

# FLATBED VACUUM FILTER (SCF)

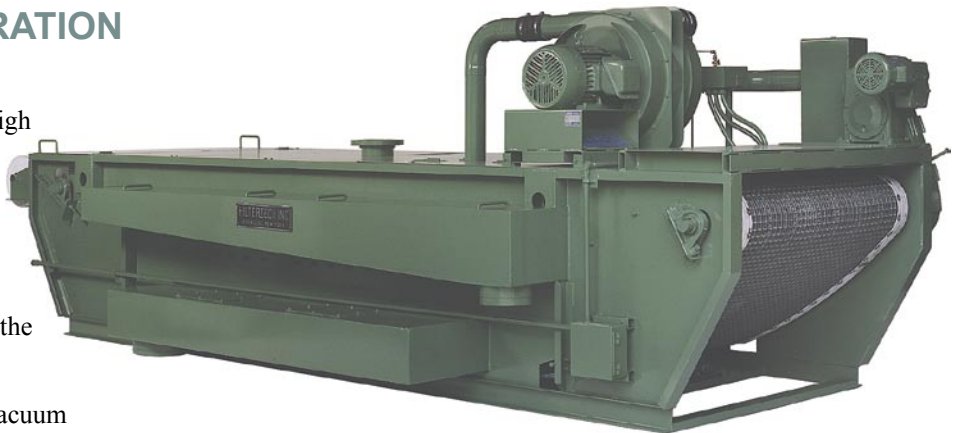
PRODUCT  
BULLETIN



## EFFICIENT LIQUID CLARIFICATION THROUGH THE USE OF FLATBED AIR VACUUM MEDIA FILTRATION

In numerous coolant clarification applications involving moderate to high flow rates, the Filtertech Model SCF Flatbed Vacuum Filter provides the desired clarity by removing even the finest particles using a wide range of filter medias. To achieve the very high flow rates through the filter, a vacuum producer is used to increase the filtration rate.

The Filtertech Model SCF Flatbed Vacuum Filter is available in a variety of configurations and sizes to meet your specific requirements.



Model SCF4-3200 Flatbed Vacuum.

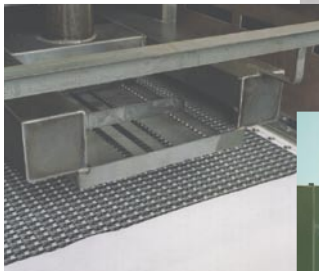


Patented labyrinth side seal design.

End-of-media alarm switch.



Low velocity inlet distribution header.



Patented air flow modulator assembly.



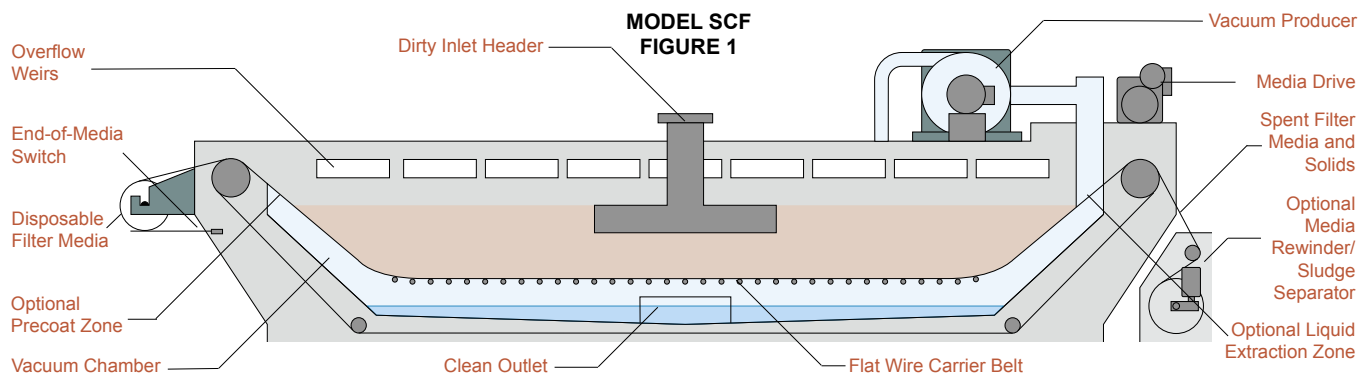
## EQUIPMENT FEATURES

### Standard

- Heavy gauge reinforced steel construction.
- Full width support rollers under conveyor.
- Integral mist collector elements.
- Low velocity inlet distributor.
- Direct driven low speed centrifugal vacuum producer.
- Shear pin protected media drive.
- Deep filter bed.
- Low media sensor.
- Constant operating vacuum.
- Patented positive labyrinth side seals.
- Patented air flow modulator assembly.
- Latching type index controls.

### Optional

- Liquid extraction chamber.
- Precoat zone.
- Decantation trough.
- Stainless steel materials of construction.
- Permanent media belt (select applications).



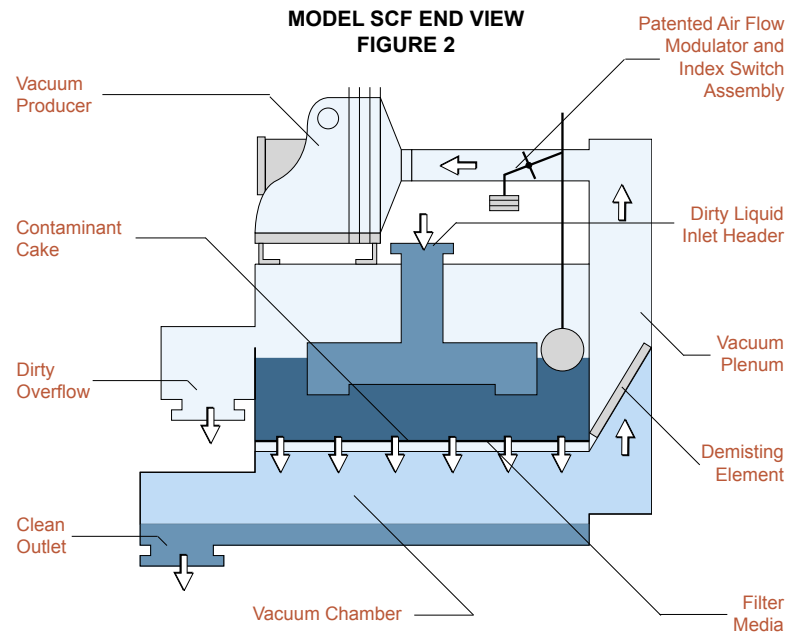
# FILTERTECH

Main Office/Factory  
Fairgrounds Drive, Manlius, NY 13104-0527  
TEL (315) 682-8815; FAX (315) 682-8825  
E-mail: [info@filtertech.com](mailto:info@filtertech.com)  
Web site: <http://www.filtertech.com>

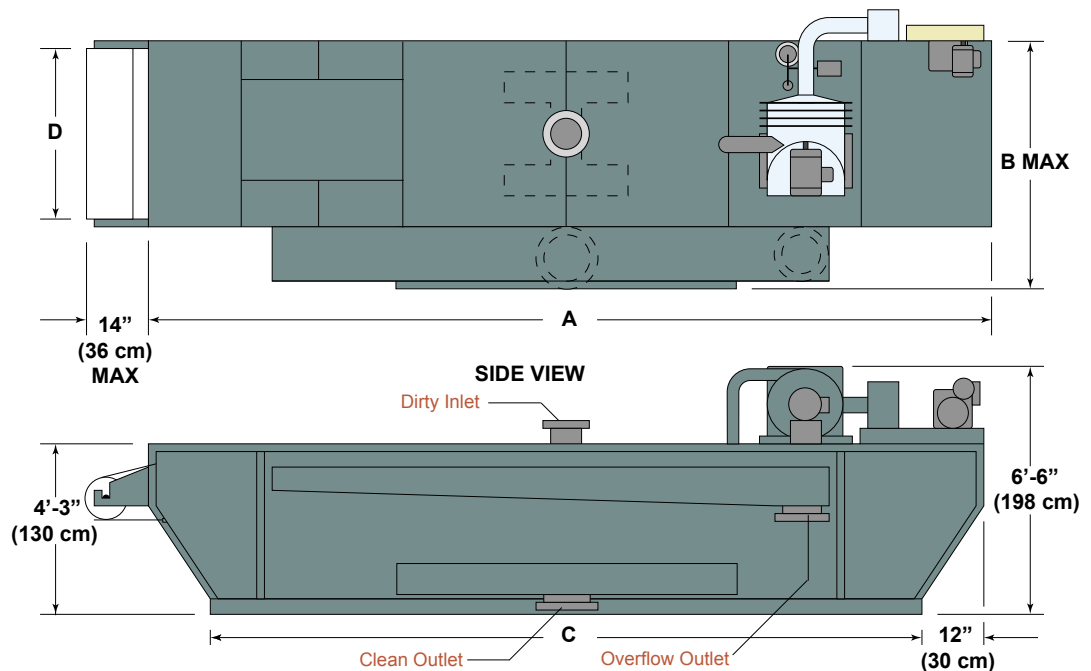
West Region Office  
8400 So. Kyrene Road, Suite 227, Tempe, AZ 85284  
TEL (480) 775-1111; FAX (480) 775-0604

## MODE OF OPERATION

Dirty liquid is fed into the filter through a low velocity inlet distributor. As the air is evacuated beneath the filter bed, a pressure differential across the media is created. The contaminants are intercepted by the filter media to form a cake which then becomes the filter media. As the cake becomes thicker and less permeable, a pool is formed in the bed of the filter. When the liquid pool rises, the level control float energizes the conveyor drive system, introduces a very small section of fresh media at one end, and discharges the contaminants and spent media at the other end of the filter. These contaminants are exposed to the drying action of the extraction chamber which shears the loose liquid from the cake, returning it to the system and minimizing makeup requirements. This also yields a drier contaminant for easier disposal. The clean liquid entering the vacuum chamber gravity flows through the clean outlet to a separate clean tank for delivery back to the process. During the incremental indexing of the media, flow from the filter is not interrupted.



**TOP VIEW**



## SPECIFICATIONS

Model†	Dimensions ft-in (cm)				Est. Wt. lbs (kg)	Model†	Dimensions ft-in (cm)				Est. Wt. lbs (kg)
	A	B	C	D			A	B	C	D	
SCF4-800	11'-0" (335)	6'-3" (191)	8'-10" (269)	5'-1" (155)	4,500 (2041)	SCF6-800	8'-11" (272)	8'-0" (244)	6'-9" (206)	6'-10" (208)	5,000 (2268)
SCF4-1200	13'-6" (411)	6'-3" (191)	11'-4" (345)	5'-1" (155)	6,000 (2721)	SCF6-1200	11'-0" (335)	8'-0" (244)	8'-10" (269)	6'-10" (208)	7,000 (3175)
SCF4-1600	16'-0" (488)	6'-5" (196)	13'-10" (422)	5'-1" (155)	7,000 (3175)	SCF6-1600	13'-6" (411)	8'-2" (249)	11'-4" (345)	6'-10" (208)	8,000 (3628)
SCF4-2000	18'-6" (564)	6'-7" (201)	16'-4" (498)	5'-1" (155)	13,500 (6122)	SCF6-2400	16'-0" (488)	8'-4" (254)	13'-10" (422)	6'-10" (208)	13,000 (5896)
SCF4-2400	21'-0" (640)	6'-9" (206)	18'-10" (574)	5'-1" (155)	14,500 (6576)	SCF6-2800	18'-6" (564)	8'-6" (259)	16'-4" (498)	6'-10" (208)	14,500 (6576)
SCF4-2800	23'-6" (716)	6'-11" (211)	21'-4" (650)	5'-1" (155)	15,500 (7029)	SCF6-3200	21'-0" (640)	8'-8" (264)	18'-10" (574)	6'-10" (208)	15,500 (7029)
SCF4-3200	26'-0" (792)	6'-11" (211)	23'-10" (726)	5'-1" (155)	16,500 (7483)	SCF6-4000	23'-6" (716)	8'-10" (269)	21'-4" (650)	6'-10" (208)	17,500 (7937)
SCF4-3600	28'-6" (869)	6'-11" (211)	26'-4" (803)	5'-1" (155)	17,500 (7937)	SCF6-4400	26'-0" (792)	9'-0" (274)	23'-10" (726)	6'-10" (208)	18,500 (8390)
SCF4-4000	31'-0" (945)	6'-11" (211)	28'-10" (879)	5'-1" (155)	18,500 (8390)	SCF6-4800	28'-6" (869)	9'-0" (274)	26'-4" (803)	6'-10" (208)	20,000 (9070)
SCF4-4400	33'-6" (1021)	6'-11" (211)	31'-4" (955)	5'-1" (155)	19,500 (8844)	SCF6-5600	31'-0" (945)	9'-0" (274)	28'-10" (879)	6'-10" (208)	21,000 (9524)
SCF4-4800	36'-0" (1097)	6'-11" (211)	33'-10" (1031)	5'-1" (155)	20,500 (9297)	SCF6-6000	33'-6" (1021)	9'-0" (274)	31'-4" (955)	6'-10" (208)	23,000 (10431)
						SCF6-6800	36'-0" (1097)	9'-0" (274)	33'-10" (1031)	6'-10" (208)	25,000 (11338)
						SCF6-7200	38'-6" (1173)	9'-0" (274)	36'-4" (1107)	6'-10" (208)	26,000 (11791)
						SCF6-7600	41'-0" (1250)	9'-0" (274)	38'-10" (1184)	6'-10" (208)	28,000 (12698)

† Other filter sizes are available on a custom basis.

Specifications subject to change without notice.

# FLATBED VACUUM FILTER (SCF)