

Sydros Descaler-5000



TECHNICAL DATA SHEET

Industrial Water Descaler – Model Sydros Descaler-5000

Nominal Capacity: 5000 LPH (5.0 m³/h)

1. System Overview

Parameter	Specification
Model	Sydros Descaler-5000
Technology	SET Technology
Operating Principle	Calcite → Aragonite crystal transformation
Operation Type	Inline, passive
Power Requirement	None
Chemicals Required	None
Service Life	10 years

Applications	Boilers, cooling towers, heat exchangers, industrial process water
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2. Performance Data

Parameter	Value
Nominal Flow Rate	5000 LPH (5.0 m ³ /h)
Maximum Flow Rate	8.0 m ³ /h
Minimum Recommended Flow	2.0 m ³ /h
Working Pressure	1.5 – 16 bar
Operating Temperature	0 – 280 °C
Scale Inhibition Rate	≥ 87%
Industrial Efficiency (Optimized Conditions)	Up to 95%

3. Construction / Mechanical Data

Parameter	Specification
Chamber Material	Stainless Steel 304
Body Diameter	Approx. 150 – 180 mm
Length	Approx. 580 – 650 mm
Weight	Approx. 18 – 22 kg
Mounting	Horizontal / Vertical inline installation

4. Hydraulic Connections

Parameter	Specification
Inlet / Outlet	2" – DN65 Flange
Connection Type	ANSI / DIN Flanged Connection
Installation Position	Inline, full-bore
Pressure Drop	Minimal

5. Feed Water Requirements

Parameter	Required Value
Hardness	≤ 1500 mg/L
TDS	≤ 800 ppm
pH Range	3 – 10
Suspended Solids	Pre-filtration recommended
Free Chlorine	No restriction

6. Pre-Treatment Recommendation

Requirement	Specification
Sediment Filtration	≤ 100 µm recommended
Iron	< 0.3 mg/L recommended
Large Particles	Must be removed upstream



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