

Waste Water Treatment

SPIRAMATIC Fine Drum Screens VSA and VSA MBR



Description ▼

SPIRAMATIC VSA Fine Drum Screens consist of a rotating drum screen, a conveyor screw, and a compaction zone. Depending on the application, the fine screen drum can be made up of a set of steel bars – in which case the distance between the bars determines the desired slot width – or of a perforated sheet filter. The cylindrically shaped drum can be placed inside a channel or in a fabricated tank.

SPIRAMATIC VSA Fine Drum Screens wash, convey and dewater waste water screenings all in one unit. They are designed to wash out organic matter from screenings. Both screen basket and dewatering zone are self-cleaning. Rotating around its axis, the cylindrical filter conveys the screenings to a loading hopper placed in the centre. A set of spray nozzles washes the filter during operation. A screw, placed inside the conveying pipe, with its top in the discharge hopper, conveys the screenings towards the following treatment stages during which organic substances are washed out. Subsequently, solids are compacted and dewatered in the compacting and drainage area. Finally, solids are discharged through a discharge chute into a container or compactor.

Application ▼



Benefits ▼

- ✓ Triple face seal for maximum capture efficiency of fine solids;
- ✓ Spray bar installed on the outside of the screen basket, thus enabling optimum capture of small solids;
- ✓ Cleaning brush fitted on the screen maintains screen surface clean;
- ✓ Durable brush attached to the flighting on the auger trough sweeping even smallest solids into auger trough for removal;
- ✓ Large, robust, self-lubricating bronze bushing (no lubrication pump or maintenance required);
- ✓ Low energy consumption and limited maintenance.



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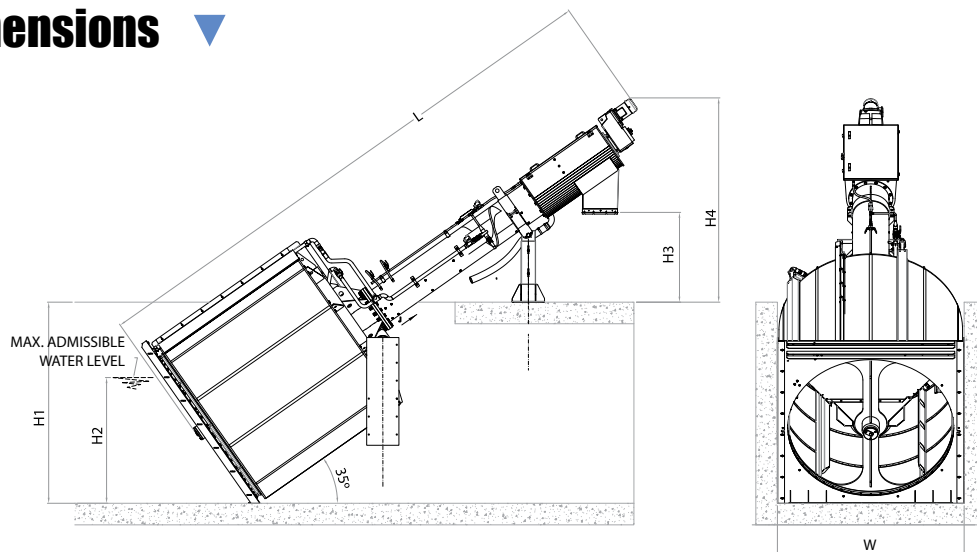
Technical Features / Performance

- ▶ Filter mesh sizes for MBR pre-treatment:
 - ▶ 1.0 – 1.5 – 2.0 – 3.0 mm round holes
 - ▶ Filter mesh sizes (other than MBR use):
 - ▶ 5.0 – 6.0 mm round holes
 - ▶ 0.5 – 1.0 – 2.0 – 3.0 – 4.0 – 5.0 – 6.0 mm wedge wire
 - ▶ Channel width: 600 ~ 3,000mm
 - ▶ 35-degree incline angle
- ▶ Frame manufactured from 304 L / 316 L SS
 - ▶ Spiral manufactured from special ST 52 steel, or 304 L / 316 L SS
 - ▶ Removable, sliding aluminium covers (option)
 - ▶ Fixed stainless steel covers (option)
 - ▶ Bagger (option)
 - ▶ Heating device (option)
 - ▶ Control panel (option)

VSA MBR					
PEAK FLOW RATE [m ³ /h]					
MODEL	MAX. ADMISSIBLE UPSTREAM WATER LEVEL - mm	CIRCULAR HOLES			
		1 mm	1.5 mm	2 mm	3 mm
VSA 600	450	145	170	205	260
VSA 800	520	150	230	280	350
VSA 1000	675	250	385	460	580
VSA 1200	800	355	550	660	830
VSA 1400	930	485	750	900	1,140
VSA 1600	1,110	675	1,040	1,260	1,580
VSA 1800	1,235	845	1,310	1,580	1,980
VSA 2000	1,300	960	1,480	1,800	2,260
VSA 2200	1,500	1,270	1,950	2,360	2,080
VSA 2400	1,680	1,580	2,430	2,940	3,700
VSA 2600	1,750	1,730	2,660	3,230	4,060
VSA 3000	2,050	2,384	3,490	4,615	5,292

VSA NON MBR											
PEAK FLOW RATE [m ³ /h]											
MODEL	MAX. ADMISSIBLE UPSTREAM WATER LEVEL - mm	CIRCULAR HOLES						WEDGE WIRE			
		5 mm	6 mm	0.5 mm	1 mm	2 mm	3 mm	4 mm	5 mm.	6 mm.	
VSA 600	450	244	257	75	125	190	230	260	280	295	
VSA 800	520	422	444	130	220	330	405	455	485	510	
VSA 1000	675	713	748	220	370	560	685	765	820	860	
VSA 1200	800	983	1,035	300	510	780	935	1,050	1,130	1,190	
VSA 1400	930	1,405	1,479	430	725	1,100	1,320	1,500	1,615	1,700	
VSA 1600	1110	1,936	2,045	620	1,050	1,515	1,850	2,065	2,225	2,350	
VSA 1800	1235	2,305	2,434	865	1,460	2,015	2,460	2,750	2,955	3,120	
VSA 2000	1300	2,847	2,995	1,065	1,805	2,490	3,035	3,390	3,650	3,840	
VSA 2200	1500	3,440	3,627	1,290	2,180	3,000	3,670	4,100	4,410	4,650	
VSA 2400	1680	4,095	4,349	1,540	2,600	3,580	4,370	4,880	5,250	5,575	
VSA 2600	1750	4,813	5,093	1,805	3,055	4,210	4,580	5,735	6,170	6,530	
VSA 3000	2050	6,369	6,747	2,390	4,040	5,560	6,785	7,590	8,165	8,650	

Overall Dimensions



VSA MBR - FINE DRUM SCREEN							
MODEL	CHANNEL WIDTH W - mm	CHANNEL HEIGHT H1 - mm	DISCHARGE HEIGHT ABOVE CHANNEL EDGE H3 - mm	TOTAL HEIGHT ABOVE CHANNEL EDGE H4 - mm	TOTAL LENGTH L - mm	MAX. ADMISSIBLE INLET WATER LEVEL H2 - mm	DRIVE POWER - kW
VSA 600	650	800	1,250	2,180	4,850	450	0.75
VSA 800	800	1,000	1,250	2,170	5,180	520	1.10
VSA 1000	1,000	1,200	1,250	2,170	5,400	675	1.10
VSA 1200	1,200	1,400	1,250	2,275	5,830	800	1.10
VSA 1400	1,400	1,600	1,250	2,275	6,030	930	1.50
VSA 1600	1,600	1,800	1,250	2,275	6,200	1,110	1.50
VSA 1800	1,800	2,000	1,250	2,520	6,970	1,235	2.20
VSA 2000	2,000	2,200	1,250	2,520	7,170	1,300	2.20
VSA 2200	2,200	2,400	1,250	2,530	7,350	1,500	2.20
VSA 2400	2,400	2,600	1,250	2,535	7,410	1,680	2.20
VSA 2600	2,600	2,800	1,250	2,845	7,630	1,750	3.00
VSA 3000	3,000	3,200	1,250	3,155	7,850	2,050	3.00

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