

**SYDROS Descaler 3000**



**TECHNICAL DATA SHEET**

**Industrial Water Descaler – Model Sydros Descaler-3000**

**Nominal Capacity: 3000 LPH (3.0 m<sup>3</sup>/h)**

**1. System Overview**

Parameter	Specification
<b>Model</b>	Sydros Descaler-3000
<b>Technology</b>	SET Technology
<b>Operating Principle</b>	Calcite → Aragonite crystal transformation
<b>Operation Type</b>	Inline, passive
<b>Power Requirement</b>	None
<b>Chemicals Required</b>	None
<b>Service Life</b>	10 years
<b>Applications</b>	Boilers, cooling towers, heat exchangers, industrial process water

## 2. Performance Data

Parameter	Value
Nominal Flow Rate	3000 LPH (3.0 m <sup>3</sup> /h)
Maximum Flow Rate	4.8 m <sup>3</sup> /h
Minimum Recommended Flow	1.2 m <sup>3</sup> /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. 110 – 130 mm
Length	Approx. 480 – 520 mm
Weight	Approx. 10 – 12 kg
Mounting	Horizontal / Vertical inline installation

## 4. Hydraulic Connections

Parameter	Specification
Inlet / Outlet	1½" – 2" Female Thread
Connection Type	BSP / NPT (configurable)
Installation Position	Inline, full-bore
Pressure Drop	Minimal

**5. Feed Water Requirements**

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

**6. Pre-Treatment Recommendation**

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



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