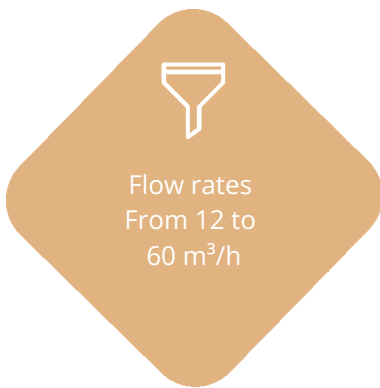


RAPIDE STRATA™ (HF)

Short Cycle Regeneration Ion Exchange Deionisation

RAPIDE STRATA™ two-bed or three-bed units produce high purity water for a range of industrial applications. The unique design offers savings of up to 40% on operational and wastewater costs compared to conventional deionisation systems. Versions available according to European standards.



✓ FEATURES & BENEFITS

- 2 models available, Rapide Strata, Rapide Strata+ and in varying sizes
- Standard regeneration in 35-80 minutes: minimizes down time, enhances bacterial control, improves chemical usage efficiencies
- Control system PLC, Touch Screen HMI, Veolia HUBGRADE™ Ready: facilitate monitoring and operation
- Duplex operation mode for continuous water production: increased production capacity
- Continuous conductivity monitor with auto service shut-off and alarm: ensures water quality
- Continuous, intermittent or zero recirculation of water when tank reaches high point: operational flexibility
- Skid-mounted, standardised systems: short lead times, quick installation and start-up
- Variable frequency drive (VFD)

💧 APPLICATIONS

- Industrial process water for all industry, pharmaceutical, beverage etc.
- High and medium pressure boiled feed
- Surface finishing

+ OPTIONS

- Automatic isolating valves on diluted chemical feed lines
- Pressure gauges in addition to pressure transmitters
- Multipurpose water pump non return valve
- Feed water manual isolating valve
- Resin trap strainer on deionized water outlet
- Capable of producing water with <20 ppb of reactive silica; suitable for high and medium pressure boiler-feed
- Produces water of <0.1 µS/cm; polishing RO water

ASSOCIATED SERVICES

Local aftermarket service and support teams offer preventive and corrective maintenance programs to ensure the long-term, efficient operation of installed equipment.





System Operating Parameters

Model	Unit	23 UK	32 UK	45 UK	60 UK
Max Feed Flowrate	m ³ /h	23	32	45	60
Min Feed Flowrate	m ³ /h	12	16	20	30
Regeneration Time ⁽¹⁾	min.	35 - 55	35 - 55	35 - 55	35 - 55
Maximum Waste Flow to Drain during Regeneration	m ³ /h	22.0	30.5	43.0	57.0
Wastewater Volume per Regeneration ⁽²⁾	m ³	4.5	7.0	9.5	12.6
Bulked wastewater pH	-	6 - 9	6 - 9	6 - 9	6 - 9
Chemical Usage per Regeneration - HCl (32%) ⁽³⁾	L	41.0	57.0	78.0	100.0
Chemical Usage per Regeneration - NaOH (32%) ⁽³⁾	L	38.0	54.0	64.0	78.0
Pump Motor Size	kW	7.5	7.5	11.0	15.0

Model	Unit	23+ UK	32+ UK	45+ UK	60+ UK
Max Feed Flowrate	m ³ /h	23	32	45	60
Min Feed Flowrate	m ³ /h	12	16	20	30
Regeneration Time ⁽¹⁾	min.	35 - 55	35 - 55	35 - 55	35 - 55
Maximum Waste Flow to Drain during Regeneration	m ³ /h	22.0	30.5	43.0	57.0
Wastewater Volume per Regeneration ⁽²⁾	m ³	4.5	7.0	9.5	12.6
Bulked wastewater pH	-	6 - 9	6 - 9	6 - 9	6 - 9
Chemical Usage per Regeneration - HCl (32%) ⁽³⁾	L	41.0	57.0	78.0	100.0
Chemical Usage per Regeneration - NaOH (32%) ⁽³⁾	L	38.0	54.0	64.0	78.0
Pump Motor Size	kW	7.5	7.5	11.0	15.0

⁽¹⁾ Standard regeneration for Rapide Strata+ takes 35 minutes for treated water with a conductivity of < 1µS/cm. For a treated water with a conductivity of < 0,1 µS/cm and SiO₂ <20 ppb, regeneration time is 80 minutes.

⁽²⁾ Wastewater volume depends on treated water quality.

⁽³⁾ Chemical consumption is calculated for treated water with a conductivity of < 2µS/cm.

System Dimensions

Model	Unit	23 UK	32 UK	45 UK	60 UK
Total Installed Length	m	3.50	3.50	4.50	4.50
Total Installed Width	m	2.00	2.00	2.00	2.00
Total Installed Height	m	2.89	2.95	3.10	3.20
Recommended Headroom	m	1.00	1.00	1.00	1.00
Operating Weight	kg	3000	3800	6050	7240

Model	Unit	23+ UK	32+ UK	45+ UK	60+ UK
Total Installed Length	m	3.50	3.50	4.50	4.50
Total Installed Width	m	2.00	2.00	2.00	2.00
Total Installed Height	m	2.89	2.95	3.20	3.20
Recommended Headroom	m	1.00	1.00	1.00	1.00
Operating Weight	kg	3220	4030	6250	7450





Pipes Connections

Model	Unit	23 UK	32 UK	45 UK	60 UK
Feed	DN	80	100	100	125
Outlet	DN	65	80	100	100
Drain ⁽⁴⁾	DN	80	80	100	100

Model	Unit	23+ UK	32+ UK	45+ UK	60+ UK
Feed	DN	80	100	100	125
Outlet	DN	65	80	100	100
Drain ⁽⁴⁾	DN	80	80	100	100

Feed water Requirements

Parameter	Unit	Value
Maximum supply pressure	barg	1.2
Minimum water temperature	°C	5.0
Maximum water temperature	°C	30 (35 on request)
Maximum Inlet TDS	mg/l	500
Max inlet Conductivity	µS/cm	700
Max inlet Free Chlorine Cl ₂	mg/l	0.2
Max inlet Iron Fe ³⁺	mg/l	0.3
Max inlet Manganese Mn ²⁺	mg/l	0.2

Environmental Conditions

Parameter	Unit	Value
Minimum ambient temperature	°C	5
Maximum ambient temperature	°C	40

Materials of Construction

Pressure Vessels	Glass Reinforced Plastic
Pipework	uPVC
Skid	Epoxy coated carbon steel
Control Valves	Air operated diaphragm and butterfly valves
Control Cabinet	Epoxy coated steel - IP54

Power Requirements

Parameter	Unit	Value
Voltage	V	380
Frequency	Hz	50
Phases	-	3

Typical Treated Water Specifications and Performances

Parameter	Unit	Value
Compressed Air Pressure	barg	5.5 - 6.0
Maximum Conductivity	µS/cm	< 5, < 1 RS+
Silica as SiO ₂	ppb	< 200, < 20 RS+