

INDION® SWIFT 5Gx Series

Short Cycle Rapid Regeneration

The latest INDION Swift range comprises a family of automatic twin-bed deionisers incorporating state-of-the-art counter-flow ion exchange technology previously available only in large, custom designed plants.

The operational cycle of these rapid regeneration, packaged units are controlled by volume throughout, which is pre-programmed in PLC according to the type of feed water. The ion exchange resins are never fully exhausted ensuring optimum deionised water production at all times.

Regeneration takes just 35 minutes – after a minimum service cycle of four hours – minimising the need for both, a standby plant and the storage of large volumes of water. As regeneration of the cation and anion beds is simultaneous, the effluent streams are largely self-neutralising, reducing waste disposal costs and environmental impact.

INDION Swift 5Gx series of products is exceptionally compact, and is skid-mounted on a corrosion-resistant frame which also accommodates a stainless steel multi-purpose pump. In addition to optimising the performance of the plant during service and regeneration, the pump provides a number of recirculation options to maintain high quality of water in the treated water tank.

INDION Swift 5Gx plus integrates a cation polishing unit (catpol) in order to produce mixed bed water quality meeting stringent international standards.



Features

Short Cycle Ion Exchange Process

- Rapid regeneration – 35 mins
- Enhanced bacterial control
- Reduced treated water storage cost
- Near neutral effluent

Skid-mounted & Pre-commissioned

- Highly treated water quality
- Water quality, conductivity is 1 – 10 $\mu\text{S}/\text{cm}$
- Low operating cost
- Quick start-up time
- Low footprint
- Counter - current regeneration
- High chemical efficiency

Fully Automatic

- PLC control
- 10.4" HMI panel displays all unit processes
- Audible alarm & 'no flow' alarm circuit

Technical Specifications

Model	P-1	P-2	P-3	P-4
Max. Flow (m ³ /h)	2.25	3.75	5.25	7.50
TREATED WATER QUALITY				
Conductivity (μS/cm)	1-0.1	1-0.1	1-0.1	1-0.1
Resistivity (mg. ohm-cm)	1-10	1-10	1-10	1-10
pH	5-7	5-7	5-7	5-7
CAPACITY DATA				
Output/Regeneration (m ³)(100 ppm Total Anion as CaCO ₃ incl. SiO ₂)	14	21	28	35
REGENERATION DATA				
Regeneration Time (Approx.) (mins)	35	35	35	35
Chemicals per Regeneration				
32% Hydrochloric Acid (litres)	7.4	11.0	14.8	18.4
32% Sodium Hydroxide (litres)	6.9	10.4	13.9	17.3
Effluent Volume per Regeneration (m ³)	0.48	0.82	1.04	1.22
Max. Effluent Flow (m ³ /h)	2.5	4.4	5.0	6.5
Bulk Effluent pH	6-8	6-8	6-8	6-8
Feed Water Data Supply Quality	Suitable potable water free from suspended solids, max temp 40°C			
Inlet/Outlet Connections				
PVC Socket Union (mm)	32/25	40/32	50/32	50/40
Drain Connections (mm)	20	25	32	32
ELECTRICAL DATA				
Supply 415V 3ph 50Hz Power Consumption (kw)	1.5	1.5	2.2	3.0
AIR SUPPLY DATA				
Min./Max. Pressure (bar)	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5
DIMENSIONS				
Width (mm)	1600	1600	1700	1700
Height (mm)	2000	2000	2100	2100
Depth (mm)	900	900	950	950
Headroom Required (mm)	1000	1000	1000	1000
WEIGHT (Approx.)				
Delivered Wt. (kg.)	457	500	1000	1000
Working Wt. (kg.)	625	725	1350	1450

Our state-of-the-art manufacturing facilities are ISO 9001, ISO 14001 & ISO 45001 certified.

To the best of our knowledge, the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional / branch offices for current product specifications.

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