TIMEX
Filtration & Water Systems

Disc Filters

flow rate per unit	filtration degrees	water per flushing cycle	min. flushing pressure
up to **1000** m^3/h	**400–20** micron	**42** liter at **2,8** bar	**2,8** bar (38 psi)

Self-cleaning automatic disc filtration systems from 2” to 12” for all purpose applications

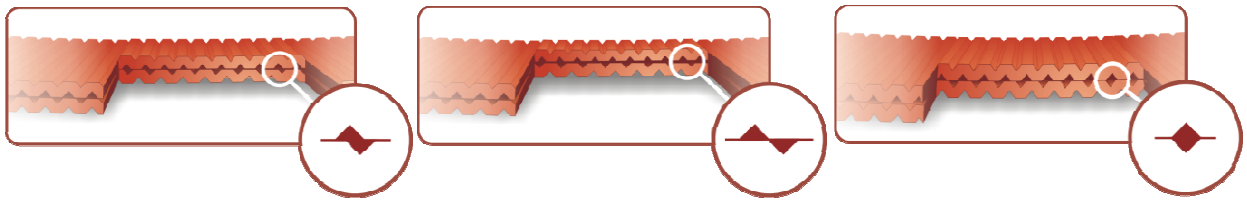
features:

- Modular and efficient design, supports large range of flow requirements and water qualities
- Combines surface, depth and vortex filtering - provides large filtration area
- Effective removal of dirt particles with high retention of organic substances
- Built-in easy-to-operate hydraulic self cleaning mechanism
- Corrosion-free construction materials
- Best solution for sea water applications

Disc Filtration Degrees And Disc Colors

Color	Blue	Yellow	Red	Black	Green	Gray
Micron	400	200	130	100	55	20
Mesh	40	80	120	140	200	600

The discs are compressed to create the filtration element



Minimum Backwash Pressures

For 20 Micron	6 bar
For 55 Micron	5 bar
For 100 Micron And Bigger	3 bar

Minimum Backwash Flow And Rejects

Model	Min. Flow For Flushing	Reject Water Volume Per Flush Cycle
2”	10 m^3/h	42 Liter
3”	20 m^3/h	84 Liter
4”	50 m^3/h	210 Liter

Backwash Types

Standart Backwash	Backwash water is provided from the filtered water collector
External Source Backwash	Backwash water is provided from an external source
Air Aided Backwash	6 bar compresses air-powered disc filter and the filtered water performs the backwash process

Technical Specifications

2”SK and 2”SK Automatic Disc Filter Batteries

	Single Unit		2 Units		3 Units		4 Units	
Max. Pressure	10 bar	145 psi	10 bar	145 psi	10 bar	145 psi	10 bar	145 psi
Min. Pressure	2,8 bar	38 psi	2,8 bar	38 psi	2,8 bar	38 psi	2,8 bar	38 psi
Capacity (100-400 micron)	20 m^3/h	88 gpm	40 m^3/h	176 gpm	60 m^3/h	264 gpm	80 m^3/h	352 gpm
Capacity for 55µ	13 m^3/h	57 gpm	26 m^3/h	114 gpm	40 m^3/h	176 gpm	53 m^3/h	233 gpm
Capacity for 20µ	7,5 m^3/h	33 gpm	15 m^3/h	66 gpm	23 m^3/h	101 gpm	32 m^3/h	141 gpm
Filter Surface Area	880 cm^2	136 in^2	1.760 cm^2	272 in^2	2.640 cm^2	410 in^2	3.520 cm^2	544 in^2
Filtration Volume	1.320 cm^3	80 in^3	2.640 cm^3	160 in^3	3.960 cm^3	240 in^3	5.290 cm^3	323 in^3
Filter Lenght	245 mm	9 21/32”	545 mm	21 15/32”	845 mm	33 9/32”	1145 mm	45 3/32”
Filter Height	815 mm	32 3/32”	815 mm	32 3/32”	815 mm	32 3/32”	815 mm	32 3/32”
Filter Width	720 mm	28 11/32”	720 mm	28 11/32”	720 mm	28 11/32”	720 mm	28 11/32”
Weight (Polyester Coated)	58 kg	128 lbs	79 kg	174 lbs	100 kg	220 lbs	121 kg	266 lbs
Weight (Stainless Steel)	50 kg	110 lbs	70 kg	154 lbs	90 kg	198 lbs	110 kg	242 lbs

Construction Materials

Filter Housings	Polyamide
Disc Elements	Polypropylene
Manifolds	Plastic Based or Steel Based

Single Unit

4 Units

Technical Specifications

3”SK Automatic Disc Filter Batteries

	3 Units		4 Units		5 Units	
Max. Pressure	10 bar	145 psi	10 bar	145 psi	10 bar	145 psi
Min. Pressure	2,8 bar	38 psi	2,8 bar	38 psi	2,8 bar	38 psi
Capacity (100-400 micron)	90 m^3/h	396 gpm	120 m^3/h	528 gpm	150 m^3/h	660 gpm
Capacity for 55µ	60 m^3/h	264 gpm	80 m^3/h	352 gpm	100 m^3/h	440 gpm
Capacity for 20µ	30 m^3/h	132 gpm	40 m^3/h	176 gpm	50 m^3/h	220 gpm
Filter Surface Area	5.280 cm^2	818 in^2	7.040 cm^2	1.091 in^2	8.800 cm^2	1.364 in^2
Filtration Volume	7.920 cm^3	483 in^3	10.560 cm^3	644 in^3	13.200 cm^3	805 in^3
Filter Lenght	900 mm	35 14/32”	1.200 mm	47 8/32”	1.500 mm	59 2/32”
Filter Height	1.365 mm	53 24/32”	1.365 mm	53 24/32”	1.365 mm	53 24/32”
Filter Width	865 mm	34 2/32”	865 mm	34 2/32”	865 mm	34 2/32”
Weight (Polyester Coated)	160 kg	352 lbs	185 kg	407 lbs	223 kg	490 lbs
Weight (Stainless Steel)	150 kg	330 lbs	170 kg	374 lbs	190 kg	418 lbs

Construction Materials

Filter Housings	Polyamide
Disc Elements	Polypropylene
Manifolds	Plastic Based or Steel Based

3 Units

Technical Specifications

GX 4” SK Automatic Disc Filter Batteries

	3 Units	4 Units	5 Units	6 Units	7 Units	8 Units
Max. Pressure (bar/psi)	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi
Min. Pressure (bar/psi)	2,8 bar 38 psi	2,8 bar 38 psi	2,8 bar 38 psi	2,8 bar 38 psi	2,8 bar 38 psi	2,8 bar 38 psi
Capacity (100-400 micron) (m^3/h/gpm)	300 m^3/h 1.320 gpm	400 m^3/h 1.760 gpm	500 m^3/h 2.200 gpm	600 m^3/h 2.640 gpm	700 m^3/h 3.080 gpm	800 m^3/h 3.520 gpm
Capacity (100-70 micron) (m^3/h/gpm)	270 m^3/h 1.190 gpm	360 m^3/h 1.585 gpm	450 m^3/h 1.980 gpm	540 m^3/h 2.375 gpm	630 m^3/h 2.770 gpm	720 m^3/h 3.165 gpm
Filter Surface Area (cm^2/in^2)	13.200 cm^2 2.040 in^2	17.600 cm^2 2.370 in^2	22.000 cm^2 3.410 in^2	26.400 cm^2 4.092 in^2	30.800 cm^2 4.774 in^2	35.200 cm^2 5.456 in^2
Filtration Volume (cm^3/in^3)	19.800 cm^3 1.208 in^3	26.400 cm^3 1.610 in^3	33.000 cm^3 2.010 in^3	39.600 cm^3 2.412 in^3	46.200 cm^3 2.814 in^3	52.800 cm^3 3.216 in^3
Filter Lenght (mm/inch)	1.450 mm 57 3/32”	1.950 mm 76 25/32”	2.450 mm 96 15/32”	2.950 mm 116 5/32”	3.450 mm 135 28/32”	3.950 mm 155 16/32”
Filter Height (mm/inch)	1.364 mm 53 22/32”	1.520 mm 59 27/32”	1.520 mm 59 27/32”	1.520 mm 59 27/32”	1.520 mm 59 27/32”	1.520 mm 59 27/32”
Filter Width (mm/inch)	830 mm 31 18/32”	923 mm 36 11/32”	923 mm 36 11/32”	923 mm 36 11/32”	923 mm 36 11/32”	923 mm 36 11/32”
Weight (Polyester Coated) (kg/lbs)	290 kg 640 lbs	370 kg 814 lbs	485 kg 1.065 lbs	600 kg 1.316 lbs	715 kg 1.567 lbs	830 kg 1.818 lbs
Weight (Stainless Steel) (kg/lbs)	275 kg 605 lbs	355 kg 781 lbs	465 kg 1.023 lbs	575 kg 1.265 lbs	685 kg 1.507 lbs	795 kg 1.749 lbs

Construction Materials

Filter Housings	Polyamide
Disc Elements	Polypropylene
Manifolds	Plastic Based or Steel Based

3 Units

Technical Specifications

GX 6” SK Automatic Disc Filter Batteries (Each Unit consist of six GX 6”SK Housings)

	4 Units	5 Units	6 Units	7 Units	8 Units
Max. Pressure (bar/psi)	8 bar 116 psi	8 bar 116 psi	8 bar 116 psi	8 bar 116 psi	8 bar 116 psi
Min. Pressure (bar/psi)	2,8 bar 38 psi	2,8 bar 38 psi	2,8 bar 38 psi	2,8 bar 38 psi	2,8 bar 38 psi
Capacity (130 micron) (m^3/h/gpm)	2.640 m^3/h 11.620 gpm	3.300 m^3/h 14.525 gpm	3.960 m^3/h 17.430 gpm	4.620 m^3/h 20.335 gpm	5.280 m^3/h 23.240 gpm
Capacity (100 micron) (m^3/h/gpm)	2.400 m^3/h 10.575 gpm	3.000 m^3/h 13.200 gpm	3.600 m^3/h 15.840 gpm	4.200 m^3/h 18.480 gpm	4.800 m^3/h 21.120 gpm
Capacity (55 micron) (m^3/h/gpm)	1.920 m^3/h 8.460 gpm	2.400 m^3/h 10.575 gpm	2.880 m^3/h 12.690 gpm	3.360 m^3/h 14.805 gpm	3.840 m^3/h 16.920 gpm
Capacity (20 micron) (m^3/h/gpm)	960 m^3/h 4.220 gpm	1.200 m^3/h 5.275 gpm	1.440 m^3/h 6.330 gpm	1.680 m^3/h 7.385 gpm	1.920 m^3/h 8.440 gpm
Filter Surface Area (cm^2/ft^2)	168.960 cm^2 182 ft^2	211.200 cm^2 227,5 ft^2	253.440 cm^2 273 ft^2	295.680 cm^2 318,5 ft^2	337.920 cm^2 364 ft^2
Filtration Volume (cm^3/gal)	253.440 cm^3 67,2 gal	316.800 cm^3 84 gal	380.160 cm^3 100,8 gal	443.520 cm^3 117,6 gal	506.880 cm^3 134,4 gal
System Lenght (m/ft)	9,5 m 31,5 ft	11,5 m 38 ft	13,5 m 44,5 ft	15,5 m 51 ft	17,5 m 57,5 ft
Battery Width (m/ft)	4,2 m 14 ft	4,2 m 14 ft	4,2 m 14 ft	4,2 m 14 ft	4,2 m 14 ft
Battery Height (m/ft)	1,5 m 5 ft	1,5 m 5 ft	1,5 m 5 ft	1,5 m 5 ft	1,5 m 5 ft
Standart Manifold For 100 – 130 Micron	16”	16”	16”	16”	16”
Manifold For 55 Micron	12”	12”	12”	12”	12”
Manifold For 20 Micron	10”	10”	10”	10”	10”

Construction Materials

Filter Housings	Polyamide
Disc Elements	Polypropylene
Manifolds	Plastic Based or Steel Based

12 Units

Technical Specifications

GX-SF SK Automatic Disc Filter Batteries

	3 Units		4 Units		5 Units	
Max. Pressure	10 bar	145 psi	10 bar	145 psi	10 bar	145 psi
Min. Pressure	2,8 bar	38 psi	2,8 bar	38 psi	2,8 bar	38 psi
Capacity (100-400 micron)	2.580 m^3/h	11.350 gpm	3.440 m^3/h	15.130 gpm	4.300 m^3/h	18.900 gpm
Capacity for 55µ	1.400 m^3/h	6.240 gpm	1.890 m^3/h	8.320 gpm	2.360 m^3/h	10.400 gpm
Capacity for 20µ	-	-	-	-	1.180 m^3/h	5.190 gpm
Filter Surface Area	134.640 cm^2	20.868 in^2	179.520 cm^2	24.170 in^2	224.400 cm^2	34.780 in^2
Filtration Volume	201.960 cm^3	12.320 in^3	269.280 cm^3	16.420 in^3	336.600 cm^3	20.500 in^3

Physical Data

Filter Unit Dimension	1 Unit	
Filter Diameter	1.196 mm	47”
Filter Vessel Height	1.238 mm	48 ¾”
Weight	500 kg	1.100 lbs
Optional Vessel Construction Materials	Stainless Steel and Polyester Coated Steel	

Construction Materials

Filter Housings	Polyamide
Disc Elements	Polypropylene
Manifolds	Plastic Based or Steel Based

4 Units

Technical Specifications

AP 3”- 4” Angle SK Systems

	3 Units	4 Units	5 Units	6 Units	7 Units	8 Units
Max. Pressure (bar/psi)	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi
Min. Pressure (bar/psi)	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi
Capacity (130-400 micron) (m^3/h/gpm)	120 m^3/h 530 gpm	160 m^3/h 705 gpm	200 m^3/h 880 gpm	240 m^3/h 1.055 gpm	280 m^3/h 1.235 gpm	320 m^3/h 1.420 gpm
Capacity (100 micron) (m^3/h/gpm)	110 m^3/h 485 gpm	145 m^3/h 639 gpm	180 m^3/h 793 gpm	215 m^3/h 947 gpm	250 m^3/h 1.100 gpm	290 m^3/h 1.277 gpm
Filter Surface Area (cm^2/in^2)	7.860 cm^2 1.220 in^2	10.480 cm^2 1.625 in^2	13.100 cm^2 2.030 in^2	15.720 cm^2 2.435 in^2	18.340 cm^2 2.840 in^2	20.960 cm^2 3.245 in^2
Filtration Volume (cm^3/in^3)	19.800 cm^3 1.208 in^3	26.400 cm^3 1.610 in^3	33.000 cm^3 2.010 in^3	39.600 cm^3 2.412 in^3	46.200 cm^3 2.814 in^3	52.800 cm^3 3.216 in^3
Backwash Flow Per Filter	24 m^3/h 105 gpm	24 m^3/h 105 gpm	24 m^3/h 105 gpm	24 m^3/h 105 gpm	24 m^3/h 105 gpm	24 m^3/h 105 gpm
Backwash Volume	0,4 m^3 105 gal	0,5 m^3 130 gal	0,7 m^3 185 gal	0,8 m^3 210 gal	0,9 m^3 235 gal	1 m^3 265 gal
System Lenght (mm/inch)	1.160 mm 46”	1.520 mm 60”	1.920 mm 76”	2.280 mm 90”	2.660 mm 105”	3.040 mm 119”
System Width (mm/inch)	1.048 mm 41”	1.048 mm 41”	1.118 mm 44”	1.118 mm 44”	1.160 mm 46”	1.160mm 46”
System Height (mm/inch)	1.201 mm 47”	1.201 mm 47”	1.285 mm 51”	1.285 mm 51”	1.307 mm 51”	1.307 mm 51”
Manifold Diameter (mm/inch)	160 mm 6”	160 mm 6”	200 mm 8”	200 mm 8”	280 mm 10”	280 mm 10”

Construction Materials

Filter Housings	Polyamide
Disc Elements	Polypropylene
Manifolds	Plastic Based or Steel Based

3 Units

Technical Specifications

AP 4” Twin SK Systems

	3 Units	4 Units	5 Units	6 Units	7 Units	8 Units
Max. Pressure (bar/psi)	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi	10 bar 145 psi
Min. Pressure (bar/psi)	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi	2 bar 29 psi
Capacity (130-400 micron) (m^3/h/gpm)	225 m^3/h 990 gpm	300 m^3/h 1.320 gpm	375 m^3/h 1.650 gpm	450 m^3/h 1.980 gpm	525 m^3/h 2.300 gpm	600 m^3/h 2.640 gpm
Capacity (100 micron) (m^3/h/gpm)	215 m^3/h 947 gpm	290 m^3/h 1.277 gpm	360 m^3/h 1.585 gpm	430 m^3/h 1.894 gpm	505 m^3/h 2.224 gpm	580 m^3/h 2.554 gpm
Filter Surface Area (cm^2/in^2)	15.720 cm^2 2.435 in^2	20.960 cm^2 3.245 in^2	26.200 cm^2 4.055 in^2	31.440 cm^2 4.865 in^2	36.680 cm^2 5.675 in^2	41.920 cm^2 6.485 in^2
Filtration Volume (cm^3/in^3)	18.852cm^3 1.150 in^3	25.136 cm^3 1,534 in^3	31.420 cm^3 1.917 in^3	37.704 cm^3 2.301 in^3	43.988 cm^3 2.684 in^3	50.272 cm^3 3.068 in^3
Backwash Flow Per Filter	48 m^3/h 210 gpm	48 m^3/h 210 gpm	48 m^3/h 210 gpm	48 m^3/h 210 gpm	48 m^3/h 210 gpm	48 m^3/h 210 gpm
Backwash Volume	0,8 m^3 210 gal	1 m^3 265 gal	1.3 m^3 340 gal	1.6 m^3 420 gal	1.9 m^3 500 gal	2.1 m^3 550 gal
System Lenght (mm/inch)	1.450 mm 57”	2.240 mm 88”	2.740 mm 108”	3.240 mm 128”	3.740 mm 147”	4.240 mm 167”
System Width (mm/inch)	1.533 mm 60”	1.533 mm 60”	1.533 mm 60”	1.533 mm 60”	1.533 mm 60”	1.533 mm 60”
System Height (mm/inch)	1.699 mm 67”	1.833 mm 72”	1.833 mm 72”	1.833 mm 72”	1.930 mm 76”	1.930 mm 76”
Manifold Diameter (mm/inch)	200 mm 8”	280 mm 10”	280 mm 10”	280 mm 10”	315 mm 12”	315 mm 12”

Construction Materials

Filter Housings	Polyamide
Disc Elements	Polypropylene
Manifolds	Plastic Based or Steel Based

4 Units

industry
Automotive, Aviation, Ballast treatment, Electronics, Food & Beverage; Mining, Oil & Gas, Petrochemical, Power Generation, Pulp & Paper

municipal
Potable Water, Waste Water, Desalination, Brackish Water, High rise buildings, Pre-filtration to Membranes

irrigation
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Fish Farming, Recirculating Aquaculture Systems (RAS), Fish Processing Industry

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