

SYDROS Descaler 500



TECHNICAL DATA SHEET

Industrial Water Descaler – Model Sydros Descaler-500

Nominal Capacity: 500 LPH (0.5 m³/h)

1. System Overview

Parameter	Specification
Model	Sydros Descaler-500
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	500 LPH (0.5 m ³ /h)
Maximum Flow Rate	0.8 m ³ /h
Minimum Recommended Flow	0.2 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. 62 – 72 mm
Length	Approx. 320 – 380 mm
Weight	Approx. 3.5 – 4.5 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

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



Sydros Water GmbH
Kirrlacherstr.6
76646 Bruchsal

Engineering at
Triwo Technologie Park Bruchsal
Werner/von Siemens/
Web: www.sydros.de
Mail: industrial@sydros.de
Number: +491590 6132 674
HRB: 745634

