

HydroFlow Direct Drive Centrifuge

Series 40



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 40 Series in 3 variations;

- Fixed unit (5-10 micron nominal)
- 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 long-life flexible rotor liners. 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 spare rotor liners, which allows the full rotor liners to be emptied at the suitable collection point.

The flexible rotor liners collect foreign matter up to a capacity of approximately 4000cc (250 cubic inches) each. 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 offers liquid/solid centrifuges for filtration of liquids to low micron levels regardless of the viscosity or flow rate.

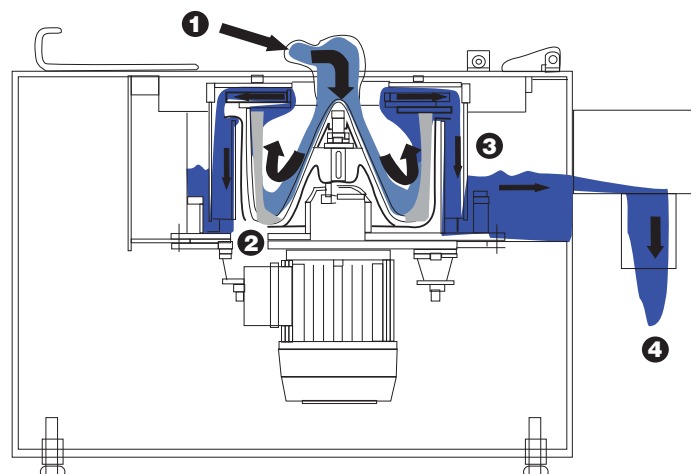
Performance Guide Electronic Series 40

Coolant Type	Typical Viscosity at Centistokes at 20°	Maximum Throughput for effective Clarification l/min
Emulsion	1 - 5	180
Light Neat Oil	40	160
Neat Oil	60	140
Neat Oil	150	100

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



Centrifuge Operation:



General Data - Series 40 (Standard)

Model	Dimensions mm			Coolant Tank Cap. Litres	Net Wt. kg.
	A	B	C		
40-22-0	965	755	560	No tank	220
40-22-50	965	1270	560	227	304
40-22-75	965	1575	560	342	318
40-22-100	965	1880	560	454	331
40-22-125	965	2185	560	567	345



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