

Sand filter SF 200, SF 320, SF 580, SF 200/AFM, SF 320/AFM, SF 580/AFM

Side stream filter for cooling circuits

Application

For the filtration of impurities and other particles in the sidestream.

Design

- Compact unit on a plastic euro pallet, ready for connection
- GRP filter tank, for filling with quartz gravel and support gravel or glass granules (AFM type)
- Feed pump:
Plastic or stainless steel housing
Plastic or stainless steel impeller
- ABS main control valve
- PVC tubing
- Backwash control with timer
- Particle-free city water or pilot air at a pressure of 3 – 4 bar as the pilot medium.

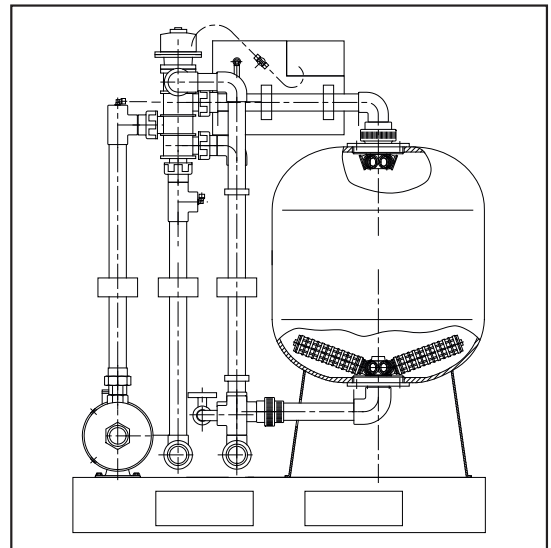


Options

- Differential pressure switch DIFF-P for differential pressure monitoring, flow monitoring and automatic control of automatic backwash filters, item no. 325 525
- Retrofitting of the unit to city water backwashing on site:
SF-SW-6.0 – 200 F, **item no. 315 060**
SF-SW-6.0 – 320/580, **item no. 315 109**

Advantages

- Automatic, time-controlled backwash
- Ideal operating flow thanks to integrated feed pump
- High separation capacity thanks to quartz gravel with optimum grain size distribution
- Alternative version with particularly effective filtering and germicidal action (AFM version)
- Easy to mount thanks to ready-to-connect design
- Flow rate from 11 – 24 m³/h
- Can be used in the main stream of the cooling circuit, as long as the maximum supply pressure is not exceeded.



picture: SF 200

Sand filter SF 200 , SF 320 , SF 580

Side stream filter for cooling circuits with quartz gravel and support gravel filling

Sand filter		SF 200 - 6 bar	SF 320 - 6 bar	SF 580 - 6 bar
Filter vessel				
Volume	l	209	350	542
Diameter	mm	615	765	927
Height (with valve)	mm	1,140	1,220	1,324
Filling volume	l	100	200	370
Containing:	quartz gravel 1-2 mm	kg	100	350
	supporting gravel 5-3 mm	kg	50	200
Water connections				
Inlet	DN	40	50	
Outlet	DN	40		
Rinse water outlet	DN	40		
Sewer connection (to be provided on site)	DN	65	80	100
Connection tap ³⁾	DN	40		
Feed pump				
Protection	IP	54		
Power consumption	kW	1.3	1.5	
Feed volume/pressure rise ¹⁾				
min. m ³ /h/bar		7/2.6	11/1.7	17/1.5
max. m ³ /h/bar		11/2.0	17/1.5	24/1.2
Housing material		1.4301	GG	
Impeller material		1.4301	GG	
Electrical connection				
Voltage	V	230	3x380-415	3x380-415
Frequency	Hz	50		
Permissible operating conditions				
Max. pressure ²⁾	bar	6.0		
Inlet pressure min.	bar	0.1		
Capacity rinse water ³⁾	m ³ /h	11.0	17.0	24.0
At inlet pressure min. ³⁾	bar	3-4		
Max. temperature	°C	35		
Weight (without water) approx.	kg	230	400	680
Dimensions				
Height	mm	1,600	1,490	1,580
Width	mm	1,200		1,280
Depth	mm	830	820	940
Item no.		315 024	315 051	315 029

1) at min. and max. filtration speed (25 and 36 m/h)

2) flow pressure plus pressure rise of the feed pump

3) at option tap water backwash

Sand filter SF 200/AFM, SF 320/AFM, SF 580/AFM

Side stream filter for cooling circuits with glass granules filling

Sand filter		SF 200 - 6 bar/AFM	SF 320 - 6 bar/AFM	SF 580 - 6 bar/AFM
Filter vessel				
Volume	l	209	350	542
Diameter	mm	615	765	927
Height (with valve)	mm	1,140	1,220	1,324
Filling volume	l	100	200	370
Containing:	glass granules 0,4-1 mm	kg	84	294
	glass granules 1-2 mm	kg	42	168
Water connections				
Inlet	DN	40	50	
Outlet	DN	40		
Rinse water outlet	DN	40		
Sewer connection (to be provided on site)	DN	65	80	100
Connection tap ³⁾	DN	40		
Feed pump				
Protection	IP	54		
Power consumption	kW	1.3	1.5	
Feed volume/pressure rise ¹⁾				
min. m ³ /h/bar		7/2.6	11/1.7	17/1.5
max. m ³ /h/bar		11/2.0	17/1.5	24/1.2
Housing material		1.4301	GG	
Impeller material		1.4301	GG	
Electrical connection				
Voltage	V	230	3x380-415	3x380-415
Frequency	Hz	50		
Permissible operating conditions				
Max. pressure ²⁾	bar	6.0		
Inlet pressure min.	bar	0.1		
Capacity rinse water ³⁾	m ³ /h	11.0	17.0	24.0
At inlet pressure min. ³⁾	bar	3-4		
Max. temperature	°C	35	35	35
Weight (without water) approx.	kg	230	400	680
Dimensions				
Height	mm	1,600	1,490	1,580
Width	mm	1,200		1,280
Depth	mm	830	820	940
Item no.		315 121	315 122	315 123

1) at min. and max. filtration speed (25 and 36 m/h)

2) flow pressure plus pressure rise of the feed pump

3) at option tap water backwash