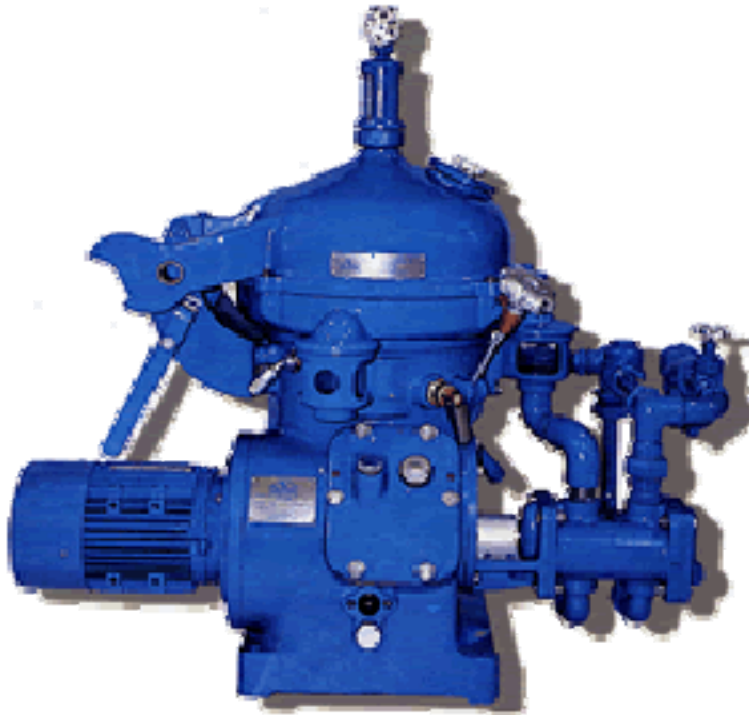




Hutchison Hayes Separation Inc.

HH 219 BD



The HH 219 centrifuge is a Biodiesel cleaning system with a low installation cost. It is a small and compact system with well proven components.

Application

The HH 219 system is specifically designed for a number of different separation duties, such as: purification, degumming, wash water removal, glycerin separation and clarification

Working principle:

Separation takes place in a solids-retaining, also known as a solid bowl that can be arranged for purification or clarification (optional). In both cases the dirty oil is fed in to the separator by a built-on feed pump through the oil inlet and is separated by centrifugal force into its various phases. The heaviest phase, sludge, is forced to and deposited at the periphery of the bowl. Separated sludge is collected in the space at the periphery of the bowl and must be removed periodically by hand. The clean oil is

continuously discharged through a built-on pump.

Water leaves the bowl via an open outlet. When operated in purifier mode, a gravity disc must be fitted to obtain the correct interface position (the boundary between the separated oil and the water seal) in the separator bowl. In the optional clarifier mode, a clarifier disc is fitted instead of a gravity disc.

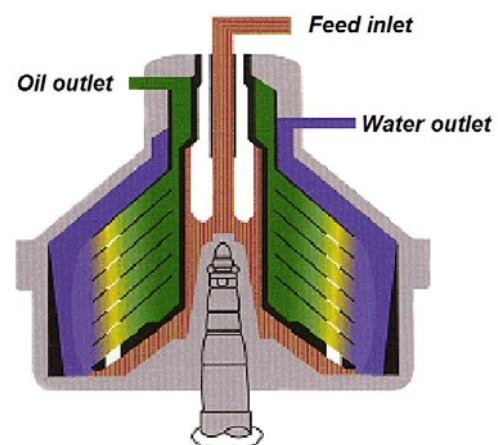
A water seal alarm is available as optional equipment to monitor the pressure in the clean oil outlet. The control unit will shut off the oil feed to the separator in case a pressure drop is detected and give an audible and/or visible alarm.

Installation

The HH 219 separation system is designed for installation as a complete system. The layout schematic shows a typical installation of an HH 219 separator. Dirty oil is supplied by the feed pump from the oil tank to the separator bowl for continuous cleaning. After separation, the cleaned oil is discharged by a built-on pump.

Options

A complete system includes an optional water seal alarm, starter, valves, piping and other equipment.

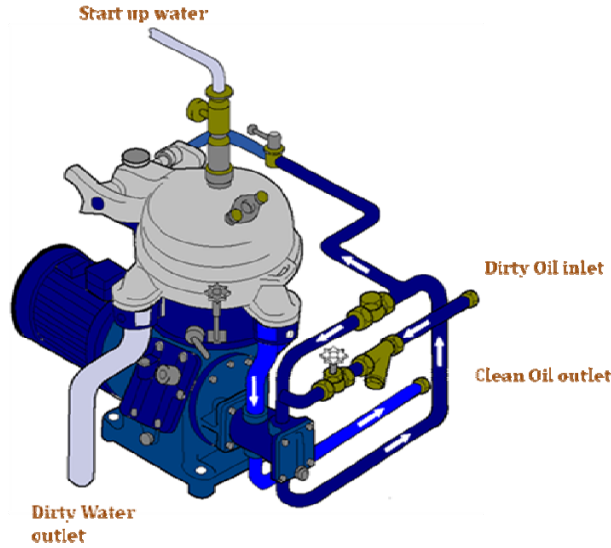


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TECHNICAL DATA SHEET

MODEL HH-219 BD

MAXIMUM RATED CAPACITY	550 GPH	SPEED	
Minimum temperature	30°F	The maximum speed of the spindle must not be exceeded.	
Maximum temperature	212°F	Drive motor	1750 RPM
Recommended throughput:		Bowl Spindle	7300 RPM
Bio Diesel		Run up time	5 minutes
Viscosity 1.5 - 5.5 cSt/40°C (104°F)	515 GPH	Run down time	3 minutes
Viscosity 14 cSt/40°C (104°F)	490 GPH	Materials	
Viscosity 32-46 cSt/40°C (104°F)	265GPH	Frame:	cast iron (epoxy enamel)
Suction lift to pump	12 Feet, WC	Covers:	cast aluminum
Delivery head pump	45 Feet, WC	Bowl body, hood, disc stack:	stainless steel
Sludge Holding Space	.33 Gallon	Distributor, top disc:	nickel plated bronze
Drive Motor	2.2 HP	Shipping Data	
Gear Case Oil	1.5 Quart	Unit is shipped with all necessary bowl insertion tools, mounting isolators, built-on feed pump and motor.	
Operating Water for Sealing		Net weight	390 Lbs
Max chloride content	60 PPM	Gross weight	620 Lbs
		Volume	22 Cu. Ft.

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