



LACKEBY ROTO-SIEVE® DRUM SCREEN

High performance
and high reliability
screening technology



LACKEBY ROTO-SIEVE® DRUM SCREEN



When high performance, low costs and simplicity are the priorities

Lackeby Roto-Sieve® drum screen is an internally fed, self cleaning, inclined drum screen. The drum screen can be used in many wastewater treatment applications where high-efficient particle separation is needed. The self-cleaning design performs excellently in many different applications and ensures low maintenance costs. With over 5,000 units installed worldwide, the Lackeby Roto-Sieve® drum screen are well known to be unsurpassed in quality, function and reliability.

Water and wastewater applications

- Primary screening
- Fine screening prior to membranes
- Septic screening
- Sludge screening
- Sludge thickening
- Reject water screening

Industrial applications

- Poultry, meat, and fish processing
- Fruit and vegetable processing
- Pulp and paper
- Beverage (beer, wine, juice, etc.)
- Dairy
- Fiberglass
- Recycling (plastic and metal)
- Biogas sludge screening



**Water and
wastewater**



**Pulp and
paper**



**Poultry, meat
and fish**



**Fruit and
vegetables**

High performance

- High degree of separation due to perforated drum and pressureless separation.
- No need for upstream screening before the drum screen.
- No sealed openings or internal moving parts that can result in material passing through. The entire flow must pass through a perforated hole to reach the downstream process.
- High capacity and high capture rate with a small footprint.

Low costs

- The lifetime of screen is normally more than 20 years.
- Low degree of maintenance due to self-cleaning design.
- Few moving wear parts which are accessible without cranes or any other lifting devices.
- Low energy consumption.
- Low spray-water consumption assures substantial savings in water costs compared to competing products.

Design simplicities

- The lowest number of moving parts of any drum screen on the market today.
- The advanced carbon fiber polychain drive system eliminates the need for trunnion wheels. This significantly lowers required maintenance and improves reliability.
- No chains of any kind results in less maintenance issues. No need for automatic oilers.
- Easy access for full visual inspection thanks to lightweight fiberglass covers.



Made in Sweden since 1965.

Lackeby Products AB has more than 50 years of experience in designing and manufacturing the Lackeby Roto-Sieve® drum screen. We will continue our efforts to provide the global market the best high-performance drum screen program.

More than 5,000 Lackeby Roto-Sieve® drum screens have been supplied to both industrial and municipal plants worldwide.

Models



RS 11



RS 22



RS 24



RS 36



RS 48



RS 412



RS 416

Technical data

		RS 11	RS 22	RS 24	RS 36	RS 48	RS 412	RS 416
Max capacity ¹⁾	l/s	9	32	95	135	207	290	435
Perforation	mm	0,6-10,0	0,6-10,0	0,8-10,0	0,8-10,0	0,8-10,0	1,0-10,0	1,0-10,0
Sound intensity at 1m	dBA	<70	<70	<70	<70	<70	<70	<70
Length	mm	1210	1820	2815	2900	2950	3930	4950
Width	mm	600	960	960	1250	1600	1600	1600
Height	mm	1020	1445	1550	1950	2330	2395	2500
Net weight	kg	115	230	320	570	880	1205	1350
Working load ²⁾	kg	135	260	350	615	1090	1440	1610
Gross weight	kg	165	350	500	710	1020	1300	1470
Length (crate)	mm	1550	2100	3100	3150	3180	4120	5140
Width (crate)	mm	850	1200	1200	1500	1850	1650	1650
Height (crate)	mm	1380	1700	1800	2200	2600	2535	2640
Transport volume incl. crate	m ³	1,8	4,3	6,7	10,4	15,3	17,2	22,4
Drive motor, rated power	kW	0,25	0,37	0,37	0,55	1,1	1,1	1,1
Drive motor, rated current	A	1,32 / 0,76	1,89 / 1,09	1,89 / 1,09	2,44 / 1,41	4,19 / 2,42	4,19 / 2,42	4,19 / 2,42
Inlet pipe	Ø mm	124	250	250	300	404	506	606
Outlet pipe	Ø mm	150	250	400	500	500	604	704
Overflow outlet pipe	Ø mm	-	200	200	250	404	404	404
Spray header conn.	ISO	G ¾"	R1"	R1"	R1"	R1"	R1"	R1"
Recommended spray water pressure	bar	4-6	4-6	4-6	4-6	4-6	4-6	4-6
Spray water consumption at 4 bar	l/min	11	22	49	36	32	51	70

¹⁾ Maximum capacity of the inlet pipe as well as maximum capacity for a municipal waste water with 2 mm perforation, SS-load of 200 mg/l and FOG load of 30 mg/l

²⁾ Static weight with the drum filled with water to the overflow level.

Lackeby Products AB has more than 50 years of experience in designing and manufacturing high performance products for resource-efficient heat recovery and wastewater recycling. In our production facilities in Sweden we have made thousands of products for the toughest environments world wide. We are well known for our ability to customize products to each customer's unique requirements. All of our products are characterized by reliability, long life cycles and easy maintenance making Lackeby Products a trusted partner and supplier of products for plant upgrades or new plant constructions. We guarantee high quality, excellent performance and complete satisfaction.