SiccaDania

Hydro cyclone HC50

The hydro cyclone HC-50 is suitable for separating a wide range of products. The hydro cyclone HC-50 is known for its high efficiency and long life.

Applications

• **Separation of any particles smaller than 2 millimeters and with a higher specific weight than the mother liquid**

Removing coarse particles

The hydro cyclone consists of a cylindrical upper part provided with an inlet and overflow. This part is mounted on a conical-shaped housing fitted with an apex nozzle. Product is fed tangentially under a certain feed pressure.

Centrifugal action forces the solids outward against the cyclone wall and downward through the apex nozzle. Fluid is forced upward in a vortex flow and is discharged through the overflow outlet.

The hydro cyclone HC-50 is made of stainless steel. The separation efficiency and concentration of the underflow is adjusted by exchanging the feed pressure and/or the apex diameter. The hydro cyclone is available as single unit with pressure gauge, control valve, transparent drain hose and mounting bracket. Each cyclone can be closed by means of two valves, one in the feed and one in the overflow.
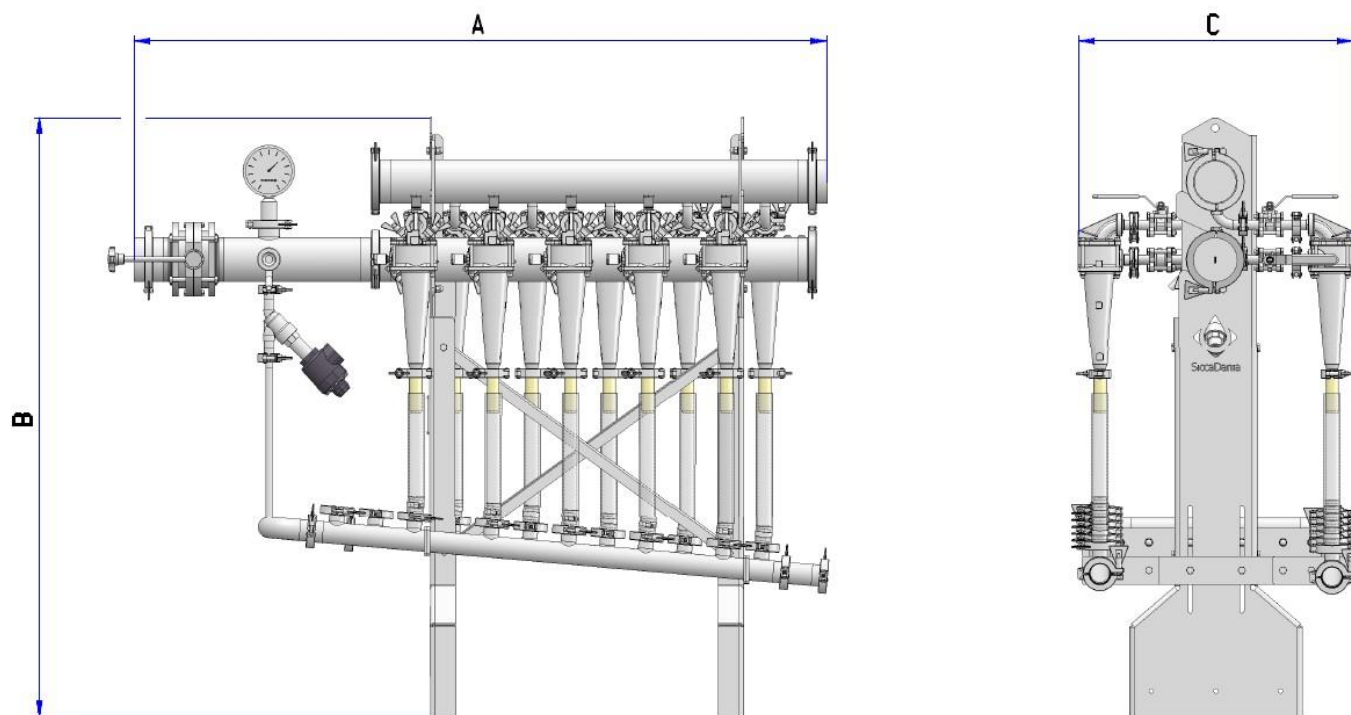
Dependent on the given capacity up to 20 hydro cyclones HC-50 are mounted to a manifold with central feed and overflow flange.

Benefits of the HC50 hydro cyclone

• **High separation and concentration efficiency**

• **High wear resistance**

• **No moving parts**

• **Compact and robust design**

• **Cyclones can be closed independently**

Technical data

Model	04	05/ 06	07/ 08	09/ 10	11/ 12	13/14	15/16	17/18	19/20
A (mm)	895	1045	1195	1345	1495	1645	1795	1945	2095
B (mm)	1160	1160	1160	1160	1160	1160	1160	1160	1160
C (mm)	530	530	530	530	530	530	530	530	530
Weight (Kg) approx.				155/160					

Dimensions & weight standard HC-50 D(Double) hydro cyclone units

Features

Features	
Feed (l/h)	5000-6000
Feed pressure (bar)	3.5

Design

Standard

• **Compact and robust design**

Options

• **In-line equipment to prevent blockage**

• **Build as a turn-key system**

• **Density control**

• **CIP cleaning**

• **Different support frames**