PROCÉDÉS
WASTEWATER SCREENS



AUTOMATIC BAR SCREEN Type NG

WITH UPSTREAM WASTE DISCHARGE WIDTH 450 mm to 2,000 mm

Single and central strap	New or existing structures	in channel or in pumping station
Robust and reliable design	Custom Built	Low operating cost
Easy maintenance	Wear parts above water level	CE compliant

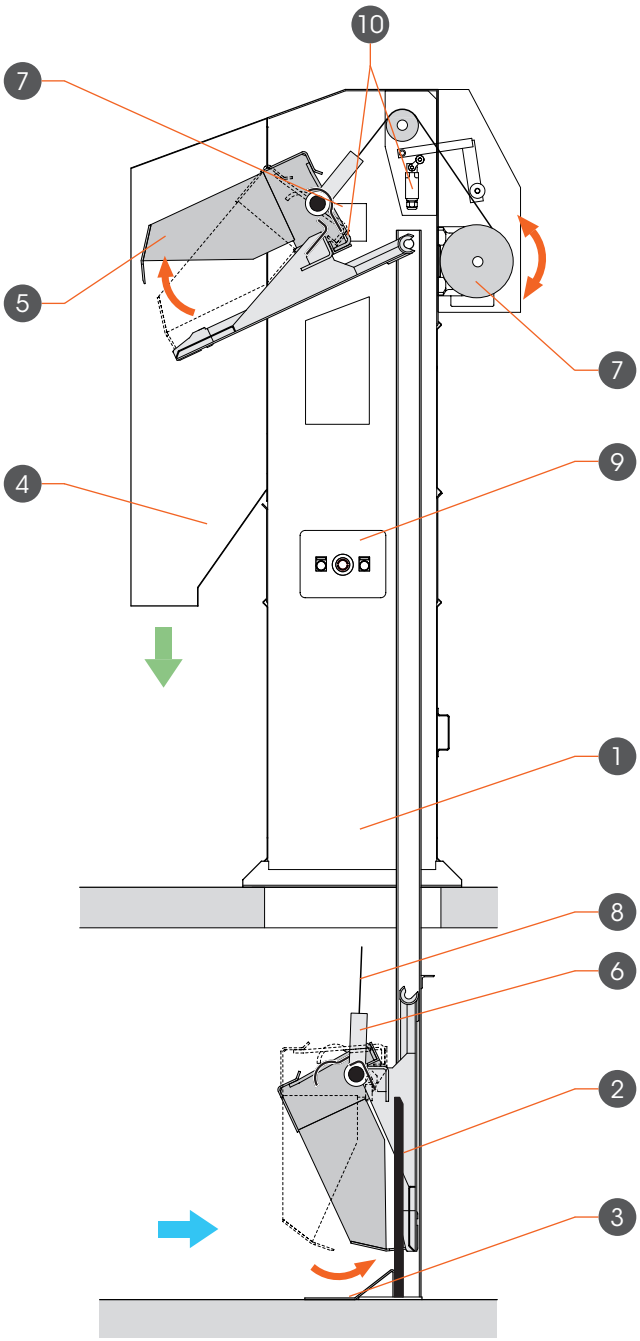
TECHNICAL SPECIFICATIONS

Max. Flow Rate	6,000 m3/h
Bar Spacing	3 to 60 mm
Width	450 to 2,000 mm
Max. Depth under Installation Plane	17,000 mm
Max. Total Height	21,000 mm
Discharge Side	Upstream
Slope	0°
Material	AISI 304L, 316L or mixed









1 • FRAME
Forming a casing with fastening parts (by anchoring or grouting).

2 • FIXED SCREEN
Welded at lower end. Bar spacing on request.

3 • COLLECTION RECEPTACLE

4 • WASTE DISCHARGE HOPPER
Installed on hinges or hooks according to the layout.

5 • SCOOP/CARRIAGE ASSEMBLY
The carriage slides in the rails and discharges its load in the top position. The scoop is equipped with a comb to clean the screen.

6 • MOBILE PART
Attached to the end of the strap, it initiates the opening or closing of the scoop according to its position on one of the two sides of the scoop hinge pins.

7 • GEARED MOTOR
(SEW, P=0.18 to 2.2kW), with single-strap drum. Protected by drum/belt protector or hinged casing equipped with a pneumatic actuator.

8 • POLYESTER STRAP
Resistant to all chemical products and freezing (breaking strength = 3.5 or 12 tons according to bar screen dimensions).

9 • MANUAL CONTROL PANEL
Equipped with «up-down» pushbuttons and an emergency stop punch button. The geared motor and limit sensors are connected to it.

10 • POSITION SWITCHES
«Top» and «Bottom».

11 • SAFETY SWITCH

OPERATING PRINCIPLE

On receiving the operation signal, the open scoop/carriage assembly slides down to come to rest on the collection receptacle. Under the effect of gravity, the mobile part changes position, the strap slackens and releases a feeler which actuates the “bottom” limit sensor. The motor operating direction is then reversed, the strap is tightened, the scoop closes engaging its teeth in the screen and is raised. At the top, the scoop/carriage assembly comes to bear against studs and then pivots until the position of the mobile part changes causing the scoop to open and discharge the waste. The “top” limit sensor stops the motor and actuates the reverser. The open scoop/carriage assembly slides down again for a new cycle.

OPTIONS

Frame made up of several parts according to the depth or location (in building for example), acoustic insulation, manual screen for side by-pass, lateral deflectors, inspection door on hopper, heater to prevent freezing, cleaning ramp, ATEX equipment, motorized brush to clean the comb, metal channel, variable speed geared motor, electrical control and servo-control unit with or without variable speed drive, draining trapdoor, polycarbonate trapdoor on the hopper, bagging machine, assembly or help with assembly provided by an FB Procédés technician, etc.

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