ION EXCHANGE
Refreshing the Planet

INDION®

SWIFT Plus Demineralizer

The latest Indion Swift range comprises a family of automatic twin-bed deionizers 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 is 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 deionized water production at all times.

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

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

SWIFT Plus

Indion Swift Plus features an additional cation exchange stage which is accommodated on the standard Swift skid. As a result, Swift Plus produces mixed bed quality water having resistivity of greater than 1mg.Ω-cm for a minimum capital outlay. Running cost is low because no additional regenerant chemicals are required and no extra effluent is produced.

Standard Features

- Mixed bed quality water at minimum cost
- Incorporates an additional cation polishing stage for mixed bed quality
- Average resistivity of purified water is 10 mg.Ω-cm & neutral pH
- Small footprint, no larger than a two vessel Indion Swift
- No additional regenerant chemicals required
- Swift Plus provides up to 330 m^3/d on a feed water of 100 ppm, total anion feed
- High chemical efficiency
- 35 minutes regeneration time
- Near neutral effluent reduces disposal costs
- Stainless steel process pump
- Automatic control PLC
- Message display provides continuous read-out of system status
- Flow display provides information on flow rates, throughout and number of regenerations
- Audible alarm and 'no flow' alarm circuit
- Can be connected to level sensors in chemical tanks to prevent regeneration when insufficient chemicals are available
- Minimal installation and commissioning costs

Technical Specifications - SWIFT Plus Range

Model	P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-10+
Max. Flow (m^3/h)	2.25	3.75	5.25	7.50	12.00	16.00	25.00	35.00	50.00
TREATED WATER QUALITY									
Conductivity (µS/cm)	1-0.1	1-0.1	1-0.1	1-0.1	1-0.1	1-0.1	1-0.1	1-0.1	1-0.1
Resistivity (mg.Ω-cm)	1-10	1-10	1-10	1-10	1-10	1-10	1-10	1-10	1-10
pH	5-7	5-7	5-7	5-7	5-7	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	63	84	126	180	326
REGENERATION DATA									
Regeneration Time (Approx.) (mins)	35	35	35	35	35	35	35	35	35
Chemicals per Regeneration									
32% Hydrochloric Acid (litres)	7.4	11.0	14.8	18.4	33.2	44.2	84.9	108.8	177.0
32% Sodium Hydroxide (litres)	6.9	10.4	13.9	17.3	31.3	41.6	86.7	110.9	180.3
Effluent Volume per Regeneration (m^3)	0.48	0.82	1.04	1.22	2.10	2.75	5.3	6.8	12.0
Max. Effluent Flow (m^3/h)	2.5	4.4	5.0	6.5	11.2	14.6	18.25	25.5	60.0
Bulk Effluent pH	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8
Feed Water Data Supply Quality	Suitable potable water free from suspended solids, max temp 40°C								(max temp 30°C)
Inlet/Outlet Connections									
PVC Socket Union (mm)	32/25	40/32	50/32	50/40	80/50	80/50	100/80	100/80	150/100
Drain Connections (mm)	20	25	32	32	40	50	80	80	100
ELECTRICAL DATA									
Supply 415V 3ph 50Hz									
Power Consumption (kw)	1.5	1.5	2.2	3.0	5.5	5.5	7.5	11.00	< 18
AIR SUPPLY DATA									
Min./Max. Pressure (bar)	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5
DIMENSIONS									
Width (mm)	1600	1600	1700	1700	2080	2080	3500	3500	4500
Height (mm)	2000	2000	2100	2100	2500	2500	3000	3000	3500
Depth (mm)	900	900	950	950	1300	1300	2000	2000	3000
Headroom Required (mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
WEIGHT (Approx.)									
Delivered Wt. (kg.)	457	500	1000	1000	1100	1300	1500	1600	2500
Working Wt. (kg.)	625	725	1350	1450	1850	2050	2700	3000	7500

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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