



Hutchison Hayes Separation Inc.

HH 160 MO



The **HH 160 centrifuge** is a oil cleaning system with a low installation cost. It is a small and compact system with well proven components.

Application

The HH 160 system is specifically designed for purification or clarification of mineral oils found in the marine and power industries.

- Lubricating oils.
- Distillate and light diesel oils (MDO).

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

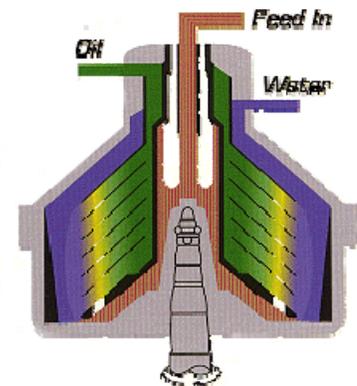
centrifugal force into its various phases. The heaviest phase, sludge, is forced to and deposited at the periphery of the bowl. Separated sludge is collected in the space at the periphery of the bowl and must be removed periodically by hand. The clean oil is continuously discharged through a built-on 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 160 separation system is designed for installation as a complete system. The layout schematic shows a typical installation of an HH 160 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

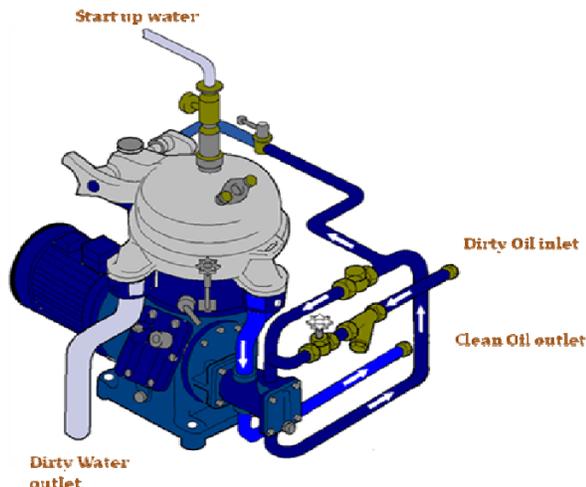
A complete system includes an optional water seal alarm, starter, heater, valves, piping and other equipment.

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TECHNICAL DATA SHEET

MODEL HH-160 MO

MAXIMUM RATED CAPACITY	344 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	8600 RPM
Distillate	304 GPH	Run up time	2 minutes
Viscosity 1.5 - 5.5 cSt/40°C (104°F)		Run down time	3 minutes
Marine Diesel (MDO 2)	238 GPH	Materials	
Viscosity 14 cSt/40°C (104°F)		Frame:	cast iron (epoxy enamel)
Diesel Engine Lube oil		Covers:	cast aluminum
Cross head	105 GPH	Bowl Components	
Trunk	80 GPH	Bowl body, hood, disc stack: stainless steel	
Steam Turbine Lube oil	212 GPH	Distributor, top disc: bronze	
Viscosity 32-46 cSt/40°C (104°F)		Shipping Data	
Suction lift to pump	12 Feet, WC	Unit is shipped with all necessary bowl insertion tools, mounting isolators, built-on feed pump and motor.	
Delivery head pump	45 Feet, WC		
Sludge Holding Space	.15 Gallon	Net weight	155 Lbs
Drive Motor	1.2 HP	Gross weight	221 Lbs
Gear Case Oil	1 Quart	Volume	10.5 Cu. Ft.
Operating Water for Sealing			
Max chloride content	60 PPM		

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