

ROTARY DRUM SIEVE & BUFFER TANK PLATFORM

IDEAL USAGE

Projects that require straining and continuous removal of coarse particles from flows up to 150 m³/h

APPLICATIONS

- Removal of coarse pollution like wipes, grit, plastics, metals, wood prior to secondary (biological) treatment
- Straining of large solids of waste streams transferred by vacuum truck related to cleaning of tanks, sewers, basins etc.
- Washing of materials such as wood chips or plastic (biomass) carriers



WEIGHT AND MEASURES

	RDS150-SS	BTP-SS
Max capacity:	150 m³/h with perforation Ø 3 mm	4.5 m³
Height:	1,520 mm	1,380 mm
Width:	1,440 mm	2,080 mm
Length:	3,160 mm	2,730 mm
Net weight (approx):	750 kg	1,000 kg without RDS 1,750 kg with RDS
Operational weight (approx):	1,250 kg	5,400 kg without RDS 6,650 kg with RDS
Max temperature:	40 °C	40 °C

GENERAL FEATURES

Rotating speed:	10 RPM	
Electrical connection:	32 A / 5P / 380 V	
Drum perforation:	3 mm	
Timers:	Adjustable for auto-cleaning	
Spray-arm:	inside and outside with flat jet nozzles	
Cleaning spray bar:	Recommended pressure range:	4 - 10 bar
	Max temperature:	70 °C (after approval)

FEATURES ROTARY DRUM SIEVE

Inclination (drum sieve):	1°	
Inlet connection:	6" ANSI 150# flange (B16.5 - SO)	
Filtrate outlet:	Pipe Ø 273 mm	
Vent connection:	4" ANSI 150# flange (B16.5 - SO) with blind flange and chain	
Solids outlet:	V-shaped hinged discharge chute	
Spray bar connection (cleaning):	1" BSP male Combined connection for in- and outside spray bar	
Top cover:	Top cover with gas springs and safety switch (IFM type GG711S).	

SPRAY BAR DETAILS

Water pressure:	2 - 10 bar (design pressure : ≤ 50 bar)	
Water consumption inside spray bar:	77 l/min at 2 bar / 94 l/min at 3 bar / 109 l/min at 4 bar / 122 l/min at 5 bar / 143 l/min at 7 bar / 171 l/min at 10 bar	
Water consumption outside spray bar:	58 l/min at 2 bar / 71 l/min at 3 bar / 82 l/min at 4 bar / 91 l/min at 5 bar / 108 l/min at 7 bar / 128 l/min at 10 bar	
Water quality:	Clean water, pressure dependant on application	

MATERIALS

Housing / cover / flanges:	316 stainless steel	
Drum / drive shaft:	316 stainless steel	
Cleaning systems:	316 stainless steel	
Wheels:	Plastic wheels with stainless steel bearings and brackets	
Shaft bearing:	Hardened steel bearing in cast iron housing	
Used seals:	Neoprene / EPDM / NBR	

FEATURES BUFFER TANK PLATFORM

Outlet (pump) connection:	6" ANSI 150# flange (B16.5 - SO)	
Emergency overflow:	6" ANSI 150# flange (B16.5 - SO)	
Drain:	2" ball valve with blind plug and chain	
Guide bar:	For easy float switch installation	
Fences:	Foldable fences, UR design safety railing	
Total drain:	Sloped bottom	

MATERIALS

Pump compartment:	316 stainless steel	
Flanges / blind flanges:	316 stainless steel	
Ball valve:	316 stainless steel	
Stairs / gate / fences:	316 stainless steel	
Grated floor:	Glass fibre reinforced plastic / RAL 7035 - grey	

TRANSPORT

Lifting options:	Forklift pockets (x2), tube 200 x 100 x 5 mm Lifting lugs (x4)	
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QUALITY AND SAFETY

Emergency switch and emergency stop
Earthing lugs Ø 10 mm (x2)
Safety fence and railing system
GRP grating to avoid slip & trip
QMS inspections on a scheduled basis
Cover protection against opening during operation

DIRECTIVES AND STANDARDS

- **2006/42/EC** Machinery Directive
- **2014/35/EU** Low Voltage Directive
- **2014/30/EU** Electromagnetic Compatibility Directive
- **NEN-EN-ISO 12100**
 - Safety of machinery
 - General principles for design
 - Risk assessment and risk reduction
- **NEN-EN-IEC 60204-1**
 - Safety of machinery
 - Electrical equipment of machines
 - Part 1 : General requirements
- **NEN-EN-IEC 61000-6-2**
 - Electromagnetic compatibility (EMC)
 - Part 6- 2 : Generic standards
 - Immunity standard for industrial environments

