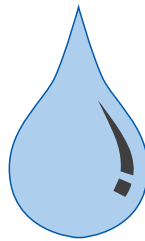




***In Pursuit of Excellence...
Every Drop Counts !!!***



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 فاكس رقم: ٠٠٩٧١٦٥٥٢٧٠٧٥

PO Box: 20411, Sharjah, United Arab Emirates

INTRODUCTION

So~Safe Water Technologies was established in 1980 with the prime objective of providing services to all those who need assistance in the field of water purification at an affordable cost.

Deteriorating health standards mainly due to water problems in most countries and especially in developing countries was the key motivating force for the establishment of these companies.

The first product introduced in the market was the domestic water filters. The popularity and effectiveness of domestic filters laid the foundation for development in the commercial and industrial sectors.

Our quality control personal ensure highest degree of quality, its implementation, monitoring and control. Every project is designed and run to the entire satisfaction of the client. In 45 years of committed services to all the clients in domestic, commercial and industrial sectors, the company has gained the confidence of its clients to the extent that the name **So~Safe** has become synonymous with quality and health.

So~Safe is now dealing in all types of water purification systems including:

- Domestic Whole House Water Purification Systems & Commercial Water Purification Systems
- Specialized Water Treatment Systems with Ultra Filtration Membrane Technologies
- Reverse Osmosis Systems, Softeners and Deionizers
- Industrial Process Water Treatment
- Sewage Treatment Plants
- Industrial Effluent Treatment Plants
- Swimming Pool Equipment, Construction & Maintenance
- Nano Bubble Technologies
(Lakes, Fish Ponds, Animal/Birds, Kidney Dialysis, Health Benefits)
- Specialized Community Water Systems to Remove Heavy Metals Including Lead, Arsenic, Florides, Nitrates & Nitrites incorporating latest Japanese Technologies
- Specialized Technologies to Sterilize Tissue Paper through **SteriPro Paper Sterilization System**



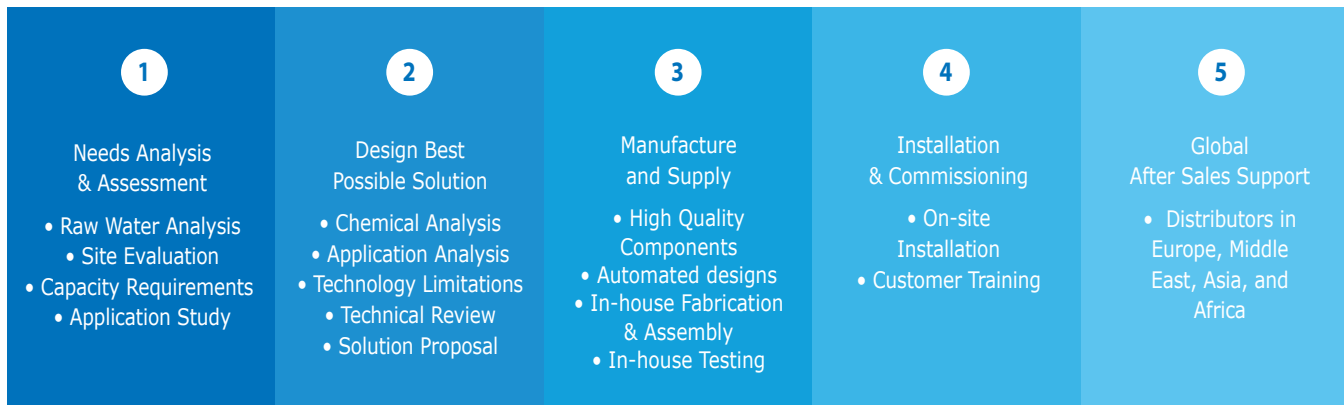
MISSION STATEMENT

The mission of this organization is not only to provide effective water treatment solutions to all those requiring it but to improve the health standards of the people of all nations to a level consistent with international standards.

So~Safe endeavors to contribute in protection and improvement of the environment by vigorous educational programs and research for developing environment friendly products.

The company aims at targeting all the people in different geographic and demographic areas and relating to all social classes. This specific objective is achieved by provision of water treatment systems suitable for different segments.

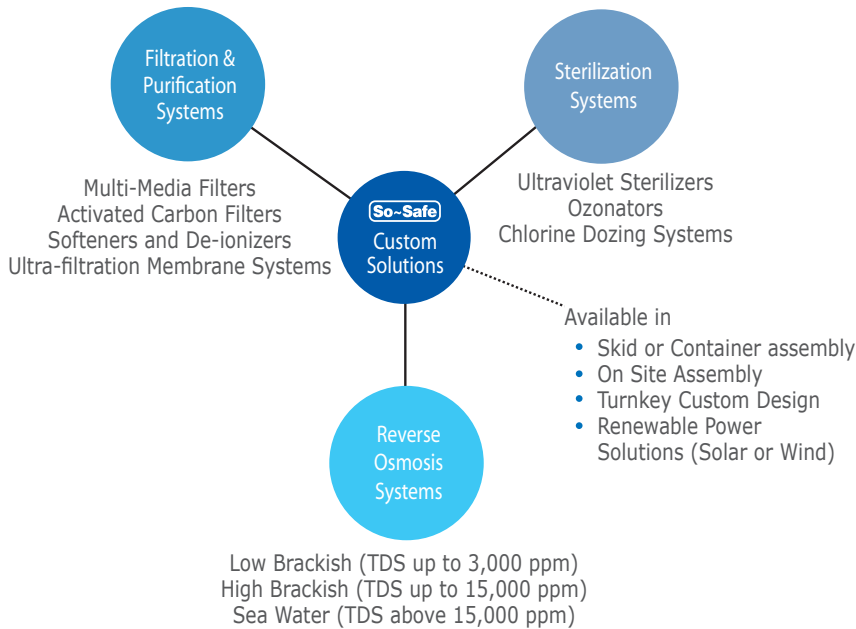
5-STEP QUALITY ASSURANCE PROCESS



APPLICATIONS



COMMERCIAL & INDUSTRIAL WATER PURIFICATION SYSTEMS

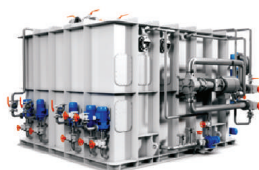
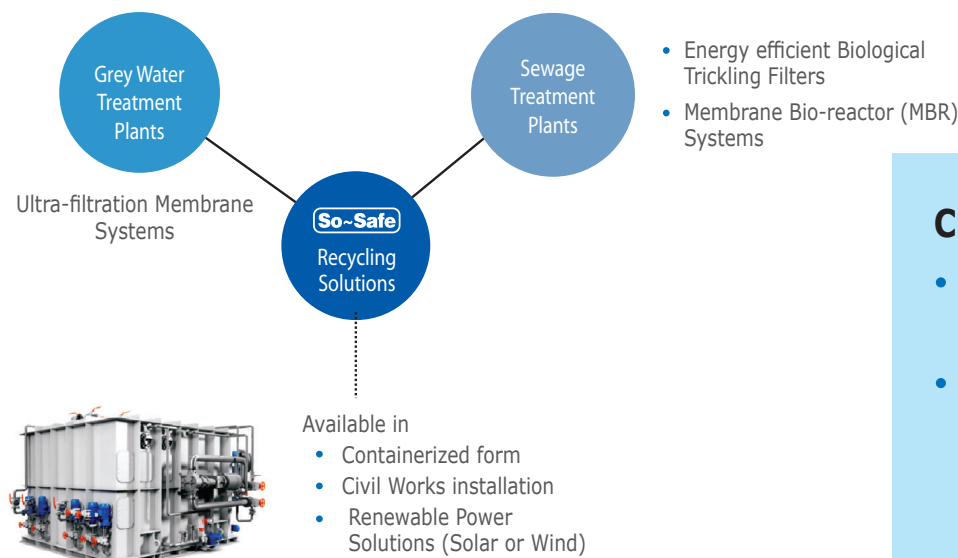


Why **So~Safe** ?

- Best European & US components
- Customized design, tailor-made just for your needs
- Automated design with So Wise controls
- Ease of Installation & Maintenance
- Warranty coverage
- International backup & support

COMMERCIAL AND RESIDENTIAL WATER RECYCLING SYSTEMS

So~Safe offers Grey Water and Sewage Treatment Plants using state-of-the-art technologies and processes. These systems are available in modular forms for ease of installation and transport. For large capacities, we also offer on-site civil works assembly.



Choose **So~Safe**

- Protect your family and children from unsafe dirty water.
- Millions of families around the world have benefited from safe and healthy drinking water by using **So~Safe** purifiers for more than 40 years.

A

FILTRATION AND PURIFICATION

Media Filters (MMF)

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SAND AND MULTI-MEDIA FILTERS

Vessels used for **So~Safe** series are made of state-of-the-art composite, food grade, non-metallic material that simply cannot rust. The Composite vessels are made of NSF/FDA listed constituents. The vessels are mechanically strong and operating pressure could be up to 10 bar. The So~Safe series vessels are available up to 79" diameter.

So~Safe sand & multi-media filters are equipped with an automatic control system that contains a solid state microprocessor which stores system settings and operational data in nonvolatile memory. This main control is commonly actuated by a 1-99 days clock timer which permits optimum back washing capabilities. The additional provision for individual adjustment of the backwash cycle, and the manual operation of the filters make this control an exception. Twin or several units in parallel connection with one or any unit in service mode and the other as stand-by is also adaptable with this controller.

The media used in the **So~Safe** series is carefully selected of the finest quality to achieve maximum filtration efficiency at reasonable pressure drops. A notable example is the Filter-Ag® which has many outstanding advantages over the conventional sand. Filter-Ag® is a light weight, non-hydrous silicon dioxide media that has high surface area, requires less backwash rate and creates less pressure loss for better overall performance.



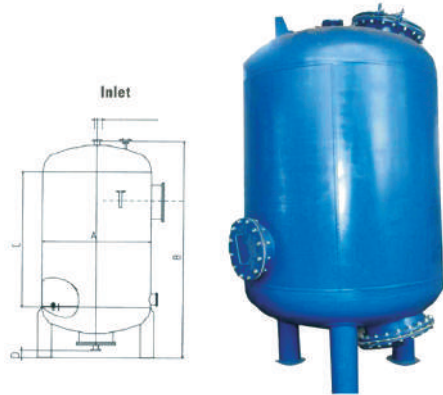
For the removal of large suspended solids and turbidity in water, multi-layers of technically graded media are used. Raw water has to pass through and penetrate layers of gravels, coarse sand, fine sand & anthracite coal that are loaded inside the filter body.

Specification Table : **So~Safe** Sand & Multi-media Filters

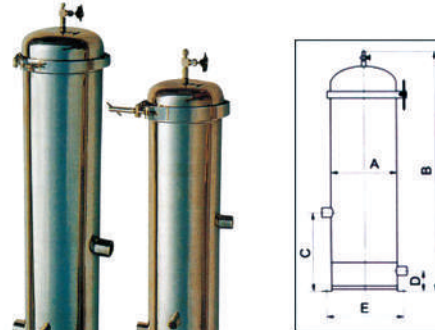
Model	Service Flow Rate (gpm) Cont. Max.	Backwash Flow Rate (gpm)	Tank Size DxH (in)	Media Quantity (ft ³)	Pipe Size (in)	Floor Space WxL (in)
MMF-10	3 9	6	10 x 44	1	1	12 x 22
MMF-13	5 15	11	13 x 54	2.5	1	15 x 22
MMF-16	7 21	15	16 x 65	4	1	18 x 28
MMF-21	13 39	28	21 x 60	6.5	1 or 1.25	23 x 33
MMF -21	16 48	34	24 x 69	9.5	1.25 or 1.5	26 x 36
MMF-30	25 75	55	30 x 72	15	1.5 or 2	32 x 46
MMF-36	36 108	80	36 x 72	22	2	38 x 52
MMF-42	48 147	107	42 x 78	29	2 or 3	44 x 58
MMF-48	63 189	140	48 x 82	36	2 or 3	50 x 72
MMF-55	86 260	190	55 x 83	53	3	57 x 82
MMF-63	111 333	245	63 x 103	86	3	65 x 89

MEDIA FILTERS & MICRO FILTERS

Carbon Steel Mechanical Filters



Stainless Steel Micro Filters



A: Inside diameter
 B: Total length
 C: Height from inlet center to ground
 D: Height from outlet center to ground
 E: Distance between feet

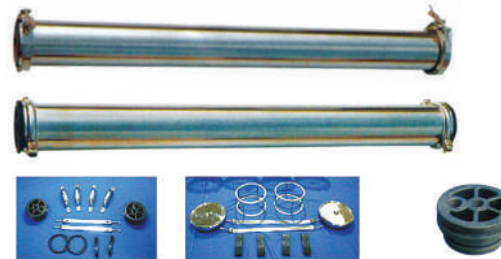
Model	A (mm)	B (mm)	C (mm)	D (mm)	Outlet (Dg)	Inlet (Dg)
300*1500	300	2010	1500	200	25	25
350*1500	350	2010	1500	200	25	25
400*1500	400	2010	1500	200	25	25
500*1500	500	2080	1500	200	31	31
600*1500	600	2150	1500	200	32	32
800*1500	800	2375	1500	250	40	40
1000*1500	1000	2475	1500	250	40	40
1200*1500	1200	2575	1500	250	50	50
1400*1500	1400	2675	1500	250	50	50
1500*1500	1500	2745	1500	300	50	50
1600*1500	1600	2845	1500	300	65	65
1800*1500	1800	2945	1500	300	65	65
2000*1500	2000	3045	1500	300	80	80
2200*1500	2200	3145	1500	300	80	80

Item No.	Cartridge Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Thickness (mm)	Inlet (Dg)	Remark
17*250	3	170	450	180	75	245	1.5	25	Work coupling
170*500	3	170	700	180	75	245	1.5	25	Work coupling
170*750	3	170	950	180	75	245	1.5	40	Work coupling
170*1000	3	170	1200	180	75	245	1.5	40	Work coupling
200*250	5	200	450	180	75	245	1.5	40	Work coupling
200*500	5	200	700	180	75	245	1.5	40	Work coupling
200*750	5	200	950	180	75	245	1.5	40	Work coupling
200*1000	5	200	1200	180	75	245	1.5	50	Work coupling
250*500	7	250	700	350	150	306	1.5	50	Flange Type
250*750	7	250	950	350	150	306	1.5	50	Flange Type
250*1000	7	250	1200	350	150	306	1.5	50	Flange Type
300*500	10	300	700	350	150	356	1.5	50	Flange Type
300*750	10	300	950	350	150	356	1.5	50	Flange Type
300*1000	10	300	1200	350	150	356	1.5	50	Flange Type
350*750	15	350	1100	350	150	406	2	65	Flange Type
350*1000	15	350	1350	350	150	406	2	65	Flange Type
400*750	18	400	1100	350	150	456	2	65	Flange Type
400*1000	18	400	1350	350	150	456	2	65	Flange Type
500*1000	24	500	1450	450	200	556	2.5	80	Flange Type
600*1000	32	600	1450	450	200	656	3	80	Flange Type
700*1000	55	700	1550	450	200	756	3	100	Flange Type
800*1000	88	800	1550	450	200	856	3	150	Flange Type

UPVC Micro Filters



Stainless Steel Membrane Vessel

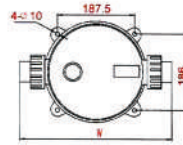


Type	Material	Size	Cartridge pec	Cartridge sizes	In/Out (mm)	Max Pressure
SSCF-5DC1	UPVC	10"	5/3	Ø 225-H465	Dn40/ ANSI 1.5" (W=365)	A=0.4MPA
SSCF-5DC2		20"		Ø 225-H715		
SSCF-5DC3		30"		Ø 225-H965		
SSCF-5DC4		40"		Ø 225-H1215		
SSCF-9DC2	UPVC	20"	9/8	Ø 315-H745	DN80/ANSI 3"	0.6MPA (86PSI)
SSCF-9DC3		30"		Ø 315-H995		
SSCF-9DC4		40"		Ø 315-H1245		

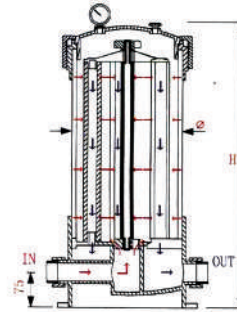
Parameter Item	A (mm)	B (mm)	Thickness (mm)	Inlet (mm. inch)	Inlet (mm. inch)
2521	540	65	2	Dn20, 3/4"	Dn15, 1/2"
4021-1	598	120	2	Dn20, 3/4"	Dn15, 1/2"
4040-1	1090	120	2	Dn20, 3/4"	Dn15, 1/2"
4040-2	2106	120	2	Dn20, 3/4"	Dn15, 1/2"
4040-3	3122	120	2	Dn20, 3/4"	Dn20, 3/4"
4040-4	4138	120	2	Dn20, 3/4"	Dn20, 3/4"
8040-1	1228	255	3.5	Dn40, 1.5"	Dn25, 1"
8040-2	2244	255	3.5	Dn40, 1.5"	Dn25, 1"
8040-3	3260	255	3.5	Dn40, 1.5"	Dn25, 1"
8020-4	4276	255	3.5	Dn40, 1.5"	Dn25, 1"

CARTRIDGE HOUSING

So~Safe cartridge filter is a filter system with high precision. It consists of the housing and cartridge elements mainly used in pretreatment. It can be widely used in electronic industry, sewage treatment, beverage, foods, pure water treatment, also it can acts as home water purification equipment.



Pedestal Location

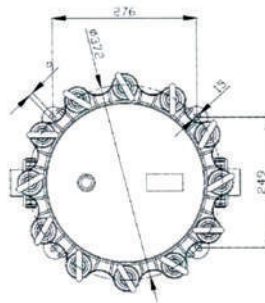


Flow Diagram

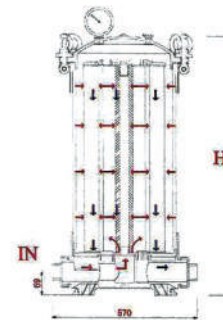
Type	Material	Size (mm)	Cartridges pcs	Cartridges Size	In/Out (mm)	Max Pressure
HPCF-5DC1/HPCF-3DC1	UPVC	φ 225-H465	3/5	10"	DN40/ANSI 1.5"	A=0.4 MPA
HPCF-5DC2/HPCF-3DC2		φ 225-H715	3/5	20"		
HPCF-5DC3/HPCF-3DC3		φ 225-H965	3/5	30"	DN50/ANSI 2"	B=0.6 MPA
HPCF-5DC4/HPCF-3DC4		φ 225-H1215	3/5	40"		

CARTRIDGE FILTERS

It can install all material, all precision's cartridge 9 PCS or 8 PCS, which I.D. is 28-30mm. O.D. is 65-70mm. The highest working temperature is 45°C. The size of the two holes in the lid of the filter is G1/4". If the thread of the pressure gauge is metric standard, should add an adaptor.



Pedestal Location

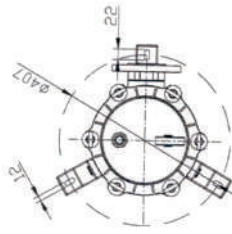


Flow Diagram

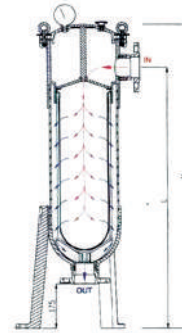
Type	Material	Size (mm)	Cartridges pcs	Cartridges Size	In/Out (mm)	Max Pressure
HPCF-9DC2/HPCF-8DC2	UPVC	φ 315-H745	8/9	20"	DN80/ANSI 3"	0.6MPA (86PSI)
HPCF-9DC3/HPCF-8DC3		φ 315-H995	8/9	30"		
HPCF-9DC4/HPCF-8DC4		φ 315-H1245	8/9	40"		

BAG FILTER SYSTEMS

So~Safe bag filter system is a new filter system. It is character with high precision, bit flow, easy instllation and maintenance. So it can be widely used in the field of liquid treatment: foods, cosmetic, chemistry, medicine, textile etc. It consists of the housing, suppot basket and the filter bag.



Pedestal Location

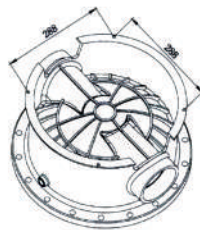


Flow Diagram

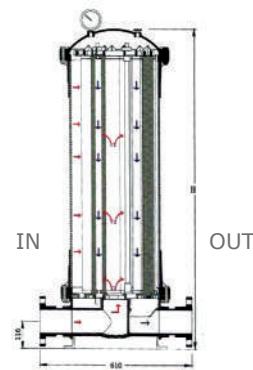
Type	Material	Bag Size	In/Out	L	Max. Pressure
HXP-BF-1-1-A	φ 225-H805	φ 7" (178mm)-H17" (419mm)	FLG: DN50/ANS12"	650	A=0.4MPA
HXP-BF-1-2-A	φ 225-H1190	φ 7" (178mm)-H32" (813mm)		1035	
HXP-BF-1-1-B	φ 225-H820	φ 7" (178mm)-H17" (419mm)		665	B=0.7MPA
HXP-BF-1-2-B	φ 225-H1200	φ 7" (178mm)-H32" (813mm)		1045	

FRP CARTRIDGE FILTERS

It can install all material; all precision's cartridge 15 PCS, whice I.D. is 28-30mm. I.D. is 65-70mm. The highest working temperature is 45°C. The size of the two holes in the lid of the filter is G 1/4". If the thread of the pressure gauge is metric standard, should add an adaptor.



Pedestal Location



Flow Diagram

Type	Material	Size (mm)	Cartridges	Cartridges	In/Out	Dirty Water (mm)	Max. Pressure
HPCF-15DC3	FRP	385-H1160	15	30"	FLG:4"	G1/2"	1.0MPA(150PSI)
HPCF-15DC4	FRP	385-H1460	15	40"	FLG:4"	G1/2"	1.0MPA(150PSI)

GAC PURIFIERS

The composite pressure vessels that are used for **So~Safe** series combine the unrivalled toughness of a polyethylene inner tank and the strength of a glass fiber reinforced with epoxy resin. Tanks can come with flanged or threaded openings to give the same durability & reliability.

So~Safe activated carbon filters are also equipped with the same automatic control system that regulates the back washing process. Service flow rates up to 250 gpm can be obtained when using the real huge 3" valve that can be mounted on top of tanks up to 63" diameter in size.

The granular activated carbon media used in the **So~Safe** series is made from fine grade Coconut Shell that is characterized by its high surface area, low ash & high carbon content nature. The perfect balance between adsorption & transport pores provides optimum performance of Aquasorb® 1200 in a wide range of water treatment applications, particularly for the removal of colour, taste, odour and dissolved chlorine and all organic chemicals.



Strong, Robust and Long Lasting



High Quality Cocout Shell Based GAC with Iodine Adsorbtion of 1200 +



GAC Tanks

Specification Table : **So~Safe** Activated Carbon Filters

Model	Service Flow Rate (gpm) Cont. Max.		Backwash Flow Rate (gpm)	Tank Size DxH (in)	Media Quantity (ft ³)	Pipe Size (in)	Floor Space WxL (in)
SS-GAC-P-10	3	5	5	10 x 44	1	1	12 x 22
SS-GAC-P-13	5	10	8	13 x 54	2.5	1	15 x 25
SS-GAC-P-16	7	14	12	16 x 65	4	1	18 x 28
SS-GAC-P-21	13	25	23	21 x 60	6.5	1 or 1.25	23 x 33
SS-GAC-P-24	16	31	28	24 x 69	9.5	1.25 or 1.5	26 x 36
SS-GAC-P-30	25	50	45	30 x 2.15	1.5 or 2	1.5 or 2	32 x 46
SS-GAC-P-36	36	73	65	36 x 72	22	2	38 x 52
SS-GAC-P-42	49	98	88	42 x 78	29	2	44 x 58
SS-GAC-P-48	63	127	115	48 x 82	35	2 or 3	50 x 72
SS-GAC-P-55	86	172	155	55 x 83	53	3	57 x 82
SS-GAC-P-63	111	223	223	63 x 103	86	3	65 x 89

SOFTENERS

So~Safe series of fully automatic, reliable and corrosion resistant water softeners is designed for the removal of hardness ions from water supplies and thus preventing the scale depositions on metallic surfaces. Single or Duplex units are available to ensure continuous supply of soft water and avoid interruptions during regeneration times. **So~Safe** softeners are typically used for the treatment of boiler feedwater in industry, laundries as well as for residential applications.

Tough, corrosion resistant

Pressure vessels are constructed of durable composite resin and reinforced with high-tensile strength filament windings. Resists corrosion and provides years of reliable service. Thermoplastic liners are made of high strength polyethylene.

Complete line

Starts from 10" up to 63" diameter.
Top only or top & bottom openings.
Threaded or flanged openings.

Better than steel

Reinforced composite tanks are only one-third the weight of steel tanks and comparable in strength.

Easy installation, low maintenance

Lightweight tank design makes installation fast and easy



So~Safe Apollo & So~Safe Eco
8-10 GPM

Higher Flows

Superior quality

Precision manufacturing methods and strict adherence to quality control processes ensure products meet the highest industry standards.

So~Safe pressure vessel is tested and certified by NSF against the NSF/ANSI Standard 44 for material and structural integrity requirements only.

The resin used in the **So~Safe** softeners is carefully selected of the finest grade to achieve maximum ion exchange efficiency at reasonable pressure drops.

Specification Table: **So~Safe** Softeners

Model	Service Flow Rate (gpm) Service Backwash		Capacity (Kilograins)	Tank Size DxH (in)	Media Quantity (ft ³)	Pipe Size (in)	Floor Space WxL (in)
SSWS-10	10	2.5	35	10 x 44	1.2	1	40
SSWS-13	15	5	75	13 x 54	2.5	1	40
SSWS-16	32	8	120	16 x 65	4	1 or 1.25	40
SSWS-21	52	13	195	21 x 60	6.5	1.25 or 1.5	100
SSWS-24	76	19	285	24 x 69	9.5	1.5	100
SSWS-30	106	30	450	30 x 72	15	2	100
SSWS-36	160	40	385	36 x 72	22	2 or 3	250
SSWS-42	210	50	850	42 x 78	25	3	250
SSWS-48	260	70	1,100	48 x 82	35	3	250
SSWS-55	325	100	1,500	55 x 83	50	3	300
SSWS-63	425	130	1,950	63 x 103	65	3	500

For all **So~Safe** models:

Operating parameters

Operating Pressure: 2-8.6 bar
Operating Water temperature: 4-43°C
Power requirement: 220/240V, 50 Hz

Performance testing

Burst testing up to four times the rated operating pressure. Operating Pressure: 150psi
Cycle tested up to 250,000 times. Cycle test: 10psi to 150psi



INDUSTRIAL WATER SOFTENER



- With automatic control valve
- Easy operation and maintenance
- Salt saving and water saving
- Light in weight and space saving
- Stable performance and long service life
- Its application fields such as: circulating water supply of steam boiler, hot water boiler, heat exchanger, steam condenser, air conditioning, direct-fired machine and other equipments.

-
- Water output: 1000 L/H
 - Pressure vessel: 10x44 inch.
 - Brine tank: 100 L
 - **Larger or Smaller Output can also be provided.**

ULTRAPURE WATER SYSTEM (LABORATORY USE)



- Professional filtration for laboratory use
- 5-Stage filtration
- On board computer
- TDS display & output water TDS: "0"
- Purified water productivity: >2.5MΩ
- Enclosed line, steel box
- RO water output: 3000 Litre/day
- Diaphragm booster pump with
- Adaptor 220V/50Hz
- NSF certificated So~Safe RO membrane
- Unit packing dimension: 60x57.5x98 mm

Attention: Inlet water temp: 5-40°C
TDS <200 ppm
Water pressure: 0.1-0.3 Mpa

DEIONIZERS

Using special kits from Siata (Pentair), **So~Safe** DI's generate ultra-pure water, with extremely low conductivities that can be used for sensitive applications such as perfumes, glass & aluminum factories, electronic industry etc. Sosafe DI's are two-bed systems where water passes successively through cationic & anionic beds of exchange resins.

Model	Tank Size (inches)	Volume of resin in each bed (Liters)	Exchange Capacity (Grains CaCO ₃)	Flow rate (gpm)
D1-10-25	10 x 44	25	17,675	2 - 4
D1-10-45	10 x 54	45	31,815	4 - 6
D1-12-60	12 x 48	60	42,420	6 - 8
D1-13-75	13 x 54	75	53,025	8 - 10
D1-14-100	14 x 65	100	70,700	10 - 12
D1-14-125	14 x 65	125	88,375	10 - 13
D1-21-150	21 x 60	150	106,050	13 - 15
D1-21-200	21 x 60	200	141,400	15 - 20
D1-24-300	24 x 69	300	212,100	20 - 30
D1-30-425	30 x 72	425	30,475	30 - 45
D1-36-575	36 x 72	575	406,525	40 - 60
D1-36-700	36 x 72	700	494,900	50 - 75



The Siata valves used in all DI models are made of high quality ABS material. Configuration of the valves: Top-mounted.

Main Features of DI kits:

DI components kit is composed of a fully electronic and automatic controller with activation of regeneration by conductivity set-point. Moreover, the kit is composed of one cationic and one anionic non-metallic ABS multi-ways valves complete with inlet and outlet fitting. Anionic valve is equipped with conductivity probe for the detection of the quality of DI water. Hydraulic valves for regenerant suction, regenerant suction regulators, and hydraulic valve for the closure of the outlet are included, as well as a holder for the controller.



MULTIPLE CARTRIDGES FILTER HOUSINGS

Material of Construction: Stainless Steel (SS 304) / (SS 316L)

Model	Cartridge Height	No. of Cartridges	Weight (Kgs)	Flow Rate (GPM)
FHMC7	10"	7	21	30
FHMC14	20"	7	31	60
FHMC21	30"	7	41	90
FHMC28	40"	7	51	120
FHMC36	40"	12	68	180



ULTRAFILTRATION

Ultrafiltration (UF) is a pressure-driven technology commonly used to remove suspended solids, bacteria and providing a physical barrier to pathogens in potable water production.

Hollow Fiber Membrane Module

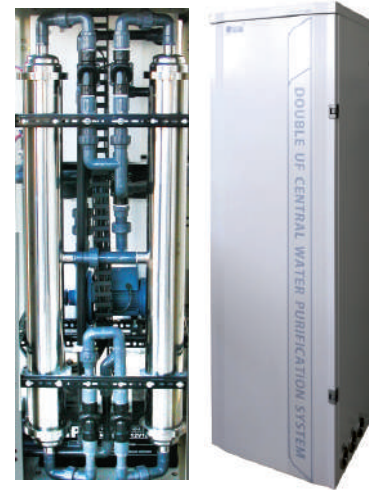
	UF-PAN-5	UF-PAN-25	UF-PAN-50
Maximum Allow Pressure (bar)	5.0	5.0	5.0
Maximum Transmembrane Pressure (bar)	2	2	2
Membrane Area (m ²)	5	25	50
Material Housing	SS	PVC	PVC
Inlet & Outlet Point Diameter	G-3/4"	DN 40	Victaulic 2"
Weight (dry)	8 kg	21 kg	45 kg

NOTE:

Membrane Material = PAN (Poly Acrylo-Nitrile)

APPLICATION

Portable Water System for Municipal Water



Hollow Fiber Membrane Module (Single/Multibore)

	UF-PEN-220	UF-PEN-450	UF-PEN-3000	UF-PEN-5000
Maximum Allow Pressure (bar)	5.0	5.0	5.0	5.0
Maximum Transmembrane Pressure (bar)	0.1-0.8	0.1-0.8	0.1-0.8	0.1-0.8
Membrane Area (m ²)	2.2	4.5	30	50
Material Housing	PVC	PVC	PVC	PVC
Inlet & Outlet Point Diameter	1-1/4" (BSP)	1 1/2" BSP	Victaulic 2"	Victaulic 2"
Weight (dry)	4 kg	7 kg	25 kg	42 kg

NOTE:

Membrane Material = PES (Poly-Ether Sulphone)

APPLICATION

Municipal Supply, River Water, Grey Water, etc.



Single Bore

Multi Bore

ULTRAVIOLET WATER STERILIZERS

So~Safe Ultraviolet (UV) Systems provide 50,000 $\mu\text{W}\cdot\text{sec}/\text{cm}^2$ intensity to guarantee 99.99% sterilization. This ensures effective control of microbial contamination. This sterilization is accomplished by scrambling DNA structures of the micro-organisms on exposure to ultraviolet light. UV sterilization is accomplished without the use of Chlorine or other harsh chemicals and without imparting any foreign taste, odor, corrosive, irritation and allergenic properties to water. It is regarded as the world's simplest and most practical means of destroying pathogenic (disease causing) micro-organisms in water.

Advantages of **So~Safe** UV Systems

- Portable and high purity water point of use and point of entry applications
- Small to Large Capacity Systems available
- 316 L Stainless Steel, electropolished and passivated
- Easy off Cap for effortless lamp change

Light Commercial Ultraviolet Sterilizers

Light Commercial Units come without Metal Cabinets with following specifications:

Model	Flow Rate GPM	Inlet / Outlet	Power Consumption
UV12SS	12 GPM	1" NPT	40 Watts
UV24SS	24 GPM	1" NPT	80 Watts
UV36SS	36 GPM	1" NPT	120 Watts
UV48SS	48 GPM	1" NPT	160 Watts

- Inlets / Outlets are Male pipe threads.
- Power consumption inclusive of Ballast loss.
- Max. recommended operating pressure: 100 psi
- Pressure drop at max. flow rate: 5 psi or less.
- All data shown above is for 220V - 50 Hz.

Options

- Time Delay Mechanism
- Solenoid Shut-Off Valve
- Audio Alarm
- UV Intensity Meter
- 110V - 60 Hz or 12 Volts DC

Fused Quartz Sleeve

All UV lamps are protected in a pure fused quartz sleeve to ensure optimum lamp output under normal potable water conditions.

Commercial Ultraviolet Sterilizers

Light Commercial Units come with Metal Cabinets with similar specifications as above.

Model	Flow Rate GPM	Inlet / Outlet	Power Consumption
UVM870	12 GPM	1" NPT	40 Watts
UVM871	24 GPM	1" NPT	80 Watts

High Capacity Commercial Ultraviolet Sterilizers

Stainless steel models with flow rates up to 400 GPM

Model #	Size	Electrical Units	Flow Rate
UV60SS	2" MNPT	200-250 V / 50-60 Hz	60 GPM
UV100SS	2" MNPT	200-250 V / 50-60 Hz	100 GPM
UV150SS	2" MNPT	200-250 V / 50-60 Hz	150 GPM
UV200SS	2" MNPT	200-250 V / 50-60 Hz	200 GPM
UV250SS	4" FLANGE	200-230 V / 50-60 Hz	250 GPM
UV400SS	6" FLANGE	200-230 V / 50-60 Hz	400 GPM



PAPER STERILIZATION SYSTEM

So~Safe Paper Sterilization Systems have proven to be a breakthrough technology in today's modern paper industry. By offering sterilized and bacteria-free tissue papers for end-consumers, companies can not only gain invaluable competitive advantage over their competitors, but also attain higher customer satisfaction and greater market share.

A Revolution in Paper Industry

As the use of paper has greatly increased in our modern day lives, advanced care must be taken to ensure their use is not harmful for families and children.

With its sophisticated and most state-of-the-art design, **So~Safe** Paper Sterilization Systems seamlessly integrate in any paper manufacturing processes. They have proven highly effective in real-time and have been widely accepted and preferred by consumers world-wide.

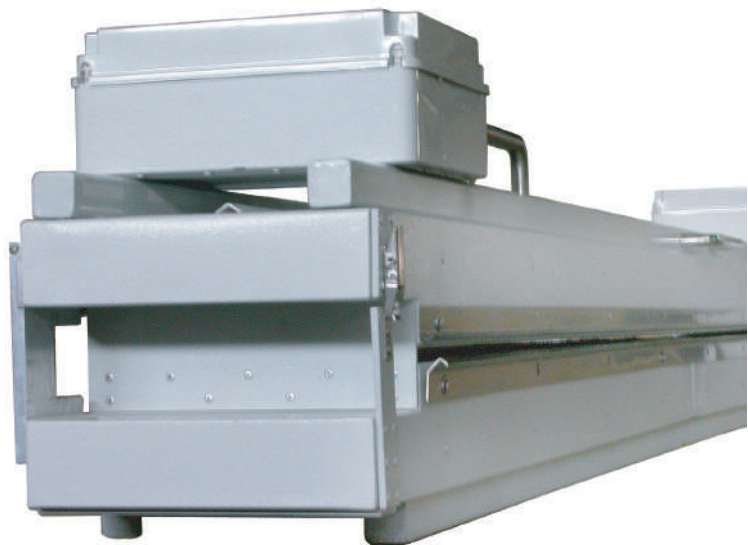


How it works?

So~Safe Paper Sterilization Systems operate based on Ultraviolet technology. Through optimum dosage and treatment process, we can guarantee 99.99% sterilization and effective control of microbial contamination.

Advantages of Ultraviolet Disinfection

- No chemicals
- Low maintenance
- Virtually impossible to overtreat with UV
- No hazardous disinfectant chemicals
- Low power consumption



So~Safe offers latest in water treatment technology to address complex contaminant removal requirements seamlessly integrated in a compact, automated design that is not only effective but also has a more efficient service life.

Iron Removal System

BIRM is an efficient and economical media for reduction of iron and manganese compounds from feed water. It is preferred because it can operate on higher PH and more over it need not to be regenerated, just backwashed periodically.

Flouride Removal Systems

Activated Alumina is widely used for removal of Fluoride removal process from feed water due to its high adsorption characteristics.

Nitrate Removal Systems

Nitrate shall be removed through ion exchange process. Strong base anion exchange resin is used for removal of nitrates for water for potable process.

Ozonators

High output, dual reaction chamber Corona-Discharge ozone generators. The most compact, versatile systems in the industry.

Typical Applications

- Waste Water
- Commercial Spas
- Residential Swimming Pools
- Residential Problem Water
- Bottled Water Filling Lines
- Aquariums
- Water Features
- Larger Volume Water Stores

“Solutions that simplify complex problems”



Wall-Mount CD Specifications Chart

	M-15/AD	M-1500	CD-1500	CD1500P	P2000	CD2000	CD2000P
Power consumption	312 watts	192 watts	192 watts	192 watts	336 watts	336 watts	336 watts
Amps @ 120V/60Hz	2.6 amps	1.6 amps	1.6 amps	1.6 amps	2.8 amps	2.8 amps	2.8 amps
Amps @ 240V/60Hz	1.3 amps	0.8 amps	0.8 amps	0.8 amps	1.4 amps	1.4 amps	1.4 amps
g/h @ SCFH dry air	2.8 @ 7	2.8 @ 7	4.5 @ 10	N/A	5.6 @ 14	9 @ 20	N/A
Percent by weight with dry air	1%	1%	1%	N/A	1%	1%	N/A
g/h @ SCFH PSA oxygen	N/A	7.6 @ 7	10 @ 7	15 @ 6	14 @ 14	20 @ 14	27 @ 12
Percent by weight with oxygen	N/A	3%	4%	6%	3%	4%	6%
High temperature limit	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dry contact control	Yes	No	Yes	Yes	No	Yes	Yes
4-20 mA control	No	No	Yes	Yes	No	Yes	Yes
Manual variable ozone output	No	No	Yes	Yes	No	Yes	Yes
Input voltage selectable	Yes	No	Yes	Universal	No	Yes	Universal
Pressurized	No	No	No	Yes-10 psi	No	No	Yes-10 psi
Vacuum	Yes 3-8 in. Hg.	Yes 3-8 in. Hg.	Yes 3-8 in. Hg.	Yes 3-8 in. Hg.	Yes 3-8 in. Hg.	Yes 3-8 in. Hg.	Yes 3-8 in. Hg.

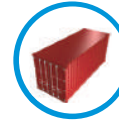
Packaged Filtration Systems



At **So~Safe** we offer customized solutions based on each application and requirements. For specific project enquiries, please request for a custom quote.



Skid



Container



Solar/Wind



Cabinet



Genset



5,000 GPD Filtration System
MMF, GAC, Softener, UV Sterilizer



10 GPM Central Filtration System with Ultrafiltration



Solar Powered (For Villages)

In light of the growing need for safe drinking water not dependant on conventional energy sources yet easily adaptable to varying geographic regions, So-Safe has launched a modular Solar Powered Water Purification System that can yield safe drinking water to hundreds of people and communities.

APPLICATION

Relief Camps, Remote Sites, Villages, Disaster-struck Areas, Places without power or electricity

Design Features & Capabilities

- Multi-Stage Water Purification for most common water pollutants.
- Optional use of specialized media for removal of specific contaminants.
- High quality deep cycle batteries to run the system even at night.
- Additional power socket available for use of other electrical appliances when not in use.
- Less carbon footprint and more environment friendliness
- Latest So~Wise® automation and safety controls
- Easy to use and maintain
- Minimal operating cost
- No continuous rejection of water
- Cabinet / Modular design requiring minimum space
- Plug n Play design with little plumbing requirements
- Customized design for larger capacity requirements



Going Green!

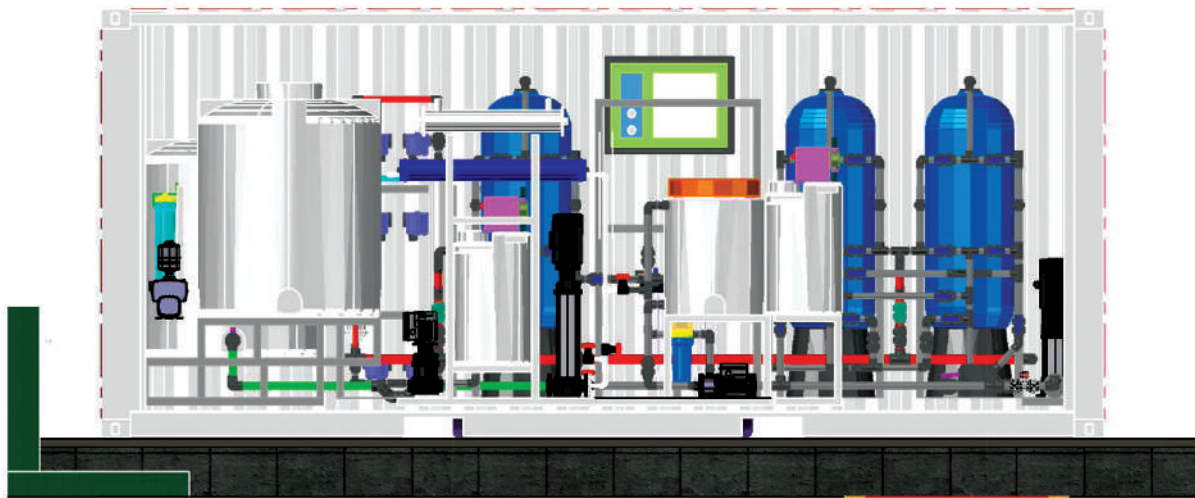
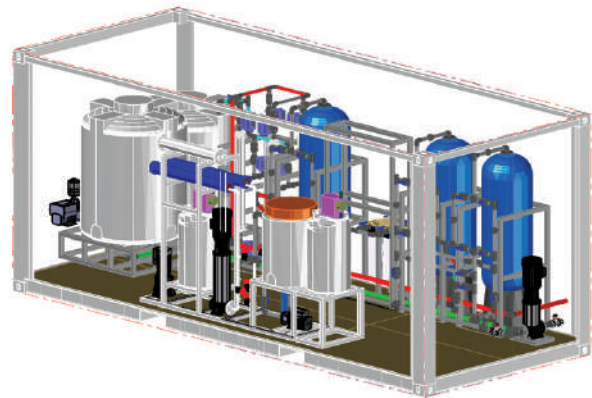
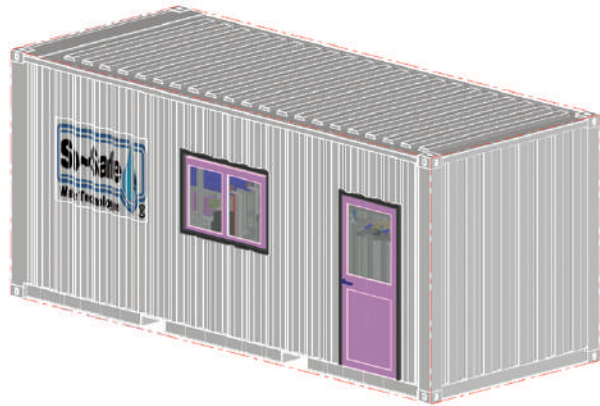
Use of Solar energy keeps the environment clean, reduces the dependency on non renewable resources and with the use of filtration system, sustains the need for safe drinking water that will not depend on other kinds of disinfection and bottled water. The use of solar power will eliminate negative environmental factors associated with manufacturing, bottling, distributing and disposal of plastic bottles, while minimizing health risks from disinfection byproducts.

The system is also designed to have no continuous waste, with only a fraction of water being used for backwashing and automatic cleaning of ultra-filtration membranes occasionally.

The system can also be used to supply power to other electrical appliances, whenever needed, at no additional cost.

Model	Daily Output	Daily run (hrs)	Battery rating (amp-hr)	Power Load	PV panel Voltage	PV panel Power Output	No of PV panels	Daily charge time
SFS-1000-AC	1,000 liters	1 hr	50 AH	0.6 kW	24V	185W	1 2	6.5 hrs 3.23 hrs
SFS -2000-AC	2,000 liters	2 hrs	100 AH	0.6 kW	24V	185W	2 4	6.5 hrs 3.25 hrs
SFS -4000-AC	4,000 liters	4 hrs	200 AH	0.6 kW	24V	185W	4 7	6.5 hrs 3.25 hrs

CONTAINERIZED SYSTEMS



B

DESALINATION

Reverse Osmosis Systems

Standard Brackish Water RO Systems	21
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Packaged Desalination Systems

Skid Based	30
Containerized	31

Pure Water Plant

Turn Key Project Provider	32
Mineral Water Plant	33

STANDARD BRACKISH WATER RO SYSTEMS 1,500 US GPD-9,600 US GPD

Feed TDS upto 3,000 ppm

Model	Capacity			Design TDS**
	GPD*	GPM†	m ³ /h	
SSRO1500G	1,500	1.05	0.230	3,000
SSRO3000G	3,000	2.10	0.465	3,000
SSRO4500G	4,500	3.15	0.700	3,000
SSRO6000G	6,000	4.12	0.950	3,000
SSRO7500G	7,500	5.2	1.180	3,000
SSRO9600G	9,600	6.67	1.520	3,000

Note: Non Standard Systems can also be offered on request.

* **GPD:** US Gallons per day

† **GPM:** US Gallons per minute

** **TDS:** Total Dissolved Solids



COMMON STANDARD FEATURES FOR BRACKISH WATER REVERSE OSMOSIS SYSTEMS



- Highly rated Sediment removal system based on Cartridge Filter (20 micron)
- Highly rated Sediment removal system based on Cartridge Filter (5 micron)
- High quality Cartridge Filter Housing in PP.
- Skid Mounted Aluminum Frame, powder coated for maximum corrosion resistance
- High Pressure Vertical Multistage Centrifugal Pump with heavy-duty industrial motor. Make= Grundfos/Equivalent.
- FRP Membrane Vessels that are ASME approved. Make= Codeline /Equivalent.
- High rejection and guaranteed better performance thin film composite RO membranes that are of FDA Approved and are of Commercial Grade. Make= Dow Chemical (FilmTec)
- Inlet solenoid valve.
- Auto Flushing with feed water every time plants start and stops.
- Unique panel mounted product and reject flow meter. Make = Blue-White
- Stainless Steel 316 L back pressure regulator concentrate valve.
- Stainless Steel Glycerin filled panel mounted low and high pressure gauges. Make= WKA.
- Digital Salinity Meter.
- Low-pressure cut-off switch to protect high-pressure pump from being dry run.
- System Control electrical enclosure =NEMA 4 with indicator lights and relevant selector switches.
- All low-pressure piping and valves are of UPVC SCH 40 Rating.
- High-pressure piping will be SS 316L.
- Unique low voltage safety control and protection.
- High-level product water float switch.
- Equipment is tested and sterilized prior to shipment.
- All components are properly tagged and lines are color coded as per International standards.
- Installation and Operation Manual for easy handling of the unit.

ADDITIONAL FEATURES



- Booster Pump.
- Multimedia Filter as per system requirement.
- Digital pH monitor/alarm.
- Digital ORP monitor/alarm.
- RO membranes CIP System.
- Stainless Piping on product water side.
- Provision for recycle stream in order to enhance the system recovery.
- Hour Meter
- Volt Meter.
- Pre-chlorination dosing System.
- De-chlorination System.
- Antiscalant Dosing System.
- PH Balancing System.
- Sequence and phase failure system.
- Sample Permeate ports for each Membrane Vessel.
- Provision for re-circulation with regulator valve and flow meter to enhance system recovery.
- High-pressure switch to cut off the system when the system pressure exceeds the preset value.
- Product water pressure switch in order to cut off the system if the product pressure exceeds preset value.
- Low level feed water float switch.
- Product water diverter valve.
- Reject water diverter valve.
- UV Sterilizer.
- Ozonator.
- Integrated PLC Control System
- Digital Product and reject Flow Meter.
- Mimic Diagram.
- Export Crating and Packing.
- Containerized.



COMMON STANDARD FEATURES FOR BRACKISH WATER REVERSE OSMOSIS SYSTEMS



- FRP Multimedia /Sand Filter. Make =Structural.
- Highly rated Sediment removal system based on Cartridge Filters (5 micron)
- Antiscalant Dosing system. Make = Prominent.
- Skid Mounted Carbon Steel Frame, primed and epoxy coated for maximum corrosion resistance
- FRP Membrane Vessels that are ASME approved. Make= Codeline /Equivalent.
- High rejection and guaranteed better performance thin film composite RO membranes that are of FDA Approved and are of Commercial Grade. Make= Dow Chemical (FilmTec)
- Auto Flushing with feed water every time plants start and stops.
- Unique panel mounted product and reject flow meter. Make = Blue-White
- Stainless Steel 316 L back pressure regulator concentrate valve.
- Sample Permeate ports for each Membrane Vessel.
- Stainless Steel Glycerin filled panel mounted low and high pressure gauges. Make= WIKA.
- Digital Salinity Meter.
- Low-pressure cut-off switch to protect high-pressure pump from being dry run.
- System Control electrical enclosure =NEMA 4 with indicator lights and relevant selector switches.
- All low-pressure piping and valves are of UPVC SCH 40 Rating.
- High-pressure piping will be SS 316L.
- Unique low voltage safety control and protection.
- Low level feed water float switch.
- High-level product water float switch.
- Equipment is tested and sterilized prior to shipment.
- All the components are properly tagged and lines are color coded as per international standards.
- Installation and Operation Manual for easy handling of the unit.
- Multistage Centrifugal BOOSTER pump
- High quality Cartridge Filter Housing in PP/ 316L.
- High Pressure Multistage Centrifugal Pump with heavy duty motor.

Additional Features

- Sediment Filter as per system requirement.
- Digital pH monitor/alarm.
- Digital ORP monitor/alarm.
- RO membranes CIP System.
- Stainless Piping on product water side.
- Hour Meter & Volt Meter.
- Provision for recycle stream in order to enhance the system recovery.
- Pre-chlorination dosing System.
- De-chlorination System.
- pH Balancing System.
- Sequence and phase failure system.
- High-pressure switch to cut off the system when the system pressure exceeds the preset value.
- Product water diverter valve.
- UV Sterilizer.
- Ozonator.
- Product water pressure switch in order to cut off the system if the product pressure exceeds preset value.
- Integrated So~Wise® PLC Control System.
- Digital Product and reject Flow Meter.
- Mimic Diagram.
- Export Crating and Packing.
- Containerized and Self-powered.

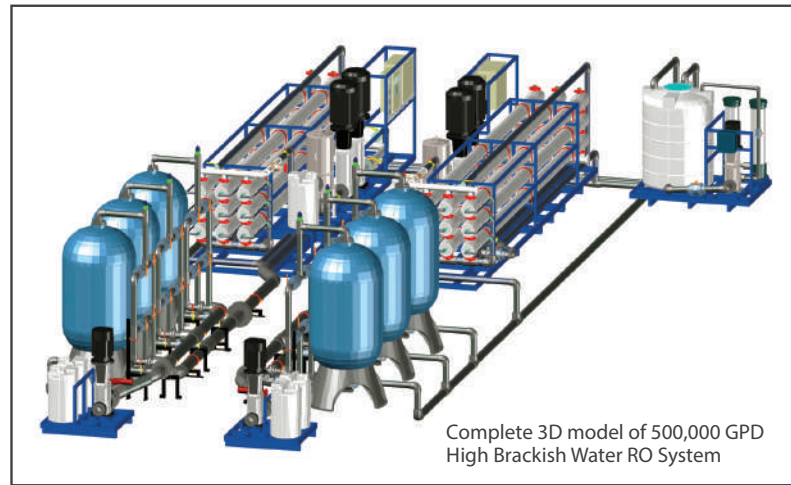


HIGH BRACKISH WATER RO SYSTEMS 10,500 US GPD AND ABOVE

Feed TDS up to 15,000 ppm

Model	Capacity
SSBW10KRO	10,000 US GPD
SSBW20KRO	20,000 US GPD
SSBW30KRO	30,000 US GPD
SSBW50KRO	50,000 US GPD
SSBW60KRO	60,000 US GPD
SSBW100KRO	100,000 US GPD
SSBW120KRO	120,000 US GPD
SSBW150KRO	150,000 US GPD
SSBW200KRO	200,000 US GPD
SSBW250KRO	250,000 US GPD
SSBW300KRO	300,000 US GPD

Up to 1 million US GPD or above



Complete 3D model of 500,000 GPD High Brackish Water RO System

Note: System design may vary depending on actual Feed Water Analysis
Non Standard Systems can also be offered on request.



500,000 GPD High Brackish Water RO system with So~Wise® PLC System and Soft-Start

SEA WATER RO SYSTEMS 5,000 US GPD AND ABOVE

Feed TDS more than 15,000 ppm

Model	Capacity
SSSW5KRO	5,000 US GPD
SSSW10KRO	10,000 US GPD
SSSW20KRO	20,000 US GPD
SSSW30KRO	30,000 US GPD
SSSW50KRO	50,000 US GPD
SSSW60KRO	60,000 US GPD
SSSW100KRO	100,000 US GPD
SSSW150KRO	150,000 US GPD
SSSW200KRO	200,000 US GPD
SSSW250KRO	250,000 US GPD
SSSW300KRO	300,000 US GPD

Upto 1 million GPD and above

Note: System design may vary depending on actual Feed Water Analysis
Non Standard Systems can also be offered on request.



60,000 GPD
Sea Water RO System



Byco Oil Refinery Seawater Desalination

Common Standard Features For Brackish Water Reverse Osmosis Systems

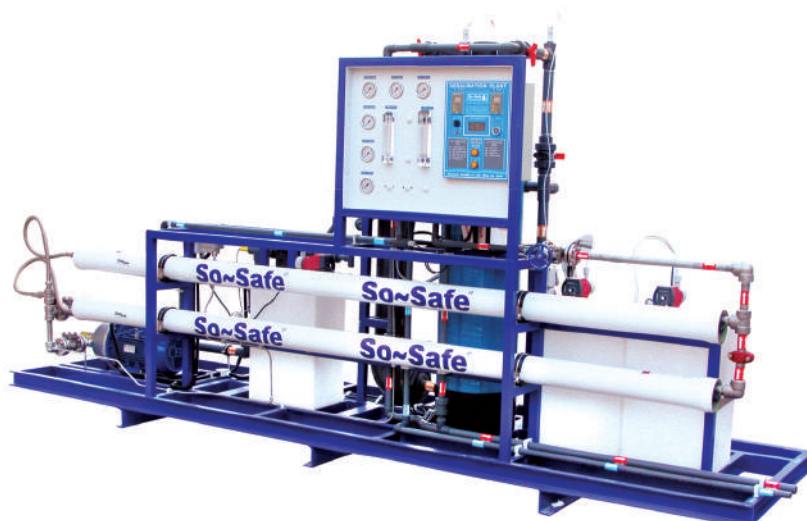


- FRP Multimedia /Sand Filter. Make =Structural.
- Highly rated Sediment removal system based on Cartridge Filters (5 micron)
- Antiscalant Dosing system. Make = Prominent.
- Skid Mounted Carbon Steel Frame, primed and epoxy coated for maximum corrosion resistance
- FRP Membrane Vessels that are ASME approved. Make= Codeline /Equivalent.
- High rejection and guaranteed better performance thin film composite RO membranes that are of FDA Approved and are of Commercial Grade. Make= Dow Chemical (FilmTec)
- Auto Flushing with feed water every time plants start and stops.
- Unique panel mounted product and reject flow meter. Make = Blue-White
- Stainless Steel 316 L back pressure regulator concentrate valve.
- Sample Permeate ports for each Membrane Vessel.
- Stainless Steel Glycerin filled panel mounted low and high pressure gauges. Make= WIKA.
- Digital Salinity Meter.
- Low-pressure cut-off switch to protect high-pressure pump from being dry run.
- System Control electrical enclosure =NEMA 4 with indicator lights and relevant selector switches.
- All low-pressure piping and valves are of UPVC SCH 40 Rating.
- High-pressure piping will be SS 316L.
- Unique low voltage safety control and protection.
- Low level feed water float switch.
- High-level product water float switch.
- Equipment is tested and sterilized prior to shipment.
- All the components are properly tagged and lines are color coded as per international standards.
- Installation and Operation Manual for easy handling of the unit.

Additional Features



- Sediment Filter as per system requirement.
- Fixed displacement pump with all wetted parts in super duplex, polymer and ceramic. (For Sea Water Units only).
- Energy recovery system. (For Sea Water Units only).
- Digital pH monitor/alarm.
- Digital ORP monitor/alarm.
- RO membranes CIP System.
- Stainless Piping on product water side.
- Hour Meter & Volt Meter.
- Provision for recycle stream in order to enhance the system recovery.
- Pre-chlorination dosing System.
- De-chlorination System.
- pH Balancing System.
- Sequence and phase failure system.
- High-pressure switch to cut off the system when the system pressure exceeds the preset value.
- Product water diverter valve.
- UV Sterilizer.
- Ozonator.
- Product water pressure switch in order to cut off the system if the product pressure exceeds preset value.
- Integrated So~Wise® PLC Control System.
- Digital Product and reject Flow Meter.
- Mimic Diagram.
- Export Crating and Packing.
- Containerized and Self-powered.
- Multistage Centrifugal FEED Pump in SS 304/316L. Make=Grundfos/Equivalent.
- High quality Cartridge Filter Housing in PP/SS304/316L.
- High Pressure Vertical Multistage Centrifugal Pump in SS 316L with heavy Industrial motor.



LIGHT COMMERCIAL RO SYSTEMS

So-Safe offers a wide range of medium sized water purifiers ideal for not only drinking water purposes for large companies and factories, but also for specialized process water use in various industrial applications.

Low Pressure Series

Model	Design TDS
SSRO150G-LP	1,500 ppm
SSRO450G-LP	1,500 ppm
SSRO600G-LP	1,500 ppm

Medium Pressure Series

Model	Design TDS
SSRO175G-MP	2,000 ppm
SSRO350G-MP	2,000 ppm
SSRO600G-MP	2,000 ppm
SSRO1000G-MP	2,000 ppm

Note: Non Standard Systems can also be offered on request.

* **GPD:** US Gallons per day

** **TDS:** Total Dissolved Solids



Low Pressure Santeo 600 GPD
Alkaline Antioxidant & Remineralizer



Low Pressure
450 GPD (SSRO 450 G-LP)



Medium Pressure
1000 GPD (SSRO 1000 G-MP)



Medium Pressure
600 GPD (SSRO 600 G-MP)



Medium Pressure
175 GPD (SSRO 175 G-MP)

UF SERIES SYSTEM

Ultrafiltration Specification and Performance for Hollow Fibre UF Device.



Type	Capacity (T/H)	Number of Element (mm)	Power (kw)	Dimensions (mm)	Weights (kgs)
UF-1000	1.0	2	0.55	800x800x1750	75
UF-2000	2.0	4	1.1	800x1200x1750	90
UF-3000	3.0	6	1.1	800x1500x1750	105
UF-4000	4.0	8	1.5	900x1800x1750	120
UF-5000	5.0	10	1.5	900x1950x1750	140
UF-6000	6.0	12	2.2	1000x2100x1750	160



Type	Capacity (T/H)	Number of Element (mm)	Power (kw)	Dimensions (mm)	Weights (kgs)
UF-7000	7.0	14	2.2	1000x2250x1750	180
UF-8000	8.0	16	2.2	1000x2400x1750	200
UF-9000	9.0	18	2.2	1000x2550x1750	220
UF-10000	10.0	20	2.2	1000x2700x1750	250
UF-15A	15.0	28	3.0	2000x1800x1750	300
UF-20A	20.0	40	3.0	2000x1950x1750	400

DISOLVED AIR FLOTATION (DAF) UNIT



RO MEMBRANE CLEANING MACHINE



RMC Introduction

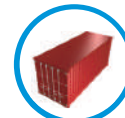
RMC-01 can extend the service life of RO membrane by cleaning RO membrane periodically. It is set to clean one or more RO membranes at once, what's more, it is easy to maintain due to its open-type design. RMC-01 can effectively remove organic matter and scale formation matter like Calcium and Magnesium on the surface of Membrane sheet. In this way, each cleaning can extend RO membrane service life by 6-8 months. In order to effectively recover the performance or RO membrane, please operate RMC-01 strictly according to RO membrane cleaning agent specification.

PACKAGED DESALINATION SYSTEMS

FULLY AUTOMATED ADVANCED RO SYSTEM DESIGN



Skid



Container



Genset

CAPACITY	APPLICATION
6,000 GPD	Petrochemical Industry

Design Features & Capabilities

- Instrumentation equivalent to IP65 Rating
- Automatic Multimedia filter with provision of Backwash to be carried out if pressure drop across the filter reaches preset value.
- Automatic Iron Removal filter
- So~Wise® PLC System
- pH meter, ORP meter, TDS meter, flow meters part of RO-trol
- 14" LCD screen for mimic diagram (VDIC)
- Complete piping in SS316L for pretreatment section
- Duty & stand by pumps
- SS316L Membrane vessels
- Blending provision with TDS correction
- Low level & high level switch for feed & product tank respectively
- Hydro pneumatic system with automation for supply of treated water to respective areas



- Control Panel equivalent to IP65 rating
- Sight Glass in the drain line
- Level switch for dosing tanks
- Feed line strainers
- Post-Chlorination system
- Pressure sensors to read values on VDIL
- Delay Start/Stop feature
- Laptop compatibility System
- VDUL incorporated in the system for monitoring of start up, shut down, alarms diagnostics.

CAPACITY	APPLICATION
66,000 GPD	General Process Consumption

Design Features & Capabilities

- Grundfos Horizontal pumps PM type
- So~Wise® PLC System
- Soft Starter
- Hour Meter
- Dosing Pump



CAPACITY	APPLICATION
180,000 GPD	Potable Water supply for Armed Forces

Design Features & Capabilities

- Submersible feed pumps
- Automatic Multimedia filters with diaphragm valves and sequential control
- SS frame for RO unit
- So~Wise® PLC System
- CIP System
- Flushing with permeate water
- Mimic diagram with relevant indications
- Digital pressure gauges for RO section
- Containerized unit (50 ft for RO Unit & 20 ft Open Top for Media filters)
- Control Panel for Auto/Manual operation

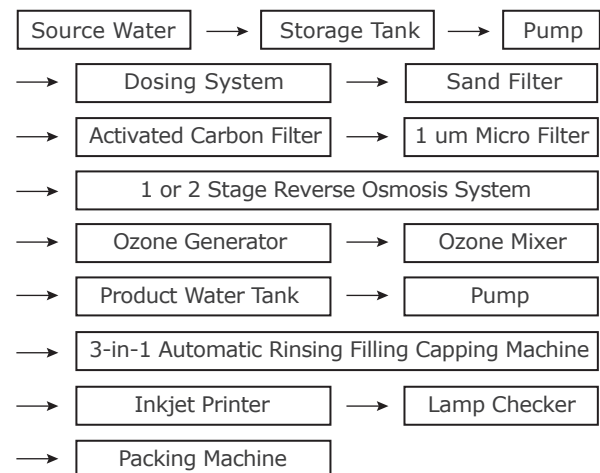
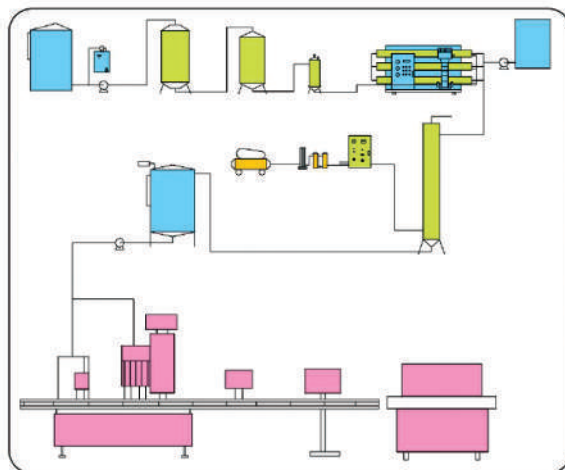


TURN KEY PROJECT PROVIDER OF PURE WATER PLANT

- Design
- Equipment Manufacture
- Delivery
- Installation
- Maintenance
- Staff Training



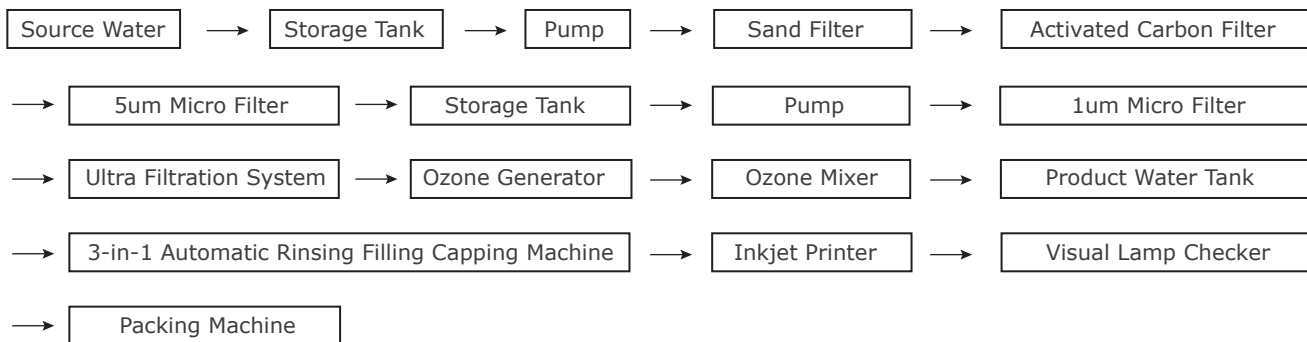
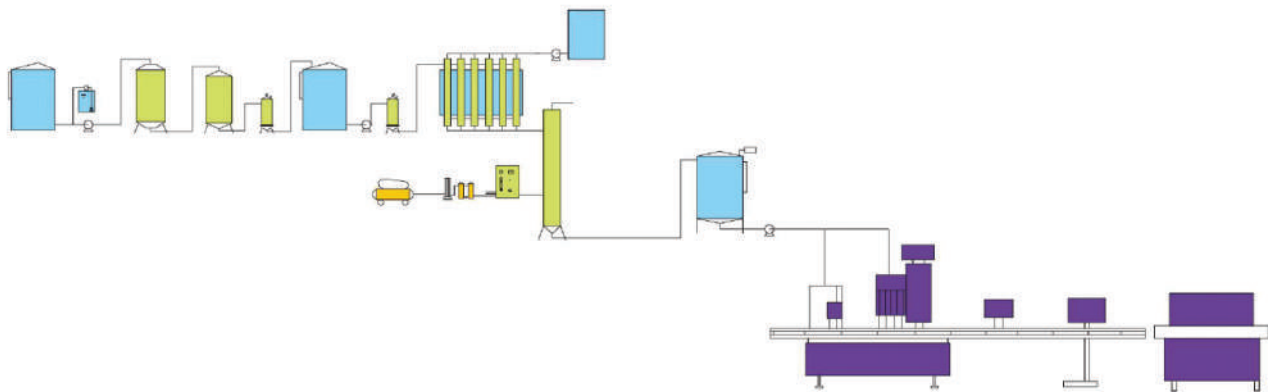
Product Line Technological Process



MINERAL WATER PLANT



Product Line Technological Process



C

WATER TREATMENT PLANTS

MBBR-G 3 Package Plants	35
Sewage Treatment Plant	36
Pools And Fountains	37
Ultrapure Water System	38

MBBR-G 3 PACKAGE PLANTS FOR ORGANIC AND DOMESTIC WASTEWATER



We have made an effective effort to incorporate our past experience in fielding comprehensive offerings. We have implemented multiple world class, renowned equipment components and instruments. These features are time-tested, both at home & abroad. The utmost care has been taken for the selection of proper construction materials for each component in our package plant system. We believe appropriate selection of materials is vital in systems of this sophistication.

So~Safe STP systems are based on High-Speed Bio-Tec G3 biodegradation and sedimentation technology. The system's compactness and performance is unique within the industry in respect of volumetric efficiency. The technology is packaged in a prefabricated, skid-mounted, tank system in standard lengths. Transportation in ISO freight containers simplifies long distance and overseas delivery.

Features

- Self-cleaning, non-clogging G3 - MBBR
- 15 times the loading in less than 1/5 the time
- Easy to relocate and install
- Easy to upgrade
- Effluent suitable for irrigation
- Fully automatic and easy to operate
- Global production and service
- Timely delivery

SEWAGE TREATMENT PLANT



Hotel / Resort Establishment

Untreated Wastewater



Sewage Treatment Plant



Treated Wastewater



Sewage is generated by residential, institutional, commercial and industrial establishments. It includes household waste liquid from toilets, baths, showers, kitchens, and sinks draining into sewers. In many areas, sewage also includes liquid waste from industry and commerce. The separation and draining of household waste into 'greywater' and 'blackwater' is becoming more common in the developed world, with treated greywater being permitted to be used for watering plants or recycled for flushing toilets.

Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage. It includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safe treated wastewater (or treated effluent). A by-product of sewage treatment is usually a semi-solid waste or slurry, called sewage sludge, that has to undergo further treatment before being suitable for disposal or land application.

Due to these advantages, MBR technology has been, and continues to be, applied extensively in industrial and municipal applications.

POOLS AND FOUNTAINS



Swimming Pool & Spa

- Consultation
- Designing
- Equipment and Chemicals
- Construction & Maintenance
- Jacuzzi
- Sauna
- Steam Bath
- All types of health related equipments

Dancing fountains

- Bahria town:
Asia's biggest dancing fountain
- Sunway Lagoon Water Park
- All types of fountains for roundabouts.
- Fountains & water falls for houses.
- Indoor water falls for malls & corporate offices.



Water Parks

- Sunway Lagoon water park Gharoo.

ULTRAPURE WATER SYSTEM



Item	EDI-P&F-0.5-HP	EDI-P&F-1.0-HP	EDI-P&F-2.0-HP	EDI-P&F-3.0-HP	EDI-P&F-4.0-HP
Product Flow (m ³ /h)	0.5	1.0	2.0	3.0	4.0
Min Product Flow (m ³ /h)	0.3	0.7	1.4	2.4	3.2
Max Product Flow (m ³ /h)	0.7	1.5	2.5	3.8	4.8
Recovery (%)	85-95	90-95	90-95	90-95	90-95
Resistivity (MΩcm)	>15	>15	>15	>15	>15
Voltage (DCV)	9-18	15-30	30-60	45-90	60-120
Current (DCA)	2-5	2-5	2-5	2-5	2-5
Inlet Pressure (Mpa)	0.10-0.3	0.10-0.3	0.15-0.4	0.15-0.4	0.15-0.4
Max Pressure (Mpa)	0.7	0.7	0.7	0.7	0.7
Size of fresh produced pipe	DN25	DN25	DN25	DN25	DN25
Size of Concentrate inlet outlet pipe	DN15	DN15	DN15	DN15	DN15

Technical Parameters:

- Inlet water: municipal water
- The power supply voltage: 220 V/50 Hz
- Total power: 3600 W
- Applicable temperature: 5~38°C
- DC voltage of mould pile: 2.5-3A
- Water production pressure: 0.02-0.6 Mpa
- Water Production flow: 9-10 Lpm
- Water production resistivity: 15-17 MΩ. Cm

Usage Industry:

High precision electronic industry, scientific research experiment and high precision products and parts cleaning etc.

D

INDUSTRIAL PRODUCTS

Bottling Machine	40
Ozone Generator	42
Media Filters & Micro Filters	43

BOTTLING MACHINE



Automatic Rinsing Filling Capping Machine for 5 Gallon Bottle

Model Filling Heads	QGF-60 1	QGF-100 1	QGF-150 1	QGF-250 2	QGF-300 2	QGF-400 3
Barrel Volume	5 gallon	5 gallon	5 gallon	5 gallon	5 gallon	5 gallon
Barrel Size (mm)	∅ 270x490	∅ 270x490	∅ 270x490	∅ 270x490	∅ 270x490	∅ 270x490
Capacity (b/h)	60	100	150	250	300	400
Gas Pressure (MPa)	0.4~0.6	0.4~0.6	0.4~0.6	0.4~0.6	0.4~0.6	0.4~0.6
Gas Consumption (m/min)	0.1	0.2	0.37	0.4	0.6	0.6
Power (kw)	1.4	2.2	1.75	3.5	3.8	4.0
Voltage	3x380V/50Hz	3x380V/50Hz	3x380V/50Hz	3x380V/50Hz	3x380V/50Hz	3x380V/50Hz
Dimension (LxWxH)mm	3000x900x1900	3000x900x1900	3600x900x1900	1700x4300x2200	1700x4300x2200	2000x4300x2200
Weight (kg)	250	280	700	1500	1800	3800

BOTTLING MACHINE



3 in 1 Automatic Rinsing Filling Capping Machine (for 200ml to 2000ml Bottle)

Model \ Spec	Capacity (b/h)	Bottle Height (mm)	Bottle Diameter (mm)	Power (kw)
DGCF12-12-4	3000	150~300	∅ 50~90	5.18
DGCF18-18-6	6000			5.18
DGCF24-24-8	8000			6.58
DGCF32-32-10	12000			8.18
DGCF40-40-10	15000			9.2
DGCF50-20-12	18000			10.1

- This series are for the production of 200ml to 2000ml bottle.
- The capacity is according to 500ml bottle.

OZONE GENERATOR



Ozone Generator

Parameter as follows:
Capacity: 6g/h
Air supplier: air
Power supply: 220V/50Hz
Power: 650W
Net weight: 45 Kg.
Size: 510x490x1030mm



Ozone Generator

Parameter as follows:
Capacity: 12g/h
Air supplier: air
Power supply: 220V/50Hz
Power: 700W
Net weight: 55 Kg.
Size: 510x420x900mm



Ozone Generator

Parameter as follows:
Capacity: 24g/h
Air supplier: air
Power supply: 220V/50Hz
Power: 1000W
Net weight: 75 Kg.
Size: 510x420x1100mm

Middle and Mini type air source ozone generator



Item No.	Capacity	Power
SSZY-6	6g/h	650w
SSZY-12	12g/h	700w
SSZY-24	24g/h	1000w
SSZY-50	50g/h	1.8kw
SSZY-75	75g/h	2kw
SSZY-100	100g/h	3.2kw
SSZY-150	150g/h	4.5kw

Remark	
Cold wind, no need cooling water with PSA oxygen generator	
SSY-50\FY-10	fission type, it assembled with SSY series ozone generator and FY series oxygen generator, it include compressor and air filter in oxygen generator.
SSY-75\FY-16	
SSY-100\FY-24	
SSY-150\FY-32	

MIXTURE TOWER & MIXTURE TUBE



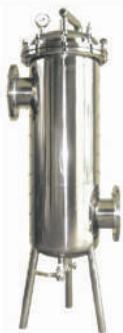
Mixture tower

Item No.	Flow(m3/h)	Dimension
TH-1	1	∅ 270*3000mm
TH-2	2	∅ 350*3000mm
TH-3	3	∅ 450*3000mm
TH-6	6	∅ 600*3000mm
TH-10	10	∅ 750*3000mm
TH-15	15	∅ 1000*3000mm
TH-20	20	∅ 1200*3000mm

Single-style / Anabranh-style Mixture tube

Item No.	Flow(m3/h)	Pump	Inlet & Outlet Connector	Length
GH-1	1	SSL2-30	25 Interval thread	About 1020
GH-2	2	SSL2-40	25 Interval thread	About 1020
GH-3	3	SSL4-30	32 Interval thread	About 1320
GH-4	4	SSL4-40	32 Interval thread	About 1320
GH-6	6	SSL4-50	32 Interval thread	About 1320
GH-8	8	SSL8-30	40 Flange	About 1400
GH-10	10	SSL2-30	40 Flange	About 1400

BAG FILTER



Model	LD-B-F
Material	304/306
Diameter	219mm-850mm
Thickness	2mm-10mm
Reference traffic	12T-1080T
Filter selection	PP Filter bag/bag
Filter area	0.13m - 4.41m
Filter bag specifications	102*410mm
	102*810mm
	180*410mm
Filter height	410mm/810mm/1300mm/1500mm
Total height of the filter	70-2000mm

E

CONSUMABLES

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SEDIMENT REMOVAL CARTRIDGES

Wound Polypropylene Regular

Removes dust, rust, silt, scale & other sediments

Technical Features

Material:	Polypropylene (FDA Grade)
Temperature:	60°C (140°F)
Change Out Pressure:	2.75 bar (40 psi)
Max. Differential Pressure:	2 bar (28 psi)
Replacement:	2-3 months*

* Frequency may vary depending on local water conditions

Did you know?

So~Safe Sediment cartridges are manufactured in Dubai under International standards using FDA Grade Raw materials only.



Model	Length	Micron	Inner Dia	Outer Dia	Case Quantity	Case Dimensions (mm)	Case Volume (Kgs)
WPP101R	10"	1	28 mm	63 mm	80	585x520x320	17.00
WPP105R	10"	5	28 mm	63 mm	80	585x520x320	16.80
WPP201R	20"	1	28 mm	63.5 mm	40	585x520x320	19.00
WPP205R	20"	5	28 mm	63.5 mm	40	585x520x320	18.00
WPP301R	30"	1	28 mm	63.5 mm	30	806x390x335	25.00
WPP305R	30"	5	28 mm	63.5 mm	30	806x390x335	21.00
WPP401R	40"	1	28 mm	63.5 mm	30	1065x390x324	29.30
WPP405R	40"	5	28 mm	63.5 mm	30	1065x390x324	25.50

Custom Options:

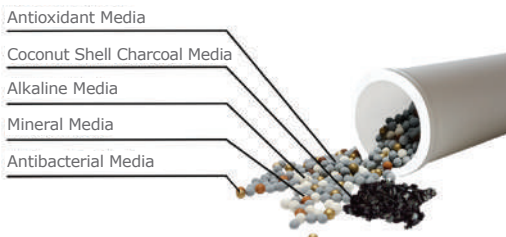
EX: Extended Core Cartridges, Single and Both Ends Open, With or Without O-Rings (Ex-222 & Ex-111)
 Custom lengths and micron ratings are also available on request.

Alkaline Antioxidant Water Filter Cartridge

A better choice to upgrade your water

ALK+ Offers you the best solution for top 5 potable water problems !

Function media inside ALK+



- Improve odor and taste
- Antibacterial effect >99%
- Alkalization pH: 8.5~9.5
- Release Beneficial Minerals
- Anti-Oxidibility: ORP-150~300MV

Safety Consideration

The medias inside ALK+ filter are all natural mineral needed by the human body. There are absolutely no safety considerations in case all ALK+ medias to be applied for the treatment of potable water are tested or certified in accordance with the standard of IEC 62321, NSF42 and EPA 6010C.



Wound Polypropylene Jumbo

Removes dust, rust, silt, scale & other sediments.

Technical Features

Material:	Polypropylene (FDA Grade)
Temperature:	60°C (140°F)
Change Out Pressure:	2.75 bar (40 psi)
Max. Differential Pressure:	7 bar (100 psi)
Replacement:	2-3 months*

* Frequency may vary depending on local water conditions



Model	Length	Micron	Inner Dia	Outer Dia	Case Quantity	Case Dimensions (mm)	Case Volume (Kgs)
WPPJ101G	10"	1	28 mm	108 mm	20	585x520x320	14.50
WPPJ105G	10"	5	28 mm	108 mm	20	585x520x320	14.00
WPPJ201G	20"	1	28 mm	108 mm	12	585x520x320	16.50
WPPJ205G	20"	5	28 mm	108 mm	12	585x520x320	16.00

Options:

Custom lengths and micron ratings are also available on request.

Wound Cotton or Bleached Cotton Yarn

Removes dust, rust, silt, scale & other sediments.

Technical Features

Material:	Cotton Yarn and Bleached Cotton Yarn
Temperature:	50 °C (Polypropylene Core) 90 °C (Nylon Core) 120 °C (SS-316L Core)
Replacement:	2-3 months*

* Frequency may vary depending on local water conditions

Model	Length	Micron	Inner Dia	Outer Dia	Case Quantity	Case Dimensions (mm)	Case Volume (Kgs)
WBC101G	10"	1	28 mm	62 mm	80	585x520x320	17.00
WBC105G	10"	5	28 mm	62 mm	80	585x520x320	16.50
WBC201G	20"	1	28 mm	62 mm	40	585x520x320	14.50
WBC205G	20"	5	28 mm	62 mm	40	585x520x320	14.00
WBC301G	30"	1	28 mm	62 mm	30	585x520x320	18.50
WBC305G	30"	5	28 mm	62 mm	30	585x520x320	18.00
WBC401G	40"	1	28 mm	62 mm	30	585x520x320	16.50
WBC405G	40"	5	28 mm	62 mm	30	585x520x320	16.00

Options:

Custom lengths and micron ratings are also available on request.



Spun Polypropylene Gold

Removes dust, rust, silt, scale & other sediments.

Technical Features

Material:	Polypropylene (FDA Grade)
Temperature:	60°C (140°F)
Change Out Pressure:	2.75 bar (40 psi)
Max. Differential Pressure:	2 bar (28 psi)
Replacement:	2-3 months*

* Frequency may vary depending on local water conditions

Model	Length	Micron	Inner Dia	Outer Dia	Case Quantity	Case Dimensions (mm)	Case Volume (Kgs)
SPP101G	10"	1	28 mm	67 mm	72	585x520x320	13.00
SPP105G	10"	5	28 mm	67 mm	72	585x520x320	12.00
SPP201G	20"	1	28 mm	63 mm	40	585x520x320	14.00
SPP205G	20"	5	28 mm	63 mm	40	585x520x320	14.00
SPP301G	30"	1	28 mm	63 mm	30	806x390x335	15.00
SPP305G	30"	5	28 mm	63 mm	30	806x390x335	15.00
SPP401G	40"	1	28 mm	63 mm	30	1065x390x324	20.00
SPP405G	40"	5	28 mm	63 mm	30	1065x390x324	20.00

Options:

Custom lengths and micron ratings are also available on request.



Spun Polypropylene Jumbo

Removes dust, rust, silt, scale & other sediments.

Technical Features

Material:	Polypropylene (FDA Grade)
Temperature:	60°C (140°F)
Change Out Pressure:	2.75 bar (40 psi)
Max. Differential Pressure:	7 bar (100 psi)
Replacement:	2-3 months*

* Frequency may vary depending on local water conditions

Model	Length	Micron	Inner Dia	Outer Dia	Case Quantity	Case Dimensions (mm)	Case Volume (Kgs)
SPPJ101G	10"	1	28 mm	110 mm	24	585x520x320	11.00
SPPJ105G	10"	5	28 mm	110 mm	25	585x520x320	11.00
SPPJ201G	20"	1	28 mm	110 mm	12	585x520x320	11.00
SPPJ205G	20"	5	28 mm	110 mm	12	585x520x320	11.00
SPPJ301G	30"	1	28 mm	110 mm	9	806x390x335	12.50
SPPJ305G	30"	5	28 mm	110 mm	9	806x390x335	12.50
SPPJ401G	40"	1	28 mm	110 mm	9	1065x390x314	16.50
SPPJ405G	40"	5	28 mm	110 mm	9	1065x390x314	16.50

Options:

Custom lengths and micron ratings are also available on request.



Dual Purpose Sediment Gold

Removes dust, rust, silt, scale & other sediments.

Model	Length	Micron
DPS101G	10"	1
DPS105G	10"	5



Dual Purpose Carbon Block Cartridge

Removes dust, rust, silt, scale & other sediments.

Model	Length	Micron
DPC101R	10"	1
DPC105R	10"	5
DPC201G	20"	1
DPC205G	20"	5



Pleated Polyester Cartridges (Washable)

Removes dust, rust, silt, scale & other sediments.

Model	Length	Micron	Inner Dia	Outer Dia	Case Quantity	Case Dimensions (mm)	Case Volume (Kgs)
R30J10	10"	30	28 mm	110 mm	24	585x520x320	13.00
R30J20	20"	30	28 mm	110 mm	12	585x520x320	13.00



MEDIA CARTRIGES

Media Cartridges Gold

Technical Features

Pre-filter:	Polypropylene
Post-filter:	Polypropylene Yarn (FDA Grade) 1-micron
Shell Material:	High Impact Polystyrene
Expansion Pad:	Polypropylene
End Caps:	High Impact Polystyrene
Gasket:	Buna-N
Temperature:	60°C (140°F)

Cartridges are also available in other types of media such as SGAC, KDF, Cation resin, Anion resin, etc either separately or in combination depending on application requirements.



Activated Alumina



GAC
(12x40, 6x12, 8x16)



Ion Exchange



KDF

SAFECHEM

SS250

Antiscalant Antifoulant

Scaling & Corrosion Inhibitors for Brackish Water with high Silica in Reverse Osmosis and Nano Filtration Desalination Plants. General antiscalant on phosphonate and polycarboxylate basis with synergetic mixture adapted for controlling inorganic scales of carbonate, sulfate, metal oxides and high silica up to 400 mg/l in the RO-concentrate in Brackish Water.

Important Properties to protect health, environment and safety

Technical Features

pH-value (Concentrate)	1-2
pH-value in aqueous solution (1% w/w)	2.5-3.0
Flash point (Pensky/Martens)	>100 °C
Solubility in Water (weight %)	Completely soluble
Eyes Irritation, Rabbits	Strong irritant

This product is not classified as an environmental hazard. This classification corresponds to 1999/45/EG.



SSROC502

RO Cleaning Chemicals

Safechem SSROC 502 is compatible with all major Reverse Osmosis, Nano and Ultrafiltration membranes. It has been tested continuously for more than 2500 hours at concentration 100 fold the usually recommended dose without any adverse effect to membranes made out of following polymers:

- Polyamide
- Polypiperazine
- Cellulose Acetate
- Polysulfone
- Polyethersulfone
- Polyacrylonitrile

Important Properties to protect health, environment and safety

Technical Features

pH-value (Conc. G/l) at 20°C ca	6 - 7
Density at 20°C	1 - 1.02 g/cm ³
Boiling Point / Boiling Range	>100 °C
Solubility in / Miscibility in	Water / Completely miscible
Eyes Irritation, Rabbits	Strong irritant

This product is not classified as an environmental hazard. This classification corresponds to 1999/45/EG.



SAFECHEM

SSROC402

RO Cleaning Chemicals

Mild basic cleaner against all CaCO_3 , MgCO_3 , CaSO_4 and MgSO_4 scale and metal oxides for all kind of membrane and filtration system including Reverse Osmosis and Nano Filtration.

Important Properties to protect health, environment and safety

Technical Features

pH-value (Concentrate)	11.0 - 11.5
pH-value in aqueous solution (5% w/w)	10.5 - 1.0
Flash point (Pensky/Martens)	>100 °C
Solubility in / Miscibility in	Water / Completely miscible
Eyes Irritation, Rabbits	Strong irritant

This product is not classified as an environmental hazard. This classification corresponds to 1999/45/EG.



SSROC302

RO Cleaning Chemicals

Mild acidic cleaner against all CaCO_3 and MgCO_3 scale and metal oxides for all kind of membrane and filtration system including Reverse Osmosis and Nano Filtration.

Important Properties to protect health, environment and safety

Technical Features

pH-value (Concentrate)	1.0 - 2.0
pH-value in aqueous solution (1% w/w)	2.0 -3.0
Flash point (Pensky/Martens)	>100 °C
Solubility in / Miscibility in	Water / Completely miscible
Eyes Irritation, Rabbits	Strong irritant

This product is not classified as an environmental hazard. This classification corresponds to 1999/45/EG.



SAFECHEM

BWM250

Specially Designed Anti-Scalants Brackish Water Desalination Membranes Plants

Anti-scalant for brackish water plant using reverse osmosis & nanofiltration specially suited for CaCO₃, CaSO₄ scales. ANSI/NSF 60 approved for potable water use applications.

Important Properties to protect health, environment and safety

Technical Features

pH-value (Concentrate)	1.0 - 2.0
pH-value in aqueous solution (1% w/w)	2.5 - 3.0
Flash point (Pensky/Martens)	>100 °C
Solubility in Water (Weight %)	Completely soluble
Eyes Irritation, Rabbits	Strong irritant

This product is not classified as an environmental hazard. This classification corresponds to 1999/45/EG.



REGENERATION TABLETS FOR WATER SOFTENRS

So~Safe Regeneration salt tablets

Product Information

NaCl (Sodium Chloride)	: 99.6%	Thickness	: 15mm
Water insoluble matter	: 0.05%	Colour	: White
Water : 0.05% Diameter	: 20mm	Packaging	: 10kg

Ideal for all Water Softeners

Best Quality Solid Salt Tablets As Per EU Standard



EMERGENCY DRINKING WATER FOR LIFEBOATS



MEMBRANES

So~Safe-BW4040

Membrane 2500 GPD

Active area FT ² (m ²)	:	78 (7.5)
Rejection	:	99.5%
Recovery	:	15%
Capacity	:	2500 GPD
Test pressure	:	225 PSI



So~Safe-BW8040

Membrane 12,000 GPD

Active area FT ² (m ²)	:	400 (37)
Rejection	:	99.5%
Recovery	:	15
Capacity	:	12,000 GPD
Test pressure	:	225 PSI



UF Membrane

Model	Housing Material	Dimension (mm)	Membrane Area (m ²)	Design Flowrate (m ³ /hr)
AQU-90	UPVC(White)	∅ 90x1210	4.1	0.16-0.4
AQU-160	UPVC(Gray)	∅ 160x1420	16.9	0.7-1.7
AQU-200	UPVC(White)	∅ 200x1481	25.5	1-2.5
AQU-250A	UPVC(White)	∅ 250x1402	32.7	1.3-3.2
AQU-250B	UPVC(White)	∅ 250x1740	43.1	1.7-4.3
AQU-250C	UPVC(White)	∅ 250x2108	54.3	2.2-5.4
AQU-4021	Food grade ABS	∅ 90x533	1.6	0.06-0.16
AQU-4040	Food grade ABS	∅ 90x1016	3.6	0.15-0.36
AQU-8040	Food grade ABS	∅ 192x1016	18.3	0.8-1.8
AQU-90-F	UPVC (White)	∅ 90x1210	8	0.24-0.80
AQU-160F	UPVC (White)	∅ 160x1800	40.6	1.2-4.0
AQU-250-F	UPVC (White)	∅ 250x1740	76	2.3-7.6



CONTROL VALVES

Auto-Filter Valve



SSSF67B



SSSF71B



SSSF75A

Item No.	Controller Mode	Pressure	Temperature	Max. Water Output	Filter Tank Diameter	Water Inlet/Outlet	Drain	Center Pipe	Base
SSSF67B	Time/PTC	0.1-0.6Mpa	5-45 (°C)	6T/H	6-14"	1" internal thread	1" internal thread	1"	2-1/2"
SSSF71B	Time/PTC	0.1-0.6Mpa	5-45 (°C)	2T/H	6-10"	3/4" external thread	3/4" external thread	1.05"	2-1/2"
SSSF75A	Time/PTC	0.1-0.6Mpa	5-45 (°C)	10T/H	10-24"	2" external thread	2" external thread	1-1/2"	4"

Auto-Soften Valve



SSSF63C3



SSSF69A



SSSF74A



SSSF77

Item No.	Controller Mode	Pressure	Temperature	Max. Water Output	Filter Tank Diameter	Water Inlet/Outlet	Drain	Salt absorb	Center Pipe	Base
SSSF69A	Time/Reflux regeneration	0.1-0.6Mpa	5-45 (°C)	2T/H	6-12"	3/4" internal thread	1/2" external thread	3/8" exter. thread	1.05"	2-1/2"
SSSF74A	Time/Flume regeneration	0.1-0.6Mpa	5-45 (°C)	10T/H	10-30"	2" external thread	1" external thread	1/2" exter. thread	1-1/2"	4"
SSSF63C3	Time/Flume regeneration	0.1-0.6Mpa	5-45 (°C)	4T/H	6-18"	1" external thread	1/2" external thread	3/8" exter. thread	1.05"	2-1/2"
SSSF77	Time/Flow/Flume regeneration	0.1-0.6Mpa	5-45 (°C)	18T/H	36-42"	2" external thread	2" external thread	3/4" exter. thread	1-1/2"	4"

Manual Multi-Way Valve



SSSF52 (Top Mount)



SSSF56A



SSSF56D



SSSF56F

Horizontal mount for option

Item No.	Controller Mode	Pressure	Temperature	Max. Water Output	Filter Tank Diameter	Water Inlet/Outlet	Drain	Center Pipe	Base
SSSF56A	Manual	0.1-0.6Mpa	5-45 (°C)	4T/H	6-12"	1" internal thread	1" internal thread	1.05"	2-1/2"
SSSF56F	Manual	0.1-0.6Mpa	5-45 (°C)	6T/H	6-14"	1" internal thread	1" internal thread	1"	2-1/2"
SSSF52	Manual	0.1-0.6Mpa	5-45 (°C)	1T/H		1/2" internal thread	1/2" internal thread	16.5mm	M82*3
SSSF56D	Manual	0.1-0.6Mpa	5-45 (°C)	10T/H	10-24"	2" internal thread	2" internal thread	1-1/2"	4"

Manual Soften Valve



SSSF64D



SSSF64A



SSSF64B



SSSF64F

Item No.	Controller Mode	Pressure	Temperature	Max. Water Output	Filter Tank Diameter	Water Inlet/Outlet	Drain	Salt absorb	Center Pipe	Base
SSSF64F	Time/Flume regeneration	0.15-0.6 Mpa	5-45 (°C)	6T/H		1-1/2" external thread	3/4" external thread	1/2" exter. thread	1.25"	4"
SSSF64A	Time/Flume regeneration	0.1-0.6 Mpa	5-45 (°C)	4T/H	6-18"	1" internal thread	1/2" external thread	3/8" exter. thread	1.05"	2-1/2"
SSSF64B	Time/Flume regeneration	0.1-0.6 Mpa	5-45 (°C)	2T/H	6-12"	3/4" internal thread	1/2" external thread	3/8" exter. thread	1.05"	2-1/2"
SSSF64D	Time/Flume regeneration	0.1-0.6 Mpa	5-45 (°C)	10T/H	10-30"	2" external thread	1" external thread	1/2" exter. thread	1-1/2"	4"

METERING PUMP & PRESSURE METER



SEKO Pump

Item No.	Pressure (Mpa)	Flow (L/h)	Inlet/Outlet Size (mm)	Power (w)
AKS: W/O Liquidometer Alam	603	0.12	4.0	12.2
		0.1	5.0	
		0.08	6.0	
		0.02	8.0	
AKL: With Liquidometer Alam	800	0.12	7.0	23.6
		0.1	10.0	
		0.05	15.0	
		0.01	18.0	
803		0.05	20.0	22.2
		0.04	25.0	
		0.02	40.0	
		0.01	54.0	



LMI Pump

Spec. Code	Item No.	Flow(L/h)	Pressure(bar)
0.9	B116-398TI	0~6.10	10.3
0.9	B126-398TI	0~9.50	6.90
1.8	B136-398TI	0~17.0	3.50
3.0	B146-398TI	0~26.5	2.07
1.8	C116-398TI	0~9.50	10.3
1.8	C126-398TI	0~15.1	6.90
3.0	C136-398TI	0~30.3	4.10
6.0	C146-39	0~75.7	1.70
6.0	C786-36	0~95.0	2.07



PulsaFeeder Pump

Item No.	Rated Flow(L/h)	Max. Pressure(bar)
X003	0.59	5.6
X015	1.89	5.6
X024	3.80	5.6
X030	4.73	5.6
LB02SB-PTCI	0.9	10
LB03SB-PTCI	1.9	10
LB04SB-PTCI	3.8	7
LB64SB-PTCI	4.7	7



PR-101
Ø 40mm



PR-105
Ø 52mm



PR-102
Oil Buried
Ø 63mm



PR-103
Ø 40mm



PR-106
Oil Buried
Ø 52mm



PR-104
Oil Buried
Ø 63mm

Partrait Port

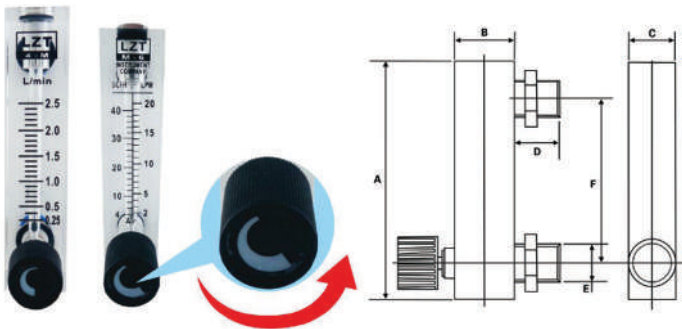
Max. measurement range: 0-3500psi/0-240Kg/cm²

Item No.	101	102	103	104	105	106
Carton Size	44x36x17cm	44x36x17cm	44x36x17cm	44x36x17cm	44x36x17cm	44x36x17cm
Quantity/carton	250pcs	70pcs	250pcs	100pcs	126pcs	150pcs

BRINE VALVE & FLOW METER

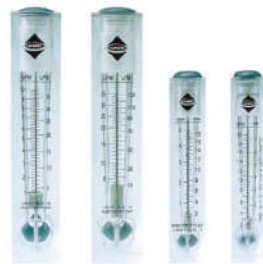


Item No.	Material	Pressure (mpa)	Water Temp (°C)
BV-43010	ABS	0.15-0.60	5-50 (°C)
BV-43011			
BV-1600			
BV-1600-N			
BV-1700			
BV-434			
BV-434-N			
BV-454			



Item No.	ML/min	Thread Connection	Accuracy	Dimension					
				A	B	C	D	E	F
LZT-4T	6-60	Quick fitting	±4%	94	27	21	14	14	70
	8-80								
	10-100								
LZT-4T	40-400	ZG1/4"		102	30	25	18	M18*1.5	76
	2-20LPH								
	4-40LPH								
	6-60LPH								
LZT-8T	10-100LPH			110	25	25	18	18	80
	10-70GPH								
	6-60LPH								

Panel Type Flow Meter



Item No.	Measure				
	GPM	LPM	Inlet/Outlet Size	Size(cm)	Quantity/ Carton
K0	0.1-08GPM	0.2-3LPM	ZG1/2"	45*45*21	50
K1	0.1-1GPM	0.5-4LPM	ZG1/2"	45*45*21	50
K2	0.2-2GPM	1-7LPM	ZG1/2"	45*45*21	50
K3	0.5-5GPM	2-18LPM	ZG1/2"	45*45*21	50
K4	1-10GPM	5-35LPM	ZG1"	49*49*24	25
K5	2-14GPM	12-52LPM	ZG1"	49*49*24	25
K6	2-20GPM	10-70LPM	ZG1"	49*49*24	25
K7	5-35GPM	30-130LPM	ZG1"	49*49*24	25

Item No.	Measure				
	GPM	LPM	Inlet/Outlet Size	Size(cm)	Quantity/ Carton
Z-4001	0.2-2GPM	1-7LPM	ZG1/2" or ZG3/8"	43*5*28*28	50
Z-4002	0.5-5GPM	2-18LPM	ZG1/2" or ZG3/8"	43*5*28*28	50
Z-4003	1-10GPM	5-35LPM	ZG1"	47*34*34	35
Z-4004	2-20GPM	10-70LPM	ZG1"	47*34*34	35
Z-4005	3-30GPM	12-120LPM	ZG1"	47*34*34	35
Z-4006	20-60GPM	20-240LPM	ZG1.5"	47*34*34	35
Z-4007	20-100GPM	40-400LPM	ZG1.5"	47*34*34	10
Z-4008	50-150GPM	190-550LPM	ZG2"	47*34*34	10
Z-4009	60-200GPM	200-750LPM	ZG2"	47*34*34	10

INDUSTRIAL PARTS

<p>SPF-01 Elbow 90° Size: 1/2", 3/4", 1", 1.25", 1.5", 2"</p>	<p>SPF-02 Elbow 45° Size: 1/2", 3/4", 1", 1.25", 1.5", 2"</p>	<p>SPF-03 Cross Size: 1/2", 3/4", 1", 1.25", 1.5", 2"</p>	<p>SPF-04 Elbow Reducing Size: $\frac{3}{4}"/\frac{1}{2}$ $1"/\frac{3}{4}$</p>	<p>SPF-05 Tee Size: 1/2", 3/4", 1", 1.25", 1.5", 2"</p>
<p>SPF-06 - Bushing Size: $\frac{1}{2}"/\frac{3}{4}$ $\frac{3}{4}"/1$ $1"/1.5$ $1.5"/2$</p>	<p>SPF-07 Stopper Size: 1/2", 3/4", 1", 1.5"</p>	<p>SPF-08 Socket Size: 1/2", 3/4", 1", 1.25", 1.5", 2"</p>	<p>SPF-09 Union Size: 1/2", 3/4", 1", 1.25", 1.5", 2"</p>	<p>SPF-10 Support Size: $\Phi 25\text{mm}$, $\Phi 32\text{mm}$ $\Phi 38\text{mm}$, $\Phi 51\text{mm}$</p>
<p>SPF-11 Jointing Elbow Size: 1/2", 3/4", 1"</p>	<p>SPF-12 Socket Size: 1/2", 3/4", 1", 1.5", 2"</p>	<p>SPF-13 Quick Fitting</p>	<p>SPF-14 - Reducer Size: $\Phi 25\text{mm}/20\text{mm}$ $\Phi 32\text{mm}/25\text{mm}$ $\Phi 40\text{mm}/32\text{mm}$ $\Phi 50\text{mm}/40\text{mm}$</p>	<p>SPF-15 Diaphragm Valve Size: 1/2", 3/4", 1"</p>
<p>SPF-16 Jointing Elbow Size: 1/2", 3/4", 1"</p>	<p>SPF-17 Welding Coupler Size: 1/2", 3/4", 1"</p>	<p>SPF-18 Hoop Size: 1", 1.5", 2", 2.5", 3", 3.5", 4"</p>	<p>SPF-19 Hoop Size: $\Phi 25\text{mm}$, $\Phi 32\text{mm}$ $\Phi 40\text{mm}$</p>	<p>SPF-20 Flange</p>
<p>SPF-21 Stainless Steel Ball Valve</p>	<p>SPF-22 Check Valve</p>	<p>SS Solenoid Valve & Brass Solenoid Valve</p>	<p>Stainless Steel Foursquare Tube</p>	<p>Stainless Steel Round Pipe</p>

INDUSTRIAL PARTS

 <p>PPF-01 UPVC Pipes</p>	 <p>PPF-02 Elbo 90°</p>	 <p>PPF-03 Elbo 45°</p>	 <p>PPF-04 Tee</p>	 <p>PPF-05 Socket</p>
 <p>PPF-06 Tee Reducing</p>	 <p>PPF-07 Flange</p>	 <p>PPF-08 Union</p>	 <p>PPF-09 Pipe Carrier</p>	 <p>PPF-10 Cross</p>
 <p>PPF-11 "I" Beamjoint</p>	 <p>PPF-12 "II" Beamjoint</p>	 <p>PPF-13 Coupler</p>	 <p>PPF-14 "I" Reducer</p>	 <p>PPF-15 "II" Reducer</p>
 <p>PPF-16 Female Thread Elbow 90°</p>	 <p>PPF-17 Female Thread Cross</p>	 <p>PPF-18 Double Union Ball Valve</p>	 <p>PPF-19 Check Valve</p>	 <p>PPF-20 Butterfly Valve</p>

HIGH PRESSURE CNP PUMPS



CDM / CDMF

CDM/CDMF pumps are new generation, high efficiency, non-self-priming vertical multistage centrifugal pumps (Abbr. as pumps). It referred to European standard.; adopted entirely new industrial design, efficiency achieved $MEI > 0.7$. It is energy saving. low noise, environment friendly, compact design, beautiful shape, light weight, easy for service, high reliability.

Motor

Totally enclosed, fan cooled, 2 pole standard motor
Protection class: IP55
Insulation class: F

Voltage: 50Hz: 1x220-230/240V
3x200-220/346-380V
3x220-240/380-415V

Applications

The pumps are designed for a variety of applications from the pumping of potable water to the pumping of industrial liquids. Applied for liquids of different temperature, different rated flow, different pressure range.

Boosting: Filtering and transferring water in water factories, delivering water in different zone, pressurizing for major pipelines, boosting for high buildings.

Industrial boosting: process water system, cleaning system, high pressure washing system, fire-fighting system.

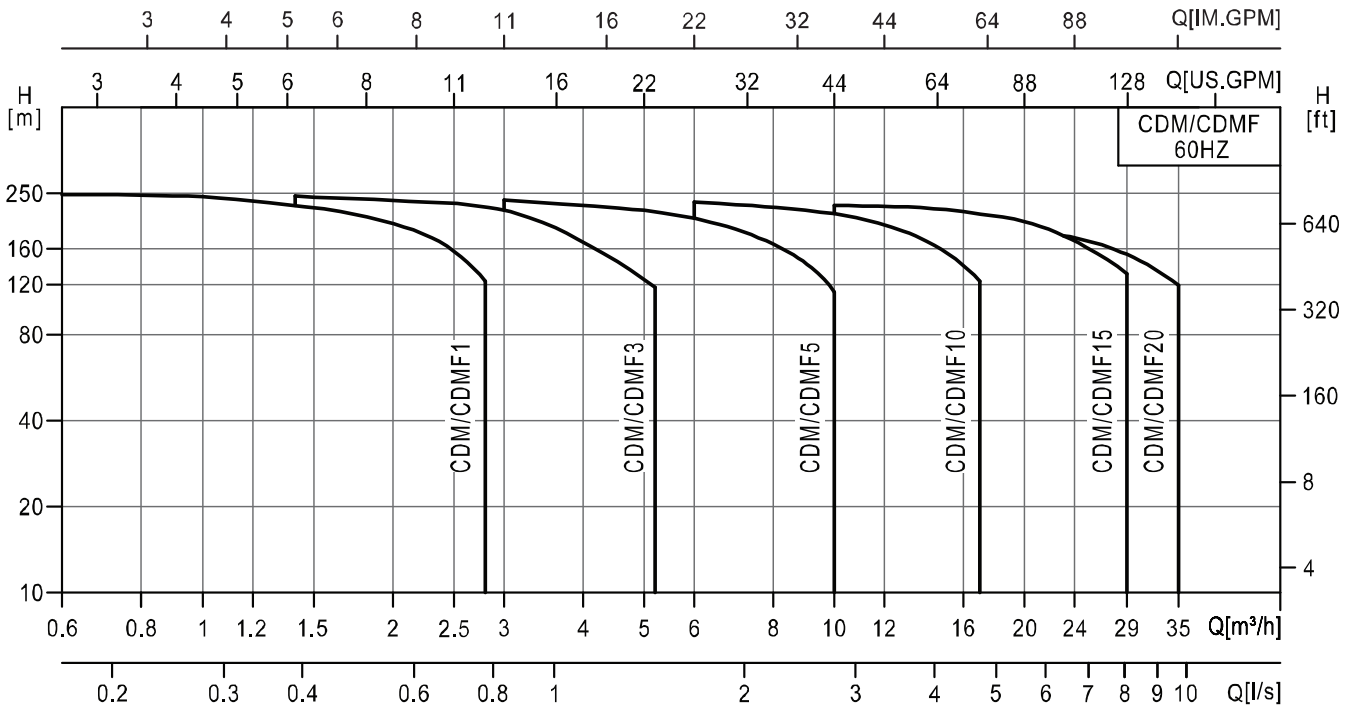
Industrial liquid conveying: cooling and air conditioning systems, boiler feed and condensate systems, machine matching, acid and alkali.

HVAC: Air conditioning system

Water treatment: Ultrafiltration system. RO system, distillation system, separator and swimming pool.

HIGH PRESSURE CNP PUMPS

Performance Scope



Product Range

Description		CDM/CDMF					
Rated flow [m³/h]		1	3	5	10	15	20
Rated flow [l/s]		0.28	0.83	1.39	2.78	4.17	5.56
Flow range [m³/h]		0.6~2.8	1.4~5.2	3~10	6~17	10~29	13~35
Flow range [l/s]		0.17~0.78	0.39~1.44	0.83~2.78	1.67~4.72	2.78~8.06	3.61~9.72
Max. pressure [bar]		25	25	24	24	23	20
Motor power [kW]		0.37~3	0.37~4	0.55~5.5	0.75~11	1.5~18.5	2.2~18.5
Temp [°C]		-15 ~ +120					
Max. efficiency [%]		49	59	70	72	73	73
CDM Pipelines	DIN flange	DN25	DN25	DN32	DN40	DN50	DN50
	Oval flange	G1	G1	G1¼	G1½		
CDMF Pipelines	DIN flange	DN25	DN25	DN32	DN40	DN50	DN50
	Cutting ferrule joint	DN32	DN32	DN32	DN50	DN50	DN50
	Pipe thread	R1¼	R1¼	R1¼	R2	R2	R2
	Oval flange	G1	G1	G1¼	G1½		

MEMBRANCE PRESSURE VESSALS



Featuers

4" Pressure Membrane Vessel

- Credible simple configuration
 - High strength, smooth inner surface and durable FRP shell
 - Polyurethane outer coating provides extra protection from environment
 - Insert plastic permeate port material
 - SS 316 head locking baffle for simple and safe assembly for 300 and 450 psi tubes, three turns locking ring design for 1000 psi tubes
-



Featuers

8" Pressure Membrane Vessel

- Credible simple configuration
 - High strength and durable FRP shell
 - Polyurethane outer coating provides extra protection from environment
 - ABS permeate adaptor
 - Insert plastic permeate port material
 - SS 316 three turn spiral lock ring for easy head assembly
 - One piece molded lock thrust cone design reduces pressure drop with highest water flow
-

WATER TEST KITS



Sl. No.	LPM	Quantity
01	TDS-3 Water quality detecting pen	1
02	Water electrolysis device	1
03	BIO Meneral conductive pen	1
04	PH reagent	4
05	Residual chlorine reagent	4
06	Calmagite reagent	2
07	Zinc reagent	2
08	Mineral reagent	1
09	Antioxidant reagent	1
10	Bleach water	1
11	Phenolphthalein reagent	1
12	Red pigment (10g)	1
13	Industrial pullutant	1
14	Small plastic tool box	1

CHLORINE AUTOMATIC ANALYSER & DOSING SYSTEM



- Fully automatic Chlorine Analyser and dosing system with digital monitor
- Different sizes are available for suit industrial needs
- Ideal for Hotel / industries and municipalities

AIR PURIFIER

Offer a purified air for your family & guests. Free from allergens, bacteria, dust, mites & odours.

Filtration

Extremely efficient high-quality filtration system 99.997 % pollutants eliminated.

Very high density (VHD) activated carbon filter - odours (tobacco smoke), gas, VOCs etc.

EN1822-certified HEPA or ULPA medical filter - bacteria, acaricides (dust, mites), pollen, dust particles etc.

- No Odours
- No Pollution
- No Allergies
- Efficiency Rating 99.998%
- A compact powerful unit
- Eco-Friendly
- Unique patented design
- Control the air you breathe



Top View



Choose the World's best filtration system

- | | |
|-----------------------|------------------------|
| Particle Filter | SmokeStop Filter |
| HEPASilent Technology | Wi-Fi |
| Smartphone Control | Integrated Air Monitor |