

Description

The HCU from WIMA is a compact machine for separating mineral components from process water. The hydro cyclone unit processes 60 m³ of wastewater per hour with three cyclones, each with a diameter of 100 mm.

The screening machine is divided into two sections. One part is designed as a protection screen for the separation of impurities, the other part as a dewatering screen. The water/sand mixture freed of impurities is collected in the trough and fed to the hydro cyclones by means of an installed solids pump. Due to the hydraulic conditions created in the hydro cyclone, particles > 63 µm are separated and directed to the “dewatering side”.

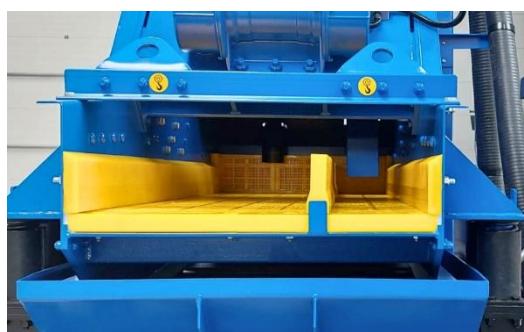
The water freed from particles can either be fed into a sedimentation tank or alternatively into a water treatment system.



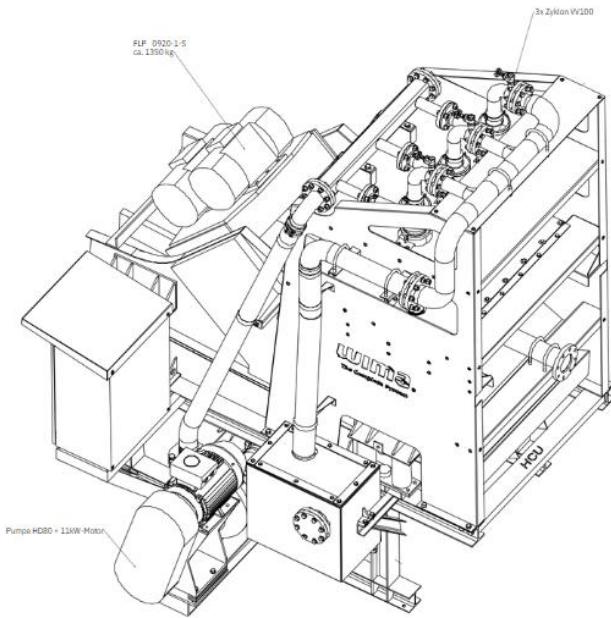
HCU, Side View



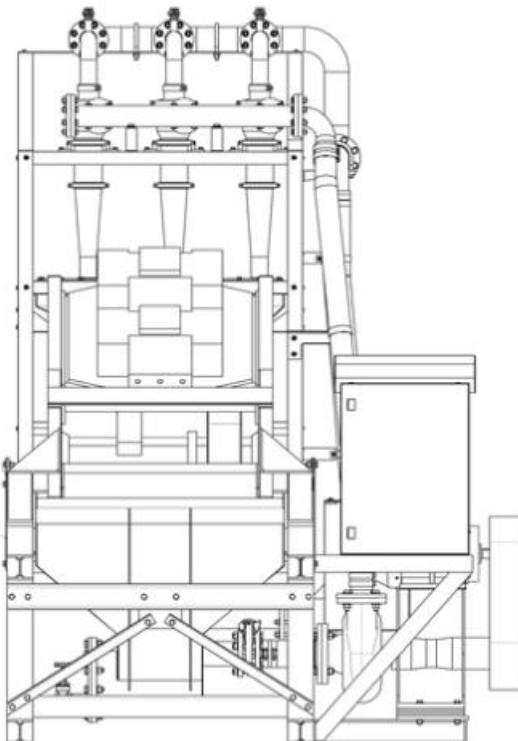
HCU, Back View



Split Screen Surface



Drawing HCU, Side View, Pump + Control Cabinet



Drawing HCU, Back View

DIMENSION (approx.)

Total Length	2.900 mm
Total Width	2.400 mm
Total Height	3.400 mm
Length, Screen Machine	2.000 mm
Width, Screen Machine	900 mm
Discharge Height, Screen Machine	950 mm
Inlet DN100, PN16, Height	1.600 mm

WEIGHT (approx.)

Total Weight	3.400 kg
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SCREEN MACHINE

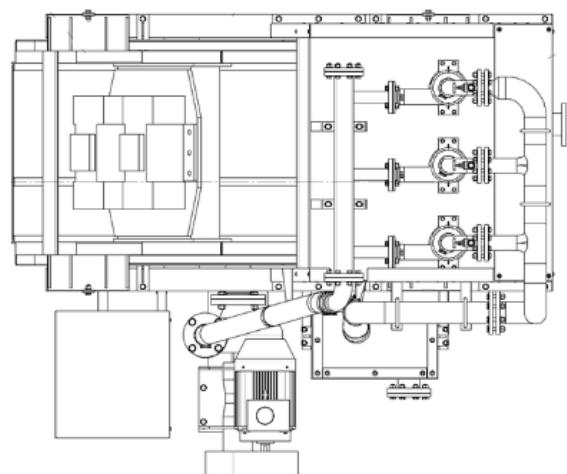
Power	2 x 2,2 kW
Screen Surface (Impurity Discharge: 2 mm)	1,2 m ²
Screen Surface 2 (Impurity Discharge: 0,3 mm)	0,6 m ²

PUMP

Power Consumption	max. 11 kW
Q max.	60 m ³ /h

ENERGY SUPPLY (approx.)

Network Type	3PH/N/PE
Supply Voltage /Frequency	400 VAC / 50 Hz
Back-up Fuse (CEE-Plug)	63 A
Power Consumption	15,4 kW



Drawing HCU, Top View