

Sydros Descaler-10000



TECHNICAL DATA SHEET

Industrial Water Descaler – Model Sydros Descaler-10000

Nominal Capacity: 10,000 LPH (10.0 m³/h)

1. System Overview

Parameter	Specification
Model	Sydros Descaler-10000
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

2. Performance Data

Parameter	Value
Nominal Flow Rate	10,000 LPH (10.0 m ³ /h)
Maximum Flow Rate	16.0 m ³ /h
Minimum Recommended Flow	4.0 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. 240 – 280 mm
Length	Approx. 800 – 900 mm
Weight	Approx. 40 – 48 kg
Mounting	Horizontal / Vertical inline installation

4. Hydraulic Connections

Parameter	Specification
Inlet / Outlet	DN100 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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