

HydroFlow Direct Drive Centrifuge

Series 20



HYDROFLOW[®]
EUROPE

Do you have Coolant cleanliness issues? HydroFlow has the solutions

HydroFlow advanced coolant clarification equipment provides the optimum in machinery output, life and efficiency. The full range is backed by extensive experience and knowledge in the use of Centrifuge Technology in the workplace.

Why use a centrifuge?

- It provides predetermined and efficient levels of filtration.
- Proven technology.
- Suitable for a wide viscosity range of cutting oils and water based emulsions.
- Non-consumable filtration media.
- It is adaptable for a wide range of applications.

HydroFlow offers the 20 Series in 4 variations;

- Fixed unit (5-10 micron nominal)
- Mobile unit with pumps and hoses
- Tank mounted with pump and chiller options
- High Speed variant for a higher degree of Fluid Clarification (3-5 micron nominal)

The Clarification Principle

An open-topped rotor is driven at high speed, which has a long-life removable flexible rotor liner inserted for collection of contaminants. Moulded to the inner contour of the rotor, the rotor liner is secured to the rotor by a removable vane assembly consisting of a ring and four vertical vanes. Dirty coolant enters at the top of the rotor assembly and is deflected by the centre cone towards the base of the bowl. Centrifugal force acts upon the dirty coolant, solidifying the foreign matter into a 'cake' against the wall of the rotor liner. The clarified coolant overflows through the aperture in the top of the vane assembly and is returned to the machine via a clean tank and or pump configuration.

The Flexible Rotor Liner

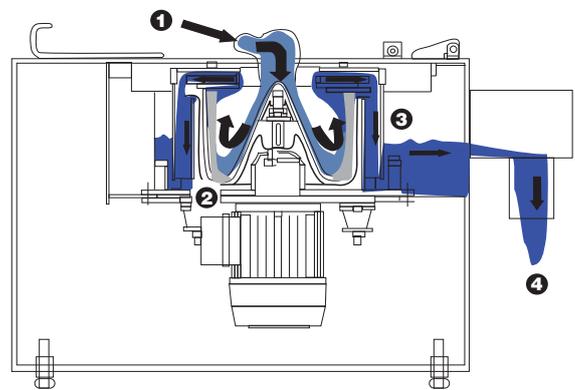
For clean and efficient disposal of the contaminant extracted from the coolant, the centrifuge clarifier is filled with a long-life flexible rotor liner. Frequency of liner change-out dependant on the process and the stock removal rate, is a swift operation of approximately five minutes. The procedure can be minimised using a spare rotor liner, which allows the full rotor liner to be emptied at the suitable collection point.

The flexible rotor liner collects foreign matter up to a capacity of approximately 4000cc (250 cubic inches). This allows a sludge cake of up to 9/23kg (20/50lb) to be built up dependant on the makeup of the contaminant.

The HydroFlow range offer liquid/solid centrifuges for filtration of liquids to low micron levels regardless of the viscosity or flow rate.



Centrifuge Operation:



Performance Guide Electronic Series 20

Coolant Type	Typical Viscosity at Centistokes at 20°	Maximum Throughput for effective Clarification l/min
Emulsion	1 – 5	90
Light Neat Oil	40	80
Neat Oil	60	70
Neat Oil	150	50

Note: It is essential to establish the oil's viscosity at working temperature.
Power Supply: 220/400V • 3ph • 50Hz / 220/460V • 3ph • 60Hz

General Data - Series 20 (Standard)

Model	Dimensions mm			Coolant Tank Cap. Litres	Net Wt. kg.
	Width	Depth	Height		
20-22-0	610	680	560	No tank	125
20-22-25	610	1065	560	114	193
20-22-40	610	1370	560	182	204
20-22-55	610	1675	560	250	215
20-22-70	610	1980	560	318	226



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