

ProFlow

THE PROFESSIONAL'S CHOICE FOR
RELIABLE WATER TREATMENT



ProFlow



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ProFlow water treatment systems have been designed and developed specifically with the stringent requirements and demands of commercial and industrial users in mind. Only the highest quality components are used in the **ProFlow** systems in order to offer efficient, reliable and user friendly solutions for some of the most common water quality problems, such as water hardness, iron/manganese, sediment and taste & odor. All **ProFlow** products are completely pre-engineered and where possible, components are pre-assembled to facilitate final assembly and to minimize installation time and labor on-site.

Worldwide the demand for clean water continues to grow, posing unprecedented challenges to water treatment companies. Thanks to the premium quality and the ease of installation & use of our products, combined with the experience and expertise of our network of local water treatment specialists, **ProFlow** is up to that challenge!

ABOUT US



Erie manufacturing company was founded on January 9th, 1943 when Henry Alfrey purchased the machinery and assets of a small manufacturing company at 200 East Erie Street in Milwaukee, Wisconsin (USA). Although the first products were emergency oxygen systems for military aircraft, Erie soon became a pioneer and innovator in 'devices to control flows', for application in oxygen, HVAC and water treatment systems.

In 1947 Erie was the very first company ever in the world, to develop and manufacture an automatic regeneration control valve for ion exchange water softeners. Shortly after the turn of the century, after almost 60 years of development and manufacture of control valves, the strategic decision was taken to focus on complete water treatment systems and solutions for use in a wide range of applications, like residential, commercial/industrial and commercial hospitality.

WATER SOFTENERS

All **ProFlow** water softeners are developed to efficiently remove calcium and magnesium hardness minerals from the water and provide a cost-effective solution for all hard water problems. Their advanced technology, rugged construction and proven reliability ensure many years of reliable and carefree operation.

ProFlow provides a wide range of configurations, with 1" or 1,5" control valve, from Simplex to Duplex Alternating or Duplex Parallel. In the field a Simplex configuration can easily be upgraded to Duplex Parallel configuration in case the demand for treated water increases.

ADVANTAGES OF INSTALLATING A PROFLOW WATER SOFTENER

- Water heaters and boilers retain their **maximum efficiency** and last longer
- The **lifespan** of fixtures and appliances is noticeably extended
- Use of anti-scaling products can be **eliminated** completely
- Process water is **more consistent** and efficient
- Guests enjoy all the **comfort** of softened water, when bathing/showering
- Sinks, faucets, bath tubs, showers,... remain spotless without time-consuming cleaning
- Costly special scale removal chemicals and maintenance downtime, for descaling of boilers, steam handling equipment, washing machines, etc. can be eliminated
- Consumption of detergents and other cleaning agents can be **significantly reduced**
- Fabrics, linen and clothing washed in softened water **last longer**
- Car washes will have **improved rinsing results** and save on detergents

FEATURES & BENEFITS

PRODUCT RANGE

- **Proprietary** 1" and 1,5" control valve
- **Simplex** expandable to **Duplex Parallel**
- **Duplex Alternating** for continuous supply of soft water
- **Duplex Parallel** for higher flow rates of soft water

SYSTEM

- **Premium quality** uniform bead ion exchange resin, food grade quality
- **Advanced high grade fiberglass pressure tank**, designed and tested for high working pressure, fully corrosion resistant
- Easy and convenient to install, with **bagged media** included
- **Brine tanks** sold separately (see page 7)

CONTROL VALVE

- Advanced electronic controller with microprocessor
- NOVRAM® and SuperCap for **memory backup** in case of power failure
- **Backlit display** for perfect readability
- **EAZY software** for unrivalled programming simplicity and flexibility
- **Metered regeneration**, with days override



1" CONFIGURATIONS

- **Flow rates** from 3,4 m³/hr up to 7,2 m³/hr
- Resin volumes from 25 Ltr up to 2x150 Ltr
- **Optional service valve** for Simplex configurations available
- **Optional bypass** available



1,5" CONFIGURATIONS

- **Flow rates** from 7,8 m³/hr up to 16 m³/hr
- Resin volumes from 75 Ltr up to 2x500 Ltr
- Extra large ultra-accurate **external flow meter**
- **Separate 4" valve seat** for easy assembly / removal of control valve
- **Optical sensor** for accurate and reliable piston positioning
- **Optional service valve** for Simplex configurations available



1" CONFIGURATIONS - SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Model	PF-SOF1-SIM / PF-SOF1-ALT / PF-SOF1-PRL				
Resin (Ltr)	25	50	75	100	150
Operating pressure min/max (bar)	1,4/8,3				
Operating temperature min/max (°C)	2/48				
Electrical connection (V/Hz)	230/50 ⁽¹⁾				
Max. power consumption (VA) simplex / duplex	12/2x18				
Hydraulic connection inlet/outlet	1" BSP Male				
Hydraulic connection drain	13 mm hose barb				
Hydraulic connection brine tank	3/8" compression fitting				
Pressure tank	10x35	12x48	13x54	14x65	16x65

⁽¹⁾ supplied with 24V transformer

PERFORMANCES @ 3 BAR OPERATING PRESSURE⁽²⁾

Model	PF-SOF1-SIM				
Resin (Ltr)	25	50	75	100	150
Nominal exchange capacity (m ³ x ² f)	138	275	413	550	825
Nominal exchange capacity (m ³ x ² d)	78	155	233	310	465
Service flow rate@Δp 1 bar (m ³ /hr)	3,4	3,4	3,5	3,5	3,6
Salt usage per regeneration (kg)	3,8	7,5	11,3	15,0	22,5
Rinse water usage per regeneration (Ltr)	165	285	400	540	780

Model	PF-SOF1-ALT				
Resin (Ltr)	2x25	2x50	2x75	2x100	2x150
Nominal exchange capacity (m ³ x ² f)	275	550	825	1100	1650
Nominal exchange capacity (m ³ x ² d)	155	310	465	620	930
Service flow rate @Δp 1 bar (m ³ /hr)	3,4	3,4	3,5	3,5	3,6
Salt usage per regeneration (kg)	7,5	15,0	22,5	30,0	45,0
Rinse water usage per regeneration (Ltr)	330	570	800	1080	1560

Model	PF-SOF1-PRL				
Resin (Ltr)	2x25	2x50	2x75	2x100	2x150
Nominal exchange capacity (m ³ x ² f)	275	550	825	1100	1650
Nominal exchange capacity (m ³ x ² d)	155	310	465	620	930
Service flow rate@Δp 1 bar (m ³ /hr)	6,7	6,8	7,0	7,0	7,2
Salt usage per regeneration (kg)	7,5	15,0	22,5	30,0	45,0
Rinse water usage per regeneration (Ltr)	330	570	800	1080	1560

⁽²⁾ Indicative numbers, performances depending on operating conditions and water quality

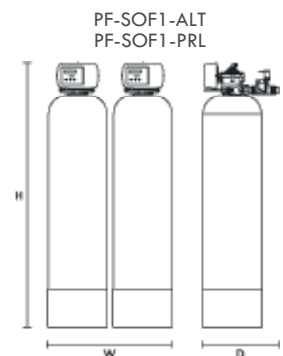
DIMENSIONS

Model	PF-SOF1-SIM				
Resin (Ltr)	25	50	75	100	150
Width (mm) (W)	264	311	338	365	415
Depth (mm) (D)	282	311	338	365	415
Depth, incl. factory bypass (mm) (D)	371	376	389	403	428
Height (mm) (H)	1059	1394	1560	1836	1833

Model	PF-SOF1-ALT / PF-SOF1-PRL				
Resin (Ltr)	2x25	2x50	2x75	2 x100	2x150
Width (mm) (W) ⁽³⁾	613	707	761	815	915
Depth (mm) (D)	405	410	436	463	513
Height (mm) (H)	1059	1394	1560	1836	1833

⁽³⁾ Based on 85 mm spacing between pressure tanks

Model names	
PF-SOF-1-SIM	ProFlow - Water Softener 1 inch - Simplex
PF-SOF-1-ALT	ProFlow - Water Softener 1 inch - Duplex Alternating
PF-SOF-1-PAR	ProFlow - Water Softener 1 inch - Duplex Parallel



TECHNICAL SPECIFICATIONS

Model	PF-SOF1,5-SIM / PF-SOF1,5-ALT / PF-SOF1,5-PRL						
Resin (Ltr)	75	100	150	200	250	350	500
Operating pressure min/max (bar)	1,4/8,0						
Operating temperature min/max (°C)	2/48						
Electrical connection (V/Hz)	230/50 ⁽¹⁾						
Max. power consumption (VA) simplex/duplex	80/2x89						
Hydraulic connection inlet/outlet	1,5" BSP Male						
Hydraulic connection drain	1" BSP Male						
Hydraulic connection brine tank	1/2" compression fitting						
Pressure tank	13x54	14x65	16x65	18x65	21x62	24x72	30x72

⁽¹⁾ supplied with 24V transformer

PERFORMANCES @ 3 BAR OPERATING PRESSURE⁽²⁾

Model	PF-SOF1,5-SIM						
Resin (Ltr)	75	100	150	200	250	350	500
Nominal exchange capacity (m ³ x°f)	413	550	825	1100	1375	1925	2750
Nominal exchange capacity (m ³ x°d)	233	310	465	620	775	1085	1550
Service flow rate@Δp 1 bar (m ³ /hr)	7,8	7,8	7,8	7,9	7,9	8,0	8,0
Salt usage per regeneration (kg)	11,3	15,0	22,5	30,0	37,5	52,5	75,0
Rinse water usage per regeneration (Ltr)	469	578	838	1148	1435	2140	3030

Model	PF-SOF1,5-ALT						
Resin (Ltr)	2x75	2x100	2x150	2x200	2x250	2x350	2x500
Nominal exchange capacity (m ³ x°f)	825	1100	1650	2200	2750	3850	5500
Nominal exchange capacity (m ³ x°d)	465	620	930	1240	1550	2170	3100
Service flow rate@Δp 1 bar (m ³ /hr)	7,8	7,8	7,8	7,9	7,9	8,0	8,0
Salt usage per regeneration (kg)	22,5	30,0	45,0	60,0	75,0	105,0	150,0
Rinse water usage per regeneration (Ltr)	938	1156	1676	2296	2870	4280	6060

Model	PF-SOF1,5-PRL						
Resin (Ltr)	2x75	2x100	2x150	2x200	2x250	2x350	2x500
Nominal exchange capacity (m ³ x°f)	825	1100	1650	2200	2750	3850	5500
Nominal exchange capacity (m ³ x°d)	465	620	930	1240	1550	2170	3100
Service flow rate @Δp 1 bar (m ³ /hr)	15,6	15,6	15,6	15,8	15,8	16,0	16,0
Salt usage per regeneration (kg)	22,5	30,0	45,0	60,0	75,0	105,0	150,0
Rinse water usage per regeneration (Ltr)	938	1156	1676	2296	2870	4280	6060

⁽²⁾ Indicative numbers, performances depending on operating conditions and water quality

DIMENSIONS

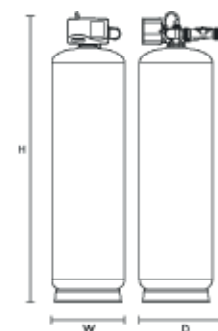
Model	PF-SOF1,5-SIM						
Resin (Ltr)	75	100	150	200	250	350	500
Width (mm) (W)	390	403	428	491	555	635	786
Depth (mm) (D)	575	575	575	595	627	667	786
Height (mm) (H)	1623	1904	1901	1952	1951	2148	2066

Model	PF-SOF1,5-ALT / PF-SOF1,5-PRL						
Resin (Ltr)	2x75	2x100	2x150	2x200	2x250	2x350	2x500
Width (mm) (W) ⁽³⁾	930	956	1006	1132	1260	1420	1722
Depth (mm) (D)	690	690	690	706	738	778	850
Height (mm) (H)	1623	1904	1901	1952	1951	2148	2066

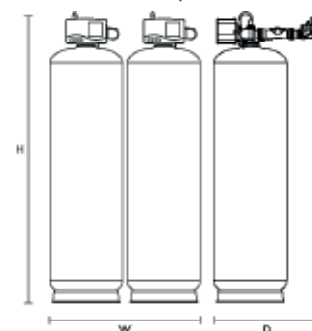
⁽³⁾ Based on 150 mm spacing between pressure tanks

Model names	
PF-SOF-1,5-SIM	ProFlow - Water Softener 1,5 inch - Simplex
PF-SOF-1,5-ALT	ProFlow - Water Softener 1,5 inch - Duplex Alternating
PF-SOF-1,5-PAR	ProFlow - Water Softener 1,5 inch - Duplex Parallel

PF-SOF1,5-SIM



PF-SOF1,5-ALT
PF-SOF1,5-PRL



BRINE TANKS ASSEMBLIES

FEATURES & BENEFITS

- High-impact resistant plastics
- Premium quality High-Flow safety brine valve with interchangeable polytube connection ($\frac{3}{8}$ " or $\frac{1}{2}$ ")
- Completely pre-assembled
- Equipped with overflow connection, drain hose and proprietary drain connection with air gap



BRINE TANK SELECTION GRID

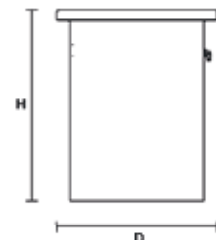
		SIMPLEX brine tank with brine platform and 1x brine valve assembly				DUPLEX brine tank with brine platform and 2x brine valve assembly			
✓	Recommended	125L	275L	500L	750L	125L	275L	500L	750L
	OK								
2x	2 pcs required								
	NOT OK								
1" Simplex	25L	✓							
	37L	✓							
	50L	✓							
	75L		✓						
	100L		✓						
	150L		✓						
1" Duplex	2 x 25L	2x				✓			
	2 x 50L	2x					✓		
	2 x 75L		2x				✓		
	2 x 100L		2x					✓	
	2 x 150L		2x					✓	
1,5" Simplex	75L		✓						
	100L		✓						
	150L		✓						
	200L			✓					
	250L			✓					
	350L			✓					
	500L				✓				
1,5" Duplex	2 x 75L		2x				✓		
	2 x 100L		2x					✓	
	2 x 150L		2x					✓	
	2 x 200L			2x				✓	
	2 x 250L			2x					✓
				2x					✓
	2 x 500L				2x				✓

TECHNICAL SPECIFICATIONS

Model	PF-BTA			
Volume (Ltr)	125	275	500	750
Hydraulic connection brine valve	interchangeable: $\frac{3}{8}$ " Quick-Fit & $\frac{1}{2}$ " compression fitting			
Hydraulic connection overflow	13 mm hose barb			

DIMENSIONS & WEIGHTS

Model	PF-BTA			
Volume (Ltr)	125	275	500	750
Diameter (mm) (D)	540	685	875	1030
Height (mm) (H)	850	975	1110	1110
Max. salt storage capacity (kg)	100	200	475	675



ProFlow Granular Activated Carbon water filters are developed to improve taste, colour and odour of water and to reduce a wide range of chemicals (like Chlorine), pesticides and herbicides. At the same time it removes impurities down to 40 µm. This results in cleaner, safer and better-tasting drinking water and protection of your plumbing, fixtures and water using appliances.

ProFlow Filter-Ag water filters efficiently remove suspended particles like dirt, silt, clay, rust, etc down to 20 µm for protection of your plumbing, fixtures and water using appliances.

PROFLOW WATER FILTERS ARE AVAILABLE WITH 2 FILTER MEDIA

GRANULAR ACTIVATED CARBON

- High quality **coconut based granular Activated Carbon** that meets the demands of continuous fixed bed water treatment
- **Selected pore structure** for maximum adsorption
- Excellent backwashing characteristics

FILTER-AG

- Its **fractured edges** and **irregular shape** provide a high surface area and complex flow path for optimal efficiency
- **Exceptionally high sediment reduction capacity:** longer service runs, reduced backwash frequency
- **Lightweight:** lower backwash flow rate, reduced backwash water consumption
- Higher service flow rates/lower pressure drops: smaller equipment will do the job!

FEATURES & BENEFITS

PRODUCT RANGE

- **Proprietary 1" and 1,5"** control valve
- All water filters are offered as **Simplex configuration**
- **Simplex configuration** expandable to **Multiplex Parallel configurations**



1" CONFIGURATIONS

- **Flow rates** from 1,2 m³/hr up to 2,3 m³/hr
- Filter media volumes from 1 Cuft up to 3 Cuft
- **Optional service valve** available
- **Optional bypass** available

SYSTEM

- **Premium quality** filter media
- **Advanced high grade fiberglass pressure tank**, designed and tested for high working pressure, fully corrosion resistant
- Easy and convenient to install, with **bagged media** included



1,5" CONFIGURATIONS

- **Flow rates** from 2,3 m³/hr up to 6,7 m³/hr
- Filter media volumes from 3 Cuft up to 10 Cuft
- **Separate 4" valve seat** for easy assembly / removal of control valve
- **Optical sensor** for accurate and reliable piston positioning
- **Optional service valve** available

CONTROL VALVE

- Advanced electronic controller with microprocessor
- NOVRAM® and SuperCap for **memory backup** in case of power failure
- **Backlit display** for perfect readability
- **EAZY software** for unrivalled programming simplicity and flexibility
- **Time-clock initiated regeneration**
- **Auxillary contact** present



MULTIPLEX PARALLEL

A multi-unit configuration consists of 2 or more standard Simplex systems which are installed in parallel, resulting in a dramatic increase in service flow rate. By adding a Service Valve in the outlet of each Simplex system, the untreated water bypass during

regeneration can be shut-off; and while each Simplex system can be programmed individually at a different time of regeneration, simultaneous regeneration is avoided, guaranteeing uninterrupted supply of treated water!

BENEFITS:

- More economical than larger Simplex system
- Modular/expandable system
- Easier to transport & install
- Continuous supply of treated water
- Redundancy in case of breakdown or maintenance

TECHNICAL SPECIFICATIONS

Model	PF-GAC1 / PF-AG1			PF-GAC1,5 / PF-AG1,5				
	1	2	3	3	4	5	7	10
Filter media (Cuft) ⁽¹⁾								
Operating pressure min/max (bar)	2,5/8,3			2,5/8,0				
Operating temperature min/max (°C)	4/48			4/48				
Electrical connection (V/Hz)	230/50 ⁽²⁾			230/50 ⁽²⁾				
Max. power consumption (VA)	12			80				
Hydraulic connection inlet/outlet	1" BSP Male			1,5" BSP Male				
Hydraulic connection drain	13 mm hose barb			1" BSP Male				
Pressure tank	10x40	12x52	14x65	14x65	16x65	18x65	21x62	24x72

⁽¹⁾ 1 Cuft = 28,3 Ltr

⁽²⁾ supplied with 24V transformer

PERFORMANCES @ 3 BAR OPERATING PRESSURE⁽³⁾

Model	PF-GAC1			PF-GAC1,5				
	1	2	3	3	4	5	7	10
Filter media (Cuft)								
Service flow rate @ Δp 1 bar (m ³ /hr) ⁽⁴⁾	3,4	3,4	3,5	7,8	7,8	7,8	7,9	8,0
Recommended max. service flow (m ³ /hr) ⁽⁵⁾	1,2	1,7	2,3	2,3	3,0	3,8	5,1	6,7
Rinse water usage per regeneration (Ltr)	295	394	492	492	738	984	1230	1722
Backwash flow rate (Ltr/min)	23	31	38	38	57	76	95	133

Model	PF-AG1			PF-AG1,5				
	1	2	3	3	4	5	7	10
Filter media (Cuft)								
Service flow rate @ Δp 1 bar (m ³ /hr) ⁽⁴⁾	3,4	3,4	3,5	7,8	7,8	7,8	7,9	8,0
Recommended max. service flow (m ³ /hr) ⁽⁵⁾	2,4	3,4	4,6	4,6	6,0	7,6	10,2	13,4
Rinse water usage per regeneration (Ltr)	295	394	492	492	738	984	1230	1722
Backwash flow rate (Ltr/min)	23	31	38	38	57	76	95	133

⁽³⁾ Indicative numbers, performances depending on operating conditions and water quality

⁽⁴⁾ Based on clean filter bed operation

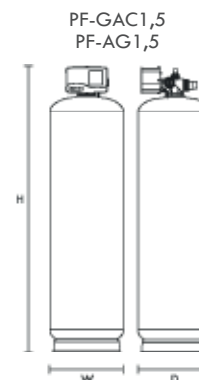
⁽⁵⁾ = continuous service flow rate; higher (up to x2) short-period peak flow rates are possible

DIMENSIONS

Model	PF-GAC1 / PF-AG1		
	1	2	3
Filter media (Cuft)			
Width (mm) (W)	264	311	365
Depth (mm) (D)	282	311	365
Depth, incl. factory bypass (mm) (D)	371	376	403
Height (mm) (H)	1182	1500	1836

Model	PF-GAC1,5 / PF-AG1,5				
	3	4	5	7	10
Filter media (Cuft)					
Width (mm) (W)	408	434	491	555	635
Depth (mm) (D)	408	434	491	555	635
Height (mm) (H)	1865	1862	1913	1912	2109

Model names	
PF-GAC1	ProFlow - Water Filter - Granular Activated Carbon 1 inch
PF-AG1	ProFlow - Water Filter - Filter Ag 1 inch
PF-GAC1,5	ProFlow - Water Filter - Granular Activated Carbon 1,5 inch
PF-AG1,5	ProFlow - Water Filter - Filter Ag 1,5 inch



Water wells very often face high levels of iron and/or manganese in the water. In well water, the iron/manganese usually appears in the invisible dissolved state, so when the water is first drawn, it appears clear! But as soon as the water is exposed to air, the dissolved iron/manganese is 'oxidized' and forms insoluble particles.

Another problem in well water is hydrogen sulfide - a gas that occurs naturally in groundwater and is produced by the decomposition of organic material and by sulfur-reducing bacteria.

Birm®, the filter media used in all ProFlow iron filters, has a **double function**:

- As a catalyst between dissolved oxygen and dissolved iron/manganese compounds present in the water; greatly enhances the oxidation reaction that converts dissolved iron/manganese into insoluble particles.
- Its extremely high active surface area is very efficient in capturing insoluble particles and filtering them out from the water.

On top of the proven oxidation process, the revolutionary feature of the ProFlow iron filter is its 'compressed aeration chamber' integrated in the filter system itself.

- During each regeneration, air is being sucked up into the pressure tank by the control valve, which forms an air chamber in the top section of the pressure tank.
- In service, the untreated water that enters the pressure tank first comes into contact with the air in this 'compressed aeration chamber', where it gets super-oxygenated; this aeration highly accelerates the oxidation process of dissolved iron/manganese, but it also takes care of hydrogen sulfide by oxidizing it into insoluble sulphur particles.

At pre-determined intervals the system will backwash and remove all contaminants from the filter media.

FEATURES & BENEFITS

PRODUCT RANGE

- **Proprietary 1" and 1,5"** control valve
- All iron filters are offered as **Simplex configuration**
- **Simplex configuration** expandable to **Multiplex Parallel configurations**



1" CONFIGURATIONS

- **Flow rates** from 1,0 m³/hr up to 2,0 m³/hr
- Filter media volumes from 1 Cuft up to 3 Cuft
- **Optional service valve** available
- **Optional bypass** available

SYSTEM

- Single tank system, **no external aerators, air injectors, compressors,...**
- **No need for chemicals** for regeneration
- **No need for systematic maintenance**
- Safe for septic tanks/beds
- Easy and convenient to install, with **bagged media** included



1,5" CONFIGURATIONS

- **Flow rates** from 2,0 m³/hr up to 6,0 m³/hr
- Filter media volumes from 3 Cuft up to 10 Cuft
- **Separate 4" valve seat** for easy assembly / removal of control valve
- **Optical sensor** for accurate and reliable piston positioning
- **Optional service valve** available

CONTROL VALVE

- Advanced electronic controller with microprocessor
- NOVRAM® and SuperCap for **memory backup** in case of power failure
- **Backlit display** for perfect readability
- **EAZY software** for unrivalled programming simplicity and flexibility
- **Time-clock initiated regeneration**
- **Auxillary contact** present



MULTIPLY PARALLEL

A multi-unit configuration consists of 2 or more standard Simplex systems which are installed in parallel, resulting in a dramatic increase in service flow rate. By adding a Service Valve in the outlet of each Simplex system, the untreated water bypass during

regeneration can be shut-off; and while each Simplex system can be programmed individually at a different time of regeneration, simultaneous regeneration is avoided, guaranteeing uninterrupted supply of treated water!

BENEFITS:

- More economical than larger Simplex system
- Modular/expandable system
- Easier to transport & install
- Continuous supply of treated water
- Redundancy in case of breakdown or maintenance

TECHNICAL SPECIFICATIONS

Model	PF-OXY1			PF-OXY1,5				
	1	2	3	3	4	5	7	10
Filter media (Cuft) ⁽¹⁾								
Operating pressure min/max (bar)	2,5/8,3			2,5/8,0				
Operating temperature min/max (°C)	4/48			4/48				
Electrical connection (V/Hz)	230/50 ⁽²⁾			230/50 ⁽¹⁾				
Max. power consumption (VA)	12			80				
Hydraulic connection inlet/outlet	1" BSP Male			1,5" BSP Male				
Hydraulic connection drain	13 mm hose barb			1" BSP Male				
Pressure tank	10x40	12x52	14x65	14x65	16x65	18x65	21x62	24x72

⁽¹⁾ 1 Cuft = 28,3 Ltr

⁽²⁾ supplied with 24V transformer

PERFORMANCES @ 3 BAR OPERATING PRESSURE⁽³⁾

Model	PF-OXY1			PF-OXY1,5				
	1	2	3	3	4	5	7	10
Filter media (Cuft)								
Service flow rate @Δp 1 bar (m ³ /hr) ⁽⁴⁾	3,4	3,4	3,5	7,8	7,8	7,8	7,9	8,0
Recommended max. service flow (m ³ /hr) ⁽⁵⁾	1,0	1,5	2,0	2,0	2,7	3,4	4,1	6,0
Rinse water usage per regeneration (Ltr)	290	413	536	556	811	1065	1366	1922
Backwash flow rate (Ltr/min)	23	31	38	38	57	76	95	133

⁽³⁾ Indicative numbers, performances depending on operating conditions and water quality

⁽⁴⁾ Based on clean filter bed operation

⁽⁵⁾ Flow rate at which filtration process is still executed adequately, higher intermittent flow rates are possible

APPLICATION LIMITATIONS

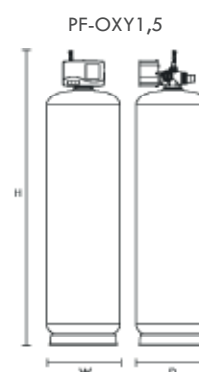
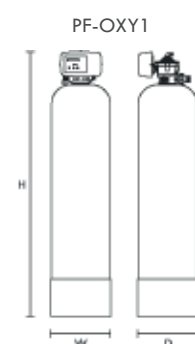
Model	PF-OXY1 / PF-OXY1,5
pH for Iron removal	6,8 - 9,0
pH for Manganese removal	8,0 - 9,0
pH for Iron & Manganese removal	8,0 - 8,5
Maximum contaminant level Iron (Fe ²⁺)	15 mg/Ltr
Maximum contaminant level Manganese (Mn ²⁺)	2 mg/Ltr
Maximum contaminant level Hydrogen Sulfide (H ₂ S)	5 mg/Ltr
Organic matter	max. 4,0 mg/L; higher level may hinder the correct operation of the system
Chlorine	max. 1,0 mg/Ltr
Iron bacteria	if iron bacteria are present, frequent service may be necessary and the life of the system may be limited; by properly controlling the iron bacteria with chlorine or another approved method of bacterial reduction, the system will function properly

DIMENSIONS

Model	PF-OXY1		
Filter media (Cuft)	1	2	3
Width (mm) (W)	264	311	365
Depth (mm) (D)	282	311	365
Depth, incl. bypass (mm) (D)	371	376	403
Height (mm) (H)	1182	1500	1836

Model	PF-OXY1,5				
Filter media (Cuft)	3	4	5	7	10
Width (mm) (W)	408	434	491	555	635
Depth (mm) (D)	408	434	491	555	635
Height (mm) (H)	1955	1952	2003	2002	2199

Model names	
PF-OXY1	ProFlow - Iron Filter 1 inch
PF-OXY1,5	ProFlow - Iron Filter 1,5 inch



The Proflow Multimix Series utilizes a revolutionary multipurpose filter media that effectively and efficiently treats 5 common problems found in municipal and well water supplies:

- Hardness
- Iron
- Manganese
- Natural Organic Matter (NOM)
- Ammonia

The filter media consist of 5 high quality natural and synthetic ionexchange and absorption materials:

- Inert material, for optimal flow arrangement during backwash
- Adsorbent, for Natural Organic Matter
- Adsorbent, for Iron/Manganese
- Cation resin, for removal of Calcium/Magnesium
- Quartz sand, for optimal flow distribution

The filter media automatically forms a 'multi-layer' filter bed, with each layer selectively removing one (or more) of the different contaminants, present in the raw water.

Regeneration is simple and straight forward: all that's needed is backwashing and rinsing with NaCl (salt). Just like a traditional water softener! Product selection, sizing and configuration is based on the water hardness only!

FEATURES & BENEFITS

PRODUCT RANGE

- **Proprietary 1"**
- All water filters are offered as **Simplex configuration**
- **Simplex configuration** expandable to **Multiplex Parallel configurations**



1" CONFIGURATIONS

- **Flow rates** from 3.3 m³/hr up to 3.5 m³/hr
- Filter media volumes from 1 Cuft up to 3 Cuft
- **Optional service valve** available
- **Optional bypass** available

SYSTEM

- **Premium quality** filter media
- **Advanced high grade fiberglass pressure tank**, designed and tested for high working pressure, fully corrosion resistant
- Easy and convenient to install, with **bagged media** included



CONTROL VALVE

- 1" Control valve for high flow rates/low pressure drop; Advanced microprocessor controlled, with NOVRAM® memory, power backup and backlit display;
- EAZY software for unrivalled programming simplicity and flexibility;
- Heavy-duty brine tank, with float valve for double security;
- Premium quality fiberglass pressure tank, fully corrosion resistant;
- Unique blend of premium quality filter materials to solve a multitude of problems;
- Simplicity in selection, sizing, configuration, installation, maintenance.

MULTIPLEX PARALLEL

A multi-unit configuration consists of 2 or more standard Simplex systems which are installed in parallel, resulting in a dramatic increase in service flow rate. By adding a Service Valve in the outlet of each Simplex system, the untreated water bypass during

regeneration can be shut-off; and while each Simplex system can be programmed individually at a different time of regeneration, simultaneous regeneration is avoided, guaranteeing uninterrupted supply of treated water!

BENEFITS:

- More economical than larger Simplex system
- Modular/expandable system
- Easier to transport & install
- Continuous supply of treated water
- Redundancy in case of breakdown or maintenance

TECHNICAL SPECIFICATIONS

Model	PF-MMX			
Filter media (ltr)	25	37	50	75
Operating pressure min/max (bar)	1,4/8,3			
Operating temperature min/max (°C)	2/48			
Electrical connection (V/Hz)	230/50 ⁽¹⁾			
Max. power consumption (VA)	12			
Hydraulic connection inlet/outlet	1" BSP Male			
Hydraulic connection drain	19 mm hose barb			
Hydraulic connection brine tank	3/8" compression fitting			
Pressure tank	10x35	10x47	12x48	14x65

⁽¹⁾ Supplied with 24V transformer

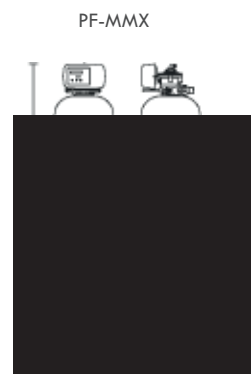
PERFORMANCES @ 3 BAR OPERATING PRESSURE⁽²⁾

Model	PF-MMX			
Filter media (ltr)	25	37	50	75
Nominal exchange capacity (m ³ x°f)	95	141	190	285
Nominal exchange capacity (m ³ x°d)	53	79	106	160
Service flow rate @Δp 1 bar (m ³ /hr)	3,3	3,4	3,5	3,5
Salt usage per regeneration (kg)	2,5	3,7	5,0	7,5
Rinse water usage per regeneration (ltr)	205	248	354	531
Max. flow to drain (ltr/min)	9,8	9,8	15,1	22,7

⁽²⁾ Indicative numbers, performances depending on operating conditions and water quality

DIMENSIONS

Model	PF-MMX			
Filter media (Cuft)	1	2		3
Width (mm) (W)	264	311		365
Depth (mm) (D)	282	311		365
Depth, incl. bypass (mm) (D)	371	376		403
Height (mm) (H)	1182	1500		1836



FEATURES & BENEFITS

- High-impact resistant plastics
- Premium quality High-Flow safety brine valve with interchangeable polytube connection ($\frac{3}{8}$ " or $\frac{1}{2}$ ")
- Completely pre-assembled
- Equipped with overflow connection, drain hose and proprietary drain connection with air gap



BRINE TANK SELECTION GRID

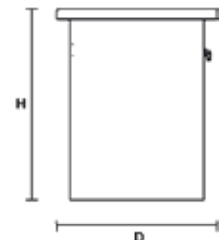
		SIMPLEX brine tank with brine platform and 1x brine valve assembly				DUPLEX brine tank with brine platform and 2x brine valve assembly			
✓	Recommended	125L	275L	500L	750L	125L	275L	500L	750L
	OK								
2x	2 pcs required								
	NOT OK								
1" Simplex	25L	✓							
	37L	✓							
	50L	✓							
	75L		✓						
	100L		✓						
	150L		✓						
1" Duplex	2 x 25L	2x				✓			
	2 x 50L	2x					✓		
	2 x 75L		2x				✓		
	2 x 100L		2x					✓	
	2 x 150L		2x					✓	
1,5" Simplex	75L		✓						
	100L		✓						
	150L		✓						
	200L			✓					
	250L			✓					
	350L			✓					
	500L				✓				
1,5" Duplex	2 x 75L		2x				✓		
	2 x 100L		2x					✓	
	2 x 150L		2x					✓	
	2 x 200L			2x				✓	
	2 x 250L			2x					✓
				2x					✓
	2 x 500L				2x				✓

TECHNICAL SPECIFICATIONS

Model	PF-BTA			
Volume (Ltr)	125	275	500	750
Hydraulic connection brine valve	interchangeable: $\frac{3}{8}$ " Quick-Fit & $\frac{1}{2}$ " compression fitting			
Hydraulic connection overflow	13 mm hose barb			

DIMENSIONS & WEIGHTS

Model	PF-BTA			
Volume (Ltr)	125	275	500	750
Diameter (mm) (D)	540	685	875	1030
Height (mm) (H)	850	975	1110	1110
Max. salt storage capacity (kg)	100	200	475	675



PH NEUTRALIZER

If your water is acidic (low pH), you can use Proflow pH Neutralizer and pNeutralizer XL containing a self-sacrificing media, that slowly dissolves into the water to raise the pH. This media can be either calcium carbonate based, for moderate pH correction, or magnesium oxide based for more effective pH correction. The Proflow pH Neutralizer must be backwashed periodically since they typically also serve as mechanical filters to remove solid particles from the water. They also require periodic replenishment of the neutralizing media.

CONFIGURATIONS

pHneutralizer:

- > uses Calcite (calcium carbonate based), a mild neutralizing media;
- > ideal for mild pH correction, when pH of untreated water is min. 6,0.

pHneutralizer XL:

- > uses blend of Calcite/Corosex blend (magnesium oxide based), a faster acting neutralizing media;
- > ideal for more aggressive pH correction, when:
 - pH of untreated water is below 6,0;
 - TDS of untreated water is high (>150);
 - high peak flow rates.

FEATURES & BENEFITS

PRODUCT RANGE

- **Proprietary 1"**
- All water filters are offered as **Simplex configuration**
- **Simplex configuration** expandable to **Multiplex Parallel configurations**

SYSTEM

- **Premium quality** filter media
- **Advanced high grade fiberglass pressure tank**, designed and tested for high working pressure, fully corrosion resistant
- Easy and convenient to install, with **bagged media** included

CONTROL VALVE

- 1" Control valve for high flow rates/low pressure drop;
- Advanced microprocessor controlled, with NOVRAM® memory, power backup and backlit display;
- EAZY software for unrivalled programming simplicity and flexibility;



1" CONFIGURATIONS

- **Flow rates** from 1,4 m³/hr up to 1,6 m³/hr
- **Optional service valve** available
- **Optional bypass** available

MULTIPLEX PARALLEL

A multi-unit configuration consists of 2 or more standard Simplex systems which are installed in parallel, resulting in a dramatic increase in service flow rate. By adding a Service Valve in the outlet of each Simplex system, the untreated water bypass during

regeneration can be shut-off; and while each Simplex system can be programmed individually at a different time of regeneration, simultaneous regeneration is avoided, guaranteeing uninterrupted supply of treated water!

BENEFITS:

- More economical than larger Simplex system
- Modular/expandable system
- Easier to transport & install
- Continuous supply of treated water
- Redundancy in case of breakdown or maintenance

TECHNICAL SPECIFICATIONS

Model	PF-PHN		PF-PHX	
Filter media (cuft)	1	1,5	1	1,5
Operating pressure min/max (bar)	2,0/8,3			
Operating temperature min/max (°C)	2/38			
Electrical connection (V/Hz)	230/50(1)			
Max. power consumption (VA)	12			
Hydraulic connection inlet/outlet	1" BSP Male			
Hydraulic connection drain	19 mm hose barb			
Pressure tank	10x40	10x54	10x40	10x54

(1) Supplied with 24V transformer

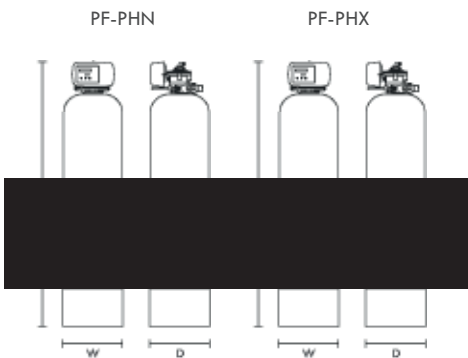
PERFORMANCES @ 3 BAR OPERATING PRESSURE⁽²⁾

Model	PF-PHN		PF-PHX	
Filter media (cuft)	1	1,5	1	1,5
Recommended max. service flow (m3/hr) (2)	1,4	1,6	1,4	1,6
Rinse water usage per regeneration (ltr)	227			
Backwash flow rate (ltr/min)	23			

(2) continuous service flow rate; higher (up to x2) short-period peak flow rates are possible

DIMENSIONS

Model	PF-PHN		PF-PHX	
Filter media (Cuft)	1	1,5	1	1,5
Width (mm) (W)	268	268	268	268
Depth (mm) (D)	290	290	290	290
Depth, incl. bypass (mm) (D)	371	371	371	371
Height (mm) (H)	1.191	1.556	1.191	1.556



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MEMBERSHIPS



CERTIFICATIONS



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