



Since 1972



ABOUT US



Proteam Europa is one of the world's leading manufacturers and distributors of swimming-pool, fountain, water-leisure and water-treatment equipment.

The company was originally started in 1972 in Norway, as a manufacturer of heat pumps for swimming pool and house heating. Over the years we started our operation from different countries(UK, Spain, Czech Republic, Morocco, Thailand,India ..) and many different products have been added to its portfolio, today Proteam is able to offer its customers around the world a complete range of products for residential and commercial swimming pools, fountains and wellness centers.

Proteam Europa equipment's supplied for various prestigious projects in the Middle East, India and Europe. With over 49 years of experience in the field of swimming-pool and water-treatment equipment's. We have as well joined with various European and American partners to ensure that the products are of the highest quality and compliant with the most stringent European standard. Proteam Europa's professional and multilingual team of experts ensures that customers receive high-quality products, with the best level of service before, during and after the sale.



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GENERAL INFORMATION

Length	m	in	ft	
Meter(m)	1	39.37	3.281	
Inch (in)	0.025	1	0.083	
Foot (ft)	0.305	12	1	
Surface	m2	in2	ft2	cm2
Square meter(m2)	1	39.37	3.281	10
Square inch(in2)	0.000645	1	0.0069	6.45
Square foot(ft2)	0.093	144.036	1	929.03
Square centimeter(cm2)	0.0001	0.155	0.00107	1
Volume	m3	UK gal	US gal	L
Cubic meter(m3)	1	219.969	264.172	1000
Imperial Gallon(Uk gal)	0.0045	1	1.201	4.546
U.S gallon (US gal)	0.0038	0.833	1	3.785
Litre(L)	0.001	0.22	0.264	1
Velocity	m/s	in/s	ft/s	m/h
Meter/second(m/s)v	1	39.37	3.281	360
Inch/second(in/s)	0.025	1	0.083	91.44
Foot/second(ft/s)	0.305	12	1	1097.28
Meter/Hour(m/h)	0.00028	0.011	0.00091	1
Filtration velocity	m3m2min	Us gal/ft2min	Uk gal/ft2min	ft3/ft2min
(m3m2min)	1	0.409	0.341	0.055
(US gal/ft2min)	2.445	1	0.833	0.134
UK gal/ft2min)	2.936	1.201	1	0.158
(ft3/ft2min)	18.322	7.474	6.311	1
Mass	kg	g	lb	
Kilogram(kg)	1	1000	2.205	
Gram(g)	0.001	1	0.0022	
Pound(lb)	0.454	423.59	1	
Pressure	p	bar	kg/cm2	psi
Pascal(p)	1	0.00001	0.00001	0.00014
Bar (bar)	100000	1	1.019	14.504
Kilogr.per square cents(kg/cm2)	98100	0.981	1	14.228
Pounds per square inch(psi)	6894.766	0.0689	0.07	1
Energy	j	kwh	cal	kcal
Joule(j)	1	2.77E-07	0.239	0.00024
Kilowatt(kw)	3600000	1	860421	861.244
Calorie(cal)	4.186	1.16E-06	1	0.001
Kilocalorie(kcal)	4186	0.0012	1000	1
Power	kw	hp	BTU/h	
Kilowatt(kw)	1	1.341	3412.14	
Horsepower(hp)	0.746	1	2544.43	
British thermal unit/hour(BTU/h)	0.00029	0.00039	1	
Flow	m3/h	us gall/min	UK gall/min	i/s
Cubic meters/hour(m3/h)	1	3.667	4.403	0.278
US gallon/minute(Usgall/min)	0.273	1	1.201	0.076
UK gallon/minute(uk gall/min)	0.227	0.833	1	0.063
Litres/second(l/s)	3.6	13.198	15.85	1
Temperature	C	F	K	
Degree celsius(°C)	1	[(9/5)x°C]+32	°C+273.16	
Farhenheit(°F)	(5/9)x°F-32)	1	n.a	
Kelvin(K)	K-273.16	n.a	1v	

PIPE DIMENSIONS AND WATER FLOW

DN mm	D mm	Inches	Water Flow(m3/h)Depending on water velocity Suction (1.2 m/s)	Discharge (1.5 m/s)
15	20	1/2"	1	1.6
20	25	3/4"	1.6	2.7
25	32	1"	2.7	4.4
32	40	1 1/4"	4.4	7.3
40	50	1 1/2"	7.5	12.5
50	63	2"	11	18.4
65	75	2 1/2"	15.7	26.1
80	90	3	22.3	37.1



FILTRATION



Laminated Sand Filters

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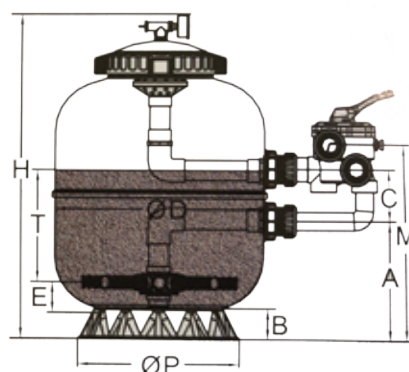
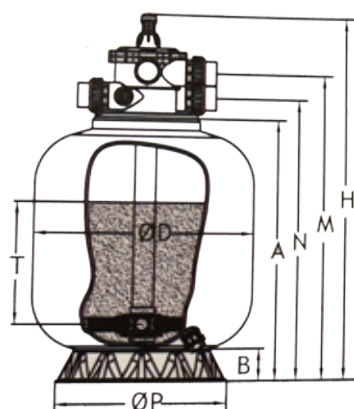
WHALE LAMINATED SAND FILTERS

PROTEAM Europa high quality laminated sand filter specially designed for swimming pools, spa and water features

- Totally non-corrosive fiberglass
- Durable in all weather conditions
- UV resistant surface finish provides protection to harmful exposure from sunlight
- Special designed finger laterals with side slots to maximum flow rate
- Smooth and high brightness appearance.
- 6 way multiport valve
- Sight glass for inspection of filtered water.
- Easy maintenance, easy cleaning.
- Maximum working pressure 2.5kg/cm²
- Testing pressure 4kg/cm²
- Maximum temperature 50°C
- Eco friendly filtration media



Clear Top Lid



Code	Diameter mm	Flow Rate m ³ /h	Connection	Filtration area m ²	Sand kg	H mm	A mm	C mm	M mm	B mm	Weight kg	Volume m ³
Side Mounted Filters												
00521450	450	7	1.5"	0.16	50	660	260	125	444	434	8.5	0.16
00521500	500	10	1.5"	0.20	100	745	280	125	464	471	12	0.21
00521650	650	15	1.5"	0.30	175	805	310	125	494	484	13	0.33
00521750	750	22	2"	0.37	225	885	360	125	534	544	20	0.44
00521800	800	25	2"	0.50	400	1020	385	220	680	695	41.5	0.70
00521900	900	32	2"	0.64	500	1120	430	220	725	745	48.5	0.95
Top Mounted Filters												
00531400	400	5.5	1.5"	0.13	45	750	500	609	550	430	6	0.11
00531450	450	7	1.5"	0.16	75	815	620	674	615	434	8	0.16
00531500	500	10	1.5"	0.20	105	870	870	620	729	471	9.8	0.21
00531650	650	15	1.5"	0.30	175	875	625	775	676	484	13	0.33
00531750	750	22	2"	0.37	225	980	725	835	776	544	18.5	0.43
00531800	800	25	2"	0.50	400	1145	845	988	908	695	41	0.71
00531900	900	32	2"	0.64	500	1270	970	1122	1032	745	48	0.95

DORA™ LAMINATED SAND FILTERS

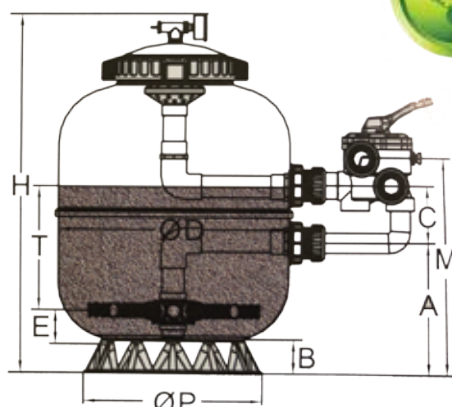
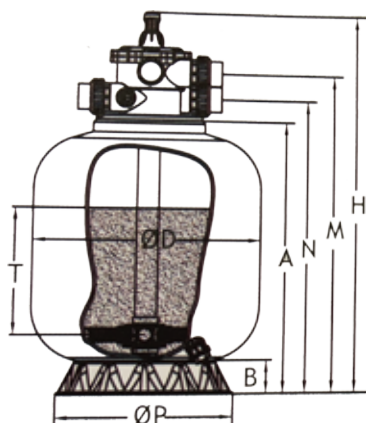
PROTEAM Europa high quality laminated sand filter specially designed for swimming pools, spa and water features

FEATURES

- Totally non-corrosive fiberglass
- Durable in all weather conditions
- UV resistant surface finish provides protection to harmful exposure from sunlight
- Special designed finger laterals with side slots to maximum flow rate
- Smooth and high brightness appearance.
- 6 way multiport valve
- Sight glass for inspection of filtered water.
- Easy maintenance, easy cleaning.
- Maximum working pressure 2.5kg/cm²
- Testing pressure 4kg/cm²
- Maximum temperature 50°C
- Eco friendly filtration media



Clear Top Lid



Code	Diameter mm	Flow Rate m ³ /h	Connection	Filtration area m ²	Sand kg	H mm	A mm	C mm	M mm	B mm	Weight kg	Volume m ³
Side Mounted Filters												
00522450	450	7	1.5"	0.16	50	660	260	125	444	434	8.5	0.16
00522500	500	10	1.5"	0.20	100	745	280	125	464	471	12	0.21
00522650	650	15	1.5"	0.30	175	805	310	125	494	484	13	0.33
00522750	750	22	2"	0.37	225	885	360	125	534	544	20	0.44
00522800	800	25	2"	0.50	400	1020	385	220	680	695	41.5	0.70
00522900	900	32	2"	0.64	500	1120	430	220	725	745	48.5	0.95
Top Mounted Filters												
00533400	400	5.5	1.5"	0.13	45	750	500	609	550	430	5.5	0.11
00533450	450	7	1.5"	0.16	75	815	620	674	615	434	7	0.16
00533500	500	10	1.5"	0.20	105	870	870	620	729	471	9.8	0.21
00533650	650	15	1.5"	0.30	175	875	625	775	676	484	13	0.33
00533750	750	22	2"	0.37	225	980	725	835	776	544	18.5	0.43
00533800	800	25	2"	0.50	400	1145	845	988	908	695	41	0.71
00533900	900	32	2"	0.64	500	1270	970	1122	1032	745	48	0.95

OYSTER AND PEARL LAMINATED SAND FILTERS

PROTEAM Europa high quality laminated sand filter specially designed for swimming pool, spa and water features

- Totally non-corrosive fiberglass
- Durable in all weather conditions
- UV resistant surface finish provides protection to harmful exposure from sunlight
- Special designed finger laterals with side slots to maximum flow rate
- Smooth and high brightness appearance.
- 6 way multiport valve
- Sight glass for inspection of filtered water.
- Easy maintenance, easy cleaning.
- Maximum working pressure 2.5kg/cm²
- Testing pressure 4kg/cm²
- Maximum temperature 50°C
- Eco friendly filtration media



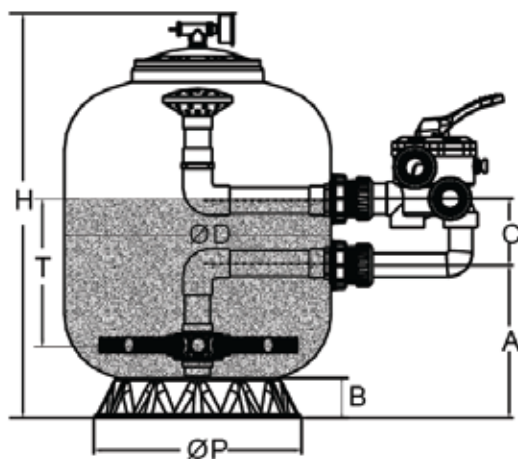
Clear Top Lid



Oyster



Pearl



Code	Diameter mm	Flow Rate m ³ /h	Connection	Filtration area m ²	Sand kg	H mm	A mm	C mm	M mm	B mm	Weight kg	Volume m ³
Oyster Side Mounted Filters												
00532450	450	7	1.5"	0.16	50	660	260	125	444	434	8.5	0.16
00532500	500	10	1.5"	0.20	100	745	280	125	464	471	12	0.21
00532650	650	15	1.5"	0.30	175	805	310	125	494	484	13	0.33
00532750	750	22	2"	0.37	225	885	360	125	534	544	20	0.44
00532800	800	25	2"	0.50	400	1020	385	220	680	695	41.5	0.70
00532900	900	32	2"	0.64	500	1120	430	220	725	745	48.5	0.95
Pearl Side Mounted Filters												
00534450	450	7	1.5"	0.16	50	660	260	125	444	434	8.5	0.16
00534500	500	10	1.5"	0.20	100	745	280	125	464	471	12	0.21
00534650	635	15	1.5"	0.30	175	805	310	125	494	484	13	0.33
00534750	700	22	2"	0.37	225	885	360	125	534	544	20	0.44
00534800	800	25	2"	0.50	400	1020	385	220	680	695	41.5	0.70
00534900	900	32	2"	0.64	500	1120	430	220	725	745	48.5	0.95



DOLPHIN SAND FILTER

Totally non-corrosive fiberglass and polyester resin 100% resistant to corrosion unlike conventional steel filters UV resistant surface finish provides protection to harmful exposure from sunlight Specially designed with side slots to maximize flow rate Supplied with pressure gauge, manual air vent, water purge and multiport valve.

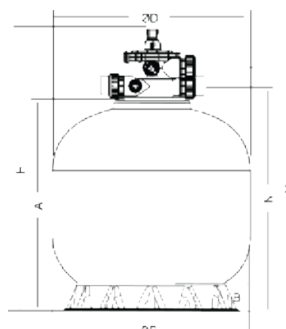
- Maximum filtration velocity 50m³/h/m².
- Maximum working pressure 2.5 kg/cm².
- Testing pressure 4kg/cm².
- Operating Water Temperature 1-50°C.
- Eco friendly filtration media

TOP MOUNTED

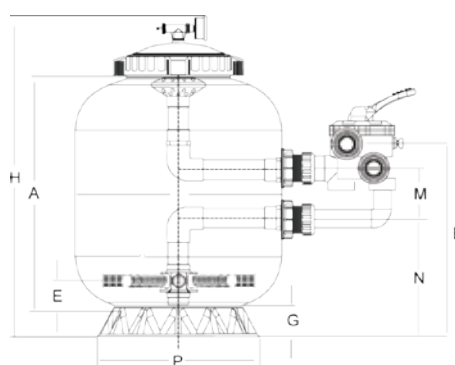
Equipped with 6-way top mounted multiport valve, thread style.

SIDE MOUNTED

Equipped with 6-way side mounted multiport valve, clear lid and treaded ring lock in ABS.



Top Mount



Side Mount



Transparent Top Lid



Code	Diameter mm	Flow Rate m ³ /h	Connection	Filtration area m ²	Sand kg	H mm	A mm	N mm	M mm	B mm	Weight kg	Volume m ³
Top Mounted Dolphin												
00310400	400	5.5	1 1/2"	0.11	28	720	482	535	595	-	9.5	0.082
00310450	450	7.0	1 1/2"	0.14	50	780	552	605	664	-	10.5	0.104
00310500	500	10.0	1 1/2"	0.20	80	830	592	645	704	-	14.0	0.168
00310650	650	15.0	1 1/2"	0.30	160	950	712	765	825	-	18.0	0.265
00310750	750	22.0	2"	0.37	220	1010	772	825	884	-	22.0	0.383
00310800	800	25.0	2"	0.50	370	1220	985	1038	1029	-	40.0	0.583
00310900	900	32.0	2"	0.64	447	1340	1037	1103	1182	-	42.0	0.784
03101000	1000	39.5	2"	0.79	700	1400	1097	1163	1242	-	44.5	1.273
03101100	1100	49.0	2"	0.98	960	1500	1197	1263	1342	-	57.0	1.623
03101200	1200	56.5	2"	1.13	1200	1600	1297	1363	1442	-	68.0	2.029
Side Mounted Dolphin												
00410450	450	7.0	1 1/2"	0.14	56	660	480	250	125	434	13.0	0.125
00410500	500	10.0	1 1/2"	0.20	90	745	530	287	125	471	15.3	0.166
00410650	650	15.0	1 1/2"	0.30	170	805	600	300	125	484	25.0	0.295
00410750	750	22.0	2"	0.37	225	885	700	360	125	544	27.0	0.406
00410800	800	25.0	2"	0.50	380	1020	660	400	220	695	41.0	0.614
00410900	900	32.0	2"	0.64	453	1110	750	450	220	745	50.0	0.832
04101000	1000	39.5	2"	0.79	712	1140	835	500	220	795	64.0	2.029
04101200	1200	56.5	2"	1.13	1220	1385	1035	595	220	890	76.5	2.246



BLUE DOLPHIN WITH SIDE CLAMP

- Totally non-corrosive fiberglass and polyester resin
- 100% resistant to corrosion unlike conventional steel filters
- Durable in all weather conditions
- UV resistant surface finish provides protection to harmful exposure from sunlight
- Specially designed finger-laterals with side slots to maximize flow rate
- Supplied with pressure gauge, manual air vent, water purge and multiport valve
- Maximum filtration velocity: 50m³/h/m².
- Maximum working pressure: 2.5 kg/cm².
- Testing Pressure: 4kg/cm².
- Operating Water Temperature 0-50°C.
- Eco friendly filtration media



Top Mounted



Transparent Lid

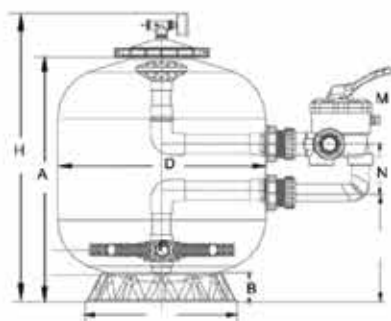


TOP MOUNTED

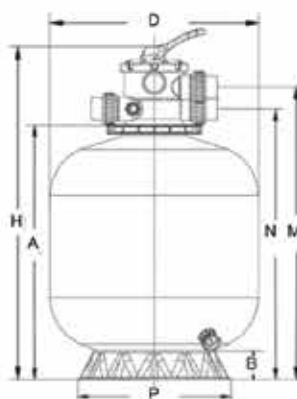
Equipped with 6-way top mounted multiport valve, clamp locked type.

SIDE MOUNTED

Equipped with 6-way side mounted multiport valve, closed lid, clamp locked type.



Side Mount



Top Mount



Code	Diameter	Flow rate	Connections	Filtration	Sand	H	A	N	M	B	P	Weight	Volume
Side mounted blue dolphin													
00520400	400	5.5	1 1/2"	0.11	34	720	482	535	594	75	390	9.4	0.10
00520450	450	7.0	1 1/2"	0.14	43	790	552	605	664	75	390	12.6	0.12
00520500	500	10.0	1 1/2"	0.20	83	830	592	645	704	75	390	13.4	0.20
00520650	650	15.0	1 1/2"	0.30	142	950	712	765	825	95	565	18.6	0.32
00520700	700	18.5	2"	0.37	212	1010	772	825	884	95	565	22.6	0.43
Side mounted red dolphin													
00530450	450	7.0	1 1/2"	0.14	49	715	480	250	125	75	390	13.0	0.14
00530550	500	10.0	1 1/2"	0.20	83	770	530	287	125	75	390	14.0	0.21
00530650	650	15.0	1 1/2"	0.30	142	848	600	300	125	95	565	21.5	0.34
00530700	700	18.5	2"	0.37	212	950	700	360	125	95	565	25.0	0.45

Flow rate are calculated at a velocity of 50m³ hr /m²

Sand granulometry 0.4-0.8mm

FILTRATION Deep Bed Sand Filters



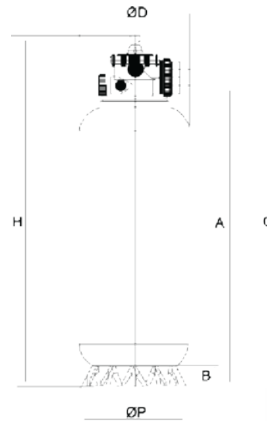
BELMA DEEP BED HIGH PERFORMANCE FILTER

Improvement of flow ability provided ultra-pure water filtration Ideal for Water treatment application operating at maximum working pressure of 4 kg/cm² Fiberglass winding allows the filter to have extra strength Resistance to chemical and corrosives Supplied with 6-way 1 1/2" Top Multiport valve with self sealing barrel unions.

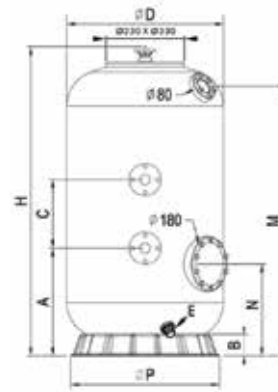
- Filtration Bed 0.9-1.2 m
- Maximum working pressure 4 kg/cm².
- Operating Water Temperature 0-50°C

BELMA WIDE HIGH PERFORMANCE COMMERCIAL VERTICAL FILTER

- Additional media depth ensures better water clarity
- Reinforced polyester with glass fiber
- Completely anti-corrosive
- High mechanical, chemical and thermal resistance
- Height of filtering layer initiates tapping of dirt at various levels for easy removal of finer particles
- Different heights available for the same size for industrial application Ideal for public pools, aquariums, fish ponds and water treatment plants
- Filtration Bed: 1.2 m
- Flanged connection varying from 2"-3"
- Eco friendly filtration media



Belma Deep



Belma wide



Belma Deep



Belma Wide



OPTIONS

- Sight manholes
- Sight glass and air relief valve and nozzle plate distributor.
- Maximum working pressure: 4kg/cm²
- Operating water temperature: 0-50°C.

Code	Diameter (mm)	Flow rate (m ³ /h)	Connections	Filtration (area m ²)	Sand (kg)	Gravel (kg)	H (mm)	A (mm)	C (mm)	P (mm)	Weight (kg)	Volume (package m ³)
BELMA Deep												
00540400	400	5.5	1 1/2"	0.13	112	-	1300	1115	1171	390	18.5	0.173
00540450	450	6.5	1 1/2"	0.16	143	-	1300	1115	1171	390	24.0	0.217
00540500	500	8.0	1 1/2"	0.20	172	-	1300	1115	1171	390	27.0	0.289
00540600	600	11.2	1 1/2"	0.28	230	-	1300	1115	1171	565	28.0	0.421
00540750	750	15.2	2"	0.38	325	-	1300	1115	1145	565	30.5	0.519
00540400	400	5.2	1 1/2"	0.13	141	-	1500	1315	1374	390	21.0	0.218
00540450	450	6.4	1 1/2"	0.16	165	-	1500	1315	1374	390	27.5	0.275
00540500	500	8.0	1 1/2"	0.20	220	-	1500	1315	1373	390	33.0	0.365
00540600	600	11.2	1 1/2"	0.28	307	-	1500	1315	1374	565	34.5	0.532
00550750	750	15.2	2"	0.38	430	-	1500	1315	1374	565	36.5	0.655
BELMA Wide												
00550800	800	20.0	2"	0.50	470	200	1600	550	350	690	74.5	1.231
00550900	900	25.6	2"	0.64	590	255	1600	550	350	760	78.6	1.539
00551000	1000	31.6	2"	0.79	729	301	1600	550	350	830	90.0	2.257
00551200	1200	45.2	2"	1.13	840	490	1600	650	350	980	104.0	3.112
00550801	800	20.0	2"	0.50	840	200	2100	550	350	690	102.0	1.591
00550901	900	25.6	2"	0.64	1035	255	2100	550	350	760	110.0	1.989
00551001	1000	31.6	2"	0.79	1280	301	2100	550	350	830	124.5	2.917
00551201	1200	45.2	3"	1.13	1634	490	2100	650	350	980	147.0	4.022

Flow rates are calculated at a velocity of 50m³/hr/m²

Sand granulometry 0.4-0.8 mm





PYRAMID COMMERCIAL BOBBIN WOUND FIBERGLASS SAND FILTER 1200-3000 MM DIA

Proteam Europa commercial filter Developed to meet the most demanding installation for Olympic pools, semi-olympic pools, aquatic parks and water treatment. Extensive construction with polyester and glass fiber winding high resistance and high quality of water filtration spiral cover system supports the operations of opening and closing Filters supplied with flange connection from 3" to 8" for connection to a battery of 4/5 butterfly valves. For ozone applications, filters can be lined with vinyl-ester on demand Standard internal distribution system Collector arms, 400 mm top cover. The distance between the upper part of the sand layer and the diffuser head is increased to ensure greater distribution of water in the filtration phase and avoid sand split into the laterals during backwashing.

FEATURES

- Filtration bed 0.1-1.2m
- Valve manifold frontal piping or butterfly valve assembly to be ordered separately
- Maximum working pressure 2.5 kg/cm².
- Testing Pressure 4kg/cm².
- Operating water temperature 0-50°C
- Eco friendly filtration media

OPTIONS

- Sight manholes
- Sight glass
- Air relief valve
- Nozzle plate distributor
- Filters with 4 and 6 kg/cm² can be manufactured.
- Connection of multiple filters to the same PVC battery completely mounted is available.
- Specifically used at velocities 20-25 m³/h/m².

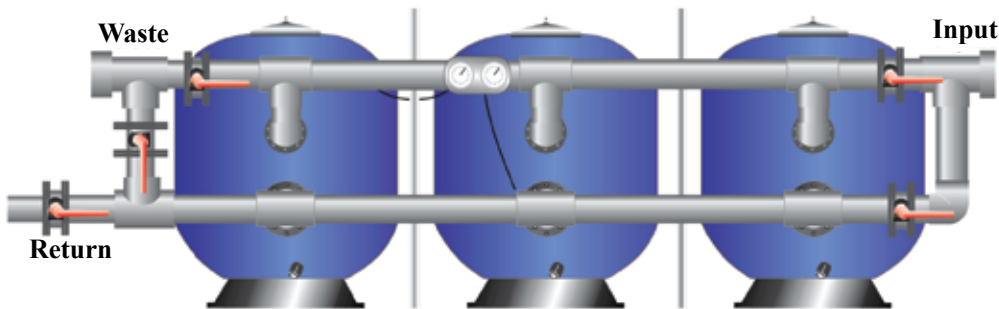
On demand, filters with special heights can be produced.



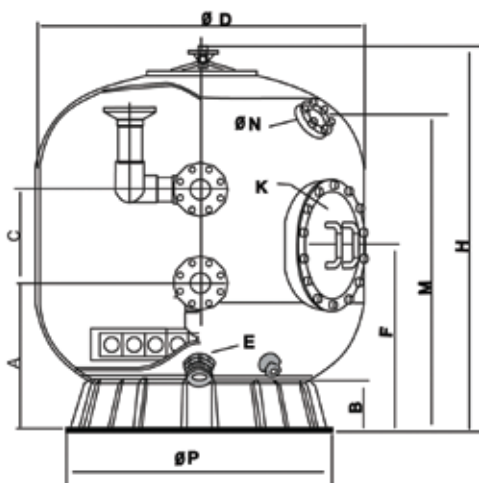
Sight Glass



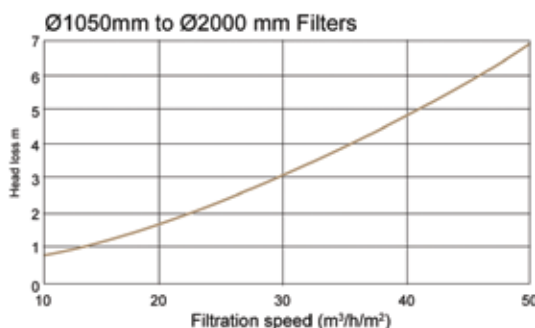
Manhole



PYRAMID COMMERCIAL BOBBIN WOUND FIBERGLASS SAND FILTER



Pressure Drop Graph



Top Manhole Lid



Collectors Arms Internal Distribution System



Nozzle Plate Internal Distribution System

Code	Diameter mm	Velocity (m³/h/m²)	Flow Rate (m³/h)	Connections mm/inches	Filtration (Area m²)	Sand Kg	Gravel In Operation	Total Weight Kg
Pyramid								
05601200	1200	30/40	34/45	D90/80 3"	1.13	1250	300	3000
05601400	1400	30/40	46/62	D110/100 4"	1.54	1760	500	4300
05601600	1600	30/40	60/80	D110/100 4"	2.01	2450	750	5800
05601800	1800	30/40	76/102	D160/150 6"	2.54	3100	750	7300
05602000	2000	30/40	94/126	D160/150 6"	3.14	3800	1150	9000
05602350	2350	30/40	130/174	D225/200 8"	4.34	5275	1600	13750
05602500	2500	30/40	147/196	D225/200 8"	4.90	5950	5950	14850
05603000	3000	30/40	212/282	D225/200 8"	7.07	8600	3300	21650



Maximum working pressure 2.5kg/cm². 4 and 6kg/cm² on demand. Sand granulometry 0.4-0.8 mm. Gravel 1-2 mm.

Code	Diameter (mm)	H (mm)	A (mm)	B (mm)	C (mm)	P (mm)	F (mm)	M (mm)	K (mm)	N (mm)	E (mm)	Vol (liter)	Weight (kg)	Volume (package m³)
05601200	1200	1400	560	190	340	980	740	1150	400x300	80	60	1300	125	2.7
05601400	1400	1600	600	190	450	1215	800	1250	400x300	80	60	1900	145	3.7
05601600	1600	1750	680	240	450	1450	875	1450	400x300	80	60	2600	200	5.0
05601800	1800	1950	730	240	550	1610	910	1650	450x350	107	60	3400	315	6.4
05602000	2000	2100	800	240	550	1800	1050	1700	450x350	107	60	4400	385	8.7
05602350	2350	2400	940	280	600	2010	1070	1800	450x350	107	60	8045	537	14.8
05602500	2500	2450	960	280	600	2010	1100	1900	450x350	107	60	9050	780	19.5
05603000	3000	2650	1110	350	600	2650	1130	2150	450x350	107	60	12800	1350	29.0

• On demand, filters with special heights can be manufactured

• Filters with diameters greater than 2350 may require special transportation





BETA HORIZONTAL SAND FILTERS - DIAMETER FROM 1200-2000 MM - LENGTH 4000, 3500, 3000, 2500, 1900, AND 4500 MM.

Proteam Europa commercial filter developed to meet the most demanding installation for olympic pools, semi-olympic pools, aquatic parks and water treatment. Extensive construction with polyester and glass fiber winding high resistance and high quality of water filtration Spiral cover system supports the operations of opening and closing Filters supplied with flange connection from 3" to 8" for connection to a battery of 4/5 butterfly valves. For ozone applications, filters can be lined with vinyl-ester on demand Standard internal distribution system collector arms, 400 mm top cover.

FEATURES

- Supplied with 400 mm lateral manholes
- Lateral collectors
- Airbleed system
- Drain for sand and water
- Inlets and outlets with flanges
- Construction: Fiberglass reinforced polyester
- Totally anti-corrosive
- High mechanical, thermal and chemical resistance
- Internal components in PVC
- PP laterals with 0.3 mm slots, supplied with seals and gaskets
- Fitted with pressure gauge
- Manual air relief valve and water purge
- Filtration bed: 0.6-1-2m
- Eco friendly filtration media
- Hydraulic pressure test 1.5 times the maximum pressure.
- Available Maximum working pressure: 2.5 kg/cm^2 and 4 kg/cm^2 .
- Filters with 6 kg/cm^2 can be manufactured on demand.



Horizontal sand filters gives the maximum filtration area and are preferred if space is limited. Connection of multiple filters to the same PVC battery completely mounted is available. Specifically used at low velocities. Selection of filtration pumps as per the head loss. Greater diameter of collector arms reduces the head loss. Valve manifold not included.



Nozzle Plate Internal Distribution System



Sight Glass



Drain

Standard Internal Distribution System

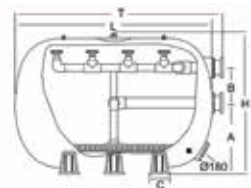
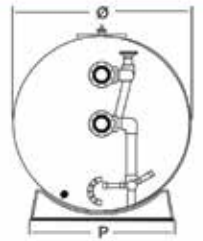


FILTRATION Commercial Horizontal Sand Filters



TECHNICAL SPECIFICATION

Code	Length	Velocity	Flow Rate	Dia N mm@	Outlet Dia	Filtration	Sand	Gravel	Filtration	
2.5bar	4bar	mm	m ³ /h/m ²	m ³ /hVelc.30/40	VI.30/40	mm@VI.30/40	area m ²	Kg	Kg	Bed mm
Beta Filters @ dia 1200mm										
05702050	05702051	1900	30/40	59/79	DN110/125	125/140	1.96	1100	425	0.6
05702450	05702451	2300	30/40	73/97	DN125/150	140/160	2.42	1425	550	0.6
05702650	05702651	2500	30/40	79/106	DN125/150	140/160	2.65	1750	700	0.6
05702850	05702851	2700	30/40	86/115	DN125/150	140/160	2.87	2075	825	0.6
05703150	05703151	3000	30/40	96/129	DN125/150	140/160	3.21	2325	925	0.6
Beta Filters @ dia 1400mm										
05712150	05712151	1900	30/40	67/89	DN110/125	125/140	2.23	2100	575	0.8
05712650	05712651	2500	30/40	91/121	DN125/150	140/160	3.02	2825	800	0.8
05713150	05713151	3000	30/40	110/147	DN150/175	160/200	3.67	3450	1000	0.8
Beta Filters @ dia 1600mm										
05722100	05722101	1900	30/40	74/99	DN125/150	140/160	2.47	2850	600	0.8
05722700	05722701	2500	30/40	101/134	DN150/175	140/160	3.36	3875	850	0.8
05723200	05723201	3000	30/40	123/164	DN175/200	140/160	4.10	4750	1050	0.8
Beta Filters @ dia 1800mm										
05732700	05732701	2500	30/40	112/150	DN150/175	160/200	3.74	4850	975	1.0
05733200	05733201	3000	30/40	137/183	DN150/175	160/200	4.58	5925	1225	1.0
05733700	05733701	3500	30/40	162/126	DN150/200	200/225	5.41	7000	1475	1.0
Beta Filters @ dia 2000mm										
05742730	05742731	2500	30/40	130/174	DN160/200	160/200	4.34	6575	1050	1-1.2
05743230	05743231	3000	30/40	159/212	DN160/200	160/200	5.3	8025	1300	1-1.2
05743730	05743731	3500	30/40	187/250	DN200/225	200/225	6.25	9475	1550	1-1.2
05744230	05744231	4000	30/40	216/288	DN200/225	200/225	7.21	10925	1800	1-1.2
05744730	05744731	4500	30/40	245/326	DN225/250	225/250	8.16	12375	2075	1-1.2



Code	H	A	B	C	T	P	Vol	Weight (kg)	Valume	Total Weight
2.5 bar	mm	mm	mm	mm	mm	mm	L	2.5bar	Package m³	in Operation kg
Beta Filters @ dia 1200mm										
05702050	05702051	1390	725	340	200	2050	900	1900	270	3220
05702450	05702451	1390	725	340	200	2450	900	2350	330	3960
05702650	05702651	1390	725	340	200	2650	900	2580	360	4320
05702850	05702851	1390	725	340	200	2850	900	2800	390	4690
05703150	05703151	1390	725	340	200	3150	900	3140	435	5240
Beta Filters @ dia 1400mm										
05712150	05712151	1600	810	400	210	2150	960	2530	340	4250
05712650	05712651	1600	810	400	210	2650	960	3460	435	5740
05713150	05713151	1600	810	400	210	3150	960	4230	530	6990
Beta Filters @ dia 1600mm										
05722100	05722101	1830	925	450	240	2100	1230	3220	400	5420
05722700	05722701	1830	925	450	240	2700	1230	4430	520	7400
05723200	05723201	1830	925	450	240	3200	1230	5430	620	9020
Beta Filters @ dia 1800mm										
05732700	05732701	2050	1040	550	240	2700	1380	5530	585	9170
05733200	05733201	2050	1040	550	240	3200	1380	3800	700	11230
05733700	05733701	2050	1040	550	240	3700	1380	8070	875	13290
Beta Filters @ dia 2000mm										
05742730	05742731	2220	1090	550	300	2730	1500	6900	650	11300
05743230	05743231	2220	1090	550	300	3230	1500	8470	775	13790
05743730	05743731	2220	1090	550	300	3730	1500	10040	900	16280
05744230	05744231	2220	1090	550	300	4230	1500	11600	1025	18780
05744730	05744731	2220	1090	550	300	4730	1500	13180	1150	21380



Maximum working pressure: 2.5kg/cm². 4 and 6kg/cm² on demand.
Sand granulometry 0.4-0.8 mm. Gravel 1-2 mm.





RESIDENTIAL STAINLESS STEEL SAND FILTER

Proteam Europa filter made of reliable and resistant AISI 304 / 316 stainless steel. High performance for UV and corrosion resistant. Customized different size according to client need. Heat resistance can be more than 300 degree and working life can be up to 50 years.

- Maximum working pressure 2.5kg/cm²,
- Testing pressure 4kg/cm²
- Filter with 6 to 17 kg/cm² can be manufactured
- Size of silica sand 0.5 to 8mm

TOP MOUNTED FILTER

Code	Diameter	Height(mm)	Flow (m ³ /h)	Filtration Area (m ²)	Connection (mm)
00584400	400	740	7	0.13	48/50
00584500	500	840	10	0.22	48/50
00584600	600	960	15	0.33	48/50
00584700	700	1025	22	0.38	48/50
00584800	800	1200	25	0.50	48/50
00584900	900	1180	32	0.64	60/63
00584100	1000	1220	39	0.79	60/63
00584120	1200	1410	45	1.13	60/63

SIDE MOUNTED FILTER

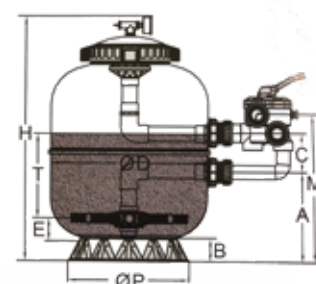
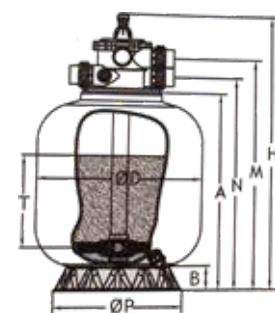
Code	Diameter	Height (mm)	Flow (m ³ /h)	Filtration Area (m ²)	Connection (mm)
00585500	500	770	10	0.22	48/50
00585600	600	850	15	0.33	48/50
00585700	700	960	22	0.38	48/50
00585800	800	1015	25	0.50	60/63
00585900	900	1180	32	0.64	60/63
00585100	1000	1220	39	0.79	60/63

SIDE MOUNTED FILTER DIMENSIONS

Code	00585500	00585600	00585700	00585800	00585900	00585100
D	500	600	700	800	900	1000
H	770	850	960	1015	1180	1220
A	260	280	310	360	385	430
B	75	75	95	95	115	115
C	125	125	125	125	220	220
M	444	464	494	534	680	725
P	390	390	565	565	790	790
T	250	280	300	350	420	480

TOP MOUNTED FILTER DIMENSIONS

Code	00584400	00584500	00584600	00584700	00584800	00584900	00584100	00584120
D	400	500	600	700	800	900	1000	1200
H	740	840	960	1025	1200	1180	1220	1410
A	500	620	870	625	725	845	970	970
B	75	75	75	95	95	120	120	120
C	609	674	620	775	835	988	1122	1122
M	550	615	729	676	776	908	1032	1032
P	390	390	390	565	565	790	790	790
T	160	220	260	370	450	500	550	550



BORO RESIDENTIAL STAINLESS STEEL SAND FILTER

Proteam Europa commercial stainless steel sand filter made in AISI 304/316, tank diameter available from 1000mm to 2500mm. The filter is mainly used for large filtering system. High performance for UV and corrosion resistant. Customized different size according to client need. Heat resistance can be more than 300 degree and working life can be up to 50 years.



- Maximum working pressure 2.5kg/cm²,
- Testing pressure 4kg/cm²
- Filter with 6 to 17 kg/cm² can be manufactured

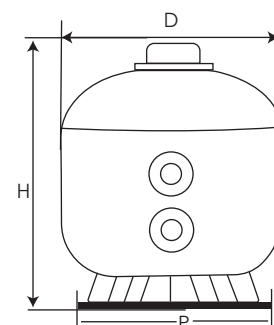
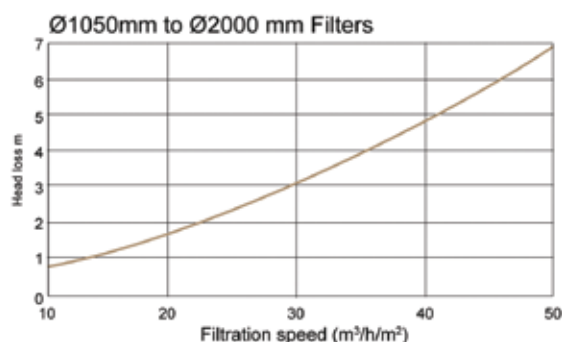
Code	Dia	Velocity	Flow(m ² /h)	Connection	Filter area	Sand Loading(kg)
05871200	1200	30/40	34/45	90/80	1.13	1150
05871400	1400	30/40	46/62	110/100	1.54	1850
05871600	1600	30/40	60/80	110/100	2.01	2300
05871800	1800	30/40	76/102	160/150	2.54	2900
05872000	2000	30/40	94/126	160/150	3.14	4600
05872300	2300	30/40	130/174	225/200	4.34	5950
05872500	2500	30/40	147/196	225/200	4.90	6650



FILTER DIMENSIONS

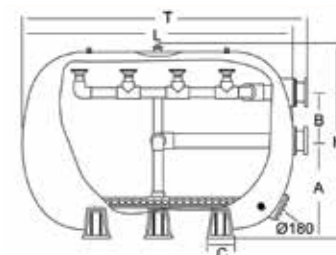
Code	Dia	H	P
05871200	1200	1400	980
05871400	1400	1600	1215
05871600	1600	1800	1450
05871800	1800	2000	1610
05872000	2000	2200	1800
05872300	2300	2300	2010
05872500	2500	2400	2010

Pressure Drop Graph



HORIZONTAL SAND FILTER

Code	Length mm	Dia	Velocity	Flow(m ³ /h)	Connection mm	Filter area m ²	Sand (kg)
05881400	3000	1400	30/40	110/147	110/100	3.68	4500
05881401	4000	1400	30/40	125/170	110/100	4.90	5500
05881402	5000	1400	30/40	140/185	110/100	6.12	6800
05881600	3000	1600	30/40	123/164	160/150	4.11	5800
05881601	4000	1600	30/40	145/180	160/150	5.47	6900
05881602	5000	1600	30/40	155/200	160/150	6.84	7800
05881800	3000	1800	30/40	137/183	160/150	4.59	1800
05881801	4000	1800	30/40	187/250	160/150	6.11	7200
05881802	5000	1800	30/40	200/280	160/150	7.64	9750
05882000	3000	2000	30/40	159/212	225/200	5.31	9375
05882001	4000	2000	30/40	216/288	225/200	7.07	11900
05882002	5000	2000	30/40	260/355	225/200	8.84	14500





Side Multiport Valve



Top Multiport Valve



Top Multiport Valve



Top Multiport Valve Clamp



Top Multiport Valve Clamp

SIX-WAY MULTIPORT VALVE

- Different function in a hydraulic circuit
- Filtration
- Draining
- Backwashing
- Circulation
- Rinsing
- Shut off

Housing, cover and handle are made of ABS, gasket in EPDM and metallic components in S.S. and distributor in PPE Multiport valves (MPV) are available in two different configurations. Top and Side Multiport valves. Top Multiport valve has two connections. 1 1/2" and 2". Side Multiport valve has three connections. 1 1/2", 2" and 2 1/2". The design offers a wide range of possibilities to any installation, assuring perfect water-tightness and comfortable handling. With an innovative design, ease of handling and maximum reliability, these multiport valves are a basic element in achieving the perfect condition of your pool.

MULTIPORT VALVE FUNCTIONS

- **Filter** Normal filtration and vacuuming.
- **Backwash** Cleaning filter by reversing water flow
- **Rinse** Used after backwash to flush dirt from valve and pipes
- **Waste** Filter by-pass option to discharge dirt from vacuuming to waste or lower water level
- **Recirculate** Filter by-pass option to circulate water back to pool directly
- **Close** Stop all flow to filter or pool

Code	Dimension (mm)	Dimension (inch)	Color	Weight	Volume
Side Multiport Valve - Dolphin					
00400015	50	1 1/2"	Black	3.8	0.02
00400020	63	2"	Black	5.0	0.04
00400025	75	2 1/2"	Black	9.5	0.06
Side Multiport Valve - Parasol					
00510015	50	1 1/2"	White	3.8	0.02
00510020	63	2"	White	5.0	0.04
00510025	75	2 1/2"	White	9.5	0.06
Top Multiport Valve - Dolphin/Belma Deep					
00300015	50	1 1/2"	White	2.6	0.02
00300020	63	2"	White	5.0	0.028
Side Multiport Valve - Blue Dolphin					
05300015	50	1 1/2"	Black	3.8	0.02
Top Multiport Valve - Dora					
05300015	50	1 1/2"	Black	5.0	0.028
Top Multiport Valve - Dora					
00400015	50	1 1/2"	White	3.8	0.02
00400020	63	2"	White	5.0	0.04

AUTOMATIC MULTIPORT VALVES

AUTOMATIC SYSTEM AVAILABLE IN

- 1 1/2" TOP MPV
- 2" TOP MPV
- 1 1/2" SIDE MPV
- 2" SIDE MPV

Includes an integrated programmable keypad which allows access to the system in order to perform the following operations

FILTRATION Starts up when it receives the instruction from the timer installed in the control panel or any external programmed instruction.

WASH Starts up automatically on receiving a signal from either the pressure switch on the timer - but least once a week.

RINSE Begins automatically after each rinse cycle.

EMPTY Push-button operated, which positions the valve.
This must be confirmed via the control box.
This element prevents accidental emptying of pool.

TECHNICAL DATA

Nominal voltage	1/N/PE 230/50Hz
Backwash pump switching capacity	1,1kW AC3 230V
Actuating drive	230V
Pressure switch	12V
Protection rating	IP 54
Static hydraulic pressure	Max. 0.3 bar
Housing size	245 x 140 x 110 mm

PROTEAM EUROPA AUTOMATIC MPV (00601015)

The need for innovation in the pool industry has led PROTEAM Europa to develop an automatic multiport valve capable of replacing traditional manual valves.

To keep pool water in peak condition, the filtering system must be run properly every day, including any filter backwashes required. If water quality is not properly maintained, Swimming can cause a health risk and costly refilling of water and shock treatment with chemicals may be necessary. PROTEAM Europa developed the automatic multiport valve that allows user to forget completely about pool filtering. Voltage 230/115V

EUROTRONIC-10 MPV (00602015)

Backwash control with microprocessor technology with foil keyboard and LCD display with plain text display. Our protected quick coupling allows fitting to 1 1/2" and 2" backwash valves made by various manufacturers. The valve can be moved to the "closed" position by pressing a button.

All 4 valve position are scanned without being touched. Connection are available for backwash pump, pressure switch and valve.

EUROTRONIC-20 MPV (00603015)

This backwash control is essentially identical to the Eurotronic-20 MPV. However, it has additionally a run -time control for a 230V filter pump. The filter run-times can be programmed directly on the operating panel. Furthermore, the filter pump can be manually switched on and off. The integrated timeswitch or the appropriate key on the keyboard can be used to switch a 230v filter pump (max.1.1kw) on and off.



Eurotronic-10



Eurotronic-20



Manual Manifold

MANUAL MANIFOLD VALVE

Manual valve battery for commercial filter applications, fitted with PVC pipes and fittings. Comes with double glass pressure gauge. All manual or automatically driven valve manifolds are made with flanges for connections to filters as per DIN - 2501 standard.

AUTOMATIC BATTERY VALVE 4 & 5 WITH PNEUMATIC OR ELECTRIC ACTUATOR

AUTOMATIC BATTERY VALVES

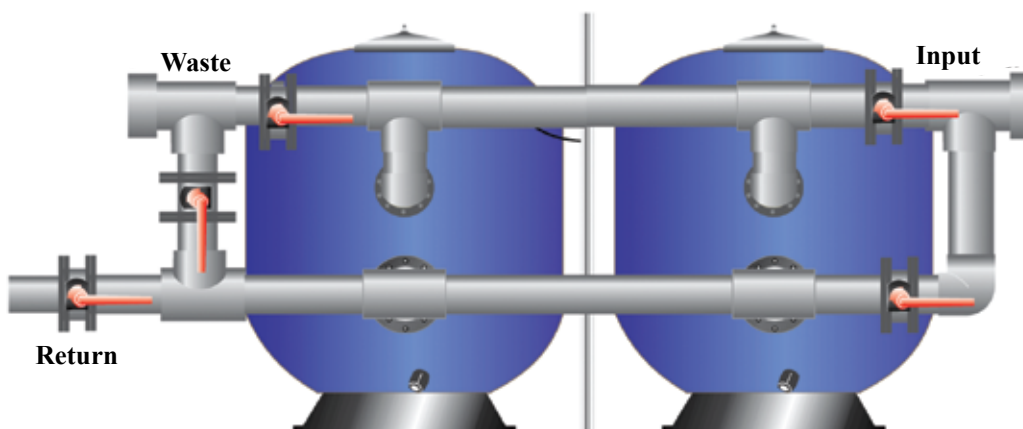
Automatic valve battery sets are delivered completely assembled including a manometer panel with testing valves and the pipe supports (pipe supports are only supplied for filters with connections larger than 90 mm) They can be supplied with automatic PVC butterfly valves and automatic valve battery sets with electric or pneumatic actuator. PP (polypropylene) valves upon request. Fully automatic valve battery for horizontal and vertical filters, driven either by electric power or Pneumatically activated. Capable of performing filtration, backwash, rinse and shut down operations of the filter. Each valve battery consists of 5 butterfly valves, but can be supplied, according to the needs and requirements of each installation upon request, for 1,2 or more filters, with more or less number of valves, connections in different positions, different heights, etc. In certain cases, it can be helpful to use a full equipped automatic valve battery set, mounted and ready to work. We can offer an automatic valve battery set with pneumatic/electric actuators installed in the same battery with an electronic control box and its manometer panel. With all connected equipments and after the installations of the battery to the filter, only with the regulation on the control box, the filtration equipment will be ready to work.



Automatic Back Wash system



Automatic valve with
Pneumatic actuator



Automatic Valve with
Electric actuator

Code (Manual)	Code (Automatic) (Electric)	Code (Pneumatic)	Discription	Connections mm	inch
4 - Valve & 5 - Valve battery					
05604003	05651030	05652030	4 - Valve Battery	D90	3"
05604004	05651040	05652040	4 - Valve Battery	D110	4"
05604005	05651050	05652050	4 - Valve Battery	D140	5"
05604006	05651060	05652060	4 - Valve Battery	D160	6"
05604008	05651080	05652080	4 - Valve Battery	D225	8"
05650030	05653003	05654003	5 - Valve Battery	D90	3"
05650040	05653004	05654004	5 - Valve Battery	D110	4"
05650060	05653006	05654006	5 - Valve Battery	D160	6"
05650080	05653008	05654008	5 - Valve Battery	D225	8"

Filter Diameter (mm)	Connections (Inch)
Manual & Automatic - 4 & 5 - valve battery	
Belma Wide 1200	3"
Pyramid 1200	3"
Pyramid 1400	4"
Pyramid 1600	4"
Pyramid 1800	6"
Pyramid 2000	6"
Pyramid 2350	8"
Pyramid 2500	8"
Pyramid 3000	8"

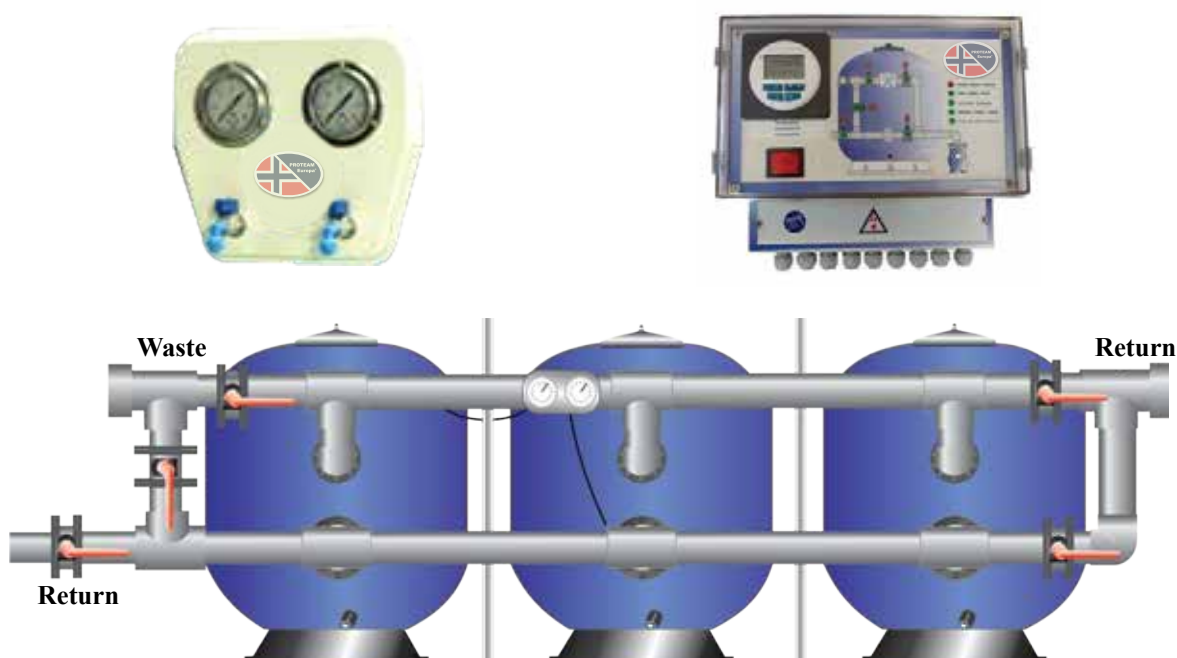


CONTROL PANEL

Control panel for electrically or pneumatically actuated manifolds of 4 or 5 valves. For automatic filtration, backwashing, rinsing and shut-down operations, control panel with automatic Programming enables the execution of all the required operations and can be customized. Electric - or pneumatic driven butterfly valve assembly with 4 - butterfly valves for performing similar functions as 5 valve except rinse operation. Fitted with PVC pipes and fittings and double glass pressure gauge.

NOTE

Overhead PVC pressure pipe installations should be mounted on supports. The SS304 Butterfly valve assembly supports are not part of standard assembly kit and must be ordered separately. It is highly recommended to support the butterfly valve assembly in order to avoid load stress on the flange connections. It is possible to connect more than one filter to a single assembly of 5 butterfly valves as shown above. However, ensure that the pump capacity is oversized to take care of the addition head loss during the backwash operation. This kind of assembly is generally used in filter plants operating at velocity: $20\text{-}25\text{m}^3/\text{hr}/\text{m}^2$.





LIFE SUPPORT UNIT

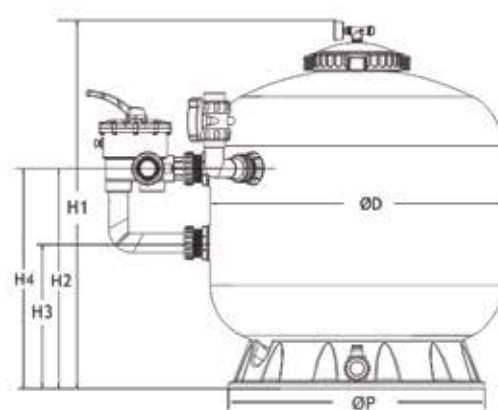
Proteam Europa BOGA model biological filter specially designed for pond and aquarium. Biological filter are closed pressure filter containing food grade polyethylene granules or beads. The foam and size of the beads create a large surface on which bacteria and suspended solid can life attached it. It provides mechanical and biological filtration at a single unit which complete with bobbin wound filter, multiport valve, piping circulation pump, air blower, control box and base. It has been engined uniquely for pond and aquarium.

TECHNICAL SPECIFICATIONS

Code	Diameter	Flow rate (m3/h)	Pond size (M3)	Fish load (kg)	Food (pr)
00594450	450	7	6	20	200
00594500	500	10	10	35	350
00594650	650	15	30	78	780
00594750	750	22	34	94	940
00594800	800	25	52	124	1240
00594900	900	32	73	172	1720
00594120	1200	56	148	310	3100

DIMENSIONS

ØD(mm)	450	500	650	700	800	900	1200
H1	661	731	792	887	1022	1113	1352
H2	386	406	436	521	606	651	821
H3	261	281	311	301	386	431	601
H4	386	406	436	481	601	651	821
P	391	391	566	506	791	791	1011





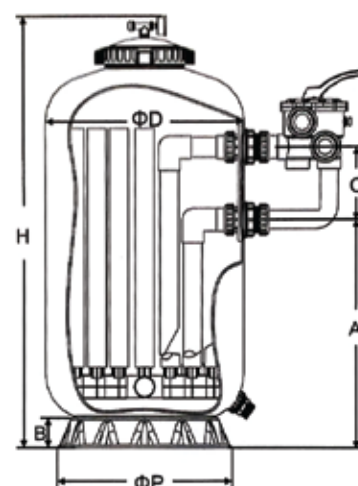
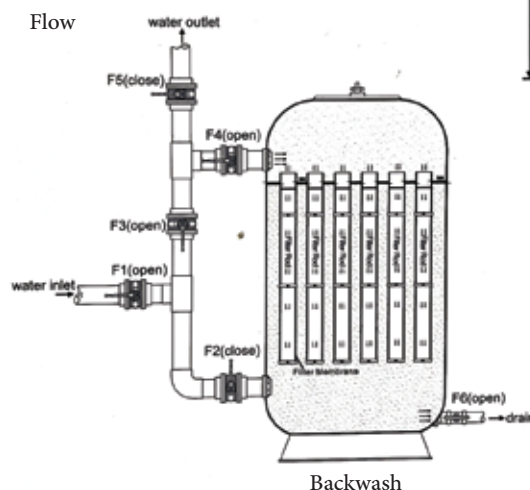
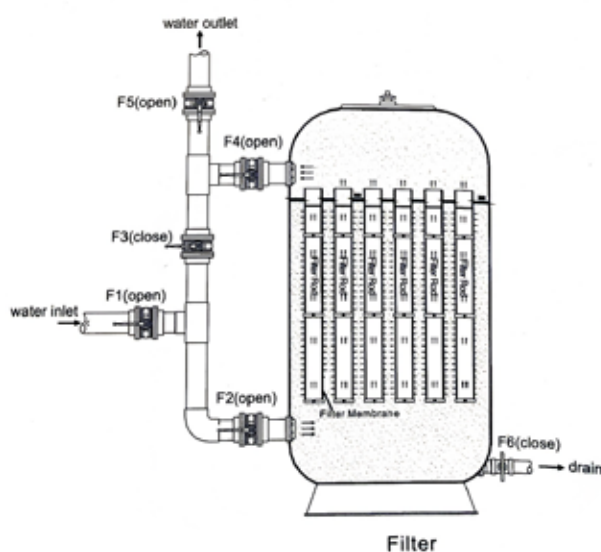
DIATOMACEOUS EARTH FIBERGLASS FILTERS

Proteam Europa Diatomaceous earth filter specially designed for pools. Performance of the diatomaceous earth media in the world safest and easiest to operate. D.E is historically the media of choice for the designers of some of the largest and most beautiful pools in the world, it is now more practical for all backyard pools as well. It brings you the proven performance of diatomaceous earth media in the world's safest and easiest to operate filter. The greater cycle times and minimized maintenance of the filter, coupled with superior grid system, gives you the finest D.E filter available.

FEATURES

- Good and crude media for filtration - Diatomaceous (DE)
- High filter precision, can reach 2~3µm.
- Shorter time to backwash, save water and energy source.
- Deep bed designed, save area.
- Standard maximum working pressure 2.5bar.
- Optical maximum Working pressure 4.0bar.
- Maximum temperature 50°C

Code	Diameter mm	Size mm	Filtration area m ²	Flow m ³ /h	D.E(kg)
00596650	650	60/63	3.64	18	2
00596700	700	60/63	5.07	25	3
00596800	800	80	9.4	47	5
00596900	900	80	11	55	6
00596100	1000	100	15	75	8
00596120	1200	100	23.4	117	13
00596140	1400	150	32.6	163	19
00596160	1600	150	40.6	203	22
00596180	1800	200	53.4	267	30



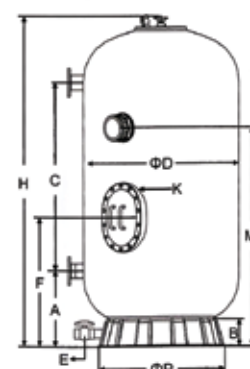


DIATOMACEOUS EARTH FIBERGLASS FILTERS

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- High filter precision, can reach 2~3 µm.
- Shorter time to backwash, save water and energy source.
- Deep bed designed, save area.
- Standard maximum working pressure 2.5bar.
- Optical maximum Working pressure 4.0bar.
- Maximum temperature 50°C

D(mm)	650	700	800	900	1000
H	1310	1340	2100	2100	2100
A	700	730	400	400	400
B	95	95	115	115	140
C	220	220	1300	1300	1300
E			50	50	50
F			900	900	900
K			400x300	400x300	400x300
M			1350	1350	1350
P	565	565	690	760	830

D(mm)	1200	1400	1600	1800
H	2300	2350	2350	2450
A	500	600	600	650
B	165	165	215	215
E	50	63	63	63
F	900	900	900	1000
K	400x300	400x300	400x300	400x300
M	1400	1400	1400	1450
P	980	1215	1450	1610



FILTRATION Wall Hanging Filtration



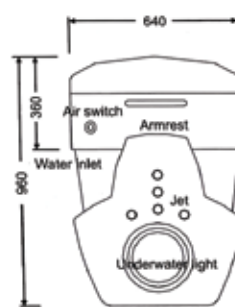
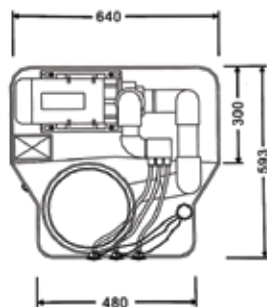
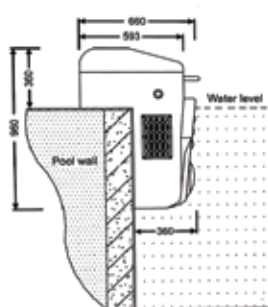
WALL HANGING FILTRATION UNIT

PROTEAM Europa wall hanging filter housing is made of high quality acrylic, the unit is easy for installation and assembles all the equipment of filtration, circulation, disinfection, drainage and lighting in one compact unit. It is also equipped with multifunctional jet which not only makes the pool water circulate, but also has functions of swimming training massage and fun in water. Extra fit for children pools.

TECHNICAL SPECIFICATION

Code	Pump	Voltage	Flow rate	Filter precision	Filtration Area	Noise	Size
00899120	1.2HP	220V	10-12m ³ /h	5μ	0.25m ²	40db	640x660x960mm

INSTALLATION DETAILS



WALL HANGING FILTRATION UNIT

PROTEAM Europa wall hanging filter made of high quality acrylic housing, the unit is to install and contain all the equipment for filtration, Circulation, disinfection, drainage and lighting in one compact unit. It is also equipped with a multifunctional jet which not only makes the pool water circulate, but also has function for swimming training ,massage and fun in the water.

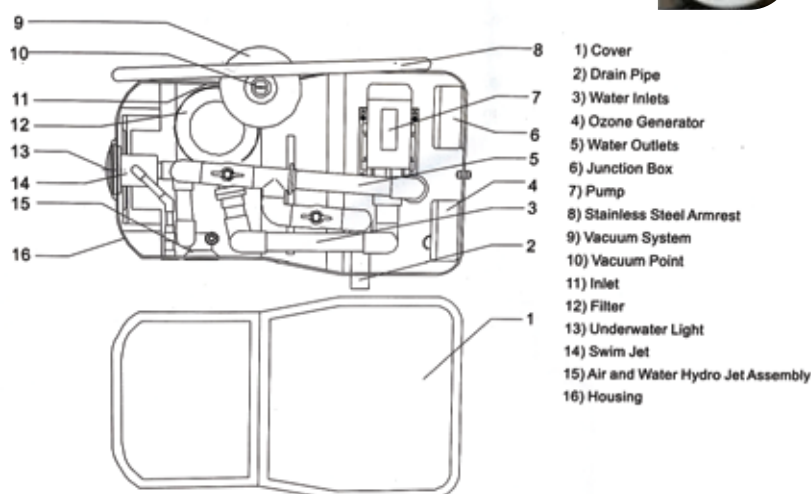
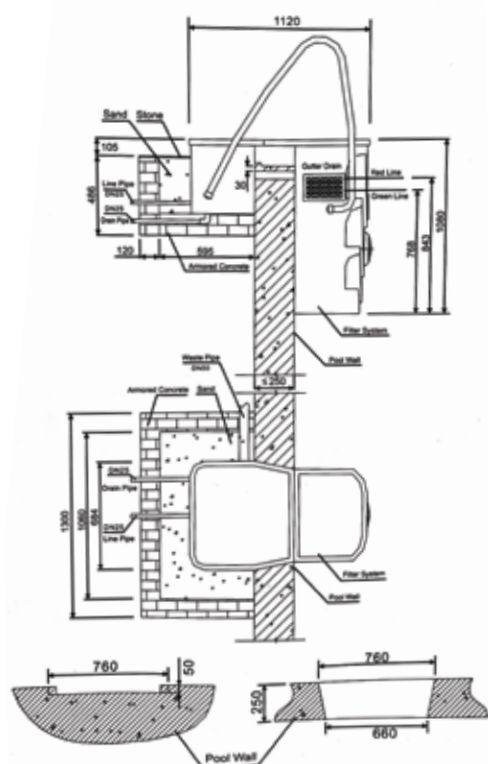
INSTALLATION DETAILS

- Place the unit in a proper position according to the installation detail drawing. Adjust with a level to make sure the tolerance is less than 2mm. Use the filler pieces to pack the unit level, fix the packing pieces, then fill in the vacant area with grout.
- Clear away any debris from the installation area , and make a datum mark before installation.
- Connect drain pipe and cable pipe as shown in the installation detail drawing.
- The control box must be damp - proofed, Electrical installaion and testing must be done by a licensed or certified electrician.
- Fill in the joint between the unit and pool wall with grout when installing , and seal it with sealant.
- After installaion , fill with sand around the unit board.
- Spread stones on the side of proof to match the pool structure Record the installation notes.

Code	Pump	Voltage	Flow rate	Filter precision	Filtration Area	Noise	Outer Size
00899121	2.0HP	220V	25m3/h	5μ	0.39m2	40db	1120x684x1080mm
00899122	2.0HP	220V	22m3/h	5μ	0.35m2	50db	1725x1112x684mm



INSTALLATION DETAILS



PROTEAM SERIES - WALL HANGING COMPACT FILTERS

FEATURES

- Elegant Acrylic body
- No water-leaking problem
- High-efficiency ozone disinfection
- Fully-automatic electronic control
- No piping and no plant room
- Swim jets with air control
- Energy saving LED light
- Easy installation and maintenance
- Vacuum point included
- Waterproof RF remote controller



Code 06062050 - Specifications	Code 00606125 - Specifications
230V/50Hz, 230V/60Hz or 115V/60Hz	230V/50Hz, 230V/60Hz or 115 V60Hz
Power consumption ~3.1kw	Power consumption ~ 1.6kw
Material of body: High-dense pure acryl (PMMA)	Body material: High-dense Pure acrylic (PMMA)
Digital Controller x 1 pcs	Digital controller x 1pcs
2HP circulation pump x 2pcs	2HP circulation pump x 1 pcs
Ozone generator (500mg/h) x 1pcs	Ozone generator (500mg/h) x 1 pcs
Underwater LED Light (18W/12V) x 1pcs	Underwater LED light (18W/12V) x 1 pcs
Swim jet x 2 pcs	Swim jet x 2 pcs
Chemical feeder x 2pcs	Chemical feeder x 2pcs
Filter bag x 2pcs	Filter bag x 2 pcs
Optional items	Optional item
R F waterproof remote controller is available	R F waterproof remote controller is available.
Flow rate: Max. 50m ³ /h	Flow rate: Max. 25m ³ /h
Filtration grade of filtration bag: <5u microns	Filtration grade of filtration bag:<5u microns
color for acrylic body: white	color for Acrylic body: white
Dimension: L1470 x W780 x H1030	Dimensions: L1450 x W640 x H1130mm
Packing size: L1470 x W780 x H1130	Packing size: L1470 x W660 x H1130mm
Gross weight: 95kgs	Gross weight: 85kgs





VOLTA CARTRIDGE FILTER

Proteam Europa cartridge filters offer added quality, value and convenience in cartridge filtration. With filter tanks constructed of fiber glass material, they are the good choice for the most demanding applications and environmental conditions. Proteam Europa cartridge filters have greater effective filtration area. Single Piece injection-modified base provides added strength for reliable, corrosion-free performance. Stainless steel clamp securely fastens head to filter tank. Durable filter head may be rotated to conveniently position pressure gauge and manual air relief. Extra-large cartridge element provides extra-strength and maximum flow 1½ " or 2" FIP, 2" SKT connections for plumbing versatility.

FEATURES

- UV Resistant Tank
- Heavy duty top lid allows easy cleaning and replacement of the cartridge element
- Compact and lite weight
- Screw type air bleeder for easy removal of trapped air inside the filter tank.
- High quality oil filled pressure gauge for easy inspection of the operation pressure
- The Maximum working pressure 2.5 bar
- Maximum temperature 40 °C

DIMENSIONS

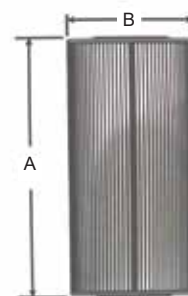
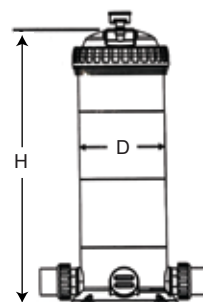
Code	00590250	00590500	00590550	00590600	00590650
H(mm)	368.00	548.00	728.00	908.00	1088.00
D	225.00	225.00	225.00	225.00	225.00
A	184.50	364.50	544.50	724.50	904.50
B	183.00	183.00	183.00	183.00	183.00

TECHNICAL SPECIFICATION

Code	Dia (mm)	Height (mm)	Flow (m3/h)	Area (m2)	Size (Inch)	Micron (µm)
00590250	225	368.00	6	2	1.5"	15
00590500	225	548.00	12	5	1.5"	15
00590550	225	728.00	16	7	1.5"	15
00590600	225	908.00	23	10	2"	15
00590650	225	1088.00	34	13	2"	16
00590700	225	1268.00	40	17	2"	15



Code	Elements
00590250	59-250-01
00590500	59-500-02
00590550	59-550-03
00590600	59-600-04
00590650	59-650-05
00590700	59-700-06



PORTABLE FILTRATION KIT WITH SAND FILTER

PROTEAM Europa compact filtration kit with trolley. The integrated circulation, filtration, and sterilization unit is assembled with bobbin wound sand filters, Circulation pump and chemical feeder. The unit is a multifunctional system assembled with precision, simple to operate, easy to install. It's optimal choice for filtering movable and inflated pools.

- Compact design for easy carriage and quick to install.
- Contains all the function of filtration and ready to use.
- The base uses singular forming which makes the base strong and durable.
- The operation of the unit is stable and reliable.
- The circulation pump has superior performance and extremely quite during operation.
- The filter bobbin wound top mounted
- Eco -friendly and anti - corrosive.
- Cable length will be 15 m with control switch
- The whole unit is accurately assembled, it is easy to install and maintain, it is suitable for moving pools and private pools.



Code	Filter dia (mm)	Pump (HP)	CL Feeder	Connection	Pool size	Phase	Cable length (m)
00595811	400	0.75	4kg	1.5"	30	1	10
00595812	500	1	4kg	1.5"	40	1	10
00595813	650	1.5	4kg	1.5"	50	1	10

PORTABLE FILTRATION KIT CARTRIDGE FILTER

- Compact design for easy carriage and quick to install.
- Contains all the function of filtration and ready to use.
- The base uses singular forming which makes the base strong and durable.
- The operation of the unit is stable and reliable.
- The circulation pump has superior performance and extremely quit during operation.
- Cartridge filter with cyclone pump
- Eco -friendly and anti - corrosive.
- Cable length will be 15 m with control switch
- The whole unit is accurately assembled ,it is easy to install and maintain, it is suitable for moving pools and private pools.

Code	Cartridge Filter Flow (mm)	Pump (HP)	CL Feeder	Connection	Pool size	Phase	Cable length (m)
00595814	6	0.75	4kg	1.5"	30	1	15
00595815	12	1	4kg	1.5"	40	1	15
00595816	16	1.5	4kg	1.5"	50	1	15
00595817	23	2	4kg	2"	60	1	15
00595818	34	2	4kg	2"	70	1	15





CARTRIDGE FILTERS CONVERTIBLE

PROTEAM Europa convertible filters specially designed for pool and ponds. Made of bobbin wound fiberglass tank with large clear lock ring sealed lid for easy to viewing filtration inside the filter.

- Large clear lock ring sealed lid for easy interior viewing and media installation and removal.
- UV inhibited filament wound structural fiberglass tanks
- 2" or 63mm inlet/outlet PVC unions
- Either 6 way multiport or push-pull valve available for DE models.
- Easy removal or installation of cartridges or DE elements.
- Cartridges in 20.9, 23.2, 35.3, 41.8 Sq.m2 sizes, fully convertible to DE.
- DE elements in 3.25, 4.18, 6.97, 8.39 Sq.m2 sizes, fully convertible to cartridge.
- Exclusive integral inlet and outlet manifold eliminates conventional bulkhead fittings.
- Hose drain valve allows removal of tank debris away from mechanical area.

CARTRIDGE FILTERS

Code	Diameter		Connection		Filtration area		Flow	
	mm	inches	mm	inches	m2	Ft2	m3/h	GPM
00593105	400	20	63	2	20.9	225	19.08	84
00593106	450	20	63	2	23.2	250	21.35	94
00593107	550	20	63	2	35.3	380	32.3	142
00593108	650	20	63	2	41.8	450	34.07	150
00593109	700	20	63	2	44.8	482	36.5	161

DE FILTERS

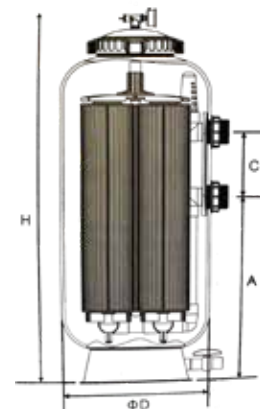
Code	Diameter		Connection		Filtration area		Flow	
	mm	inches	mm	inches	m2	Ft2	m3/h	GPM
00593110	400	20	63	2	3.25	35	15.9	70
00593111	450	20	63	2	4.18	45	20.44	90
00593112	550	20	63	2	6.97	75	34.07	150
00593113	650	20	63	2	8.36	90	34.07	150

CARTRIDGE ELEMENT

Code	00591110	00591115	00591120	00591125	00591130
D(mm)	400	450	550	650	700
H	1160	1160	1160	1160	1160
A	660	660	660	660	660
B	125	125	125	125	125
C	220	220	220	220	220

DE ELEMENT

Code	00592111	00592112	00592113	00592114
D(mm)	400	450	550	650
H	1160	1160	1160	1160
A	660	660	660	660
B	125	125	125	125
C	220	220	220	220



INGROUND FILTRATION UNIT

Proteam Europa inground Filtration unit is one of the best choices for swimming pool. It is in good appearance, easy to operate long time use. Different models could be chosen according to different size of swimming pools actual demand.

FEATURES

- Easy to operate , no need any equipment room and special maintenance.
- Adopts high precious of sand.
- With good performace pump.
- More Economical because of simple disinfecting equipment - chemical feeder.

TECHINICAL SPECIFICATION

Code	HP	Voltage (V)	Flow rate m3/hr	Filtration Area m2/hr	Pool Volume	Cabin size
00595910	0.75	220-230	8	0.17	65	1320*1340*985
00595911	1	220-230	12	0.24	95	1320*1340*985
00595912	1.5	220-230	16	0.33	130	1320*1340*985
00595913	2	220-230	20	0.56	170	1550*1560*1135
00595914	2	220-230	25	0.67	200	1550*1560*1135

Code	Products
00595910	450 sand filter +.75HP pump +chemical feeder
00595911	500 sand filter +1HP pump +chemical feeder
00595912	650 sand filter +1.5HP pump +chemical feeder
00595913	700 sand filter +2HP pump +chemical feeder
00595914	800 sand filter +2HP pump +chemical feeder





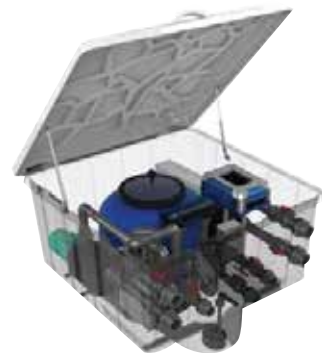
INGROUND FILTRATION UNIT

PROTEAM Europa Inground filtration unit including salt chlorinator for salt water. The progressive filtration unit adopts professional sand filter, high efficiency pump and salt chlorine generator, 3HP massage pump and submersible pump 3HP massage pump makes the filtration unit more powerfull. Equipped with submersible pump, avoiding the security risk that caused by accumulated water in tank. Equipped with salt - chlorine generator, the most effective and high -tech equipment.

TECHINICAL SPECIFICATION

Code	Pump HP	Voltage (V)	Flow rate m3/hr	Filtration Area m2/hr	Pool Volume	Cabin size
00595921	0.75	220-230	8	0.17	65	1320*1340*985
00595922	1	220-230	12	0.24	100	1320*1340*985
00595923	1.5	220-230	16	0.33	130	1320*1340*985
00595924	2	220-230	20	0.56	175	1550*1560*1135
00595925	2	220-230	25	0.67	200	1550*1560*1135

Code	Products
00595921	450 sand filter +0.75hp circulation pump +3hp massage pump +submersible pump+8g/hr salt chlorine generator
00595922	500 sand filter +1hp circulation pump +3hp massage pump +submersible pump+12g/hr salt chlorine generator
00595923	650sand filter +1.5hp circulation pump +3hp massage pump +submersible pump+16g/hr salt chlorine generator
00595924	700 sand filter +2hp circulation pump +3hp massage pump +submersible pump+25g/hr salt chlorine generator
00595925	800 sand filter +2hp circulation pump +3hp massage pump +submersible pump+33g/hr salt chlorine generator



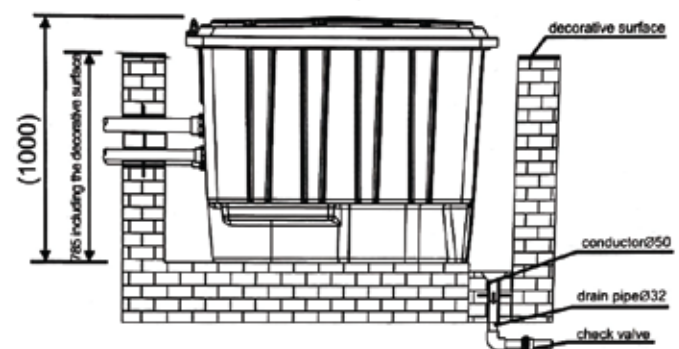
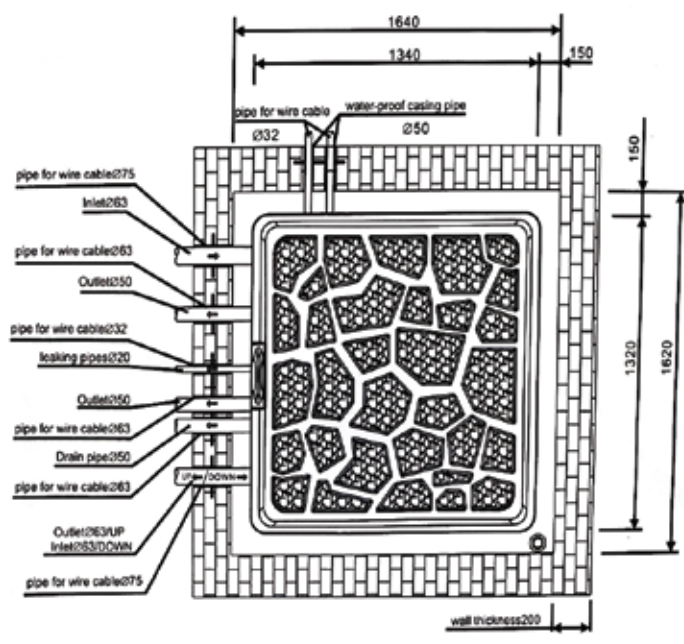
INGROUND FILTRATION UNIT

Proteam Europa inground filtration units specially designed for Spa and swimming pools. The pump with high performance and low noise. With submersible pump to avoid the hazardous of flood in filtration box. Adopt high tech disinfecting equipment, such as salt chlorine generator and UV sterilizer. It could be used for swimming pool, hot spring and SPA in different sizes and various shapes.

TECHNICAL SPECIFICATION

Code	Pump HP	Voltage (V)	Flow rate m3/hr	Filtration Area m2/hr	Pool Volume	Cabin size
00595915	1.5	220-230	8	0.17	65	1320*1340*985
00595916	1.5	220-230	12	0.24	100	1320*1340*985
00595917	1.5	220-230	16	0.33	130	1320*1340*985
00595918	2	220-230	20	0.56	175	1550*1560*1135
00595919	2	220-230	25	0.67	200	1550*1560*1135

Code	Products
00595915	450 sand filter + 1.5hp circulation pump + 3hp massage pump + 8g/hr salt chlorine generator + UV 28W + Submersible Pump
00595916	500 sand filter + 1.5hp circulation pump + 3hp massage pump + 12g/hr salt chlorine + UV 28W + Submersible Pump
00595917	650 sand filter + 1.5hp circulation pump + 3hp massage pump + 16g/hr salt chlorine + UV 28W + Submersible Pump
00595918	700 sand filter + 2hp circulation pump + 3hp massage pump + 25g/hr salt chlorine generator + UV 28W + Submersible Pump
00595919	800 sand filter + 2hp circulation pump + 3hp massage pump + 33g/hr salt chlorine generator + UV 28W + Submersible Pump





PROTEAM SKIMMER - LIFE SUPPORT SYSTEM

PROTEAM Europa Protein skimmer specially designed for recirculating aquaculture and aquarium. Made of corrosion resistant durable and premium grade environmental friendly material.

FEATURES

- Energy saving and environmental protection.
- Powerfull bubbles generating effect and they are uniform in size and density.
- Circulate predictably and rise slowly. Internal baffle plate for uniform fluid flow.
- Remove suspended solids while increasing dissolved oxygen in the water.
- Effectively and efficiently remove harmful gases, residual feeds, feces and other organic compounds, can reduce the burden of biological filter system and stabilize water's pH value.
- Trouble-free design, free of maintenance, long service life, with collecting tank, easy for disassembling and cleaning.
- Discharge the foam directly, without collecting tank, no need cleaning, more water-saving, practical and environmental.

TECHNICAL SPECIFICATION

Code	Diameter (mm)	Height (mm)	Flow rate (m ³ /h)	Process Time (min)	In/Out (mm)	Waste (mm)	Venturi QTY (pcs)	Pump (kw)
00597400	400	2500	10/7.5	1.5-2	63/90	50	1	0.75
00597401	600	2700	22/16	1.5-2	90/110	50	1	1.5
00597402	800	3100	45/34	1.5-2	90/110	50	1	1.5
00597403	900	3100	55/42	1.5-2	90/140	50	2	3
00597404	1000	3600	85/65	1.5-2	110/160	63	2	3
00597405	1200	3600	120/94	1.5-2	160/200	63	3	4.5
00597406	1400	3800	180/130	1.5-2	200/250	75	2	4.5
00597407	1600	3800	240/180	1.5-2	250/300	75	3	2.2x3
00597408	1800	4000	320/240	1.5-2	250/300	90	2	7.5x2
00597409	2000	4000	400/300	1.5-2	250/300	90	3	7.5x3



GLASS FILTER MEDIA

Glass filter media is the environmentally friendly filter media and a viable alternative to silica sand made from glass recycled. It doesn't involve intrusive mining and the use of scarce resources. It has green credentials, with its superior performance and also cost effective against sand.

GLASS MEDIA

Code	Granulometry	Units	Weights (kg)	Volume Package (m ³)
00101010	0.8 - 4.0 mm	1	25	0.667
00101030	3.0 - 1.0 mm	1	25	0.667
00101070	7.0 - 3.0 mm	1	25	0.667



Glass Media

FILTRATION SAND

Code	Granulometry	Units	Weights (kg)	Volume Package (m ³)
00104080	0.4 - 0.8 mm	1	50	0.700
00104081	0.5 - 1 mm	1	50	0.700



Filtration Sand Media

GRAVEL

Code	Granulometry	Units	Weights (kg)	Volume Package (m ³)
00101020	1 - 2 mm	1	50	0.667
00103050	3 - 5 mm	1	50	0.667

DIATOMACEOUS EARTH CELATOM

Code	Granulometry	Units	Weights (kg)	Volume Package (m ³)
00604010		1	50	0.600

ANTHRACITE

Code	Granulometry	Units	Weights (kg)	Volume Package (m ³)
00644020	0.8 - 1.6 mm	1	50	0.800

ZEOLITE

Code	Granulometry	Units	Weights (kg)	Volume Package (m ³)
00645010	1.0 - 0.5 mm	1	25	0.667
00645030	3.0 - 1.0 mm	1	30	0.710
00645070	7.0 - 3.0 mm	1	30	0.710

