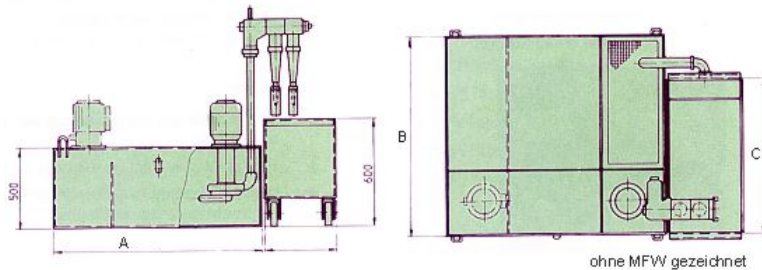




Type	Filtration capacity (l/min)	Dimensions (mm)			Container volume (l)	
		A	B	C	Volume	filling quantity
ZY55-1	80	1000	750	500	340	310
ZY55-2	160	1000	950	800	419	394
ZY55-3	240	1100	1300	1250	703	661
ZY55-4	320	1100	1300	1250	703	661



Hydrocyclone Cooling Lubricant – cleaning systems operate in all applications where heavy dirt particles are to be separated from low viscous liquids – e.g. on machine tools (especially grinding machines), but also on machining stations, transfer lines and parts washing plants.

Function

The liquid to be purified flows into the cylindrical part of the hydrocyclone via an admission spiral at a pressure of 2.2 bar. The tangential arrangement of the inlet and the high flow speed provoke the creation of a quickly rotating whirl, the rotational speed of which increases continually in relation to the cone housing being steadily reduced in diameter. The high rotational speeds create substantial centrifugal forces which act on the dirt particles. The dirt particles are thus pressed against the walls of the cyclone and discharged through the underflow nozzle together with a small quantity of liquid. The flow resistance increases as the cross section in the cone housing narrows. This reverses the running direction of the primary whirl in the lower part of the cyclone.

This secondary whirl runs upwards, maintaining its direction through the immersion tube, into the clean water chamber. (The secondary whirl has an air core that ventilates the coolant and therefore has a rot-preventing effect.)

Structure

- Centrifugal separator
- Wear-resistant plastic housing
- Easily replaceable components

Advantages

- High cleansing efficiency (approx. 98% related to one effective separating size > 10(.Jm)
- No recurring costs for filter elements
- Can be used for magnetic and nonmagnetic particles
- No deterioration of the cooling lubricant
- Steady ventilation of the cooling lubricant, therefore long service life of the lubricant
- Reliable operation thanks to a simple functional principle
- Low maintenance requirements