

SYDROS Descaler 250



TECHNICAL DATA SHEET

Industrial Water Descaler – Model Sydros -250

Nominal Capacity: 250 LPH (0.25 m³/h)

1. System Overview

Parameter	Specification
Model	SYDROS Descaler 250
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	250 LPH (0.25 m ³ /h)
Maximum Flow Rate	0.4 m ³ /h
Minimum Recommended Flow	0.1 m ³ /h
Working Pressure	1.5 – 16 bar
Operating Temperature	0 – 100 °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. 54 – 62 mm (scaled industrial variant)
Length	Approx. 255 – 320 mm
Weight	Approx. 2.5 – 3.0 kg
Mounting	Horizontal / Vertical inline installation

4. Hydraulic Connections

Parameter	Specification
Inlet / Outlet	1" Female Thread
Connection Type	BSP / NPT (configurable)
Installation Position	Inline, full-bore
Pressure Drop	Minimal (no active restriction)

5. Feed Water Requirements

Parameter	Required Value
Hardness	≤ 1500 mg/L
TDS	≤ 800 ppm
pH Range	3 – 10
Suspended Solids	Pre-filtered 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

7. Electrical Data

Parameter	Specification
Power Supply	Not required
Energy Consumption	0 kWh
Control Panel	Not applicable



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