

TECHNICAL SPECIFICATION

Document ID: TS SB0923

Revision: EN16.25

SOBYE

by Nordic Water

Sobye belt filter TD

General information

The Sobye belt filter removes and thickens suspended solids. The filter consists of a free-standing tank in stainless steel provided with flanged connections for feed, filtrate discharge and reject water discharge. Inside the unit, a rotating belt cassette separates solids as the water flows through. The solids are brushed off the belt into an integrated screw conveyor and pressed to a very dry sludge. An emergency overflow is integrated within the stainless steel tank. All connections, cables, hoses etc. are hidden but easily maintained behind a cover on the side of the tank. There is a wide range of belt filter openings but in general an opening between 100-1000µm is used. Adjustable legs are provided for levelling the filter. A side mounted access service walkway is optional.



Illustration may differ from drawing.

Accessories	Documentation
Manual brush cleaner	Installation Operational & maintenance manual Dimensional drawing

Manufacturing	
Filter	EC Machinery Directive 2006/42/EC, EU standards EN ISO 12100 1&2, EN ISO 14121-1
Stainless steel	Main parts according to EN1.3438-3

Surface finish	
Stainless steel welds	Fully pickled

Transport and handling	
Filter	Transported on a wooden cradle by forklift
Accessories	Transported in a box

General dimensions and construction material	
Filter area	0.77 - 2.0m ²
Seal material	Silicone
Filter tank, Internals and other wetted parts	EN1.4404
Legs	EN1.4404
Service platform	EN1.4301
Seal	PEHD

General specifications	
Belt drive motor IP-67	0.37kW Interroll
Brush motor IP-56	0.12kW
Press motor	1.5kW
Flush water pressure	6 bar
Max allowed temperature	85°
Filter openings	120 - 800 µm

Drawing No.	903553
-------------	--------

Options
Access service walkway (side mounted).
Press- and screw motor, opposite side.

Model	Art.no	Belt type	Filter area	Max flush flow	Average flow at 6 bar	Weight dry	Weight operation	Volume LxWxH
Sobye TD 07	1002059	40/498 PES	0.77m ²	0.77m ³ /h	0.34m ³ /h	400 kg	800 kg	2600x775x1900 mm
Sobye TD 14	1002060	74/498 PES	1.40m ²	1.7m ³ /h	0.34 m ³ /h	1000 kg	2000 kg	2600x1125x1900 mm
Sobye TD 20	1002061	104/498 PES	2.0m ²	2,0m ³ /h	0.46 m ³ /h	1500 kg	3000 kg	2600x1425x1900 mm

Model	Filter opening & Art.no.			
	120 µm	300 µm	500 µm	800 µm
Sobye TD 07	P16001	P16002	P16003	P16004
Sobye TD 14	P16005	P16006	P16007	P16008
Sobye TD 20	P16009	P16010	P16011	P16012