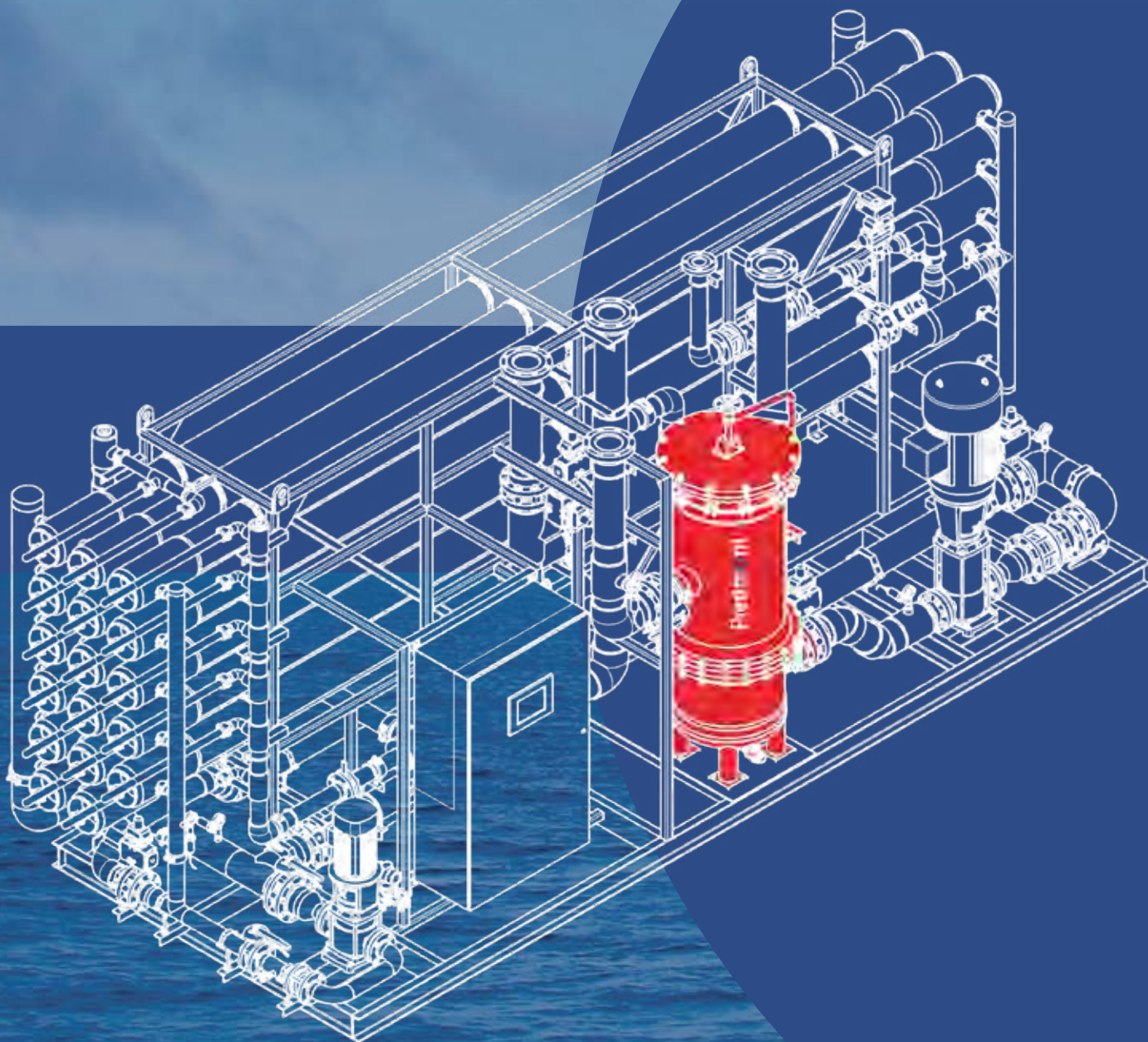


Piedmont

FRP CARTRIDGE FILTER HOUSING



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.



OUR STANDARD FILTER HOUSINGS ARE DESIGNED WITH GROOVED CONNECTIONS. FLANGE OPTION AVAILABLE.

Features / Benefits

- Designed to ASME-X/EN13121 / Ad Merkblatt / BS 4994/ AS1210 code
- Design temperatures up to 90 °C / 194 °F
- Design pressure up to 10 bar / 150 psi
- Horizontal and vertical configuration available
- Internal lining of vinyl ester Derakane 411, FDA/NSF compliant
- Davit arm and swing bolts available
- Coupling or flanged connection available
- Complete FRP filter housing range is NSF/ANSI 61-G & 372 compliant



CARTRIDGES

(& CONNECTIONS)



Standard Optional

Reinforced, state of the art internal cartridge support rods made out of FRP and polyamide material with a knife-edged sealing for Double Open End (DOE) cartridge connection.

Suitable for both string wound and melt-blown cartridges

Outside to inside flow

Internal support rods

- Larger open flow area resulting in lower pressure drop
- High-speed assembly nut for easy and fast cartridge replacement
- Anti-rotation notch ensuring complete rod will not rotate when removing upper nut
- Careful selection of materials allowing for design temperatures of 90°C
- Increased mechanical resistance by improved manufacturing process
- Absence of glue
- Attractive design



Lower DOE
knife-edged
cartridge seat

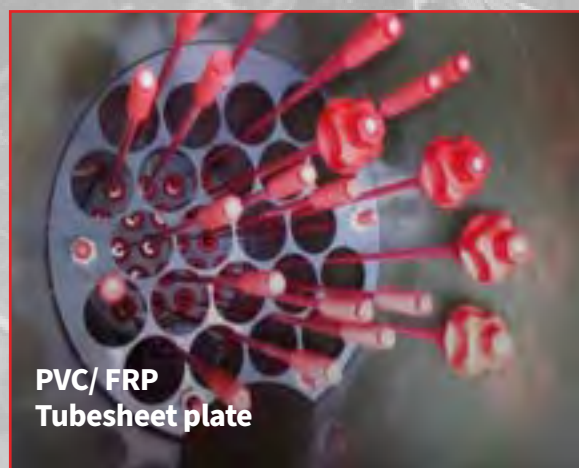


Upper DOE
knife-edged
high speed nut



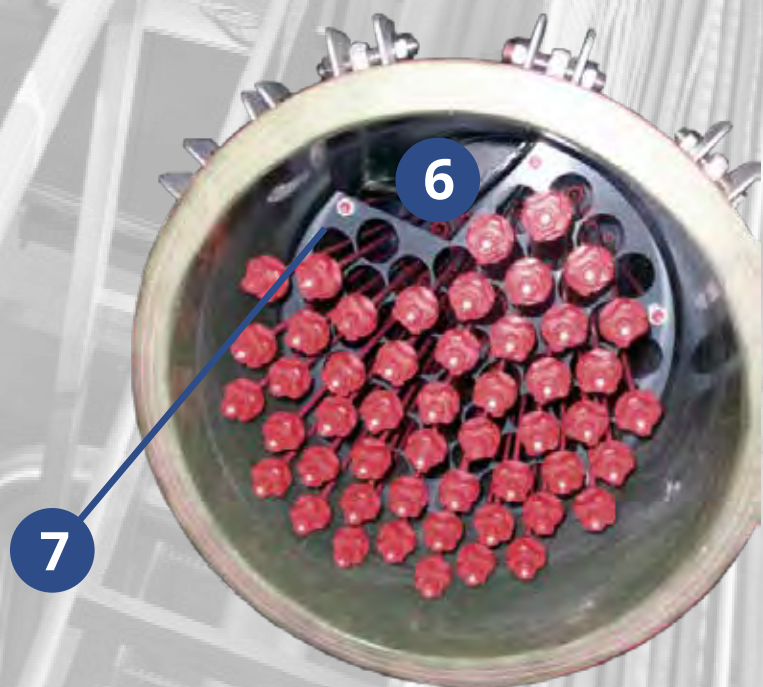
SOE connections available
Spring type connection also available

INTERNAL & EXTERNAL FEATURES

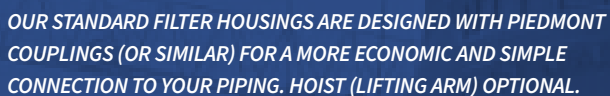


MATERIALS LISTING

1. FRP rod
2. Plastic over injection parts in PA + 30% FRP
3. Commercial PA + 30% FRP white nut
4. EPDM gaskets for support rod sealing
5. 2 x commercial PA + 30% FRP black nut
6. Deflector plate (FRP)
7. PVC/PP material Internal guide plate
8. FRP Housing
 - Vinyl Ester resin chemical barrier (FDA & NSF compliant)
 - Isophthalic resin structural layer
9. EPDM gaskets for main flanges
10. Support legs can be in:
 - FRP
 - Carbon steel painted - ISO 12944 C5M (areas with high salinity)
 - Stainless steel (A4 or A2)
11. Inlet/outlet grooved connection (Flange available)
12. Hoist (lifting arm) - Stainless steel on larger models only
13. Stainless steel bolts (A4 or A2), nuts and washers - X-Style only



Lifting ear thk10 Stainless steel
Qte: 02
270° 90°



Q

8

QH

10

XS

12

XSH

13

XB

15

HVQX

17

HHQX

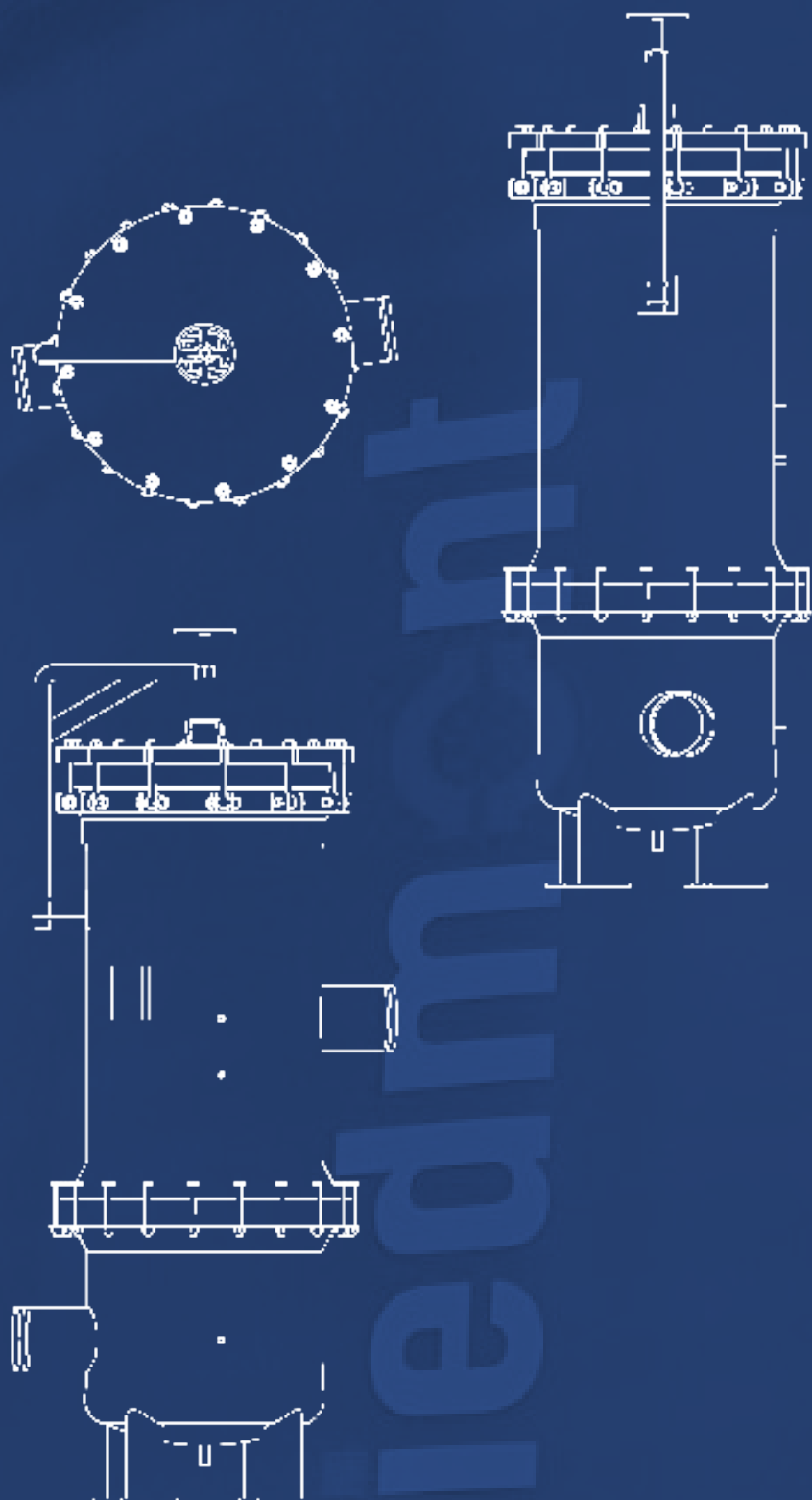
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BQX

21

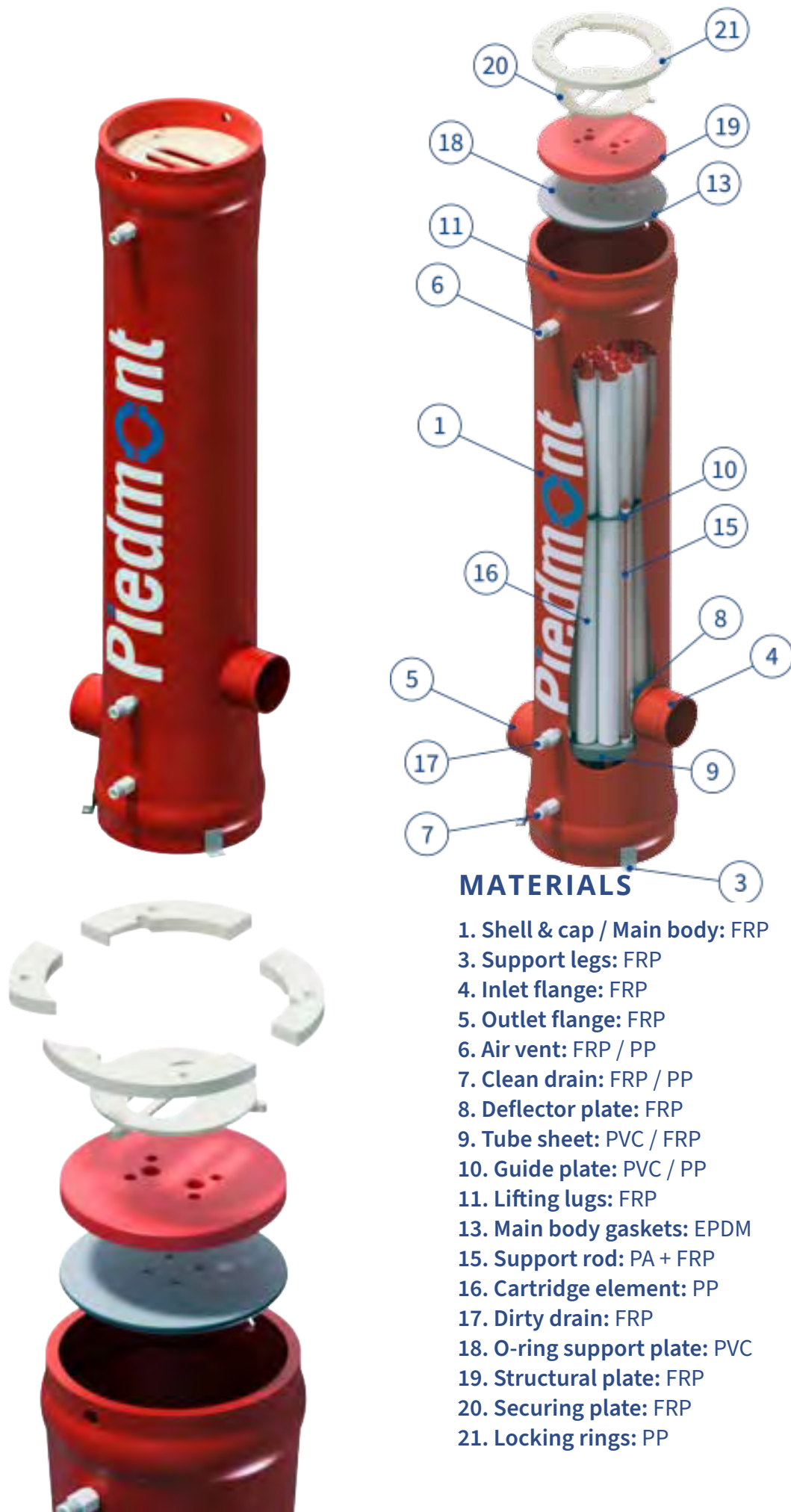
SQX

23



Q STYLE

SPECIFICATIONS



MATERIALS

1. Shell & cap / Main body: FRP
3. Support legs: FRP
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP / PP
7. Clean drain: FRP / PP
8. Deflector plate: FRP
9. Tube sheet: PVC / FRP
10. Guide plate: PVC / PP
11. Lifting lugs: FRP
13. Main body gaskets: EPDM
15. Support rod: PA + FRP
16. Cartridge element: PP
17. Dirty drain: FRP
18. O-ring support plate: PVC
19. Structural plate: FRP
20. Securing plate: FRP
21. Locking rings: PP

CHARACTERISTICS

Flow rates: 6 - 550 m³/h

Nº elements: 3 - 70

Elements length: 30/40/50/70

Cartridge flow: Outside - Inside

Housing layout: Vertical

Features: Quick opening, no bolts

Ideal: Modular / skid / container

Design pressure: 6/10 bar

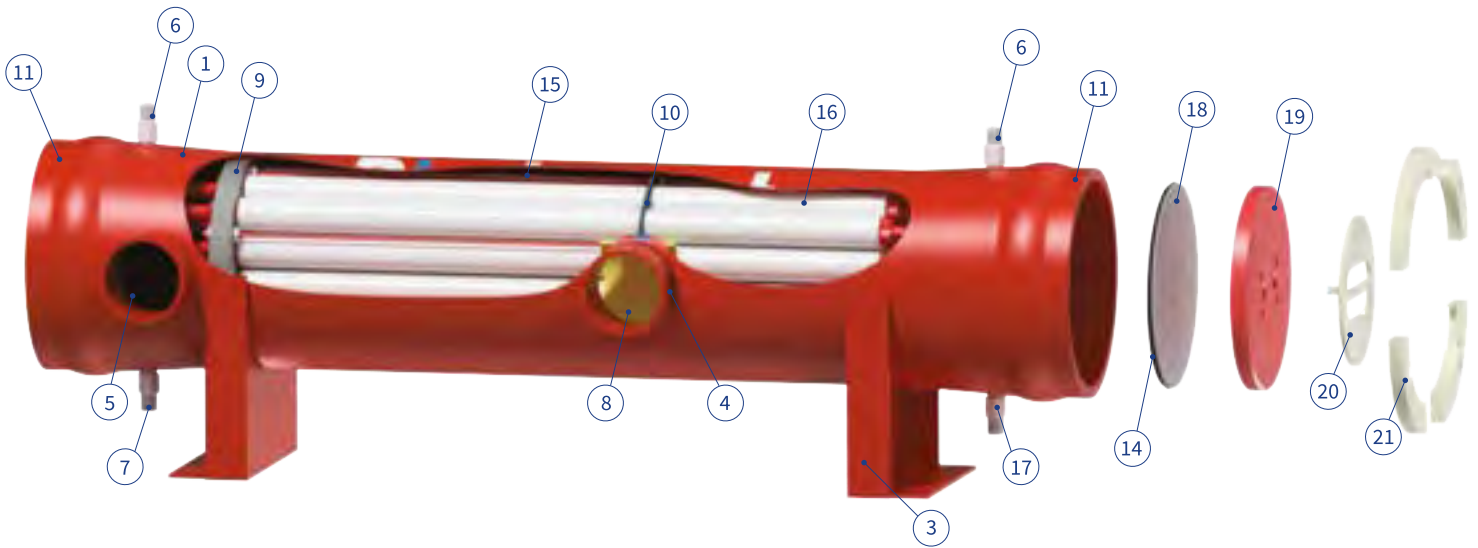


Q-STYLE | Quick Opening Cartridge Filter Housing

Filter Housing model reference	Cartridges	Flow rates: 3gpm 0,68 m³/h/10 "	Flow rates: 4gpm 0,91 m³/h/10 "	Flow rates: 5gpm 1,12 m³/h/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-3-30	3 x 30	27 6	36 8	45 10	2 50	39 997	4 104	6 150	42 1074	6 155
Q-PCF-3-40	3 x 40	36 8	48 11	60 13	2 50	49 1251	4 104	6 150	52 1328	6 155
Q-PCF-3-50	3 x 50	45 10	60 14	75 17	2 50	59 1505	4 104	6 150	62 1582	6 155
Q-PCF-5-30	5 x 30	45 10	60 14	75 17	2 50	39 997	4 104	8 200	42 1074	7 180
Q-PCF-5-40	5 x 40	60 14	80 18	100 22	2 50	49 1251	4 104	8 200	52 1328	7 180
Q-PCF-5-50	5 x 50	75 17	100 23	125 28	2 50	59 1505	4 104	8 200	62 1582	7 180
Q-PCF-6-30	6 x 30	54 12	72 16	90 20	2 50	20 518	10 250	10 250	61 1559	8 210
Q-PCF-6-40	6 x 40	72 16	96 22	120 27	2 50	20 518	10 250	10 250	71 1813	8 210
Q-PCF-6-50	6 x 50	90 20	120 27	150 34	3 80	20 518	10 250	10 250	81 2067	9 235
Q-PCF-12-30	12 x 30	108 24	144 33	180 40	3 80	24 618	11 289	12 300	61 1559	10 260
Q-PCF-12-40	12 x 40	144 33	192 44	240 54	3 80	24 618	11 289	12 300	71 1813	10 260
Q-PCF-12-50	12 x 50	180 41	240 55	300 67	4 100	24 618	11 289	12 300	81 2067	10 260
Q-PCF-22-30	22 x 30	198 45	264 60	330 74	4 100	20 497	10 254	16 400	61 1559	12 310
Q-PCF-22-40	22 x 40	264 60	352 80	440 99	4 100	20 497	10 254	16 400	71 1813	12 310
Q-PCF-22-50	22 x 50	330 75	440 100	550 123	6 150	23 583	10 254	16 400	81 2067	12 310
Q-PCF-35-30	35 x 30	315 71	420 96	525 118	6 150	21 533	10 255	20 500	61 1559	14 360
Q-PCF-35-40	35 x 40	420 95	560 127	700 157	6 150	21 533	10 255	20 500	71 1813	14 360
Q-PCF-35-50	35 x 50	525 119	700 159	875 196	6 150	21 533	10 255	20 500	81 2067	14 360
Q-PCF-50-30	50 x 30	450 102	600 137	750 168	6 150	25 628	12 299	24 600	66 1679	16 410
Q-PCF-50-40	50 x 40	600 136	800 182	1000 224	6 150	25 628	12 299	24 600	76 1933	16 410
Q-PCF-50-50	50 x 50	750 170	1000 228	1250 280	8 200	25 628	11 292	24 600	86 2187	16 410
Q-PCF-70-30	70 x 30	630 143	840 191	1050 235	8 200	27 678	14 350	28 700	70 1769	20 500
Q-PCF-70-40	70 x 40	840 190	1120 255	1400 314	8 200	27 678	14 350	28 700	80 2023	20 500
Q-PCF-70-50	70 x 50	1050 238	1400 319	1750 392	8 200	27 678	14 350	28 700	90 2277	20 500
Q-PCF-70-70	70 x 70	1470 333	1960 446	2450 549	10 250	27 698	13 325	28 700	110 2785	20 500

QH STYLE

SPECIFICATIONS



MATERIALS

- 1. Shell & cap / Main body: FRP
- 3. Support legs: SS316
- 4. Inlet flange: FRP
- 5. Outlet flange: FRP
- 6. Air vent: FRP / PP
- 7. Clean drain: FRP / PP
- 8. Deflector plate: FRP
- 9. Tube sheet: PVC / FRP
- 10. Guide plate: PVC / PP
- 11. Lifting lugs: FRP
- 13. Main body gaskets: EPDM
- 15. Support rod: PA + FRP
- 16. Cartridge element: PP
- 17. Dirty drain: FRP
- 18. O-ring support plate: PVC
- 19. Structural plate: FRP
- 20. Securing plate: FRP
- 21. Locking rings: PP

CHARACTERISTICS

Flow rates: 6 - 550 m³/h

N° elements: 3 - 70

Elements length: 30/40/50/70

Cartridge flow: Outside - Inside

Housing layout: Horizontal

Features: Quick opening, no bolts

Ideal: Modular / skid / container

Design pressure: 6/10 bar

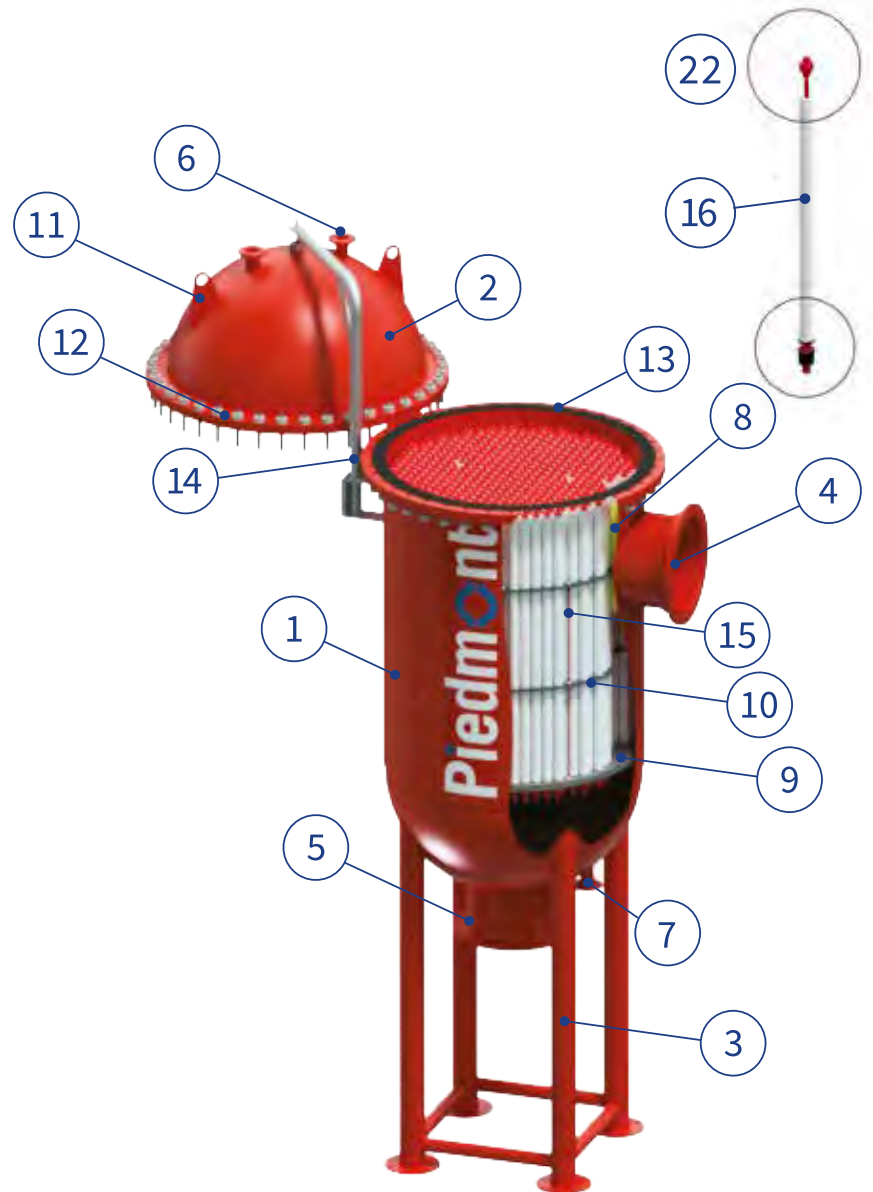


QH-STYLE | Quick Opening Cartridge Filter Housing

Filter Housing model reference	Cartridges	Flow rates: 3gpm 0,68 m³/h/10 "	Flow rates: 4gpm 0,91 m³/h/10	Flow rates: 5gpm 1,12 m³/h/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-3-30	3 x 30	27 6	36 8	45 10	2 40	39 997	4 104	6 150	42 1074	6 155	8 215
QH-PCF-3-40	3 x 40	36 8	48 11	60 13	2 40	49 1251	4 104	6 150	52 1328	6 155	8 215
QH-PCF-3-50	3 x 50	45 10	60 14	75 17	2 50	59 1505	4 104	6 150	62 1582	6 155	8 215
QH-PCF-5-30	5 x 30	45 10	60 14	75 17	2 50	39 997	4 104	8 200	42 1074	7 180	9 240
QH-PCF-5-40	5 x 40	60 14	80 18	100 22	2 80	49 1251	4 104	8 200	52 1328	7 180	9 240
QH-PCF-5-50	5 x 50	75 17	100 23	125 28	2 80	59 1505	4 104	8 200	62 1582	7 180	9 240
QH-PCF-6-30	6 x 30	54 12	72 16	90 20	2 50	20 518	10 250	10 250	61 1559	8 210	10 265
QH-PCF-6-40	6 x 40	72 16	96 22	120 27	2 80	20 518	10 250	10 250	71 1813	8 210	10 265
QH-PCF-6-50	6 x 50	90 20	120 27	150 34	3 80	20 518	10 250	10 250	81 2067	9 235	10 265
QH-PCF-12-30	12 x 30	108 24	144 33	180 40	3 80	24 618	11 289	12 300	61 1559	10 260	11 290
QH-PCF-12-40	12 x 40	144 33	192 44	240 54	3 80	24 618	11 289	12 300	71 1813	10 260	11 290
QH-PCF-12-50	12 x 50	180 41	240 55	300 67	4 100	24 618	11 289	12 300	81 2067	10 260	11 290
QH-PCF-22-30	22 x 30	198 45	264 60	330 74	4 100	20 497	10 254	16 400	61 1559	12 310	13 340
QH-PCF-22-40	22 x 40	264 60	352 80	440 99	4 125	20 497	10 254	16 400	71 1813	12 310	13 340
QH-PCF-22-50	22 x 50	330 75	440 100	550 123	6 125	23 583	10 254	16 400	81 2067	12 310	13 340
QH-PCF-35-30	35 x 30	315 71	420 96	525 118	6 125	21 533	10 255	20 500	61 1559	14 360	15 390
QH-PCF-35-40	35 x 40	420 95	560 127	700 157	6 150	21 533	10 255	20 500	71 1813	14 360	15 390
QH-PCF-35-50	35 x 50	525 119	700 159	875 196	6 200	21 533	10 255	20 500	81 2067	14 360	15 390
QH-PCF-50-30	50 x 30	450 102	600 137	750 168	6 150	25 628	12 299	24 600	66 1679	16 410	17 440
QH-PCF-50-40	50 x 40	600 136	800 182	1000 224	6 200	25 628	12 299	24 600	76 1933	16 410	17 440
QH-PCF-50-50	50 x 50	750 170	1000 228	1250 280	8 200	25 628	11 292	24 600	86 2187	16 410	17 440
QH-PCF-70-30	70 x 30	630 143	840 191	1050 235	8 200	27 678	14 350	28 700	70 1769	20 500	19 490
QH-PCF-70-40	70 x 40	840 190	1120 255	1400 314	8 200	27 678	14 350	28 700	80 2023	20 500	19 490
QH-PCF-70-50	70 x 50	1050 238	1400 319	1750 392	8 250	27 678	14 350	28 700	90 2277	20 500	19 490
QH-PCF-70-70	70 x 70	1470 333	1960 446	2450 549	10 300	27 698	13 325	28 700	110 2785	20 500	18 450

XS STYLE

SPECIFICATIONS



MATERIALS

1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: SS316
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Clean drain: FRP
8. Deflector plate: FRP
9. Tube sheet: PVC / FRP
10. Guide plate: PVC / PP
11. Lifting lugs: FRP
12. Closure bolts: SS 316
13. Main body gaskets: EPDM
14. Hoist (lifting arm): SS 316
15. Support rod: PA + FRP
16. Cartridge element: PP
22. Internal support rod: FRP + PA

CHARACTERISTICS

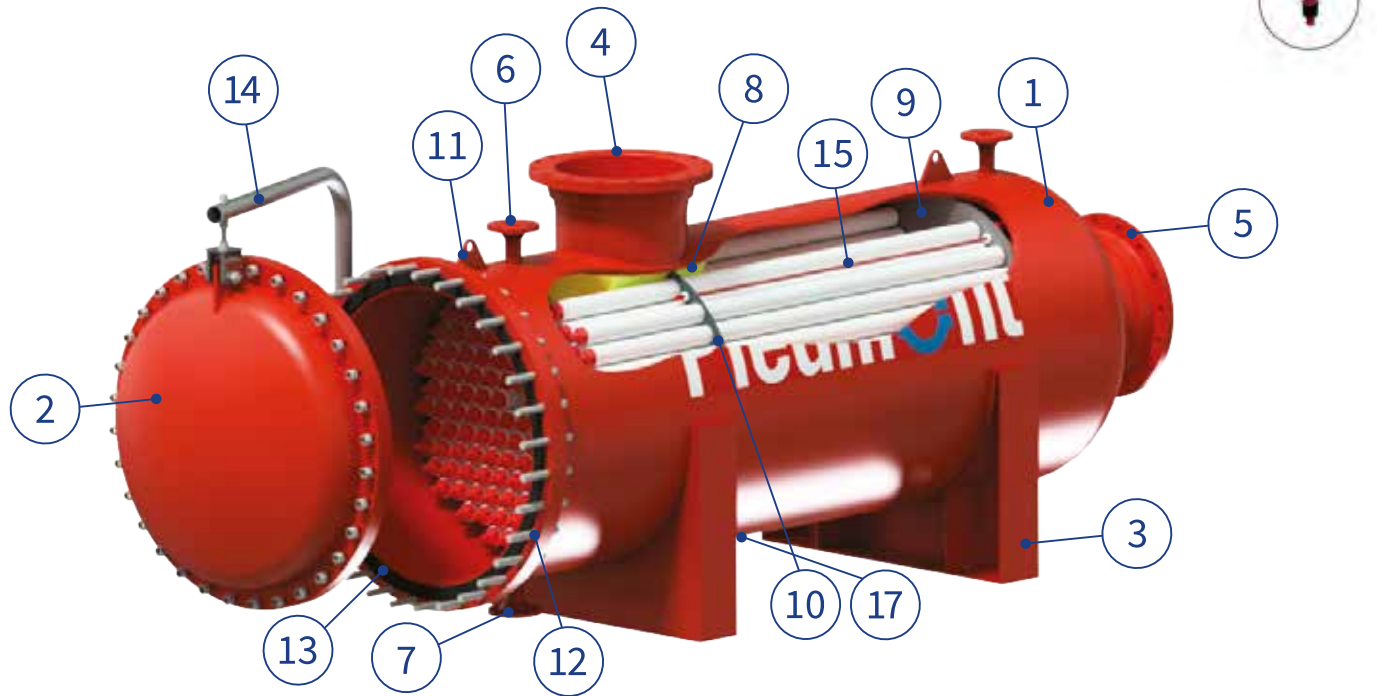
Flow rates: 245 - 3200 m³/h
 N° elements: 90 - 410
 Elements length: 30/40/50/70
 Cartridge flow: Outside - Inside
 Housing layout: Vertical
 Features: Side inlet / bottom outlet
 Davit arm available
 Optional: Swing bolts
 Ideal: High flows and stand alone
 Design pressure: 6/10 bar



XS-STYLE Side Inlet Higher Flow Cartridge Filter Housing										
Filter Housing model reference	Cartridges	Flow rates: 3gpm 0,68 m ³ /h/10 "	Flow rates: 4gpm 0,91 m ³ /h/10	Flow rates: 5gpm 1,12 m ³ /h/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-90-40	90 x 40	1080 245	1440 328	1800 403	10 250	72 1822	27 685	31 800	110 2791	25 640
XS-PCF-90-50	90 x 50	1350 306	1800 410	2250 504	10 250	82 2076	27 685	31 800	120 3045	25 640
XS-PCF-118-40	118 x 40	1416 321	1888 430	2360 529	10 250	73 1843	27 685	35 900	115 2911	28 700
XS-PCF-118-50	118 x 50	1770 401	2360 537	2950 661	12 300	87 2212	31 799	35 900	129 3280	28 700
XS-PCF-118-70	118 x 70	2478 562	3304 752	4130 925	14 350	111 2821	35 900	35 900	153 3889	28 700
XS-PCF-150-40	150 x 40	1800 408	2400 546	3000 672	12 300	78 1987	31 799	39 1000	122 3099	30 750
XS-PCF-150-50	150 x 50	2250 510	3000 683	3750 840	12 300	88 2241	31 799	39 1000	132 3353	30 750
XS-PCF-150-70	150 x 70	3150 714	4200 956	5250 1176	14 350	112 2850	35 900	39 1000	156 3963	30 750
XS-PCF-180-40	180 x 40	2160 490	2880 655	3600 806	12 300	81 2065	31 799	43 1100	126 3203	33 850
XS-PCF-180-50	180 x 50	2700 612	3600 819	4500 1008	14 350	95 2420	35 900	43 1100	140 3558	33 850
XS-PCF-180-70	180 x 70	3780 857	5040 1147	6300 1411	16 400	120 3036	40 1008	43 1100	164 4174	33 850
XS-PCF-215-40	215 x 40	2580 585	3440 783	4300 963	14 350	83 2112	35 900	47 1200	129 3275	34 875
XS-PCF-215-50	215 x 50	3225 731	4300 978	5375 1204	14 350	93 2366	35 900	47 1200	139 3529	34 875
XS-PCF-215-70	215 x 70	4515 1023	6020 1370	7525 1686	16 400	117 2982	40 1008	47 1200	163 4145	34 875
XS-PCF-260-40	260 x 40	3120 707	4160 946	5200 1165	14 350	83 2112	35 900	51 1300	129 3286	36 925
XS-PCF-260-50	260 x 50	3900 884	5200 1183	6500 1456	16 400	97 2474	40 1008	51 1300	144 3648	36 925
XS-PCF-260-70	260 x 70	5460 1238	7280 1656	9100 2038	18 450	121 3085	44 1111	51 1300	168 4259	36 925
XS-PCF-295-40	295 x 40	3540 802	4720 1074	5900 1322	16 400	93 2354	40 1008	55 1400	150 3804	43 1100
XS-PCF-295-50	295 x 50	4425 1003	5900 1342	7375 1652	16 400	103 2608	40 1008	55 1400	160 4058	43 1100
XS-PCF-295-70	295 x 70	6195 1404	8260 1879	10325 2313	20 500	131 3319	48 1211	55 1400	188 4769	43 1100
XS-PCF-335-40	335 x 40	4020 911	5360 1219	6700 1501	16 400	93 2364	40 1008	59 1500	150 3800	45 1150
XS-PCF-335-50	335 x 50	5025 1139	6700 1524	8375 1876	18 450	107 2721	44 1111	59 1500	164 4157	45 1150
XS-PCF-335-70	335 x 70	7035 1595	9380 2134	11725 2626	20 500	131 3329	48 1211	59 1500	188 4765	45 1150
XS-PCF-410-40	410 x 40	4920 1115	6560 1492	8200 1837	18 450	119 3024	44 1111	63 1600	185 4696	45 1150
XS-PCF-410-50	410 x 50	6150 1394	8200 1866	10250 2296	20 500	132 3353	48 1211	63 1600	198 5040	45 1150
XS-PCF-410-70	410 x 70	8610 1952	11480 2612	14350 3214	24 600	160 4073	54 1363	63 1600	229 5820	45 1150

XSH STYLE

SPECIFICATIONS



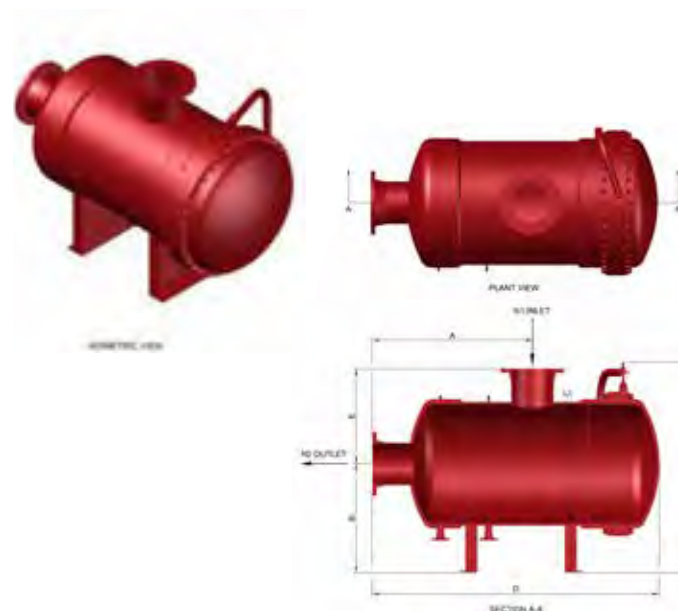
MATERIALS

1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: Carbon Steel painted
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Clean drain: FRP
8. Deflector plate: FRP
9. Tube sheet: PVC / FRP
10. Guide plate: PVC / PP
11. Lifting lugs: FRP
12. Closure bolts: SS 316
13. Main body gaskets: EPDM
14. Hoist (lifting arm): SS 316
15. Support rod: PA + FRP
16. Cartridge element: PP
17. Dirty drain: FRP



CHARACTERISTICS

Flow rates: 245 - 3200 m³/h
 N° elements: 90 - 410
 Elements length: 30/40/50/70
 Cartridge flow: Outside - Inside
 Housing layout: Horizontal
 Features: Side inlet / bottom outlet
 Davit arm available
 Optional: Swing bolts
 Ideal: High flows and stand alone
 Design pressure: 6/10 bar



XSH-STYLE Side Inlet Higher Flow Cartridge Filter Housing											
Filter Housing model reference	Cartridges	Flow rates: 3gpm 0,68 m³/h/10 "	Flow rates: 4gpm 0,91 m³/h/10	Flow rates: 5gpm 1,12 m³/h/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										
XSH-PCF-90-40	90 x 40	1080 245	1440 328	1800 403	10 250	52 1316	24 612	31 800	79 2019	25 640	49 1252
XSH-PCF-90-50	90 x 50	1350 306	1800 410	2250 504	10 250	52 1316	24 612	31 800	89 2273	25 640	49 1252
XSH-PCF-118-40	118 x 40	1416 321	1888 430	2360 529	10 250	46 1159	26 668	35 900	79 2013	28 700	54 1368
XSH-PCF-118-50	118 x 50	1770 401	2360 537	2950 661	12 300	56 1412	26 668	35 900	89 2267	28 700	54 1368
XSH-PCF-118-70	118 x 70	2478 562	3304 752	4130 925	14 350	76 1921	26 669	35 900	109 2775	28 700	54 1369
XSH-PCF-150-40	150 x 40	1800 408	2400 546	3000 672	12 300	47 1188	28 722	39 1000	83 2109	30 750	58 1472
XSH-PCF-150-50	150 x 50	2250 510	3000 683	3750 840	12 300	57 1442	28 722	39 1000	93 2363	30 750	58 1472
XSH-PCF-150-70	150 x 70	3150 714	4200 956	5250 1176	14 350	77 1950	28 722	39 1000	113 2871	30 750	58 1472
XSH-PCF-180-40	180 x 40	2160 490	2880 655	3600 806	12 300	50 1266	30 772	43 1100	87 2199	33 850	64 1622
XSH-PCF-180-50	180 x 50	2700 612	3600 819	4500 1008	14 350	60 1520	30 772	43 1100	97 2453	33 850	64 1622
XSH-PCF-180-70	180 x 70	3780 857	5040 1147	6300 1411	16 400	80 2028	30 772	43 1100	117 2961	33 850	64 1622
XSH-PCF-215-40	215 x 40	2580 585	3440 783	4300 963	14 350	48 1212	32 821	47 1200	86 2184	34 875	67 1696
XSH-PCF-215-50	215 x 50	3225 731	4300 978	5375 1204	14 350	58 1466	32 821	47 1200	96 2438	34 875	67 1696
XSH-PCF-215-70	215 x 70	4515 1023	6020 1370	7525 1686	16 400	78 1974	32 821	47 1200	116 2946	34 875	67 1696
XSH-PCF-260-40	260 x 40	3120 707	4160 946	5200 1165	14 350	48 1213	34 871	51 1300	86 2196	36 925	71 1796
XSH-PCF-260-50	260 x 50	3900 884	5200 1183	6500 1456	16 400	58 1467	34 871	51 1300	96 2450	36 925	71 1796
XSH-PCF-260-70	260 x 70	5460 1238	7280 1656	9100 2038	18 450	78 1975	34 871	51 1300	116 2958	36 925	71 1796
XSH-PCF-295-40	295 x 40	3540 802	4720 1074	5900 1322	16 400	55 1406	39 984	55 1400	97 2475	43 1100	82 2084
XSH-PCF-295-50	295 x 50	4425 1003	5900 1342	7375 1652	16 400	65 1660	39 984	55 1400	107 2729	43 1100	82 2084
XSH-PCF-295-70	295 x 70	6195 1404	8260 1879	10325 2313	20 500	85 2168	39 984	55 1400	127 3237	43 1100	82 2084
XSH-PCF-335-40	335 x 40	4020 911	5360 1219	6700 1501	16 400	53 1356	43 1084	59 1500	98 2486	45 1150	88 2234
XSH-PCF-335-50	335 x 50	5025 1139	6700 1524	8375 1876	18 450	63 1610	43 1084	59 1500	108 2740	45 1150	88 2234
XSH-PCF-335-70	335 x 70	7035 1595	9380 2134	11725 2626	20 500	83 2118	43 1084	59 1500	128 3252	45 1150	88 2234
XSH-PCF-410-40	410 x 40	4920 1115	6560 1492	8200 1837	18 450	75 1913	46 1176	63 1600	128 3256	45 1150	92 2326
XSH-PCF-410-50	410 x 50	6150 1394	8200 1866	10250 2296	20 / 500	85 / 2167	46 / 1176	63 / 1600	138 / 3510	45 / 1150	92 / 2326
XSH-PCF-410-70	410 x 70	8610 / 1952	11480 / 2612	14350 / 3214	24 / 600	105 / 2675	46 / 1176	63 / 1600	158 / 4018	45 / 1150	92 / 2326

XB STYLE

SPECIFICATIONS



MATERIALS

1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: FRP
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP
7. Drain: FRP
8. Deflector plate: FRP
9. Tube sheet: PVC / FRP
10. Guide plate: PVC / PP
11. Lifting lugs: FRP
12. Closure bolts: SS 316
13. Main body gaskets: EPDM
15. Support rod: PA + FRP
16. Cartridge element: PP
22. Internal support rod : FRP + PA

Flow rates: 275 - 3400 m³/h

Nº elements: 101 - 410

Elements length: 30/40/50/70

Cartridge flow: Outside - Inside

Housing layout: Vertical

Features: Bottom Inlet / Top Outlet

Davit arm available

Cartridge removal
as package

Optional: Swing bolts

Ideal: High flows and stand alone

Design pressure: 6/10 bar



XB-STYLE Bottom Inlet Higher Flow Cartridge Filter Housing								
Filter Housing model reference	Cartridges	Flow rates: 3gpm 0,68 m³/h/10 "	Flow rates: 4gpm 0,91 m³/h/10	Flow rates: 5gpm 1,12 m³/h/10	N1 N2 (inch mm)	A (inch mm)	B (inch mm)	C (inch mm)
	Qty. x Length							
XB-PCF-101-40	101 x 40	1212 275	1616 368	2020 452	10 250	27 685	31 800	112 2857
XB-PCF-101-50	101 x 50	1515 343	2020 460	2525 566	10 250	27 685	31 800	122 3111
XB-PCF-125-40	125 x 40	1500 340	2000 455	2500 560	10 250	27 685	35 900	117 2964
XB-PCF-125-50	125 x 50	1875 425	2500 569	3125 700	10 250	27 685	35 900	127 3218
XB-PCF-125-70	125 x 70	2625 595	3500 796	4375 980	12 300	35 900	35 900	151 3841
XB-PCF-160-40	160 x 40	1920 435	2560 582	3200 717	12 300	31 799	39 1000	125 3178
XB-PCF-160-50	160 x 50	2400 544	3200 728	4000 896	12 300	31 799	39 1000	135 3432
XB-PCF-160-70	160 x 70	3360 762	4480 1019	5600 1254	14 350	35 900	39 1000	159 4041
XB-PCF-195-40	195 x 40	2340 530	3120 710	3900 874	12 300	31 799	43 1100	131 3331
XB-PCF-195-50	195 x 50	2925 663	3900 887	4875 1092	14 350	35 900	43 1100	145 3686
XB-PCF-195-70	195 x 70	4095 928	5460 1242	6825 1529	16 400	40 1008	43 1100	169 4302
XB-PCF-240-40	240 x 40	2880 653	3840 874	4800 1075	14 350	35 900	47 1200	134 3397
XB-PCF-240-50	240 x 50	3600 816	4800 1092	6000 1344	16 400	40 1008	47 1200	148 3759
XB-PCF-240-70	240 x 70	5040 1142	6720 1529	8400 1882	18 450	44 1111	47 1200	172 4370
XB-PCF-280-40	280 x 40	3360 762	4480 1019	5600 1254	14 350	35 900	51 1300	134 3414
XB-PCF-280-50	280 x 50	4200 952	5600 1274	7000 1568	16 400	40 1008	51 1300	149 3776
XB-PCF-280-70	280 x 70	5880 1333	7840 1784	9800 2195	20 500	48 1211	51 1300	177 4487
XB-PCF-315-40	315 x 40	3780 857	5040 1147	6300 1411	16 450	40 1008	55 1400	154 3920
XB-PCF-315-50	315 x 50	4725 1071	6300 1433	7875 1764	18 450	44 1111	55 1400	163 4139
XB-PCF-315-70	315 x 70	6615 1499	8820 2007	11025 2470	20 500	48 1211	55 1400	187 4747
XB-PCF-370-40	370 x 40	4440 1006	5920 1347	7400 1658	16 400	40 1008	59 1500	155 3931
XB-PCF-370-50	370 x 50	5550 1258	7400 1684	9250 2072	18 450	44 1111	59 1500	169 4288
XB-PCF-370-70	370 x 70	7770 1761	10360 2357	12950 2901	24 600	54 1363	59 1500	199 5048
XB-PCF-433-40	433 x 40	5179 1177	6934 1576	8532 1939	18 450	44 1111	63 1600	176 4481
XB-PCF-433-50	433 x 50	6477 1472	8668 1970	10665 2424	20 500	48 1211	63 1600	190 4834
XB-PCF-433-70	433 x 70	9068 2061	12135 2758	14934 3394	24 600	54 1363	63 1600	224 5694

HV-Q STYLE

HV-X STYLE

SPECIFICATIONS



HV-X



HV-Q

MATERIALS

1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: FRP / SS316
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP / PP
7. Clean drain: FRP / PP
9. Tube sheet: PVC / FRP
11. Lifting lugs: FRP
12. Closure bolts: SS 316
13. Main body gaskets: EPDM
14. Hoist (lifting arm): SS 316
18. O-ring support plate: PVC
19. Structural plate: FRP
20. Securing plate: PP
21. Locking rings: PP
23. High Flow cartridge: PP
24. Baskets: PP

Flow rates: 40 - 2700 m³/h

N° elements: 1 - 45

Elements length: 40" & 60"

Cartridge flow: Inside - Outside

Housing layout: Vertical

Features: Side inlet / Bottom Outlet

Davit arm available

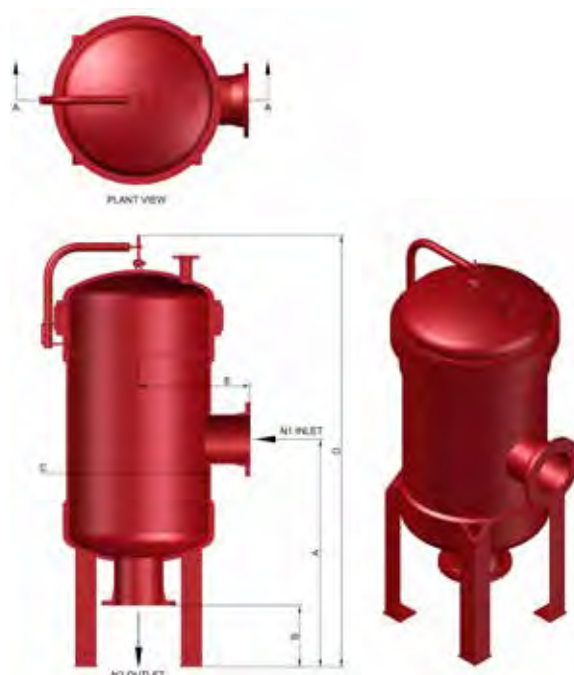
Cartridge removal as

Package available

Optional: Swing bolts

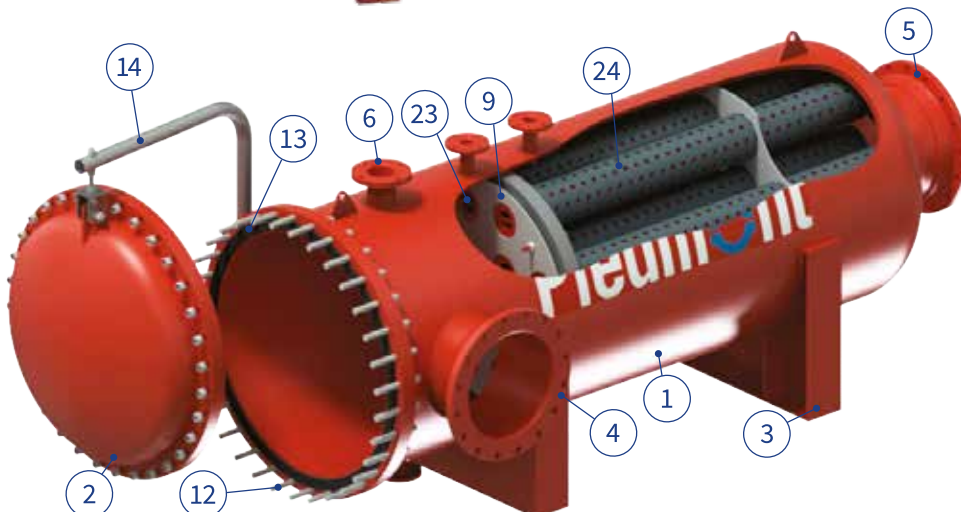
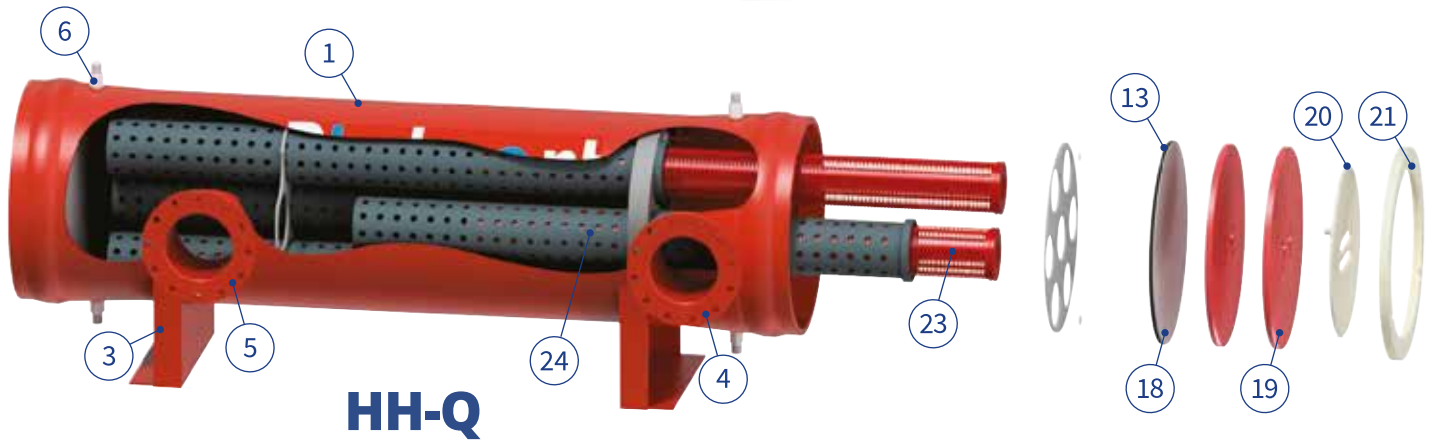
Ideal: High flows and stand alone

Design pressure: 6/10 bar



HV-Q & HV-X STYLE Quick Opening High Flow Cartridge Filter Housing								
Filter Housing model reference	Cartridges	Design flow gpm 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							
HV-Q-PCF-1-40	1 x 40	176 40	3 80	49 1236	4 104	8 200	52 1328	7 180
HV-Q-PCF-1-60	1 x 60	264 60	4 100	68 1734	4 114	8 200	72 1836	7 180
HV-Q-PCF-2-40	2 x 40	352 80	4 100	61 1561	32 810	16 400	71 1813	12 310
HV-Q-PCF-2-60	2 x 60	528 120	6 150	81 2069	52 1318	16 400	91 2321	12 310
HV-Q-PCF-3-40	3 x 40	528 120	6 150	61 1559	31 779	20 500	71 1813	14 360
HV-Q-PCF-3-60	3 x 60	792 180	6 150	81 2067	51 1287	20 500	91 2321	14 360
HV-Q-PCF-7-40	7 x 40	1233 280	8 200	66 1684	48 1215	24 600	86 2187	16 410
HV-Q-PCF-7-60	7 x 60	1849 420	10 250	86 2192	68 1723	24 600	106 2695	16 410
HV-X-PCF-10-40	10 x 40	1761 400	10 250	92 2349	27 685	31 800	124 3156	25 640
HV-X-PCF-10-60	10 x 60	2641 600	12 300	117 2971	31 799	31 800	149 3778	25 640
HV-X-PCF-12-40	12 x 40	2113 480	10 250	95 2417	27 685	35 900	128 3253	28 700
HV-X-PCF-12-60	12 x 60	3169 720	12 300	120 3039	31 799	35 900	153 3876	28 700
HV-X-PCF-19-40	19 x 40	3346 760	12 300	99 2521	31 799	39 1000	137 3485	30 750
HV-X-PCF-19-60	19 x 60	5018 1140	20 400	138 3511	48 1211	39 1000	176 4475	30 750
HV-X-PCF-27-40	27 x 40	4754 1080	16 400	115 2930	40 1008	47 1200	159 4028	34 875
HV-X-PCF-27-60	27 x 60	7131 1620	18 450	141 3592	44 1111	47 1200	187 4739	34 875
HV-X-PCF-29-40	29 x 40	5106 1160	16 400	111 2816	40 1008	51 1300	157 3990	36 925
HV-X-PCF-29-60	29 x 60	7659 1740	20 500	147 3743	48 1211	51 1300	195 4951	36 925
HV-X-PCF-37-40	37 x 40	6515 1480	18 450	137 3484	44 1111	55 1400	194 4923	43 1100
HV-X-PCF-37-60	37 x 60	9772 2220	24 600	157 3995	54 1363	55 1400	214 5434	43 1100
HV-X-PCF-39-40	39 x 40	6867 1560	18 450	127 3220	44 1111	59 1500	183 4636	45 1150
HV-X-PCF-39-60	39 x 60	10301 2340	24 600	164 4155	54 1363	59 1500	226 5744	45 1150
HV-X-PCF-45-40	45 x 40	7924 1800	20 500	152 3863	48 1211	63 1600	218 5546	47 1200
HV-X-PCF-45-60	45 x 60	11885 2700	24 600	180 4573	54 1363	63 1600	248 6303	47 1200

HH-Q STYLE HH-X STYLE SPECIFICATIONS



MATERIALS

1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP
3. Support legs: Carbon Steel painted
4. Inlet flange: FRP
5. Outlet flange: FRP / PP
6. Air vent: FRP / PP
7. Clean drain: FRP / PP
9. Tube sheet: PVC / FRP
12. Closure bolts: SS 316
13. Main body gaskets: EPDM
14. Hoist (lifting arm): SS 316
18. O-ring support plate: PVC
19. Structural plate: FRP
20. Securing plate: PP
21. Locking rings: PP
23. High Flow cartridge: PP
24. Baskets: PA + FRP

CHARACTERISTICS

Flow rates: 40 - 2700 m³/h

N° elements: 1 - 45

Elements length: 40" & 60"

Cartridge flow: Inside - Outside

Housing layout: Horizontal

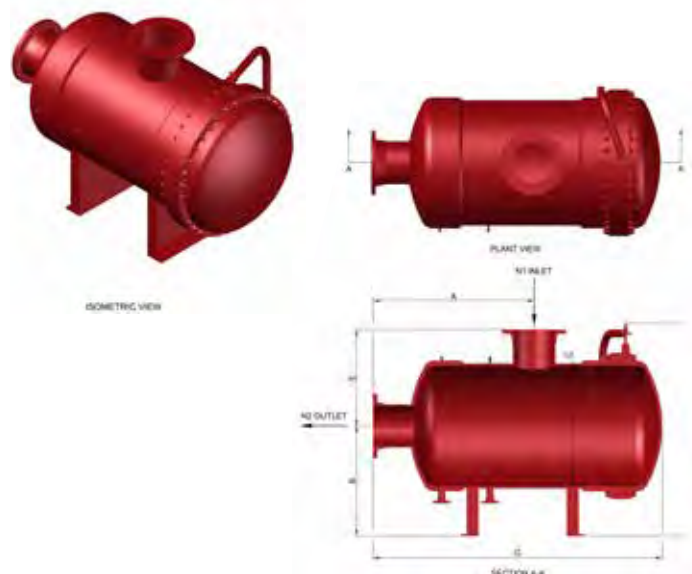
Features: Side inlet / Bottom Outlet

Davit arm available

Optional: Swing bolts

Ideal: High flows and stand alone

Design pressure: 6/10 bar

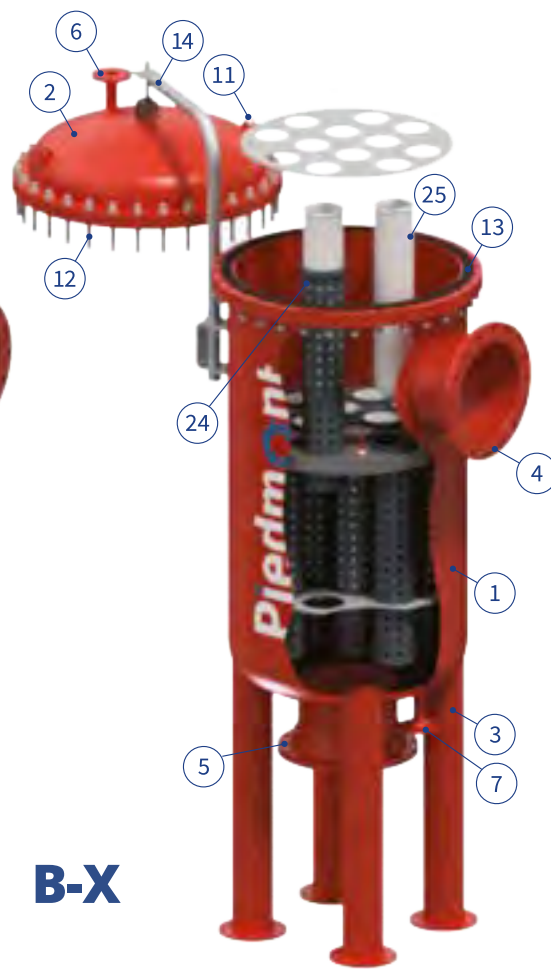


HH-Q & HH-X STYLE Quick Opening High Flow Cartridge Filter Housing									
Filter Housing model reference	Cartridges	Design flow gpm m ³ /h	N1 / N2 (inch mm)	A (inch mm)	B (inch mm)	C (inch mm)	D (inch mm)	E (inch mm)	F (inch mm)
	Qty. x Length								
HH-Q-PCF-1-40	1 x 40	176 40	3 80	49 1236	4 104	8 200	52 1328	7 180	9 218
HH-Q-PCF-1-60	1 x 60	264 60	4 100	68 1734	4 114	8 200	72 1836	7 180	9 218
HH-Q-PCF-2-40	2 x 40	352 80	4 100	61 1561	32 810	16 400	71 1813	12 310	13 318
HH-Q-PCF-2-60	2 x 60	528 120	6 150	81 2069	52 1318	16 400	91 2321	12 310	13 318
HH-Q-PCF-3-40	3 x 40	528 120	6 150	61 1559	31 779	20 500	71 1813	14 360	14 368
HH-Q-PCF-3-60	3 x 60	792 180	6 150	81 2067	51 1287	20 500	91 2321	14 360	14 368
HH-Q-PCF-7-40	7 x 40	1233 280	8 200	66 1684	48 1215	24 600	76 1933	16 410	16 418
HH-Q-PCF-7-60	7 x 60	1849 420	10 250	86 2192	68 1723	24 600	96 2441	16 410	16 418
HH-X-PCF-10-40	10 x 40	1761 400	10 250	66 1664	24 612	31 800	97 2471	25 640	49 1251
HH-X-PCF-10-60	10 x 60	2641 600	12 300	86 2172	24 612	31 800	117 2979	25 640	49 1251
HH-X-PCF-12-40	12 x 40	2113 480	10 250	68 1732	26 668	35 900	101 2568	28 700	54 1368
HH-X-PCF-12-60	12 x 60	3169 720	12 300	88 2240	26 668	35 900	121 3076	28 700	54 1368
HH-X-PCF-19-40	19 x 40	3346 760	12 300	68 1722	28 722	39 1000	106 2686	30 750	58 1472
HH-X-PCF-19-60	19 x 60	5018 1140	20 400	88 2230	28 722	39 1000	126 3194	30 750	58 1472
HH-X-PCF-27-40	27 x 40	4754 1080	16 400	76 1922	32 821	47 1200	119 3020	34 875	67 1696
HH-X-PCF-27-60	27 x 60	7131 1620	18 450	98 2481	32 821	47 1200	143 3628	34 875	67 1696
HH-X-PCF-29-40	29 x 40	5106 1160	16 400	71 1808	34 871	51 1300	117 2982	36 925	71 1796
HH-X-PCF-29-60	29 x 60	7659 1740	20 500	100 2532	34 871	51 1300	147 3740	36 925	71 1796
HH-X-PCF-37-40	37 x 40	6515 1480	18 450	93 2373	39 984	55 1400	150 3812	43 1100	82 2084
HH-X-PCF-37-60	37 x 60	9772 2220	24 600	104 2632	39 984	55 1400	160 4071	43 1100	82 2084
HH-X-PCF-39-40	39 x 40	6867 1560	18 450	83 2109	43 1084	59 1500	139 3525	45 1150	88 2234
HH-X-PCF-39-60	39 x 60	10301 2340	24 600	110 2792	43 1084	59 1500	172 4381	45 1150	88 2234
HH-X-PCF-45-40	45 x 40	7924 1800	20 500	104 2652	46 1176	63 1600	171 4335	47 1200	92 2326
HH-X-PCF-45-60	45 x 60	11885 2700	24 600	126 3210	46 1176	63 1600	194 4940	47 1200	92 2326

B-Q STYLE B-X STYLE SPECIFICATIONS



**FILTER
BAG**



B-X



B-Q

MATERIALS

1. Shell & cap / Main body: FRP
3. Support legs: FRP / SS316
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP / PP
7. Clean drain: FRP / PP
9. Tube sheet: PVC / FRP
11. Lifting lugs: FRP
13. Main body gaskets: EPDM
18. O-ring support plate: PVC
19. Structural plate: FRP
20. Securing plate: PP
21. Locking rings: PP
24. Baskets: PP
25. Bag filters: PP

CHARACTERISTICS

Flow rates: 21 - 1800 m³/h

N° elements: 1 - 45

Elements length: 17" & 32"

Cartridge flow: Inside - Outside

Housing layout: Vertical

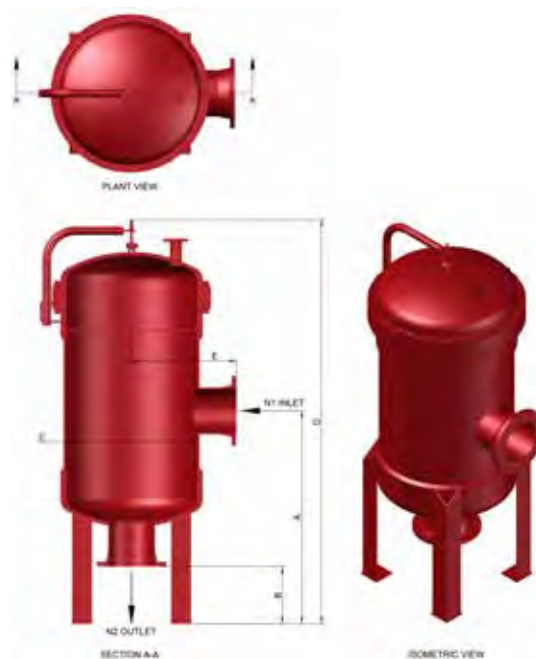
Features: Side inlet / Bottom Outlet

Davit arm available

Optional: Swing bolts

Ideal: High flows and stand alone

Design pressure: 6/10 bar



B-Q & B-X STYLE | Quick Opening High Flow Cartridge Filter Housing

Filter Housing model reference	Cartridges	Maximum flow gpm 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-PCF-1-17	1 x 17	90 21	2 50	28 719	4 104	8 200	32 811	7 180
B-Q-PCF-1-32	1 x 32	176 40	3 80	40 1023	4 114	8 200	44 1125	7 180
B-Q-PCF-2-17	2 x 17	185 42	3 80	41 1044	4 104	16 400	51 1296	12 310
B-Q-PCF-2-32	2 x 32	352 80	4 100	53 1358	24 607	16 400	63 1610	12 310
B-Q-PCF-3-17	3 x 17	277 63	4 100	41 1042	10 262	20 500	51 1296	14 360
B-Q-PCF-3-32	3 x 32	528 120	6 150	53 1356	23 576	20 500	63 1610	14 360
B-Q-PCF-7-17	7 x 17	647 147	6 150	46 1167	27 698	24 600	56 1416	16 410
B-Q-PCF-7-32	7 x 32	1232 280	8 200	58 1481	40 1012	24 600	68 1730	16 410
B-X-PCF-10-17	10 x 17	924 210	8 200	70 1766	27 685	31 800	107 2573	25 640
B-X-PCF-10-32	10 x 32	1760 400	10 250	84 2146	27 685	31 800	126 2953	25 640
B-X-PCF-12-17	12 x 17	1109 252	8 200	72 1834	27 685	35 900	112 2670	28 700
B-X-PCF-12-32	12 x 32	2112 480	10 250	87 2214	27 685	35 900	131 3050	28 700
B-X-PCF-19-17	19 x 17	1756 399	10 250	76 1938	31 799	39 1000	115 2902	30 750
B-X-PCF-19-32	19 x 32	3344 760	12 300	91 2318	31 799	39 1000	147 3282	30 750
B-X-PCF-27-17	27 x 17	2495 567	16 400	92 2347	40 1008	47 1200	131 3445	34 875
B-X-PCF-27-32	27 x 32	4752 1080	16 400	107 2727	40 1008	47 1200	149 3825	34 875
B-X-PCF-29-17	29 x 17	2680 609	12 300	88 2233	40 1008	51 1300	137 3407	36 925
B-X-PCF-29-32	29 x 32	5104 1160	16 400	103 2613	40 1008	51 1300	155 3787	36 925
B-X-PCF-37-17	37 x 17	3419 777	16 400	114 2901	44 1111	55 1400	159 4340	43 1100
B-X-PCF-37-32	37 x 32	6512 1480	18 450	129 3281	44 1111	55 1400	187 4720	43 1100
B-X-PCF-39-17	39 x 17	3604 819	16 400	104 2637	44 1111	59 1500	159 4053	45 1150
B-X-PCF-39-32	39 x 32	6864 1560	18 450	119 3017	44 1111	59 1500	191 4433	45 1150
B-X-PCF-45-17	45 x 17	4158 945	18 450	129 3280	48 1211	63 1600	195 4963	47 1200
B-X-PCF-45-32	45 x 32	7920 1800	20 500	144 3660	48 1211	63 1600	218 5343	47 1200

S-Q STYLE

S-X STYLE

SPECIFICATIONS



S-Q



MATERIALS

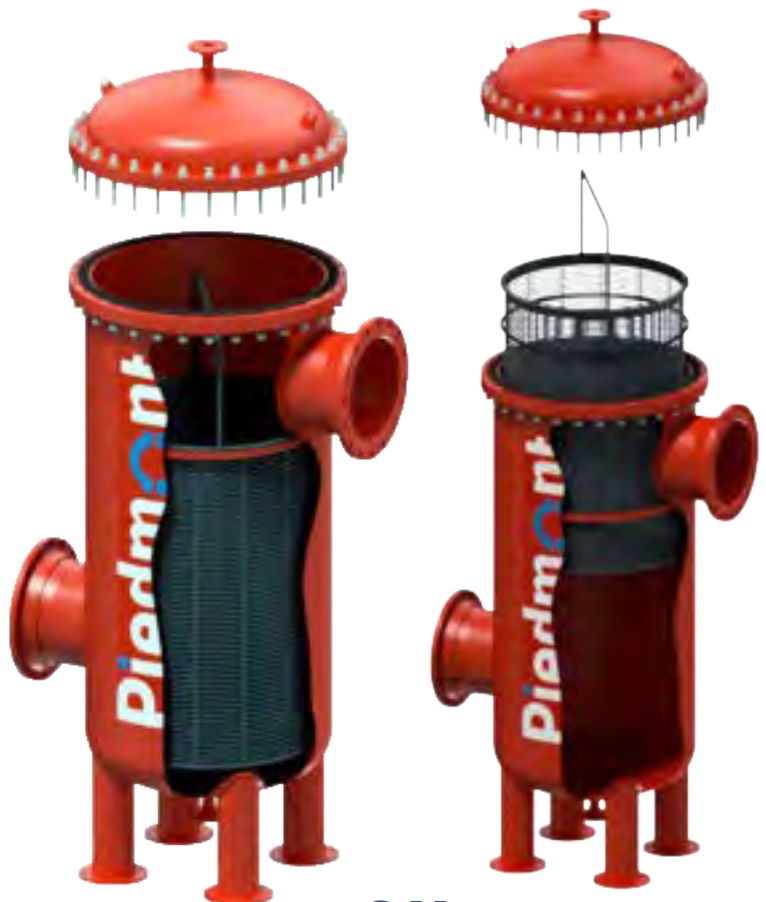
1. Shell & cap / Main body: FRP
2. Closure cover plate: FRP / SS316
3. Support legs: FRP / SS316
4. Inlet flange: FRP
5. Outlet flange: FRP
6. Air vent: FRP / PP
7. Clean drain: FRP / PP
9. Tube sheet: PVC / FRP
11. Lifting lugs: FRP
12. Closure bolts: SS 316
13. Basket Filter Element:
PVC / SS316 / Superduplex

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



S-X

CARTRIDGE FILTER ELEMENTS

SPECIFICATIONS

FEATURES

- Piedmont's cartridge filter elements are manufactured by some of our suppliers in China with the fastest, most modern equipment available, giving you the highest quality filter on the market today
- Two types of cartridge filters available : String wounds & Meltblowns
- Elements are made from 1 to 100 micron in standard or high efficiency (95%) grades, giving you control of your filtration process
- A multi-zone manufacturing process provides true depth filtration
- End caps are thermally welded onto the cartridge with no use of glue or other binders
- Elements are produced with 100% polypropylene materials
- BIOSAFETY
All polypropylene components meet the specifications for biological safety per the USP for Class VI-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.

PIEDMONT ELITE

- 99% Efficiency at designated microns
- NSF/ANSI 42 & 61 rated for potable water and FDA 21 Compliant
- Integrated 4 Stage Depth Loading
- Cored Center for Filter Stability
- High Dirt Loading
- Heat set surface to stop fiber migration



Zone 1
Filter Media

Zone 2
Prefilter

Zone 3
Dirt Loading

Zone 4
Dirt Loading



HIGH FLOW FILTER ELEMENTS SPECIFICATIONS



Piedmont High Flow Pleated Filter Cartridges are especially designed for high flow filtration applications and will replace Pall Ultipleat brand. Unique rigid hard cage as outer case enables the High Flow filters to undertake large differential pressures during the filtration process.

Larger diameter with fewer filter elements, but more filtration surface area leads to higher flow rate and longer service life. Both CAPEX and OPEX can be reduced.

Suitable for various applications like RO-pretreatment, condensate filtration, seawater, desalination, (petro)chemical and pharmaceutical applications.

Features

- Deep pleated structure with multiple filtration media
- High dirt holding capacity
- Ultimate retention efficiency
- Inside-out flow to hold most debris in



CARTRIDGE DIMENSIONS

Removing Ratings (Absolute)	1, 3, 5, 10, 20, 40 μ m and others available
Surface of filtration	7.98 m ² / 85.90 ft ²
Outside Diameter	6 inches / 152 mm
Length	40 inches / 1 016 mm, 60 inches / 1 524 mm

MATERIAL OF CONSTRUCTION

Filter Media	Depth Type Multimedia Polypropylene
Core Material	Polypropylene
End Cap Material	Rigid Hard Cage
Support Layer Material	Polypropylene
Gasket / O-ring Material	EPDM / VITON

OPERATING CONDITIONS

Maximum Operating Temperature	180 °F / 82°C
Maximum Flow Rate	40" : 343gpm / 78 m ³ / hr 60" : 500gpm / 113m ³ / hr
Recommended Change-Out Differential Pressure	30psid @68 °F (2.1bar @ 20 °C)

PIEDMONT HIGH FLOW CARTRIDGE ORDERING GUIDE

Cartridge Design	Cartridge Length	Material (Media / Plastic Components)	Removal Rating (Nominal Micron)	O-ring Material
Max Pleated PL Series	40 – 40" (1,016 mm) 60 – 60" (1,524 mm)	PP – Polypropylene Micron Fiber Media	P010– 1 µm P030– 3 µm P050– 5 µm P100– 10 µm P200– 20 µm P400– 40 µm	E=EPDM V=Fluororubber S=Silicon N=Buna-N rubber

Features / Benefits

High flow capacity up to 500 gpm per cartridge

- Reduced Filter Usage - minimizes product loss, labor cost, disposal costs, operator exposure and downtime for filter change-out.

Absolute rating

- Reproducible effluent quality throughout the filter's life.

Pleated design

- Larger usable filtration surface area, higher dirt holding capacity longer life time.

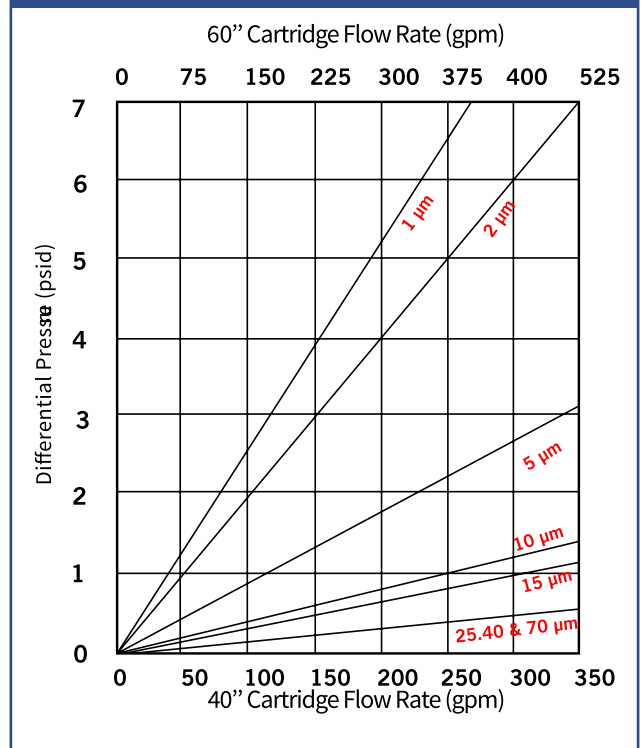
Supporting core design

- Strengthen filter cartridge, easy to change.

Easy to use

- No special tools or hardware required for filter change-out - minimizes downtime
- Handle design - facilitates easy cartridge installation and removal

Typical Cartridge Flow Rates



PIEDMONT FRP REFERENCE LIST



CUSTOMER	PROJECT	COUNTRY	CAPACITY (m³/d)	YEAR
Abengoa	Taweelah	UAE	909 000	2019
Abengoa	Jubail 3A SWRO	Saudi Arabia	600 000	2020
Acciona	Shuqaiq III	Saudi Arabia	450 000	2019
Abengoa	Agadir-Chtouka	Morocco	275 000	2018
Abengoa	Shuaibah	Saudi Arabia	250 000	2018
Acciona	Al Khobar	Saudi Arabia	250 000	2019
Rawafid	SWCC satellites	Saudi Arabia	240 000	2019
TEDAGUA	TUAS III	Singapore	200 000	2017
Nijhuis (for Keppel)	Marina East SWRO	Singapore	200 000	2019
Acciona	Tseung Kwan O SWRO	China	135 000	2020
Aguas Antofagasta	Antofagasta	Chile	105 600	2019
Tedagua	Ras Al Khaimah	UAE	100 000	2018
Al Dayer	Basrah	Iraq	100 000	2020
Metito	El Arish	Egypt	100 000	2020
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
Metito	BARGE	Saudi Arabia	50 000	2020
Va Tech	Zarat	Tunisia	50 000	2020
Antofagasta	La Chimba	Chile	50 000	2018
Abengoa	Sousse	Tunisia	50 000	2020
Abengoa	Dubai	UAE	41 000	2019
Osmoflo	Unknown	UAE	40 320	2018
Nijhuis	Quebrada Blanca	Chile	40 000	2018
Abengoa	Dubai	UAE	40 000	2019
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
Osmoflo	SWCC Retrofit	Saudi	20 160	2018
Moss Point City	Moss Point Municipality	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
TSG	Amanyara	USA	13 440	2017
Metito	TRSDC	Saudi Arabia	12 500	2020
AMV	Unknown	Austria	11 328	2018
Relix	Unknown	Chile	11 328	2018
H2O Innovation	Ste-Marthe	Canada	10 080	2018
Gulf Water Treatment	Unknown	UAE	10 080	2018
Future Technologies	Ethiopia	Ethiopia	9 792	2017
TSG	Unknown	USA	9 600	2018
Veolia Saudi	Unknown	Saudi Arabia	8 640	2018
Aguas de Antofagasta	Antofagasta	Chile	8 160	2018



Shuaibah, Saudi Arabia



Marina East SWRO, Singapore



Ras Al Khaimah, UAE



SWRO Barka IV, Oman



Moss Point, USA



TUAS III, Singapore

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



WORLDWIDE PRESENCE

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