

Mechanical front-raked coarse screen - SCH-V

Mechanical front-raked coarse screen - SCH-V is classified as a device for mechanical wastewater pre-treatment. It is intended for installation at the entry point of a wastewater treatment plant as a follow-up device after a grit trap. It is designed to collect and separate floating solids (screenings) from water. The mechanical front-raked coarse screen - SCH-V consists of a robust frame structure with its rear wall fitted with a steel bar screen. Solids collected on the bar screen are scooped from the bottom and lifted towards the outfeed hopper edge.

The screen is raked using toothed rake bars attached to moving carriages, mounted on specialized driving chains. The chains (Fontana type) are driven by an electric gearbox. For overload protection of the bar screen, an emergency switch is used. A portion of the screenings scooped by the rakes falls off without agitation, while the rest is removed by a scraping mechanism. Height of the screenings discharge port is chosen based on the connected follow-up device for their further processing or disposal (container, screenings screw conveyor, screenings press).

Technical data	
Channel width B:	800 ÷ 3200 mm
Channel depth H:	800 ÷ 9000 mm
Discharge port height V_0 :	based on container/press/conveyor
Screen gap width e:	30 - 100 mm (other on request)
Screen inclination α :	60°; 70°; 75°; 80°
Drive input power:	0,55 ÷ 1,5 kW/400 V/50 Hz
Heating power input:	0,5 ÷ 5,0 kW/230 V / 50 Hz
For alternate parameter value ranges, please consult the manufacturer	



Product designation: **SČH-V B × H/V₀ × e/α**



ISO 9001

WASTEWATER TREATMENT PLANT EQUIPMENT

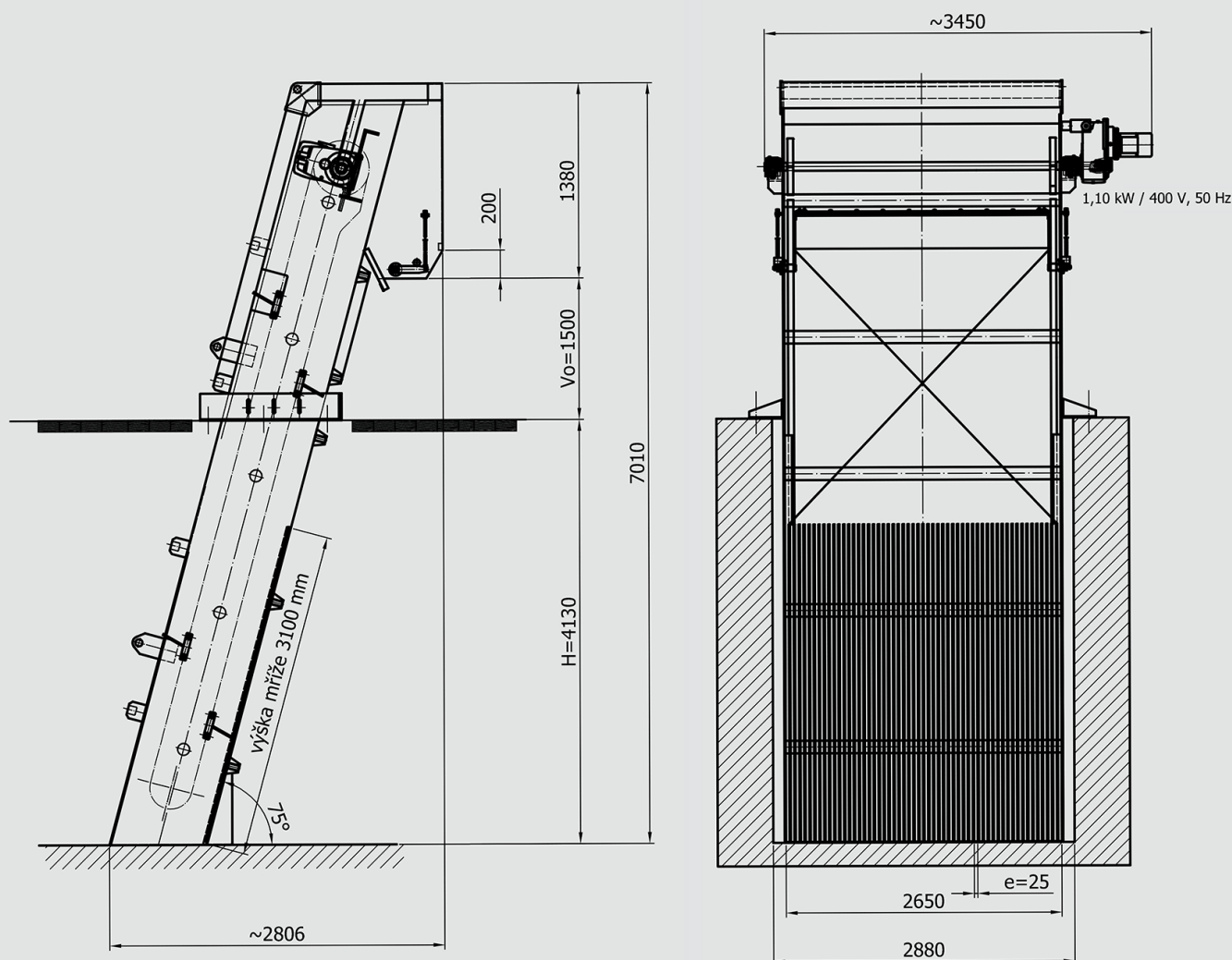
Fontana[®]
www.fontanar.cz

The mechanical front-raked coarse screen - SCH-V is made of stainless steel and plastics. An economy version is also available, with a frame made of galvanized steel. Both versions of the equipment are provided with an additional layer of protective coating.

Under automated operation, the bar screen is activated in configurable time intervals. Alternatively, the control switchboard can be set to activate the bar screen in reaction to changing water level, with adjustable delayed shut-off.

For outdoor applications, the bar screen is additionally equipped with heating elements. Activation and deactivation of the heating elements is controlled by a thermostat, via the control switchboard. This product is not intended for separation of gravel, concrete debris, or any other heavy non-floating materials.

Top-raked coarse mechanical bar screens - example:
SCH-V 2700 (2880)×4130/1500×25/75°



The manufacturer Fontana R, s.r.o. offers its customers free consultations and technical assistance to help ensure optimal integration of equipment into the technological part of given WWTP.