	31 / 800	39 / 1000	119 / 3020
XB-PCF-160-70	160 x 70	3945	896	4586	1042	16 / 400	25 / 641	125 / 3165	33 / 850	39 / 1000	143 / 3620
XB-PCF-196-40	196 x 40	2761	627	3210	729	12 / 300	24 / 600	96 / 2450	33 / 850	43 / 1100	113 / 2870
XB-PCF-196-50	196 x 50	3452	784	4013	911	14 / 350	24 / 616	106 / 2687	33 / 850	43 / 1100	123 / 3120
XB-PCF-196-70	196 x 70	4833	1098	5618	1276	16 / 400	25 / 641	127 / 3220	35 / 900	43 / 1100	145 / 3680
XB-PCF-238-40	238 x 40	3353	762	3898	885	14 / 350	24 / 616	98 / 2488	35 / 900	47 / 1200	115 / 2920
XB-PCF-238-50	238 x 50	4192	952	4873	1107	16 / 400	25 / 641	109 / 2767	37 / 950	47 / 1200	127 / 3230
XB-PCF-238-70	238x 70	5868	1333	6822	1549	18 / 450	26 / 667	130 / 3299	37 / 950	47 / 1200	149 / 3780
XB-PCF-280-40	280 x 40	3945	896	4586	1042	16 / 400	25 / 641	103 / 2618	39 / 1000	51 / 1300	121 / 3080
XB-PCF-280-50	280 x 50	4931	1120	5733	1302	16 / 400	25 / 641	113 / 2872	39 / 1000	51 / 1300	131 / 3330
XB-PCF-280-70	280 x 70	6904	1568	8026	1823	20 / 500	27 / 693	135 / 3428	39 / 1000	51 / 1300	155 / 3940
XB-PCF-324-40	324 x 40	4565	1037	5307	1205	16 / 400	25 / 641	105 / 2668	41 / 1050	55 / 1400	123 / 3130
XB-PCF-324-50	324 x 50	5706	1296	6633	1507	18 / 450	26 / 667	116 / 2946	41 / 1050	55 / 1400	135 / 3430
XB-PCF-324-70	324 x 70	7989	1814	9287	2109	20 / 500	27 / 693	137 / 3478	41 / 1050	55 / 1400	157 / 3990
XB-PCF-376-40	376 x 40	5298	1203	6158	1399	18 / 450	26 / 667	108 / 2747	43 / 1100	59 / 1500	127 / 3230
XB-PCF-376-50	376 x 50	6622	1504	7698	1748	20 / 500	27 / 693	119 / 3025	43 / 1100	59 / 1500	139 / 3540
XB-PCF-376-70	376 x 70	9271	2106	10777	2448	24 / 600	29 / 744	141 / 3582	45 / 1150	59 / 1500	163 / 4140
XB-PCF-430-40	430 x 40	6058	1376	7043	1600	18 / 450	26 / 667	112 / 2852	45 / 1150	63 / 1600	131 / 3340
XB-PCF-430-50	430 x 50	7573	1720	8804	2000	20 / 500	27 / 693	121 / 3080	45 / 1150	63 / 1600	141 / 3590
XB-PCF-430-70	430 x 70	10602	2408	12325	2799	24 / 600	29 / 744	143 / 3637	47 / 1200	63 / 1600	165 / 4200
XB-PCF-496-40	496 x 40	6988	1587	8124	1845	18 / 450	26 / 667	116 / 2957	47 / 1200	67 / 1700	135 / 3440
XB-PCF-496-50	496 x 50	8735	1984	10155	2306	20 / 500	27 / 693	125 / 3185	47 / 1200	67 / 1700	146 / 3700
XB-PCF-496-70	496 x 70	12229	2778	14217	3229	24 / 600	29 / 744	143 / 3642	49 / 1250	67 / 1700	169 / 4300
XB-PCF-553-40	553 x 40	7791	1770	9057	2057	20 / 500	27 / 693	120 / 3036	49 / 1250	71 / 1800	140 / 3550
XB-PCF-553-50	553 x 50	9739	2212	11322	2571	24 / 600	29 / 744	128 / 3239	51 / 1300	71 / 1800	150 / 3800
XB-PCF-553-70	553 x 70	13635	3097	15851	3600	26 / 660	30 / 761	149 / 3780	53 / 1350	71 / 1800	172 / 4360
XB-PCF-607-40	607 x 40	8552	1942	9942	2258	20 / 500	27 / 693	123 / 3136	51 / 1300	75 / 1900	144 / 3650
XB-PCF-607-50	607 x 50	10690	2428	12427	2823	24 / 600	29 / 744	131 / 3339	53 / 1350	75 / 1900	154 / 3900
XB-PCF-607-70	607 x 70	14966	3399	17398	3952	26 / 660	30 / 761	153 / 3880	55 / 1400	75 / 1900	184 / 4680
XB-PCF-672-40	672 x 40	9468	2150	11006	2500	24 / 600	29 / 744	126 / 3190	55 / 1400	79 / 2000	148 / 3750
XB-PCF-672-50	672 x 50	11835	2688	13758	3125	24 / 600	29 / 744	136 / 3444	55 / 1400	79 / 2000	158 / 4010
XB-PCF-672-70	672 x 70	16569	3763	19261	4375	28 / 710	31 / 786	156 / 3960	57 / 1450	79 / 2000	180 / 4560
XB-PCF-950-40	950 x 40	13385	3040	15560	3534	26 / 660	30 / 761	142 / 3603	65 / 1650	95 / 2400	173 / 4400
XB-PCF-950-50	950 x 50	16731	3800	19450	4418	28 / 710	37 / 786	151 / 3832	65 / 1650	95 / 2400	185 / 4700
XB-PCF-950-70	950 x 70	23423	5320	27230	6185	34 / 860	34 / 868	172 / 4358	67 / 1700	95 / 2400	199 / 5060



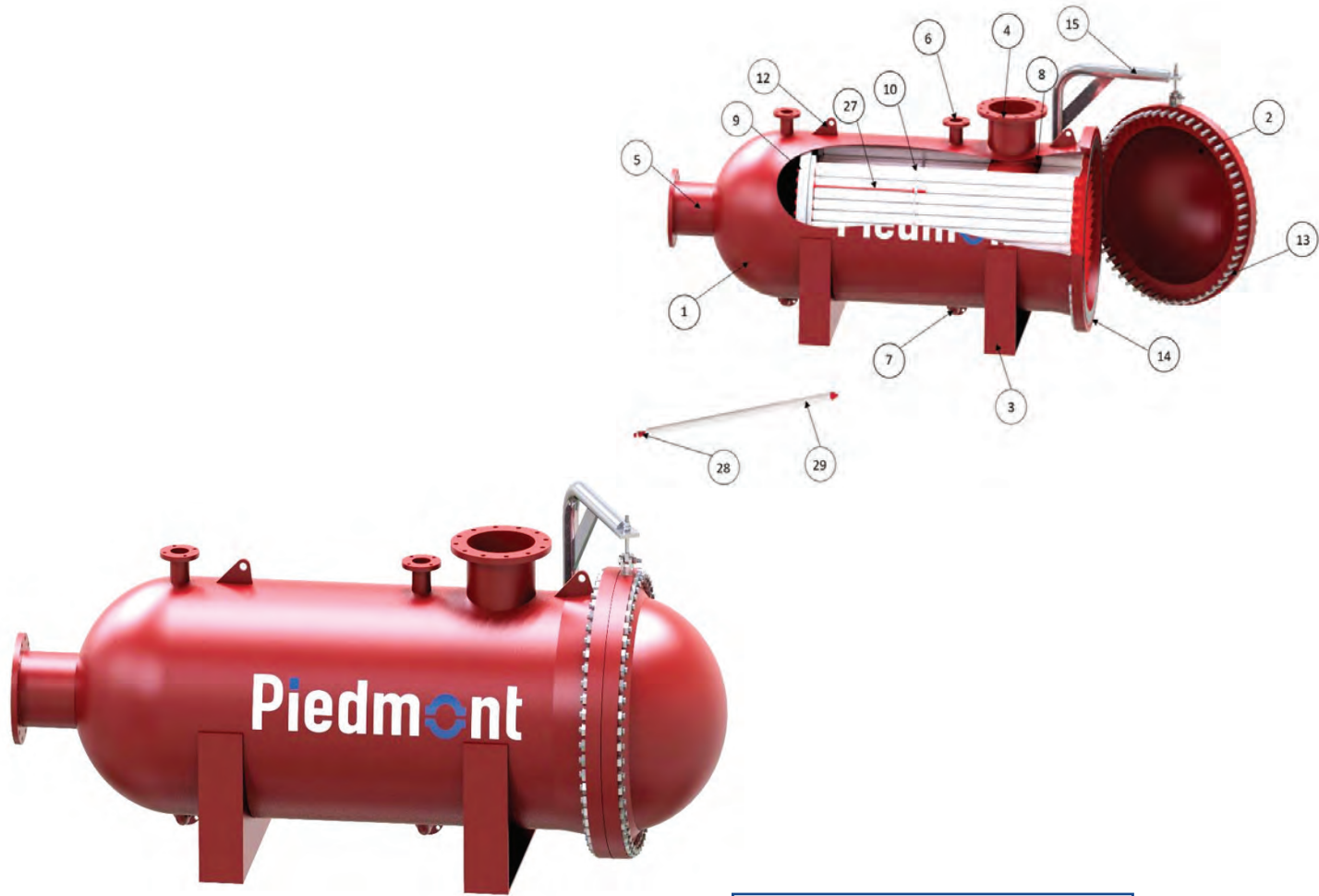
MATERIALS

1. Shell / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: CS + C5HD
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Drains: FRP
8. Deflector plate: FRP
9. Tube sheet: FRP
10. Guide plate: PP
12. Lifting lugs: CS + C5HD
13. Closure bolts: A4
14. Main body gaskets: EPDM + SS 316L
15. Davit Arm: SS AISI 316L
27. Support rod: Noryl GF15 + FRP / SuperDuplex
28. Internal support rod: Noryl GF15 + FRP
29. Filter element: PP

CHARACTERISTICS

Flow rates: 307 - 5 892 m³/h
N° elements: 92 - 936
Elements length: 40/50/70 inches
Cartridge flow: Outside - Inside
Housing layout: Vertical
Features: Bottom Outlet / Center Inlet
Davit arm available
Optional: Swing bolts
Ideal: High flows and stand alone
Design pressure: 6 - 10 bar

XS-STYLE Cartridge Filter Housing											
Filter Housing model reference	Cartridges	Flow at 3.5 gpm per 10"	Flow at 0,8 m³/h per 10"	Flow at 4 gpm per 10"	Flow at 0,93 m³/h per 10"	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length										
XS-PCF-96-40	96 x 40	1353	307	1572	357	8 / 200	20 / 514	46 / 1174	26 / 650	31 / 800	106 / 2686
XS-PCF-92-50	92 x 50	1620	368	1884	428	10 / 250	21 / 541	47 / 1201	26 / 650	31 / 800	116 / 2941
XS-PCF-92-70	92 x 70	2268	515	2637	599	10 / 250	22 / 566	48 / 1226	28 / 700	31 / 800	136 / 3446
XS-PCF-120-40	120 x 40	1691	384	1965	446	10 / 250	21 / 541	49 / 1251	28 / 700	35 / 900	110 / 2786
XS-PCF-120-50	120 x 50	2113	480	2457	558	10 / 250	21 / 541	49 / 1251	28 / 700	35 / 900	120 / 3041
XS-PCF-118-70	118 x 70	2909	661	3382	768	12 / 300	22 / 566	50 / 1276	30 / 750	35 / 900	140 / 3546
XS-PCF-154-40	154 x 40	2170	493	2522	573	10 / 250	23 / 586	53 / 1346	30 / 750	39 / 1000	115 / 2931
XS-PCF-150-50	150 x 50	2642	600	3071	698	12 / 300	24 / 611	54 / 1371	31 / 800	39 / 1000	125 / 3186
XS-PCF-146-70	146 x 70	3600	818	4185	950	14 / 350	25 / 628	55 / 1388	31 / 800	39 / 1000	145 / 3691
XS-PCF-184-40	184 x 40	2592	589	3014	684	12 / 300	24 / 611	56 / 1421	33 / 850	43 / 1100	119 / 3031
XS-PCF-184-50	184 x 50	3241	736	3767	856	12 / 300	24 / 611	56 / 1421	33 / 850	43 / 1100	129 / 3286
XS-PCF-180-70	180 x 70	4438	1008	5159	1172	14 / 350	25 / 628	57 / 1438	33 / 850	43 / 1100	149 / 3791
XS-PCF-227-40	227 x 40	3198	726	3718	844	12 / 300	24 / 611	58 / 1472	35 / 900	47 / 1200	123 / 3131
XS-PCF-222-50	222 x 50	3910	888	4545	1032	14 / 350	25 / 628	59 / 1488	35 / 900	47 / 1200	133 / 3386
XS-PCF-218-70	218 x 70	5375	1221	6248	1419	16 / 400	26 / 653	60 / 1513	37 / 950	47 / 1200	153 / 3891
XS-PCF-264-40	264 x 40	3720	845	4324	982	14 / 350	25 / 628	61 / 1538	37 / 950	51 / 1300	127 / 3231
XS-PCF-260-50	260 x 50	4579	1040	5323	1209	16 / 400	26 / 653	62 / 1563	39 / 1000	51 / 1300	137 / 3486
XS-PCF-253-70	253 x 70	6238	1417	7252	1647	18 / 450	27 / 679	63 / 1589	39 / 1000	51 / 1300	157 / 3991
XS-PCF-308-40	308 x 40	4339	986	5045	1146	14 / 350	25 / 628	63 / 1588	39 / 1000	55 / 1400	131 / 3331
XS-PCF-305-50	305 x 50	5372	1220	6244	1418	16 / 400	26 / 653	64 / 1613	41 / 1050	55 / 1400	141 / 3586
XS-PCF-289-70	289 x 70	7126	1618	8284	1881	20 / 500	28 / 705	66 / 1665	41 / 1050	55 / 1400	161 / 4091
XS-PCF-355-40	355 x 40	5002	1136	5814	1321	16 / 400	26 / 653	65 / 1663	43 / 1100	59 / 1500	135 / 3431
XS-PCF-350-50	350 x 50	6164	1400	7166	1628	18 / 450	27 / 679	66 / 1689	43 / 1100	59 / 1500	145 / 3686
XS-PCF-344-70	344 x 70	8482	1926	9860	2239	20 / 500	28 / 705	68 / 1715	43 / 1100	59 / 1500	165 / 4191
XS-PCF-408-40	408 x 40	5748	1306	6683	1518	16 / 400	26 / 653	67 / 1713	45 / 1150	63 / 1600	139 / 3531
XS-PCF-403-50	403 x 50	7097	1612	8251	1874	18 / 450	27 / 679	68 / 1739	45 / 1150	63 / 1600	149 / 3786
XS-PCF-383-70	383 x 70	9443	2145	10978	2493	24 / 600	30 / 756	71 / 1816	47 / 1200	63 / 1600	169 / 4291
XS-PCF-521-40	521 x 40	7340	1667	8533	1938	20 / 500	28 / 705	73 / 1865	49 / 1250	71 / 1800	147 / 3731
XS-PCF-508-50	508 x 50	8947	2032	10400	2362	24 / 600	30 / 756	75 / 1916	51 / 1300	71 / 1800	157 / 3986
XS-PCF-508-70	508 x 70	12525	2845	14561	3307	24 / 600	30 / 756	75 / 1916	51 / 1300	71 / 1800	177 / 4491
XS-PCF-631-40	631 x 40	8890	2019	10335	2347	24 / 600	30 / 756	79 / 2016	55 / 1400	79 / 2000	155 / 3931
XS-PCF-631-50	631 x 50	11113	2524	12919	2934	24 / 600	30 / 756	79 / 2016	55 / 1400	79 / 2000	165 / 4186
XS-PCF-614-70	614 x 70	15139	3438	17599	3997	28 / 710	31 / 798	81 / 2058	57 / 1450	79 / 2000	185 / 4691
XS-PCF-936-40	936 x 40	13188	2995	15330	3482	26 / 650	30 / 773	88 / 2233	65 / 1650	94 / 2400	171 / 4331
XS-PCF-925-50	925 x 50	16291	3700	18938	4301	28 / 710	31 / 798	89 / 2258	65 / 1650	94 / 2400	181 / 4586
XS-PCF-905-70	905 x 70	22314	5068	25940	5892	32 / 850	33 / 848	91 / 2308	70 / 1700	94 / 2400	200 / 5091

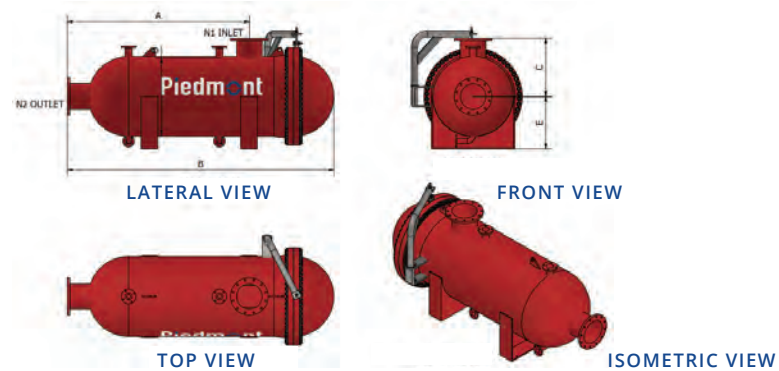


CHARACTERISTICS

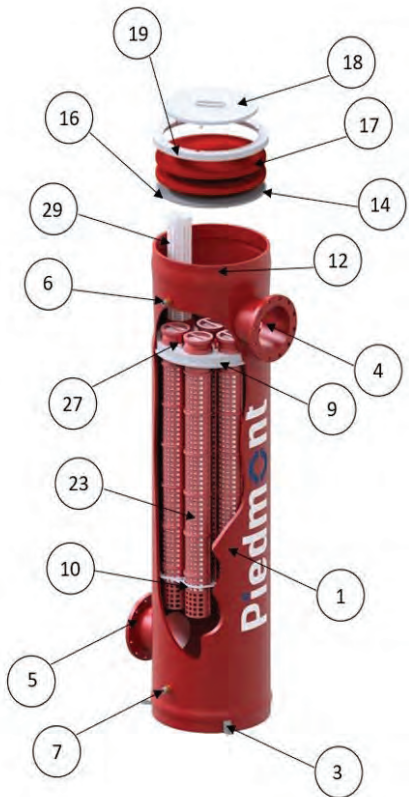
Flow rates: 307 - 5 892 m³/h
N° elements: 92 - 936
Elements length: 40/50/70 inches
Cartridge flow: Outside - Inside
Housing layout: Horizontal
Features: Davit arm available
Optional: Cartridge removal as a package
Swing bolts
Ideal: High flows and stand alone
Design pressure: 6 - 10 bar

MATERIALS

1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: CS + C5HD
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Drains: FRP
8. Deflector plate: FRP
9. Tube sheet: FRP
10. Guide plate: PP
12. Lifting lugs: CS + C5HD
13. Closure bolts: A4
14. Main body gaskets: EPDM + SS 316L
15. Davit Arm: SS AISI 316L
27. Support rod: Noryl GF15 + FRP / SuperDuplex
28. Internal support rod: Noryl GF15 + FRP
29. Filter element: PP



XSH-STYLE Cartridge Filter Housing											
Filter Housing model reference	Cartridges	Flow at 3.5 gpm per 10"	Flow at 0,8 m³/h per 10"	Flow at 4 gpm per 10"	Flow at 0,93 m³/h per 10"	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length										
XSH-PCF-96-40	96 x 40	1353	307	1572	357	8 / 200	48 / 1211	94 / 2383	26 / 650	31 / 800	24 / 603
XSH-PCF-92-50	92 x 50	1620	368	1884	428	10 / 250	49 / 1238	104 / 2638	26 / 650	31 / 800	24 / 603
XSH-PCF-92-70	92 x 70	2268	515	2637	599	10 / 250	49 / 1238	124 / 3143	26 / 650	31 / 800	24 / 603
XSH-PCF-120-40	120 x 40	1691	384	1965	446	10 / 250	51 / 1288	98 / 2483	28 / 700	35 / 900	26 / 653
XSH-PCF-120-50	120 x 50	2113	480	2457	558	10 / 250	51 / 1288	108 / 2738	28 / 700	35 / 900	26 / 653
XSH-PCF-118-70	118 x 70	2909	661	3382	768	12 / 300	54 / 1363	130 / 3293	30 / 750	35 / 900	26 / 653
XSH-PCF-154-40	154 x 40	2170	493	2522	573	10 / 250	53 / 1338	102 / 2583	30 / 750	39 / 1000	28 / 703
XSH-PCF-150-50	150 x 50	2642	600	3071	698	12 / 300	56 / 1413	114 / 2888	31 / 800	39 / 1000	28 / 703
XSH-PCF-146-70	146 x 70	3600	818	4185	950	14 / 350	56 / 1430	134 / 3393	31 / 800	39 / 1000	28 / 703
XSH-PCF-184-40	184 x 40	2592	589	3014	684	12 / 300	58 / 1463	108 / 2733	33 / 850	43 / 1100	30 / 753
XSH-PCF-184-50	184 x 50	3241	736	3767	856	12 / 300	58 / 1463	118 / 2988	33 / 850	43 / 1100	30 / 753
XSH-PCF-180-70	180 x 70	4438	1008	5159	1172	14 / 350	58 / 1480	138 / 3493	33 / 850	43 / 1100	30 / 753
XSH-PCF-227-40	227 x 40	3198	726	3718	844	12 / 300	60 / 1513	112 / 2833	35 / 900	47 / 1200	32 / 803
XSH-PCF-222-50	222 x 50	3910	888	4545	1032	14 / 350	60 / 1530	122 / 3088	35 / 900	47 / 1200	32 / 803
XSH-PCF-218-70	218 x 70	5375	1221	6248	1419	16 / 400	63 / 1605	143 / 3643	37 / 950	47 / 1200	32 / 803
XSH-PCF-264-40	264 x 40	3720	845	4324	982	14 / 350	62 / 1580	115 / 2933	37 / 950	51 / 1300	34 / 853
XSH-PCF-260-50	260 x 50	4579	1040	5323	1209	14 / 350	62 / 1580	126 / 3188	37 / 950	51 / 1300	34 / 853
XSH-PCF-253-70	253 x 70	6238	1417	7252	1647	18 / 450	66 / 1681	147 / 3743	39 / 1000	51 / 1300	34 / 853
XSH-PCF-308-40	308 x 40	4339	986	5045	1146	14 / 350	64 / 1630	119 / 3033	39 / 1000	55 / 1400	36 / 903
XSH-PCF-305-50	305 x 50	5372	1220	6244	1418	16 / 400	67 / 1705	131 / 3338	41 / 1050	55 / 1400	36 / 903
XSHPCF-289-70	289 x 70	7126	1618	8284	1881	18 / 450	68 / 1731	151 / 3843	41 / 1050	55 / 1400	36 / 903
XSH-PCF-355-40	355 x 40	5002	1136	5814	1321	16 / 400	69 / 1755	125 / 3183	43 / 1100	59 / 1500	38 / 953
XSH-PCF-350-50	350 x 50	6164	1400	7166	1628	18 / 450	70 / 1781	135 / 3438	43 / 1100	59 / 1500	38 / 953
XSH-PCF-344-70	344 x 70	8482	1926	9860	2239	20 / 500	71 / 1807	155 / 3943	43 / 1100	59 / 1500	38 / 953
XSH-PCF-408-40	408 x 40	5748	1306	6683	1518	16 / 400	71 / 1805	129 / 3283	45 / 1150	63 / 1600	39 / 1003
XSH-PCF-403-50	403 x 50	7097	1612	8251	1874	18 / 450	72 / 1831	139 / 3538	45 / 1150	63 / 1600	39 / 1003
XSH-PCF-383-70	383 x 70	9443	2145	10978	2493	24 / 600	77 / 1958	161 / 4093	47 / 1200	63 / 1600	39 / 1003
XSH-PCF-521-40	521 x 40	7340	1667	8533	1938	18 / 450	76 / 1931	137 / 3483	49 / 1250	71 / 1800	43 / 1103
XSH-PCF-508-50	508 x 50	8947	2032	10400	2362	20 / 500	77 / 1957	147 / 3738	49 / 1250	71 / 1800	43 / 1103
XSH-PCF-508-70	508 x 70	12525	2845	14561	3307	24 / 600	81 / 2058	169 / 4293	51 / 1300	71 / 1800	43 / 1103
XSH-PCF-631-40	631 x 40	8890	2019	10335	2347	20 / 500	81 / 2057	145 / 3683	53 / 1350	79 / 2000	47 / 1203
XSH-PCF-631-50	631 x 50	11113	2524	12919	2934	24 / 600	85 / 2158	157 / 3988	55 / 1400	79 / 2000	47 / 1203
XSH-PCF-614-70	614 x 70	15139	3438	17599	3997	28 / 700	89 / 2250	179 / 4543	57 / 1450	79 / 2000	47 / 1203
XSH-PCF-936-40	936 x 40	13188	2995	15330	3482	24 / 600	93 / 2358	163 / 4133	63 / 1600	94 / 2400	55 / 1403
XSH-PCF-925-50	925 x 50	16291	3700	18938	4301	28 / 700	96 / 2450	175 / 4438	65 / 1650	94 / 2400	55 / 1403
XSH-PCF-905-70	905 x 70	22314	5068	25940	5892	32 / 800	100 / 2550	197 / 4993	67 / 1700	94 / 2400	55 / 1403

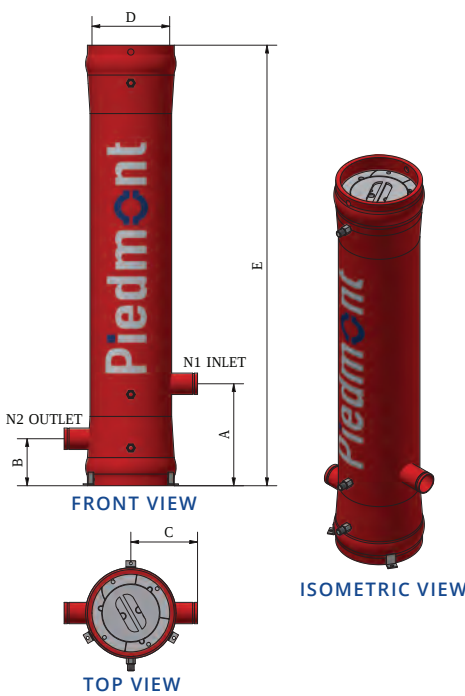


MATERIALS

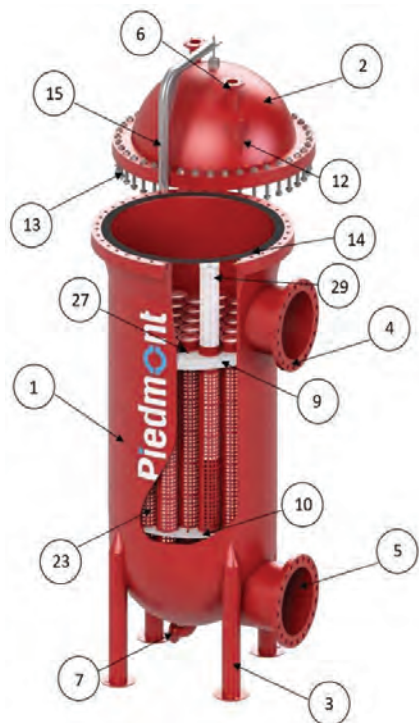
- 1. Shell / Main body: FRP
- 3. Support legs: AISI SS 316L
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: PA
- 7. Drains: PA
- 9. Tube sheet: PVC / FRP
- 10. Guide plate: PVC
- 12. Lifting lugs: FRP
- 14. Main body gaskets: NBR
- 16. O-Ring support plate: POM
- 17. Structural plate: FRP
- 18. Securing plate: PP
- 19. Locking rings: PP
- 23. Baskets: PA6FV + PA66FK
- 27. Support rod: Noryl GF15 + FRP
- 29. Filter element: PP

CHARACTERISTICS

Flow rates: 80 - 420 m³/h
N° elements: 2 - 7
Elements length: 40 & 60 inches
Cartridge flow: Inside - Outside
Housing layout: Vertical
Features: Quick Opening, no bolts
Ideal: High flows and modular / skid / container
Design pressure: 10 bar



HV-Q STYLE Quick Opening High Flow Cartridge Filter Housing									
Filter Housing model reference	Cartridges	Design flow gpm	Design flow m³/h	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length								
HV-Q-PCF-2-40	2 x 40	352	80	4 / 100	66 / 1665	10 / 267	13 / 320	16 / 400	77 / 1965
HV-Q-PCF-2-60	2 x 60	528	120	6 / 150	86 / 2190	11 / 292	14 / 360	16 / 400	99 / 2515
HV-Q-PCF-4-40	4 x 40	704	160	6 / 150	69 / 1752	10 / 267	16 / 410	20 / 500	81 / 2050
HV-Q-PCF-4-60	4 x 60	1057	240	8 / 200	90 / 2277	11 / 292	17 / 435	20 / 500	102 / 2600
HV-Q-PCF-7-40	7 x 40	1233	280	8 / 200	73 / 1848	13 / 334	19 / 485	24 / 600	86 / 2190
HV-Q-PCF-7-60	7 x 60	1849	420	10 / 250	93 / 2373	14 / 359	19 / 485	24 / 600	108 / 2740

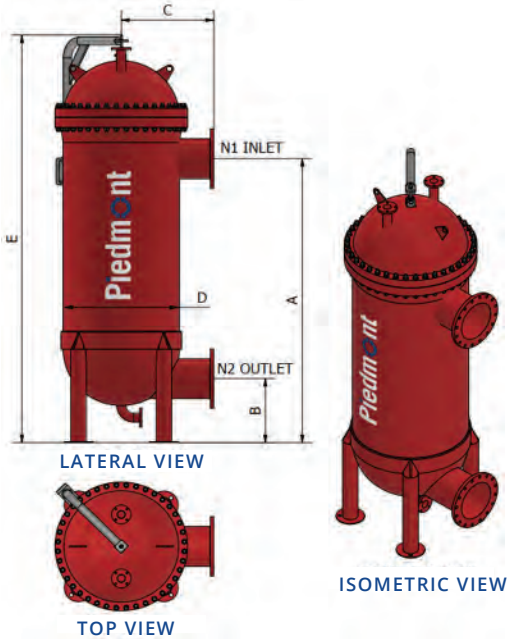


MATERIALS

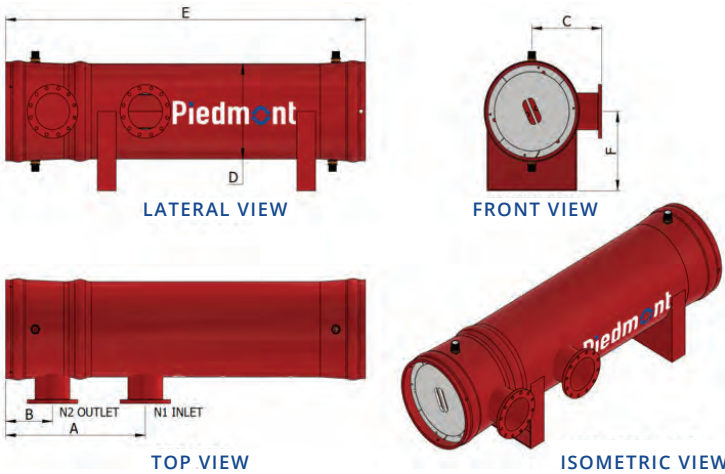
- 1. Shell / Main body: FRP
- 2. Closure cover plate: FRP
- 3. Support legs: CS + C5HD
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: FRP
- 7. Drains: FRP
- 9. Tube sheet: FRP
- 10. Guide plate: PP
- 12. Lifting lugs: CS + C5HD
- 13. Closure bolts: A4
- 14. Main body gaskets: EPDM + SS 316L
- 15. Davit Arm: SS AISI 316L
- 27. Support rod: PA6FV + PA66FK
- 28. Internal support rod: Noryl GF15 + FRP
- 29. Filter element: PP

CHARACTERISTICS

Flow rates: 400 - 2 880 m³/h
N° elements: 10 - 48
Elements length: 40 & 60 inches
Cartridge flow: Inside - Outside
Housing layout: Vertical
Features: Bottom Outlet / Center Inlet
Davit arm available
Optional: Cartridge removal as a package
Swing bolts
Ideal: High flows and stand alone
Design pressure: 6 - 10 bar



HV-X STYLE High Flow Cartridge Filter Housing									
Filter Housing model reference	Cartridges	Design flow gpm	Design flow m³/h	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length								
HV-X-PCF-10-40	10 x 40	1761	400	10 / 250	82 / 2080	21 / 530	26 / 650	31 / 800	120 / 3040
HV-X-PCF-10-60	10 x 60	2642	600	12 / 300	103 / 2605	21 / 530	26 / 650	31 / 800	140 / 3565
HV-X-PCF-14-40	14 x 40	2466	560	12 / 300	85 / 2155	21 / 540	28 / 700	35 / 900	125 / 3165
HV-X-PCF-14-60	14 x 60	3698	840	14 / 350	106 / 2680	22 / 555	28 / 700	35 / 900	146 / 3705
HV-X-PCF-19-40	19 x 40	3346	760	14 / 350	89 / 2252	24 / 600	31 / 800	39 / 1000	132 / 3348
HV-X-PCF-19-60	19 x 60	5019	1140	16 / 400	110 / 2802	25 / 630	31 / 800	39 / 1000	153 / 3898
HV-X-PCF-21-40	21 x 40	3698	840	14 / 350	92 / 2343	25 / 641	35 / 900	43 / 1100	137 / 3490
HV-X-PCF-21-60	21 x 60	5548	1260	16 / 400	113 / 2868	26 / 666	35 / 900	43 / 1100	160 / 4065
HV-X-PCF-26-40	26 x 40	4579	1040	16 / 400	95 / 2418	26 / 666	37 / 950	47 / 1200	144 / 3668
HV-X-PCF-26-60	26 x 60	6868	1560	18 / 450	116 / 2943	27 / 691	37 / 950	47 / 1200	166 / 4218
HV-X-PCF-31-40	31 x 40	5460	1240	16 / 400	97 / 2469	26 / 667	39 / 1000	51 / 1300	149 / 3774
HV-X-PCF-31-60	31 x 60	8189	1860	20 / 500	118 / 2994	27 / 692	39 / 1000	51 / 1300	170 / 4324
HV-X-PCF-37-40	37 x 40	6516	1480	18 / 450	99 / 2520	26 / 667	41 / 1050	55 / 1400	153 / 3886
HV-X-PCF-37-60	37 x 60	9774	2220	24 / 600	122 / 3110	29 / 747	43 / 1100	55 / 1400	180 / 4566
HV-X-PCF-42-40	42 x 40	7397	1680	20 / 500	102 / 2593	27 / 692	43 / 1100	59 / 1500	159 / 4043
HV-X-PCF-42-60	42 x 60	11095	2520	24 / 600	124 / 3143	29 / 742	45 / 1150	59 / 1500	183 / 4643
HV-X-PCF-48-40	48 x 40	8454	1920	20 / 500	104 / 2645	27 / 692	45 / 1150	63 / 1600	164 / 4156
HV-X-PCF-48-60	48 x 60	12680	2880	24 / 600	126 / 3195	29 / 742	45 / 1150	63 / 1600	187 / 4756



CHARACTERISTICS

Flow rates: 80 - 420 m³/h
N° elements: 2 - 7
Elements length: 40 & 60 inches
Cartridge flow: Inside - Outside
Housing layout: Horizontal
Features: Quick opening, no bolts
Ideal: High flows and modular / skid / container
Design pressure: 10 bar

MATERIALS

- 1. Shell / Main body: FRP
- 3. Support legs: CS + C5HD
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: PA
- 7. Drains: PA
- 9. Tube sheet: PVC / FRP
- 10. Guide plate: PVC
- 12. Lifting lugs: FRP
- 14. Main body gaskets: NBR
- 16. O-Ring support plate: POM
- 17. Structural plate: FRP
- 18. Securing plate: PP
- 19. Locking rings: PP
- 23. Baskets: PA6FV + PA66FK
- 27. Support rod: PA/Noryl GF15 + FRP
- 29. Filter element: PP

HH-Q STYLE | Quick Opening High Flow Cartridge Filter Housing

Filter Housing model reference	Cartridges	Design flow gpm	Design flow m ³ /h	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)	F (inch / mm)
	Qty. x Length									
HH-Q-PCF-2-40	2 x 40	352	80	4 / 100	66 / 1665	11 / 267	13 / 320	16 / 400	77 / 1965	18 / 460
HH-Q-PCF-2-60	2 x 60	528	120	6 / 150	86 / 2190	11 / 292	14 / 360	16 / 400	99 / 2515	18 / 460
HH-Q-PCF-4-40	4 x 40	704	160	6 / 150	69 / 1752	11 / 267	16 / 410	20 / 500	81 / 2050	20 / 510
HH-Q-PCF-4-60	4 x 60	1057	240	8 / 200	90 / 2277	11 / 292	17 / 435	20 / 500	102 / 2600	20 / 510
HH-Q-PCF-7-40	7 x 40	1233	280	8 / 200	73 / 1848	13 / 334	19 / 485	24 / 600	86 / 2190	22 / 560
HH-Q-PCF-7-60	7 x 60	1849	420	10 / 250	93 / 2373	14 / 359	19 / 485	24 / 600	108 / 2740	22 / 560

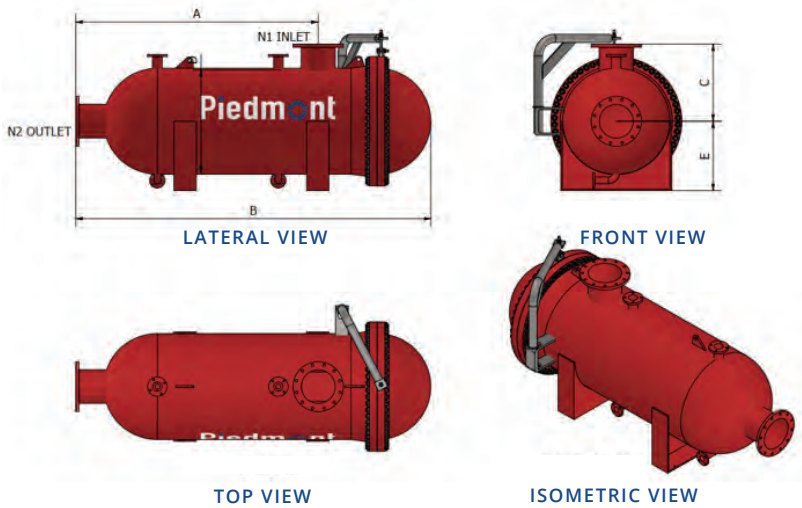


CHARACTERISTICS

Flow rates: 400 - 2 880 m³/h
N° elements: 10 - 48
Elements length: 40 & 60 inches
Cartridge flow: Inside - Outside
Housing layout: Horizontal
Features: Davit arm available
Optional: Swing bolts
Cartridge removal as package
Ideal: High flows and stand alone
Design pressure: 6 - 10 bar

MATERIALS

1. Shell / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: CS + C5HD
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Drains: FRP
9. Tube sheet: FRP
10. Guide plate: PP
12. Lifting lugs: Galvanised Steel
13. Closure bolts: A4
14. Main body gaskets: EPDM + SS 316L
15. Davit Arm: SS AISI 316L
23. Baskets: PA6FV + PA66FK
29. Filter element: PP



HH-X STYLE High Flow Cartridge Filter Housing									
Filter Housing model reference	Cartridges	Design flow gpm	Design flow m³/h	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length								
HV-X-PCF-10-40	10 x 40	1761	400	10 / 250	89 / 2271	118 / 3004	26 / 650	31 / 800	24 / 603
HV-X-PCF-10-60	10 x 60	2642	600	12 / 300	92 / 2346	122 / 3104	28 / 700	31 / 800	24 / 603
HV-X-PCF-14-40	14 x 40	2466	560	12 / 300	94 / 2396	127 / 3214	30 / 750	35 / 900	26 / 653
HV-X-PCF-14-60	14 x 60	3698	840	14 / 350	95 / 2421	129 / 3264	30 / 750	35 / 900	26 / 653
HV-X-PCF-19-40	19 x 40	3346	760	14 / 350	98 / 2486	132 / 3364	31 / 800	39 / 1000	28 / 703
HV-X-PCF-19-60	19 x 60	5019	1140	16 / 400	99 / 2511	134 / 3414	31 / 800	39 / 1000	28 / 703
HV-X-PCF-21-40	21 x 40	3698	840	14 / 350	101 / 2561	139 / 3524	33 / 850	43 / 1100	30 / 753
HV-X-PCF-21-60	21 x 60	5548	1260	16 / 400	104 / 2636	143 / 3624	35 / 900	43 / 1100	30 / 753
HV-X-PCF-26-40	26 x 40	4579	1040	16 / 400	103 / 2611	143 / 3634	35 / 900	47 / 1200	32 / 803
HV-X-PCF-26-60	26 x 60	6868	1560	18 / 450	107 / 2911	149 / 3784	37 / 950	47 / 1200	32 / 803
HV-X-PCF-31-40	31 x 40	5460	1240	16 / 400	108 / 2736	151 / 3844	39 / 1000	51 / 1300	34 / 853
HV-X-PCF-31-60	31 x 60	8189	1860	20 / 500	110 / 2786	155 / 3944	39 / 1000	51 / 1300	34 / 853
HV-X-PCF-37-40	37 x 40	6516	1480	18 / 450	111 / 2811	158 / 4004	41 / 1050	55 / 1400	36 / 903
HV-X-PCF-37-60	37 x 60	9774	2220	24 / 600	116 / 2936	166 / 4204	43 / 1100	55 / 1400	36 / 903
HV-X-PCF-42-40	42 x 40	7397	1680	20 / 500	113 / 2861	162 / 4114	43 / 1100	59 / 1500	38 / 953
HV-X-PCF-42-60	42 x 60	11095	2520	24 / 600	118 / 2986	170 / 4314	45 / 1150	59 / 1500	38 / 953
HV-X-PCF-48-40	48 x 40	8454	1920	20 / 500	116 / 2936	168 / 4274	45 / 1150	63 / 1600	39 / 1003
HV-X-PCF-48-60	48 x 60	12680	2880	24 / 600	120 / 3036	174 / 4424	47 / 1200	63 / 1600	39 / 1003

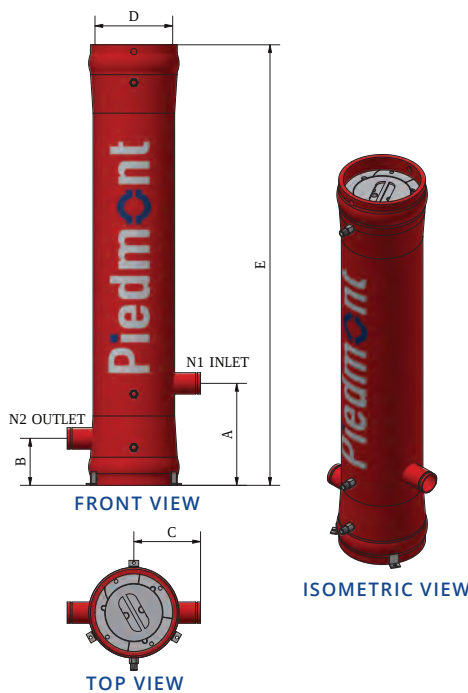


CHARACTERISTICS

Flow rates: 40 - 280 m³/h
N° elements: 2 - 7
Elements length: 17 & 32 inches
Cartridge flow: Inside - Outside
Housing layout: Vertical
Features: Quick opening, no bolts
Ideal: High flows and modular / skid / container
Design pressure: 10 bar

MATERIALS

- 1. Shell / Main body: FRP
- 3. Support legs: AISI SS 316L
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: PA
- 7. Drains: PA
- 9. Tube sheet: PVC / FRP
- 10. Guide plate: PVC
- 11. Stopper plate: PP
- 12. Lifting lugs: FRP
- 14. Main body gaskets: NBR
- 16. O-Ring support plate: POM
- 17. Structural plate: FRP
- 18. Securing plate: PP
- 19. Locking rings: PP
- 23. Baskets: PP
- 27. Support rod: Noryl GF15 + FRP
- 29. Filter element: PP

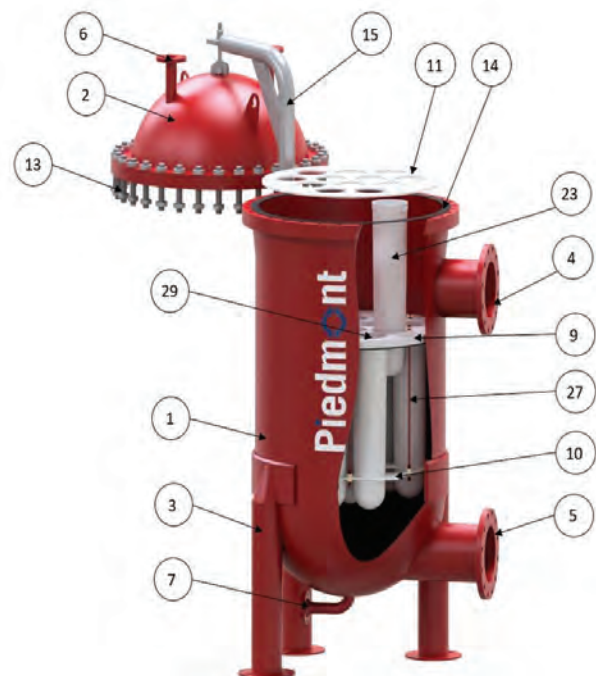


B-Q STYLE Bag Cartridge Filter Housing									
Filter Housing model reference	Cartridges	Maximum flow gpm	Maximum flow m ³ /h	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length								
B-Q-PB.F-2-17	2 x 17	176	40	3 / 80	38 / 954	10 / 242	12 / 310	16 / 400	50 / 1263
B-Q-PBF-2-32	2 x 32	352	80	4 / 100	51 / 1308	11 / 267	13 / 320	16 / 400	63 / 1608
B-Q-PBF-4-17	4 x 17	352	80	6 / 150	41 / 1050	11 / 267	16 / 410	20 / 500	53 / 1348
B-Q-PBF-4-32	4 x 32	704	160	6 / 150	55 / 1395	11 / 267	16 / 410	20 / 500	67 / 1693
B-Q-PBF-7-17	7 x 17	616	140	6 / 150	45 / 1145	13 / 334	18 / 460	24 / 600	59 / 1487
B-Q-PBF-7-32	7 x 32	1233	280	8 / 200	59 / 1490	13 / 334	19 / 485	24 / 600	72 / 1832



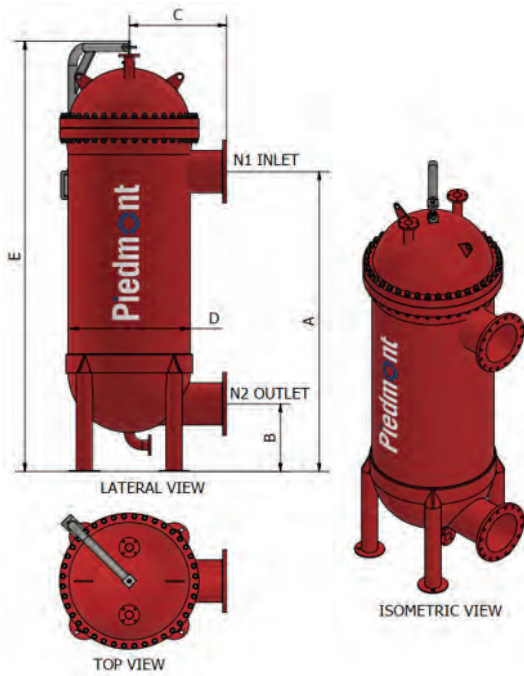
CHARACTERISTICS

Flow rates: 200 - 1 920 m³/h
N° elements: 10 - 48
Elements length: 17 & 32 inches
Cartridge flow: Inside - Outside
Housing layout: Vertical
Features: Side outlet, side Inlet
Davit arm available
Optional: Swing bolts
Ideal: High flows and stand alone
Design pressure: 6 - 10 bar



MATERIALS

1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: CS + C5HD
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Drains: FRP
8. Deflector plate: FRP
9. Tube sheet: FRP
10. Guide plate: PP
11. Stopper plate: PP
12. Lifting lugs: CS + C5HD
13. Closure bolts: A4
14. Main body gaskets: EPDM + SS 316L
15. Davit Arm: SS AISI 316L
23. Baskets: PP
27. Support rod: Noryl GF15 + FRP
29. Filter element: PP



B-X STYLE Bag Cartridge Filter Housing									
Filter Housing model reference	Cartridges	Maximum flow gpm	Maximum flow m³/h	N1 / N2 (inch / mm)	A (inch / mm)	B (inch / mm)	C (inch / mm)	D (inch / mm)	E (inch / mm)
	Qty. x Length								
B-X-PBF-10-17	10 x 17	881	200	8 / 200	49 / 1238	19 / 493	26 / 650	31 / 800	86 / 2179
B-X-PBF-10-32	10 x 32	1761	400	10 / 250	65 / 1662	20 / 518	26 / 650	31 / 800	101 / 2574
B-X-PBF-14-17	14 x 17	1233	280	8 / 200	51 / 1286	19 / 495	28 / 700	35 / 900	89 / 2272
B-X-PBF-14-32	14 x 32	2466	560	12 / 300	65 / 1660	21 / 530	28 / 700	35 / 900	106 / 2682
B-X-PBF-19-17	19 x 17	1673	380	10 / 250	56 / 1414	23 / 575	30 / 750	39 / 1000	98 / 2495
B-X-PBF-19-32	19 x 32	3346	760	14 / 350	71 / 1798	24 / 615	31 / 800	39 / 1000	115 / 2920
B-X-PBF-21-17	21 x 17	1849	420	10 / 250	58 / 1475	24 / 588	32.5 / 825	43 / 1100	103 / 2624
B-X-PBF-21-32	21 x 32	3698	840	14 / 350	74 / 1861	24 / 629	34 / 875	43 / 1100	121 / 3059
B-X-PBF-26-17	26 x 17	2289	520	12 / 300	60 / 1536	24 / 600	35 / 900	47 / 1200	108 / 2752
B-X-PBF-26-32	26 x 32	4579	1040	16 / 400	76 / 1923	25 / 642	37 / 950	47 / 1200	126 / 3197
B-X-PBF-31-17	31 x 17	2730	620	12 / 300	63 / 1588	24 / 600	37 / 950	51 / 1300	112 / 2857
B-X-PBF-31-32	31 x 32	5460	1240	16 / 400	78 / 1973	25 / 642	39 / 1000	51 / 1300	130 / 3302
B-X-PBF-37-17	37 x 17	3258	740	14 / 350	65 / 1655	24 / 616	39 / 1000	55 / 1400	118 / 3007
B-X-PBF-37-32	37 x 32	6516	1480	18 / 450	81 / 2050	26 / 667	41 / 1050	55 / 1400	136 / 3452
B-X-PBF-42-17	42 x 17	3698	840	14 / 350	67 / 1705	24 / 616	41 / 1050	59 / 1500	123 / 3121
B-X-PBF-42-32	42 x 32	7397	1680	20 / 500	83 / 2100	26 / 667	43 / 1100	59 / 1500	140 / 3566
B-X-PBF-48-17	48 x 17	4227	960	18 / 450	70 / 1780	25 / 642	45 / 1150	63 / 1600	129 / 3287
B-X-PBF-48-32	48 x 32	8454	1920	20 / 500	86 / 2175	27 / 693	45 / 1150	63 / 1600	141 / 3587

FRP BASKET STRAINERS SPECIFICATIONS

FRP Piedmont Basket Type Strainers are perfect solutions for preventing relatively bigger particles to pass into the main pipe line in order to protect the expensive and fragile equipment such as pumps, flow meters, nozzles and valves which could stop functioning in case of solid particle accumulation. Primary areas of application, but not limited to, could be Heating and Cooling Systems, Side Stream Filtration Systems, Sewage Lines...

- Housing made in FRP (fiber glass reinforced polyester)
- Baskets made in Superduplex for high corrosion resistance
- EN13121 or ASME X design
- Flow rates from 100 gpm to 15000 gpm
- Pipe sizes from 2” to 24”
- Standard design pressure 150 psi. Higher pressures are available
- Available with wedge wire and mesh liners.
- Swing bolt closure for quick opening available under request
- Davit arm for larger vessels to facilitate the removal of the basket



CHARACTERISTICS

Flow rates: → To be studied particularly for every project
N° elements: → depending on the inputs flow and selectivity.
Elements length: → Estimated flows from 100 to 2500 m³/h.

Housing layout: Vertical
Features: Side inlet / bottom outlet
Davit arm available
Optional: Swing bolts
Ideal: High flows and stand alone
Design pressure: 6 - 10 bar

S-Q
S-X

MATERIALS

- SQ**
1. Shell / Main body: FRP
 3. Support legs: AISI SS 316L
 4. Inlet flange: FRP
 5. Outlet flange: FRP
 6. Air vent: PA
 7. Drains: PA
 9. Tube sheet: PVC / FRP
 11. Handle: Plastic
 12. Lifting lugs: FRP
 14. Main body gaskets: NBR
 16. O-Ring support plate: PVC
 17. Structural plate: FRP
 18. Securing plate: PP
 19. Locking rings: PP
 29. Filter element: AISI SS316
- SX**
1. Shell / Main body: FRP
 2. Closure cover plate: FRP
 3. Support legs: CS + C5HD
 4. Inlet flange: FRP
 5. Outlet flange: FRP
 6. Air vent: FRP
 7. Drains: FRP
 9. Tube sheet: FRP
 11. Handle: Plastic
 12. Lifting lugs: CS + C5HD
 13. Closure bolts: A4
 14. Main body gaskets: EPDM + SS 316L
 15. Davit Arm: SS AISI 316L
 29. Filter element: PP

CARTRIDGE FILTER ELEMENTS

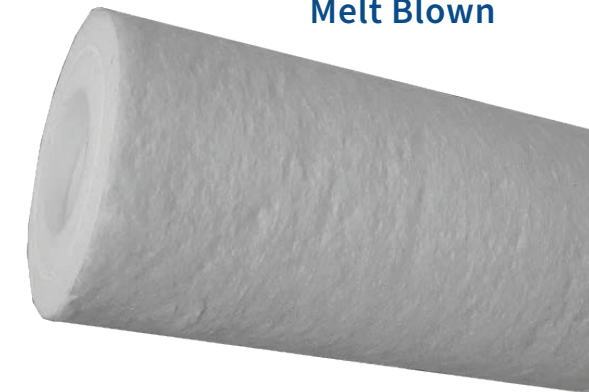
SPECIFICATIONS

FEATURES

- **Piedmont's cartridge filter elements** are manufactured with the fastest, most modern equipment available, giving you the highest quality filter on the market today.
- Two types of cartridge filters available : **String wound & Melt blown** are produced with 100% polypropylene materials.
- Elements are made from 1 to 100 micron in standard or high efficiency (95%) grades, giving you control of your filtration process.
- A multi multi-zone manufacturing process provides true depth filtration.
- End caps are thermally welded onto the cartridge with no use of glue or other binders.
- **BIOSAFETY.** All polypropylene components meet the specifications for biological safety per the USP for Class VIVI-121° C plastics.
- **FDA Listed Materials.** All materials used in construction are listed for food and beverage applications in Title 21 of the U.S. Code of Federal Regulations.
- **NSF Certificate.** Cartridges are certified by NSF of USA to NSF/ANSI standard 61.



String Wound



Melt Blown



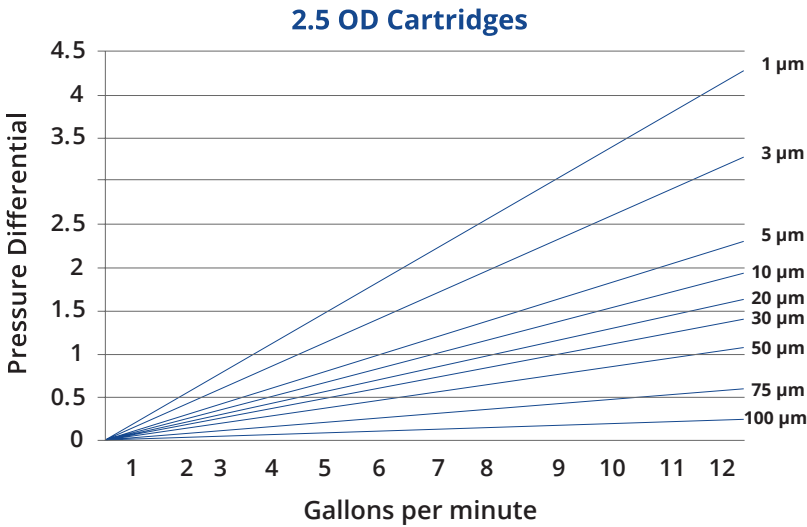
SOE 222



GENERAL SPECIFICATIONS

Micron Ratings	1, 5, 10, 20, 25, 50, 75 & 100
Construction	Polypropylene
Optional Core & End Caps	Polypropylene
Maximum Operating Temperature	179.6 °F / 82 °C
Diameter	O.D. 2.5"
Nominal Lengths	10" to 70"
Maximum Forward Differential Pressure	40 psid (1.7 bar) @ 150° F (66° C) 60 psid (3.4 bar) @ 86° F (30° C)

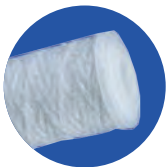
FDA compliance under Title 21 of the code of federal regulations for food contact applications.



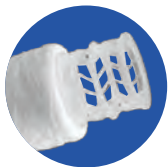
AVAILABLE END CAPS



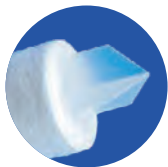
SOE
222/231/226/229



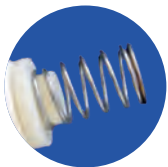
FLAT/END CAP



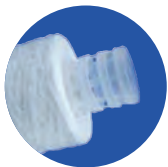
SPRING



FIN/END CAP



SS316L SPRING



EXTENDED CORE

MELT BLOWN / STRING WOUND CARTRIDGES

Nominal Length (inch)	Outer Diameter (mm)	Type	Micron	Material	Approx. filtration surface	Max. Operating temp.	When applicable		
							Element grade	End Cap	Gasket O'ring
10"	63mm = 2.5" (Standard)	DOE (Double Open End)	1	PP	0.05m²	82 °C 179.6 °F	Standard High efficiency Absolute	Fin	Buna (NBR) Silicone EPDM
20"			3					Spring	
30"			5					Flat	
40"	61mm	-	10					SOE 222/231/226/229	
50"	100mm = 6.0"	SOE (Single Open End)	20					SS316L Spring	
70"	114.5mm = 4.5"		25					Extended Core	
80"			50					Custom	

CARTRIDGE FILTERS

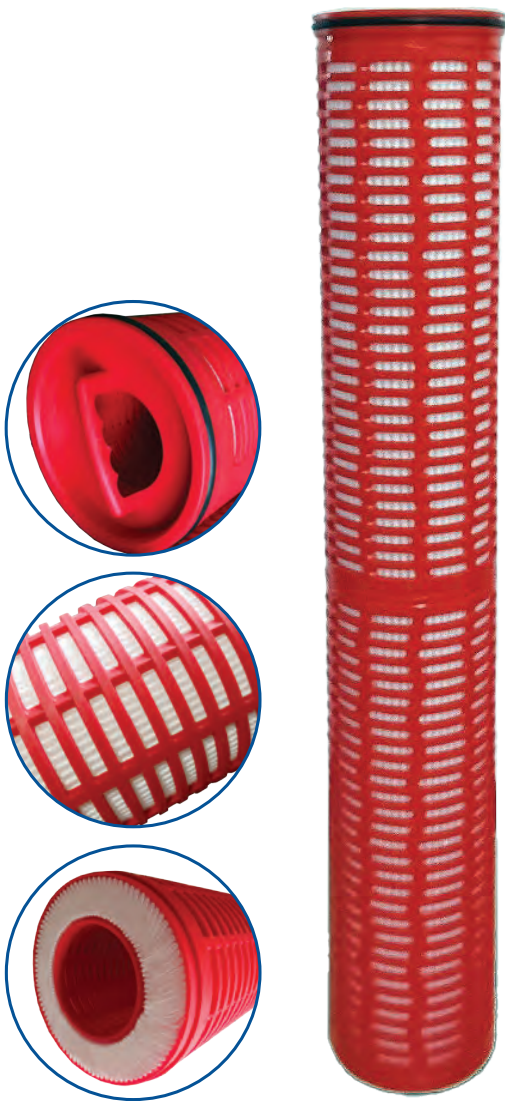
PLEATED HIGH FLOW

SPECIFICATIONS

Piedmont's PHF Cartridges
Pleated high flow (PHF) cartridges feature a 153 mm 6" external diameter, a single open end, and a convenient handle for user-friendly operation. These cartridges are designed with an inside-to-outside flow pattern. The high flow capability of a single cartridge is up to 70m³/h (308 gpm).

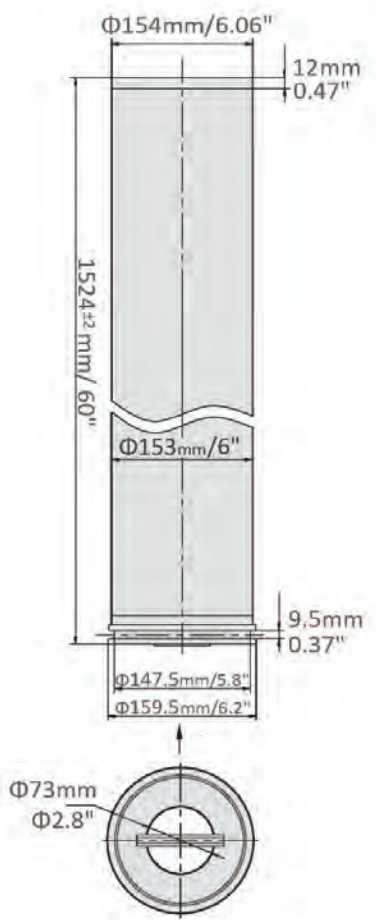
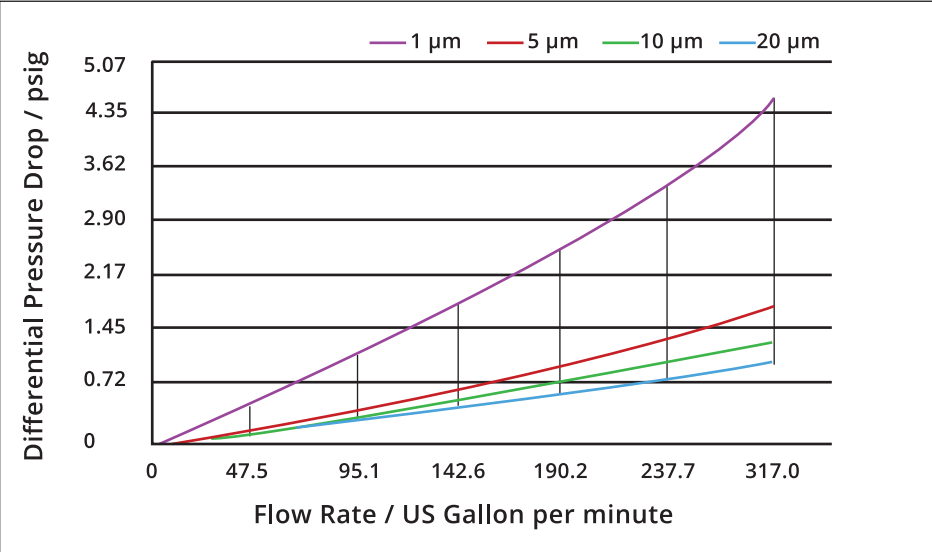
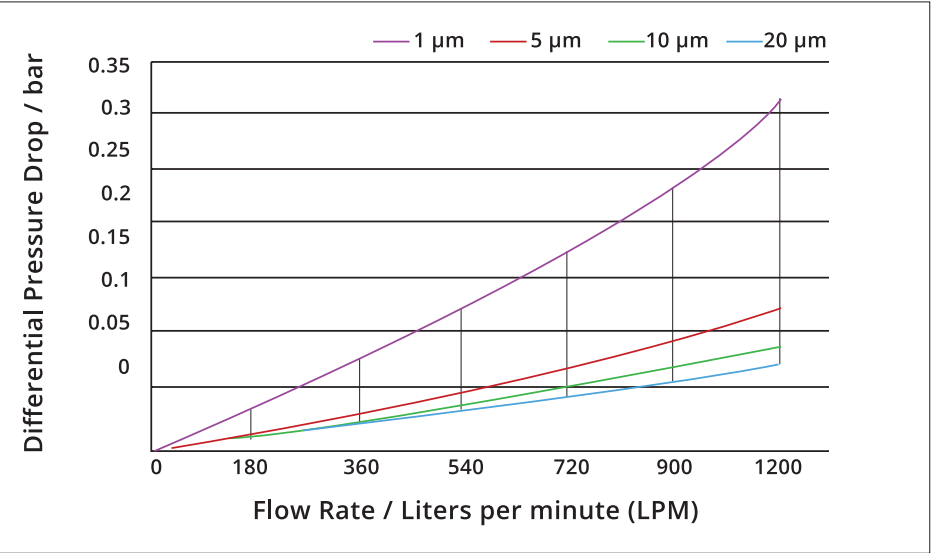
FEATURES & BENEFITS

- Large filtration area, high flow capability, long service life, and high filtration performance.
- Ergonomic handle for easy installation and removal of the cartridge in multi-round filter housings.
- Strengthened outer case for increased durability and resistance against wear and tear.
- Two membrane layers for efficient solids removal, high velocity, reliability, and cost effectiveness.
- Quick replacement process that requires minimal labor.
- Higher maximum differential pressure compared to traditional cartridges.



Construction materials	Filter media	Polypropylene
	Core and shell	Polypropylene
	O-ring	EPDM or NBR (optional)
Working conditions	Max. operating differential pressure	0.34 MPa / 50 psig
	Max. working temperature	(80 °C / 175 °F)
	Recommended design flow range	60 m ³ /h (60") / 40 m ³ /h (40") 260 gpm (60") / 175 gpm (40")

Piedmont's PHF - Pressure Drop vs Flow Rate



REF. MODEL (EPDM seal)	LENGTH	REMOVAL RATINGS
PIE-SOE-PP-PL-40-1	40" / 1024 mm	1 µm
PIE-SOE-PP-PL-40-5		5 µm
PIE-SOE-PP-PL-40-10		10 µm
PIE-SOE-PP-PL-40-20		20 µm
PIE-SOE-PP-PL-60-1	60" / 1524 mm	1 µm
PIE-SOE-PP-PL-60-5		5 µm
PIE-SOE-PP-PL-60-10		10 µm
PIE-SOE-PP-PL-60-20		20 µm



CUSTOMER	PROJECT	COUNTRY	CAPACITY (m³/d)	YEAR
Abengoa	Taweelah	UAE	909 000	2019
Abengoa	Jubail 3A SWRO	KSA	600 000	2020
Acciona	Casablanca	Morocco	559 000	2024
Acciona	Jubail 3B	KSA	570 000	2022
Acciona	Shuqaiq III	KSA	450 000	2019
Acciona	Shuqaiq 1 IWP	KSA	400 000	2021
GS Inima	Shuweihat S4	UAE	318 000	2024
GS Inima	Al Ghubrah	Oman	300 000	2024
Abengoa	Agadir-Chtouka	Morocco	275 000	2018
Acciona	Al Khobar	KSA	250 000	2019
Abengoa	Shuaibah III Exp.2	KSA	250 000	2018
Rawafid	SWCC satellites	KSA	240 000	2019
MMSA	Jorf Wave II Desalination Project	Morocco	222 000	2024
Nijhuis (for Keppel)	Marina East SWRO	Singapore	200 000	2019
Tedagua	Tuas 3	Singapore	200 000	2017
MMSA	Jorf Lasfar	Morocco	180 000	2024
Acciona	Tseung Kwan O SWRO	China	135 000	2020
Aguas Antofagasta	Antofagasta	Chile	105 600	2019
Fisia Italmianti	Dakhla	Morocco	100 000	2024
GS Inima	Barka V	Oman	100 000	2022
Orascom, Metito, Cobra JV	Sfax	Tunisia	100 000	2022
Acciona	Laguna Lake	Philippines	100 000	2021
Al Dayer	Basrah	Iraq	100 000	2020
Metito	El Arish	Egypt	100 000	2020
Tedagua	Ras Al Khaimah	UAE	100 000	2018
JESA Building & Infrastructure	Jorf Lasfar Phase III	Morocco	70 000	2022
Aqualia	Janubio	España	64 800	2017
Inima	Atacama	Chile	56 000	2018
Future Technologies	Emal	UAE	55 680	2017
Degremont/SUEZ	SWRO Barka IV	Oman	55 440	2017
Va Tech	Zarat	Tunisia	50 000	2020
Metito	Barge	KSA	50 000	2020
Abengoa	Sousse	Tunisia	50 000	2020
Antofagasta	La Chimba	Chile	50 000	2018
SEPCO	Jebel Ali Aluminium Smelter	UAE	41 000	2024
Abengoa	Dubai	UAE	41 000	2019
Osmollo	Unknown	UAE	40 320	2018
Nijhuis	Quebrada Blanca	Chile	40 000	2018
Cobra-Tedagua	Duqum	Oman	36 000	2019
Veolia	Safaniyah (Aramco)	Saudi	33 600	2018
Osmosistemi	Marocco	Italy	31 600	2018
Alpha Utilities	Alpha Utilities ext	UAE	27 840	2017
H2O Source	Sandy Lane SWRO	Barbados	25 920	2017
Cobra-Tedagua	Talara	Perú	22 600	2019
UET	Unknown	USA	22 600	2018
Osmollo	SWCC Retrofit	Saudi	20 160	2018
City of Moss Point	Moss Point WTP	USA	19 200	2018
PWT	Unknown	South Korea	19 200	2018
Streamline	Unknown	USA	17 280	2018
Advanced Equipment / Services	Unknown	USA	16 704	2018
Wetico	Boarder Guard Jeddah	Saudi	15 024	2017
Seta PH Technology	Refinería Duque de Caxias - PETROBRAS	Spain	15 000	2023
TSG	Amanyara	USA	13 440	2017
Metito	TRSDC	KSA	12 500	2020
Hitachi	Pasay Water Recycling Plant	Philippines	12 000	2023
Relix	Unknown	Chile	11 328	2018
AMV	Unknown	Austria	11 328	2018
H2O Innovation	Ste-Marthe	Canada	10 080	2018
Gulf Water Treatment	Unknown	UAE	10 080	2018
Fluence	Mayotte	France	10 000	2024



AMERICAS | EUROPE | MIDDLE EAST & AFRICA | ASIA-PACIFIC



WORLDWIDE PRESENCE

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