75 | 300

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



## 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



## **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 ≥1µm 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 watersoluble 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



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ECHNICAL

DATA

**CFS - 75** 

**CFS - 300** 

CE

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]	<u>&lt;</u> 1	<u>&lt; 1</u>
Filtering systems	2	2
Constant filtering [µm]	5	5
Fine filtering [µm]	1	1

**Electric connection** 

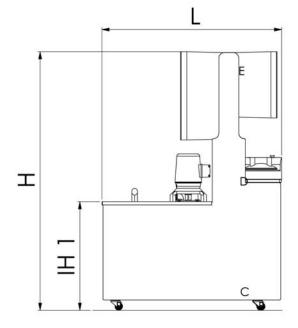
400 V - 3 Ph - 50 Hz

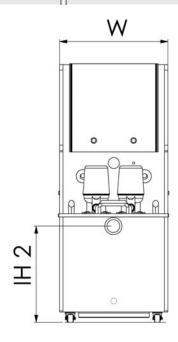
220 V - 1 Ph - 50 Hz

208 V - 3 Ph - 60 Hz

208 V - 1 Ph - 60 Hz

Empty weight [kg]	112	198
Dimensions [L x W x H cm <sup>3</sup> ]	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





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