



Hutchison Hayes Separation Inc.

HH 1456



The HH Horizontal Decanting centrifuge has a vast field of applications in various Processes where liquid phases of different specific gravities and a solid phase have to be continuously separated.

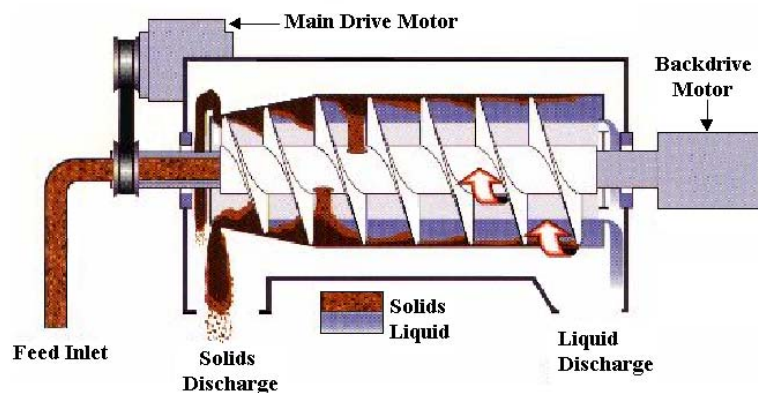
How a decanter works.

The centrifuge is fed through a stationary pipe, which is inside a hollow shaft connected to the screw conveyor (scroll.) There it enters a feed compartment (inside of the conveyor) and is accelerated through feed slots into the inside of the bowl. Once inside the bowl, centrifugal forces accelerate the solids. They are then collected on the inside diameter bowl wall and the liquid forms a concentric annulus and fills the bowl to the level of the effluent dam/weirs.

The screw conveyor, which is connected through a coupling to a gearbox, turns slightly slower than the bowl. Since it is turning slower and the helix is angled toward the small diameter (conical end) the solids are then conveyed along the inside diameter of the bowl to the solids discharge end.

The liquid flows around the screw conveyor and exits through effluent dam/weirs located on the large diameter (cylinder) end of the bowl. Solids, which do not settle to the inside diameter of the bowl (floaters), are carried out with the liquid through the effluent weirs.

Effluent dams/weirs that are adjustable control the amount of liquid inside the bowl. The maximum volume (pool) forms an annulus diameter, which is smaller than the solids discharge



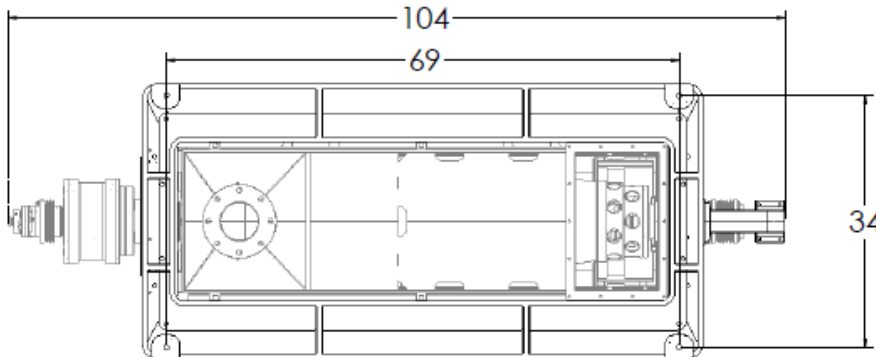
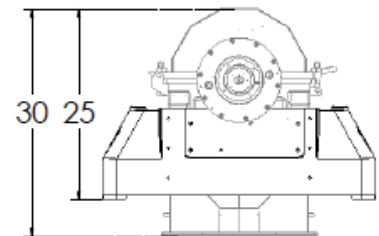
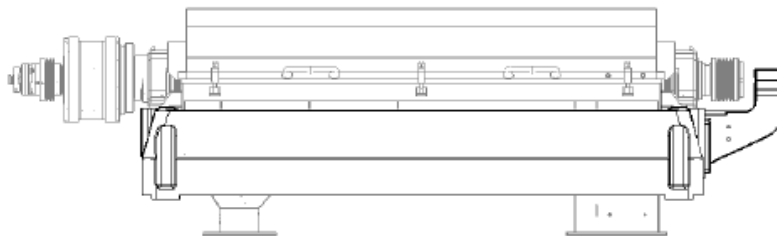
Hutchison Hayes Separation Inc.
3520 East Belt
Houston, Texas 77015, USA
Phone 713 455 9600

www.hutchisonhayes.com
P.O.Box 2965
Houston, Texas 77252, USA
Fax 713 455 7753



Hutchison Hayes Separation Inc.

TECHNICAL DATA SHEET			
<u>MODEL HH-1456</u>			
MAXIMUM RATED CAPACITY	200 GPM	Maximum RPM	4000 RPM
Minimum temperature	30°F	The maximum speed of the Bowl must not be exceeded.	
Maximum temperature	212°F	Bowl speed low	1750 RPM
Capacity		Bowl speed High	3250 RPM
Finished Surimi	772 Lbs/hr	Run up time	5 minutes
Rendering of Animal Bone	6614 Lbs/hr	Run down time	10 minutes
Materials		Main motor	40 HP
Frame	cast iron	Back drive motor	20 HP
Covers	316 Stainless steel	Gear box ratio	1:52
Bowl	317 Stainless steel	Gear box torque	3.5 kNm
		Net weight	480 Lbs
		Gross weight	590 Lbs
		Volume	22 Cu. Ft.



Hutchison Hayes Separation Inc.
 3520 East Belt
 Houston, Texas 77015, USA
 Phone 713 455 9600

www.hutchisonhayes.com
 P.O.Box 2965
 Houston, Texas 77252, USA
 Fax 713 455 7753