

COOLING WATER SIDESTREAM FILTRATION

The main problems in the cooling water;

- the scaling formation,
- corrosion,
- biological growth and
- dirt - dust accumulation.

Main reason for scaling formation is hardness substances in the water. Acceleration of the scale formation is caused through solid matter

Corrosion depends on the pH of the water and scale formation on equipment surface. Biological growth is caused by bacteria n viruses in water. High surface area of the solid material provides the necessary environment for biological reproduction and increases growth rate. Dirt and dust accumulation is caused by airborne and suspended solid of make-up water.

The removal of the suspended solid will be carried out generally with the side stream filtration. In side stream Filtration a part of water will be taken from cooling water basin and filtrated. After Filtration will be fed to cooling water basin. The water flow rate in side stream is approximately 3 - 10% of circulation flow rate.

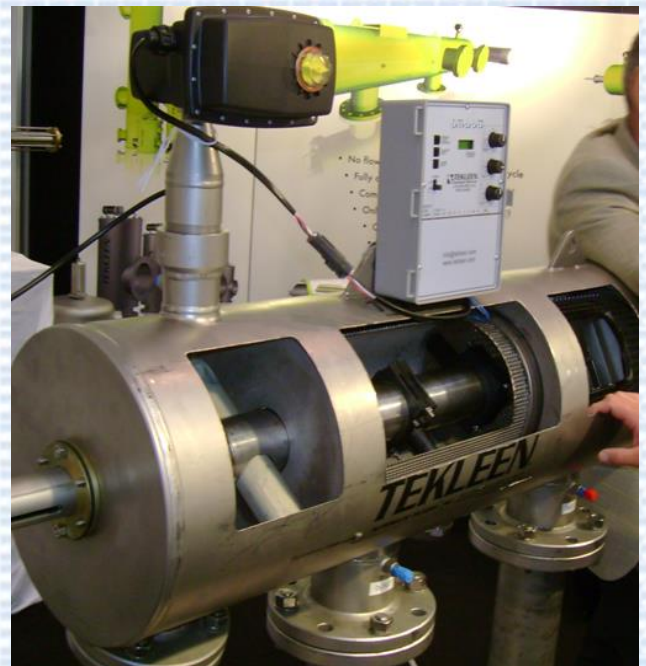
enki's side stream filtration unit capacity is between 10 and 1000 m³/h. These vales is equivalent to circulation rate 100 - 10.000 m³/h. Our unit will be supplied turnkey basis.

We suggest two different solutions;

- Media Filtration Units (Sand filter, Dual Filter or Multimedia Filter)
- Self-cleaning filter (50 micron)

Standard Specification

- Media Filter or Self-cleaning Filter
- Horizontal centrifugal pumps
- Electric Panel



Code	Circulation Flowrate		Dimension (LxWxH)		
	m ³ /h max	m ³ /h min	mm	mm	mm
CTF-0019	380	200	1.800	1.400	2.000
CTF-0026	520	260	1.900	1.600	2.700
CTF-0034	680	340	2.200	1.800	2.700
CTF-0058	1.160	580	2.700	2.300	2.400
CTF-0075	1.500	750	2.900	2.500	2.600
CTF-0100	2.000	1.000	3.200	2.800	2.700
CTF-0150	3.000	1.500	3.500	3.000	2.900
CTF-0200	4.000	2.000	4.200	3.700	3.000
CTF-0250	5.000	2.500	4.500	4.000	3.200
CTF-0300	6.000	3.000	4.800	4.200	3.300
CTF-0400	8.000	4.000	8.000	4.000	3.000
CTF-0500	10.000	5.000	8.500	4.300	3.200
CTF-0600	12.000	6.000	9.000	4.700	3.300
CTF-0750	15.000	7.500	11.700	4.300	3.200
CTF-0900	18.000	9.000	12.500	5.000	3.300
CTF-1000	20.000	9.000	15.500	5.500	3.200



enki reserves the right to change the specifications referred to in this table at any time, without prior notice.

Code	Circulation Flowrate		Dimension (LxWxH)		
	m ³ /h max	m ³ /h min	mm	mm	mm
STF-0050	1000	500	2000	500	*
STF-0100	2000	1000	2300	600	*
STF-0150	3000	1500	2500	700	*
STF-0200	4000	2000	2200	1400	*
STF-0250	5000	2500	2200	1400	*
STF-0300	6000	3000	2600	1500	*
STF-0400	8000	4000	2600	1500	*
STF-0600	12000	6000	2600	2800	*
STF-0800	16000	9000	3800	2800	*
STF-1000	20000	9000	4300	2800	*



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