



SEPARATOR

A **BAUER GROUP** COMPANY

EN



WASTE WATER TREATMENT

CENTRIFUGAL CLASSIFIER SEPARATOR **CCS**

SEPARATION OF SPECIFIC HEAVY SOLIDS FROM WASTEWATER



WWW.FAN-SEPARATOR.DE

CENTRIFUGAL CLASSIFIER SEPARATOR CCS

The FAN CCS was designed for the separation of particles of high density from specific industrial waste water streams.

- The influent should be pumpable and pre-screened. Usually the content of suspended solids (TS) is pump-able.
- The solids are leaving the CSS as a liquid sludge, which can be dewatered by a FAN PSS Separator
- The infeed flow must be pre-screened (min. 2 mm), for example with a FAN Press Screw Separator, to prevent the CCS from mechanical damage.
- A finer screening of about 0.50 mm is an advantage for the CCS, because the solid content and also the viscosity of the inflow will be reduced and the capture rate will be increased.
- High capacity of up to 65m³/h

Description

The infeed flows through the inlet pipe to the blades of the transport rotor (A).

The spiral rotor blades press the liquid into the stator area (B).

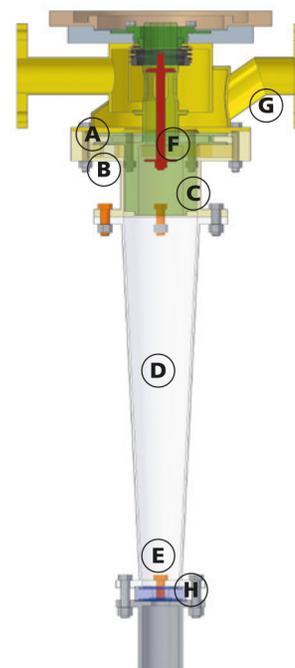
The stator is mounted on the main drive shaft between transport rotor and cyclone rotor (C).

The stator blades press the liquid into the separation area (D).

The upper part of the separation area is cylindrical, the lower part is conical. The specific heavy particles are pressed to the outer diameter and then to the tip of the cone (E) by centrifugal force.

The specific light particles are pressed by the centrifugal force to the middle of the cone. If the barrier plate (F) is installed it is possible to separate also the light particles at the cone outlet.

The sludge capacity depends on the size of the installed orifice plate (H). The cleaned liquid will flow through the hollow shaft of the rotor to the outlet (G).





Applications

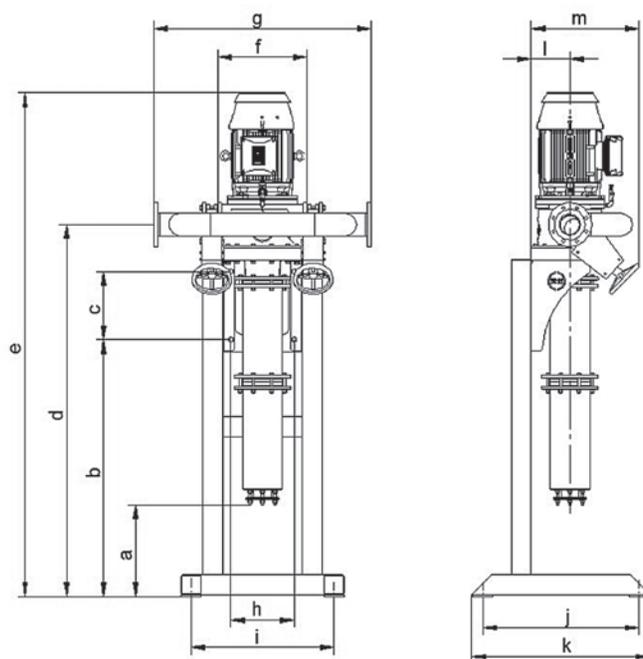
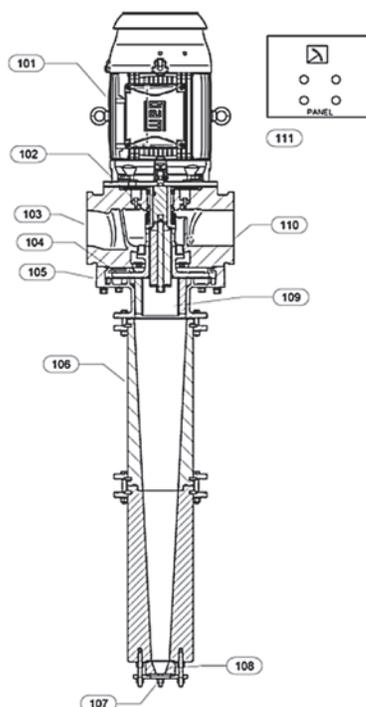
The separation of particles of high density from specific industrial waste-water streams (like sand, glass, metal, minerals, etc.), e.g. for the separation of sand for the re-usage of washing-water.

Dimensions

Measure	mm	Measure	mm
a	460	h	320
b	1285	i	720
c	340	j	790
d	1860	k	900
e	2520	l	195
f	450	m	545
g	1100		

Description

- 101 Motor
- 102 Motor seal
- 103 Inlet
- 104 Rotor
- 105 Stator
- 106 Cone
- 107 Sludge outlet
- 108 Cone outlet with flow restrictor
- 109 Cylindrical separating chamber
- 110 Outlet
- 111 Electrical cabinet

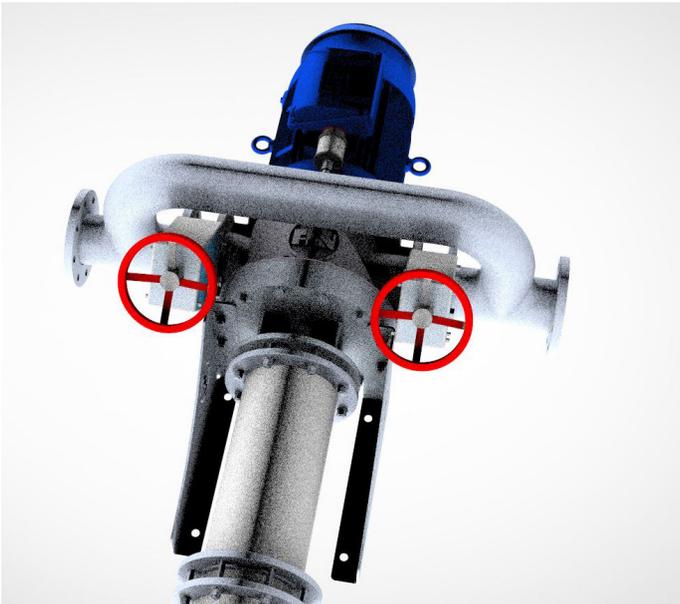
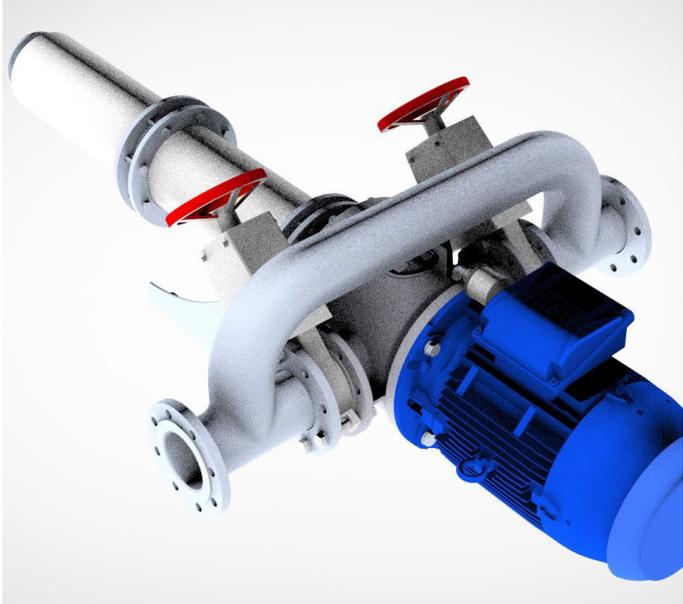


Technical data

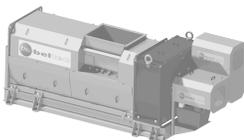
Separator Type CCS	3.1 – 150
Power kW	11.0
Max. capacity m ³ /h*	65
Nominal speed rpm*	1450
Power frequency**	max. 50 Hz

* at 50 Hz

** if the power frequency is higher, a frequency converter must be used!



BEST VALUE
SEPARATION PRODUCTS



Your Dealer

FAN Separator GmbH
Bernecker Straße 5, 95509 Marktschorgast, Germany
T +49 9227 938-400
F +49 9227 938-444
M info@fan-separator.de
W www.fan-separator.de

