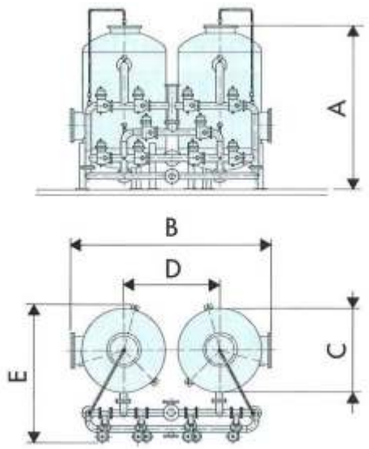
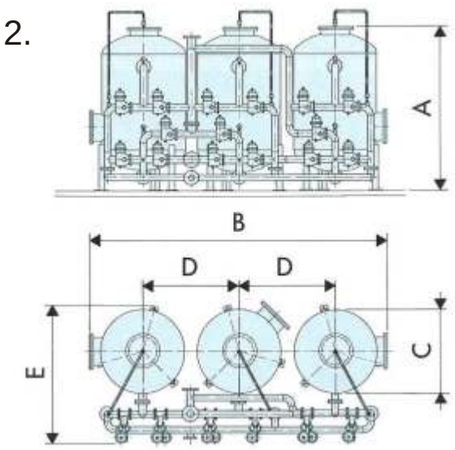
1.



2.



Safeclean specifications

Group	Model	Capacity l/min (gal/min)	A mm (ft)	B mm (ft)	C mm (ft)	D mm (ft)	E mm (ft)
1.	Safeclean 15AC	140 (36)	2120 (6,95)	2000 (6,56)	600 (1,96)	800 (2,62)	1100 (3,61)
	Safeclean 25AC	250 (66)	2270 (7,44)	2300 (7,54)	800 (2,62)	1000 (3,28)	1300 (4,26)
	Safeclean 30AC	300 (80)	2300 (7,54)	2500 (8,19)	900 (2,95)	1100 (3,61)	1400 (4,59)
	Safeclean 40AC	380 (100)	2370 (7,77)	2800 (9,18)	1000 (3,28)	1200 (3,93)	1590 (5,21)
	Safeclean 50AC	500 (132)	2450 (8,03)	3000 (9,84)	1150 (3,77)	1450 (4,75)	1670 (5,48)
	Safeclean 60AC	640 (168)	2550 (8,36)	3300 (10,82)	1300 (4,26)	1600 (5,25)	1790 (5,87)
	Safeclean 90AC	860 (226)	2800 (9,18)	3700 (12,13)	1500 (4,92)	1800 (5,90)	2155 (7,07)
	Safeclean 100AC	970 (255)	2850 (9,34)	3900 (12,79)	1600 (5,25)	1900 (6,25)	2460 (8,07)
	Safeclean 120AC	1200 (316)	3030 (9,93)	4400 (14,43)	1800 (5,90)	2100 (6,89)	2700 (8,85)
2.	Safeclean 130AC	1300 (340)	2900 (9,50)	5200 (17,10)	1500 (4,90)	1800 (5,90)	1900 (6,20)
	Safeclean 150AC	1500 (395)	2950 (9,70)	5500 (18,00)	1600 (5,20)	1900 (6,20)	2000 (6,60)

Larger sizes upon request.
Dimensions have tolerance of +/- 50 mm

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12/04

SAFECLEAN
Seal Water Filter System

SAFECLEAN GUARANTEES CLEAN SEAL WATER

Safeclean seal water filter system removes impurities and particles providing clean seal water for stuffing boxes and mechanical seals.

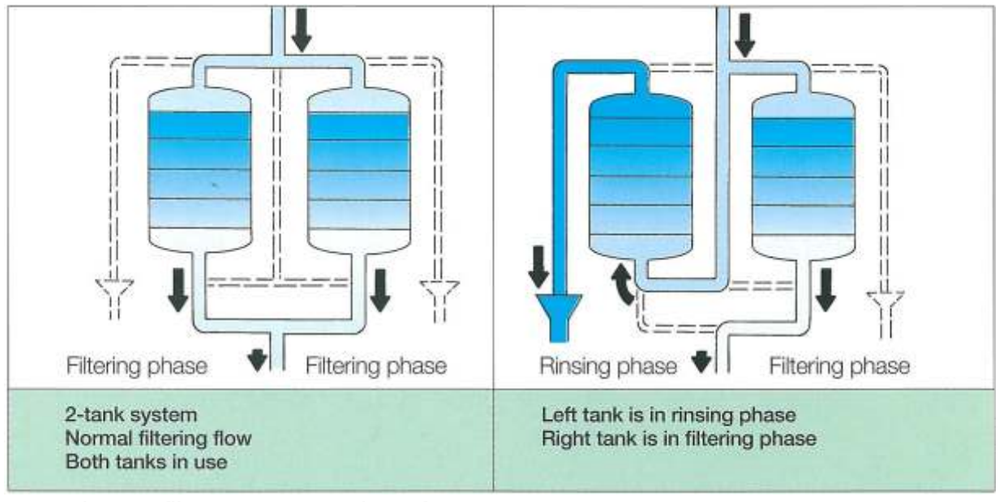
Seal water is often used in conjunction with both packings and mechanical seals in the pulp and paper industry. Seal water lubricates seal faces and cools the seal and the shaft. It also prevents particles from hampering the sealing function.

Safeclean seal water filter system cleans seal water so efficiently that residual particles or impurities will not cause seal malfunction or unnecessary wear. It also improves the reliability of flow control and pressure regulating devices connected to the piping. Safeclean not only extends the seal life, but also reduces water consumption.

MULTI-LAYER FILTERING OFFERS THE BEST RESULTS

Raw water is piped into the seal water nework via the Safeclean filter mass layers. The filter masses are periodically rinsed with and against the flow.

Filtering employs physical phenomena such as gravity, inertia, diffusion and hydrodynamic forces. Detrimental substances are collected in different mass layers according to the size and form of the substance.



Safeclean seal water filter system consists of two or three filter tanks, control valves, piping system and electric control centre.
During normal operation raw water is flowing downflow through the filtering materials to the seal water system. By the control centre it is possible to program the desired washing cycle of Safeclean. This cycle depends on the quality of the raw water. During counterflow washing the water enters the tank from the bottom and discharge from the top to the drain. During counterflow washing the accumulated impurities will be flushed to the drain.
After the counterflow flushing, the system starts automatically the downflow washing phase.

During downflow washing the water enters the tank from the top, and replaces the counterflow washing water inside the tank. It will also remove the impurities from the bottom of the tank, which may have entered during the counterflow washing. After this period the water flow turns back to seal water system and the filtering continues normally until to the next flushing cycle operation of the system is controlled and monitored by a PLC control unit.

Traditional filtering methods such as screens, cartridges, etc., do not offer the performance as Safeclean. Safeclean is a reliable, trouble-free solution for any seal water application.

SAFECLEAN - THE SOLUTIONS FOR ANY SEAL WATER APPLICATION

Safeclean seal water filter system is available in various sizes. Standard sizes range from 150 to 1200 liters/minute. Langer capacity sizes are available upon request.
Centralized or local filter systems can be engineered depending on the plant layout. Centralized solutions are the most economical to new, “green field” installations.

Local Safeclean systems typically service small departments with a limited number of pumps. Local system installation is the most economical, when old mills are modernized or retrofitted.

Tanks and piping
Tanks are made of AISI 304 stanless steel or AISI 316 stainless steel on request. A minimum of two tanks are used. With larger capacities several tanks are supplied. A pressure rate of 6 bar (90 psi) is sandard. Piping is made of AISI 304 as standard or AISI 316 stainless steel on request.