

PRODUCT DATA SHEET

Internally Fed Drum Screens (IFDS)

water | wastewater | sewage



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™ is the rotating wedge wire or perforated drum as the inside of the drum is 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 drive 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.

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	m ³ /hr	15 - 45	35 - 100	55 - 155	80 - 220	90 - 250	130 - 360	160 - 450
Drum								
Slot Opening	µm	150 - 1,000*	150 - 1,000*	150 - 1,000*	150 - 1,000*	150 - 1,000*	150 - 1,000*	150 - 1,000*
Diameter/ Length	mm	400/ 800	600/ 1,200	600/ 1,900	800/ 1,800	1,000/ 2,000	1,200/ 2,400	1,500/ 2,400
Internal Spiral Pitch	mm	250	250	250	250	250	250	250
Inclination		1° - 2°	1° - 2°	1° - 2°	1° - 2°	2°	2°	2°
Connections								
Inlet (water + solids)		DN80	DN 100	DN 200	DN150	DN250	TBD	DN250
Outlet (filtrate)		DN100	DN 200	DN 250	DN200	DN350	TBD	DN350
Solids Discharge	mm	160 * 684	160 * 870	200 * 870	250 * 1,078	250 * 600	TBD	250 * 1,400
Spray Water	inch	1	1	1	1	1	1	1
Cleaning System								
Spray Nozzles		4	8	12	12	16	TBD	13
Spray Angle		60°	60°	60°	60°	65°	60°	60°
Water Pressure		> 5 bar	> 5 bar	> 5 bar	> 5 bar	> 5 bar	> 5 bar	> 5 bar
Drive Unit								
Power/ Voltage	Kw/ V	0.25/ 499	0.37/ 400	0.37/ 400	0.55/ 400	1.1/ 400	TBD	2.2/ 400
Speed	rpm	9.3	7.5	7.5	6.4	7.5	TBD	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

STANDARD SPECIFICATIONS CONTINUED

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	TBD	1,100
Operational Weight (Approx.)	kg	400	450	500	600	1,700	TBD	1,700

STANDARD INCLUSIONS + OPTIONS

✓ = Standard Supply ○ = Optional Supply

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	✓	✓	✓	✓	✓	✓	✓
SS316 control Panel	○	○	○	○	○	○	○
Materials Upgrade to SS316	○	○	○	○	○	○	○
Additional Screw Conveyor	○	○	○	○	○	○	○

MODEL SELECTION

- REKO IFDS TM40/080** Liquid Capacity 15 - 45 m³/hr
 - REKO IFDS TM60/120** Liquid Capacity 35 - 100 m³/hr
 - REKO IFDS TM60/190** Liquid Capacity 55 - 155 m³/hr
 - REKO IFDS TM80/180** Liquid Capacity 80 - 220 m³/hr
 - REKO IFDS TM100/200** Liquid Capacity 90 - 250 m³/hr
 - REKO IFDS TM120/240** Liquid Capacity 130 - 360 m³/hr
 - REKO IFDS TM150/240** Liquid Capacity 160 - 450 m³/hr
- Transfer model size below



OPTIONS

- REKO IFDS _____ 316CP** Stainless Steel Control Panel
- REKO IFDS _____ 316** Materials Upgrade to SS316
- REKO IFDS _____ SC** Additional Screw Conveyor

NEED A QUOTE?

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