

PRODUCT DATA SHEET

INTERNALLY FED DRUM SCREENS



water | wastewater | treatment | recycling

OVERVIEW

The REKO internally fed drum screens are free-standing units used for the separation of settling solids from waste water and process water by means of an internally-fed rotating drum screen. It requires low investment and very little maintenance

Working principle

The essential part of the REKO internally-fed drum screen type TM is the rotating wedge wire or perforated drum as this is used as the screening surface. The polluted liquid flows into the drum via the inlet chute and passes the drum from the inside to the outside. Separated solids are retained at the inside of the drum where they accumulate and dewater. The solids are then transported towards the discharge end of the drum by an internal spiral.

For automatic cleaning of the drum, a cleaning system with flat jet nozzles is mounted at the outside.

As the drum rotates a spray arm with flat jet nozzles cleans the entire surface. The rotating drum and the cleaning system are guarded by a hinged cover with gas-springs.

The drum itself is driven by a directly coupled motor and the drive end of the drum is supported by a self-aligning flange bearing. The discharge end of the drum is supported by two support wheels and all bearings can be lubricated simply via grease nipples at the outside of the machine. Optionally an automatic lubricating system is available.

Advantages of the REKO drum screens type TM compared to other types of internally-fed drum screens:

- A directly coupled motor drive is installed so the drum cannot slip.
- Driving components, such as gear wheels, chains, belts, etc. are missing which means this driving principle is very reliable and requires very little maintenance.
- All bearings can be lubricated simply through grease nipples at the outside of the machine.
- Maintenance and replacement of the wheels and bearings is very simple from the outside of the machine
- All parts in contact with the raw water are completely manufactured of stainless steel.

STANDARD SPECIFICATIONS

Parameter	Units	TM 40/080	TM 60/120	TM 60/190	TM 80/180	TM 100/200	TM 120/240	TM 150/240
Liquid Capacity	m3/hr	15 - 45	35 - 100	55 - 155	80 - 220	90 - 250	130 - 360	160 - 450
Drum								
Slot Opening	um	150 - 1000*	150 - 1000*	150 - 1000*	150 - 1000*	150 - 1000*	150 - 1000*	150 - 1000*
Diameter/ Length	mm	400/ 800	600/ 1200	600/ 1900	800/ 1800	1000/ 2000	1200/ 2400	1500/ 2400
Internal Spiral Pitch	mm	250	250	250	250	250	250	250
Inclination	°C	1 - 2	1 - 2	1 - 2	1 - 2	2	2	2
Connections								
Inlet (water + solids)		DN80	DN 100	DN 200	DN150	DN250	TBA	DN250
Outlet (filtrate)		DN100	DN 200	DN 250	DN200	DN350	TBA	DN350
Solids Discharge	mm	160 * 684	160 * 870	200 * 870	250 * 1078	250 * 600	TBA	
Spray Water	inch	1	1	1	1	1	1	1
Cleaning System								
Spray Nozzles		4	8	12	12	16	TBA	13
Spray Angle	°C	60	60	60	60	60	60	60
Water Pressure		> 5 bar	> 5 bar	> 5 bar	> 5 bar	> 5 bar	> 5 bar	> 5 bar
Drive Unit								
Make/ Type		SEW	SEW	SEW	SEW	SEW	SEW	SEW

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STANDARD SPECIFICATIONS CONTINUED

Power/ Voltage	Kw/ V	0.25/ 499	0.37/ 400	0.37/ 400	0.55/ 400	1.1/ 400	TBA	2.2/400
Speed	rpm	9.3	7.5	7.5	6.4	7.5	TBA	9.7
Protection & Isolation Class		IP55 - F	IP55 - F	IP55 - F	IP55 - F	IP55 - F	IP55 - F	IP55 - F
Bearing (Drive Shaft)								
Make/ Type		ANB/ MUCF 210	ANB/ MUCF 210	ANB/ MUCF 210	ANB/ MUCF 210	ANB/ MUCF 210	ANB/ MUCF 210	ANB/ MUCF 210
Description		Self-Aligning	Self-Aligning	Self-Aligning	Self-Aligning	Self-Aligning	Self-Aligning	Self-Aligning
Bearings		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Materials								
Drum/ Housing/ Cover		AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
Cleaning System		AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
Wheels		AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
Bearings		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Flanges		Coated Aluminium	Coated Aluminium	Coated Aluminium	Coated Aluminium	AISI 304	AISI 304	AISI 304
Weight								
Net Weight (Approx.)	kg	250	300	300	350	900	TBA	1100
Operational Weight (Approx.)	kg	400	450	500	600	1700	TBA	1700

STANDARD INCLUSIONS + OPTIONS

✓ = Standard Supply o = Optional Supply - = Not Applicable

Equipment	TM 40/080	TM 60/120	TM 60/190	TM 80/180	TM 100/200	TM 120/240	TM 150/240
Skid Mounted Plant & Equipment	✓	✓	✓	✓	✓	✓	✓
Epoxy Coated Carbon Steel control panel	✓	✓	✓	✓	✓	✓	✓
Stainless Steel control Panel	o	o	o	o	o	o	o
Materials Upgrade to SS316	o	o	o	o	o	o	o
Additional Screw Conveyor	o	o	o	o	o	o	o
PLC Control System with HMI	o	o	o	o	o	o	o

MODEL SELECTION

- TM 40/080** 15 – 45 m3/day flow rate
- TM 60/120** 35 – 100 m3/day flow rate
- TM 60/190** 55 – 155 m3/day flow rate
- TM 80/180** 80 – 220 m3/day flow rate
- TM 100/200** 90 – 250 m3/day flow rate
- TM 120/240** 130 – 360 m3/day flow rate
- TM 150/240** 160 – 450 m3/day flow rate
- TM xxx/xxx** Custom flow rate

- W** Wedge wire
- P** Perforated
 - 0.25** Slot opening (mm)
 - 0.50** Slot opening (mm)
 - 0.75** Slot opening (mm)
 - 1.00** Slot opening (mm)
- C** Custom slot opening (mm)
 - 4** Material AISI 304
 - 6** Material AISI 316
- E** Epoxy coated panel
- S** Stainless steel panel

NEED A QUOTE?

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