

Waste Water Treatment

Fine Belt Screens VFR



Description ▼

VFR Fine Belt Screens are used for fine screening of waste water. They are designed for in-channel installation. They consist of a set of filtering steps manufactured from perforated plate media which are moved by two chains equipped with chain stretcher, as well as anti-friction and anti-noise sliding blocks.

Solids screened from waste water are conveyed by the filtering belt to the outlet on top of the screen. The arrangement of the filter elements forms a "step belt" which ensures that screenings are picked up and easily removed. The screen is equipped with a chute in front of the filtering belt to avoid clogging.

A double cleaning system composed of a motorised roller brush equipped with synthetic bristles and of a washing bar cleans the filter elements. The chains are moved by sprockets fitted on a drive shaft that is connected to the gear reducer. The latter has to be equipped with a torque limit switch.

Application ▼



Benefits ▼

- ✓ Reduced service requirements (no need to take the screen out of the channel);
- ✓ Special design of filtering elements for easy maintenance and replacement;
- ✓ High capture efficiency of solids.



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Technical Features / Performance

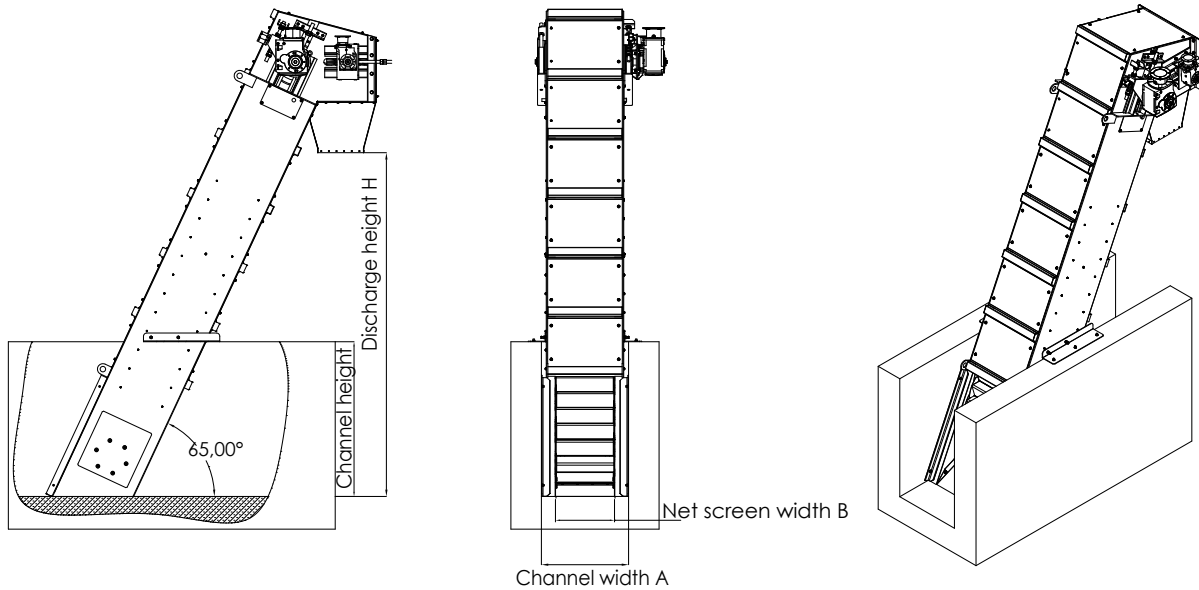
- ▶ 6 up to 2,000 mm wide sizes available
- ▶ 65 degree incline angle
- ▶ Perforated media openings from 2 to 6 mm
- ▶ Chain drive recessed into the side rails
- ▶ Double cleaning system
- ▶ Material: hot dip galvanised steel, 304 L / 316 L SS
- ▶ Control panel (optional)

VFR - FINE BELT SCREEN - FLOW RATES

MODEL FLOW RATE m ³ /h	3 mm	5 mm	7 mm
VFR 750	300 ~ 780	300 ~ 800	300 ~ 980
VFR 1000	370 ~ 1180	470 ~ 1200	570 ~ 1,500
VFR 1250	480 ~ 1630	500 ~ 1630	600 ~ 1,960
VFR 1500	600 ~ 1960	630 ~ 2,050	900 ~ 2,450
VFR 1750	750 ~ 2,360	940 ~ 2,460	940 ~ 2,950
VFR 2250	1,200 ~ 3,140	1,260 ~ 3,280	1,500 ~ 3,930

- Fixed parameters: upstream water level in the range: 0,4 ~ 1,3 m
- Screen slope: 75°
- Values related to municipal waste water, screen partially occluded (30%)

Overall Dimensions



VFR - FINE BELT SCREEN - OVERALL DIMENSIONS

MODEL	CHANNEL WIDTH A - mm	NET SCREEN WIDTH B - mm	DISCHARGE HEIGHT FROM CHANNEL BOTTOM H - mm	OPENING SIZES mm	CHAIN POWER kW	BRUSH POWER kW
VFR 750	750	500	customer's requirement	3 - 5 - 7	0.75	0.55
VFR 1000	1,000	750	customer's requirement	3 - 5 - 7	1.1	0.55
VFR 1250	1,250	1,000	customer's requirement	3 - 5 - 7	1.1	0.55
VFR 1500	1,500	1,250	customer's requirement	3 - 5 - 7	1.5	0.55
VFR 1750	1,750	1,500	customer's requirement	3 - 5 - 7	1.5	0.55
VFR 2250	2,250	2,000	customer's requirement	3 - 5 - 7	1.5	0.55



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