

Characteristics

- ▶ 3-phase filtration through combination of sedimentation and 2-phase ultra-fine filtration
- ▶ Cooling options:
 - ▶ integrated Water-Water-Chiller (WW) for connection to central cooling system or external cooling unit
- ▶ Non-contact level monitoring with alarm function (acoustic & optical)
- ▶ Housing out of chemically and mechanically resistant plastic
- ▶ Inclined tank floor for 75 L model
- ▶ Outlet on the back for quick and easy emptying
- ▶ Quick couplings on all electrical connections and media lines
- ▶ Prepared remote machine connection including connection cable
- ▶ Acoustic and visual alarm in case of pump errors (e.g. mechanical blockage)
- ▶ Depending on the size, either rollable or transportable by pallet truck



Advantages

- ▶ Cost effective alternative to centrifuges
- ▶ Significant minimization of noise and vibration in the working area
- ▶ No wear and tear parts like the bearings and the drives in centrifuges used
- ▶ Can be used even at very low flow rates
- ▶ Removable pump units enable very easy cleaning of the entire system
- ▶ Compact design
- ▶ Clear and comfortable operation
- ▶ Easy and fast filter change
- ▶ 3-phase filtration secures that particles $\geq 1\mu\text{m}$ are filtered out
- ▶ High precision temperature control
- ▶ Ultra-fine filtration allows usage in the production of high-end surfaces
- ▶ No exhaust necessary
- ▶ Chemical and abrasion resistant pumps



Application Area

- ▶ Used to handle, pump, filter and temperature control water-soluble coolants
- ▶ Mostly run together with grinding, generating, sawing and milling machines
- ▶ Used as a substitute for centrifuges
- ▶ Filtering, processing and temperature control of water-soluble cutting fluids
- ▶ Used in the machining of glass, ceramics and metals

Options

- ▶ Sensor for pH-measurement
- ▶ Sensor for flow rate
- ▶ Additional water inlets
- ▶ Pressure control valves
- ▶ SPS controls incl. temperature recording
- ▶ Further options upon request



CFS

75 | 300

Cascade filtration system for processing,
filtering, pumping and temperature
controlling water-soluble coolants



TECHNICAL DATA

CE

CFS - 75

CFS - 300

Filling volume [l]	75	300
Sedimentation sections	2	3
Supply pumps	2	2
Max. flow rate per pump [l/min]	100	100
Temperature accuracy [°C]	≤ 1	≤ 1
Filtering systems	2	2
Constant filtering [µm]	5	5
Fine filtering [µm]	1	1
Electric connection	400 V – 3 Ph – 50 Hz 220 V – 1 Ph – 50 Hz 208 V – 3 Ph – 60 Hz 208 V – 1 Ph – 60 Hz	
Empty weight [kg]	112	198
Dimensions [L x W x H cm³]	82 x 49 x 117	145 x 85 x 133
Inlet height 1 – IH 1 [cm]	49	62
Inlet height 2 – IH 2 [cm]	44	50

