

PRODUCT DATA SHEET

Screw Separators

water | wastewater | sewage



OVERVIEW

The REKO Screw Separators are free-standing units used for the separation of settling solids from waste water and process water by means of sedimentation. It requires low investment and very little maintenance.

Working principle

Liquid is fed to the reservoir, where fast settling solids e.g. sand, will fall to the bottom of the hopper leaving the clarified liquid to leave the reservoir via an overflow. The settled solid will then be transported from the reservoir via an inclined screw conveyor to the discharge port and by doing so means that a relatively dry product will be discharged at the end of the conveyor.

STANDARD INCLUSIONS & OPTIONS

✓ = Standard Supply, o = Optional Supply

Equipment	190ZS	240ZS	290ZS	350ZS
Skid Mounted Plant & Equipment (SS304)	✓	✓	✓	✓
Epoxy Coated Carbon Steel Control Panel	✓	✓	✓	✓
Stainless Steel Control Panel	o	o	o	o
Materials Upgrade to SS316	o	o	o	o
Additional Screw Conveyor	o	o	o	o



STANDARD SPECIFICATIONS

Parameter	Units	190ZS	240ZS	290ZS	350ZS
Liquid Capacity	m ³ /hr	35	52	105	155
Solids Capacity	m ³ /hr	0.5	0.7	1.5	2.2
Separation Size Fast settling solids (sands)	mm	>0.2	>0.2	>0.2	>0.2
Screw Spiral					
Diameter	mm	190	240	290	350
Pitch	mm	150	240	210	290
Height	mm	50	80	70	80
Thickness	mm	20	25	30	30
Drive					

STANDARD SPECIFICATIONS CONTINUED

Parameter	Units	190ZS	240ZS	290ZS	350ZS
Type		Nord SK3382AZ	Nord SK3382AF	Nord SK3382AZH-80L/4	Nord SK3382AZH-90S/4
Power	Kw	0.37	0.37	0.75	1.1
Voltage	V	230/ 400V (50HZ)	230/ 400V (50HZ)	230/ 400V (50HZ)	230/ 400V (50HZ)
Protection Class		IP55	IP55	IP55	IP55
Isolation Class		F	F	F	F
Rotation Speed	rpm	7.3	7.3	7.2	6.5
Connections					
Inlet (liquid and solids)		ND100-NP10-DIN2642	ND150-NP10-DIN2642	ND200-NP10-DIN2642	ND250-NP10-DIN2642
Overflow (liquid)		ND150-NP10-DIN2642	ND200-NP10-DIN2642	ND200-NP10-DIN2642	N300-NP10-DIN2642
Drain		2 " BSP	2 " BSP	2 " BSP	2 " BSP
Dimensions					
Length (approx.)	mm	3,810	4,830	6,200	7,420
Width (approx.)	mm	1,340	1,640	2,100	2,300
Height (approx.)	mm	1,960	2,370	2,900	3,345
Discharge Height (approx.)	mm	1,500	1,830	2,300	2,655
Materials					
Trough		AISI 304	AISI 304	AISI 304	AISI 304
Reservoir		AISI 304	AISI 304	AISI 304	AISI 304
Covers		AISI 304	AISI 304	AISI 304	AISI 304
Screw		REKO High Tensile strength steel	REKO High Tensile strength steel	Fe 520	Fe 520
Drive Shaft		Fe 520	Fe 520	Fe 520	Fe 520
Liner		HMPE1,000, t = 10mm	HMPE1,000, t = 10mm	HMPE1,000, t = 10mm	HMPE1,000, t = 10mm
Frame		AISI 304	AISI 304	AISI 304	AISI 304

MODEL SELECTION

- REKO SS 190ZS** Liquid Capacity 35 m³/hr
 - REKO SS 240ZS** Liquid Capacity 52 m³/hr
 - REKO SS 290ZS** Liquid Capacity 105 m³/hr
 - REKO SS 350ZS** Liquid Capacity 155 m³/hr
- Transfer model size below

OPTIONS

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

NEED A QUOTE?

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sales@makwater.com.au

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