

MODEL DF-1.5



MODEL DF-11

AUTOMATIC DISPOSABLE FABRIC FILTRATION SYSTEMS FOR:

**PHOSPHATING / PARTS WASHERS
MACHINE TOOL COOLANTS
INDUSTRIAL WASTE WATER
PROCESS OR COOLING WATER
WATER WALL SPRAY BOOTHS
TREATED PLATING WASTE**

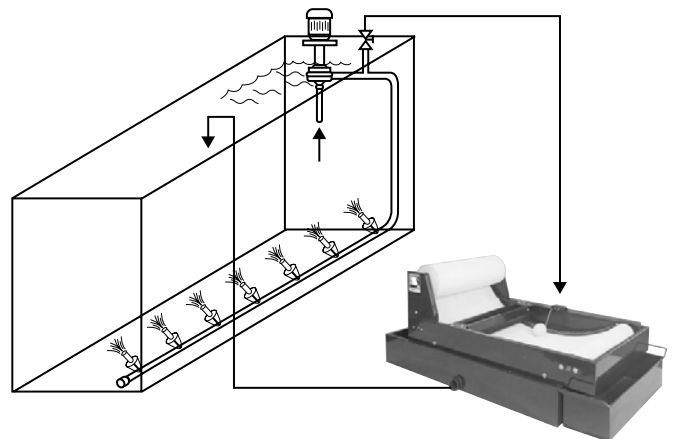
- **Unattended operation**
Automatically indexing media allows continuous filtration, even with varying input or solids content.
- **Choice of materials**
Carbon steel, 316 stainless steel, CPVC or polypropylene
- **Sizes for any application**
From 1.5 to 113 sq. ft. of filter surface area
- **Low operating cost**

SYSTEM OPERATION

This system is totally automatic and responds to wide variations in flow rate and solids concentration. Pump the contaminated solution to the diffuser tray which distributes flow across the full width of the filter bed. Particle separation starts immediately via gravity flow through the media to the clean reservoir below the conveyor frame. Filtered solution can then gravity drain to waste or be returned to the process via a pump.

Gravity flow allows gentle accumulation and settling of solids on the filter fabric. The concave configuration of the media bed accommodates the flow rate and maximizes solids loading on the fabric. As the media gradually becomes laden with solids, the solution level will slowly rise until the float switch activates the conveyer drive motor. Consumed fabric is advanced to the sludge box as fresh media is simultaneously indexed to the solution flow.

TYPICAL INSTALLATION



SERIES 'DF' FILTRATION SYSTEMS

SPECIFICATIONS

SERIES S

CARBON STEEL reservoir, frame, shafts, bearings and sprockets. Models 1.5 to 11 feature a 316 stainless steel conveyor belt. Larger models have galvanized belt with optional 304 or 316 stainless steel belt. Units are coated with corrosion resistant 2-part epoxy paint.

SERIES SS

316 STAINLESS STEEL reservoir, frame, shafts, bearings, sprockets and conveyor belt. Non-wetted surfaces such as fabric bracket, motor bracket and gear reducer are carbon steel.

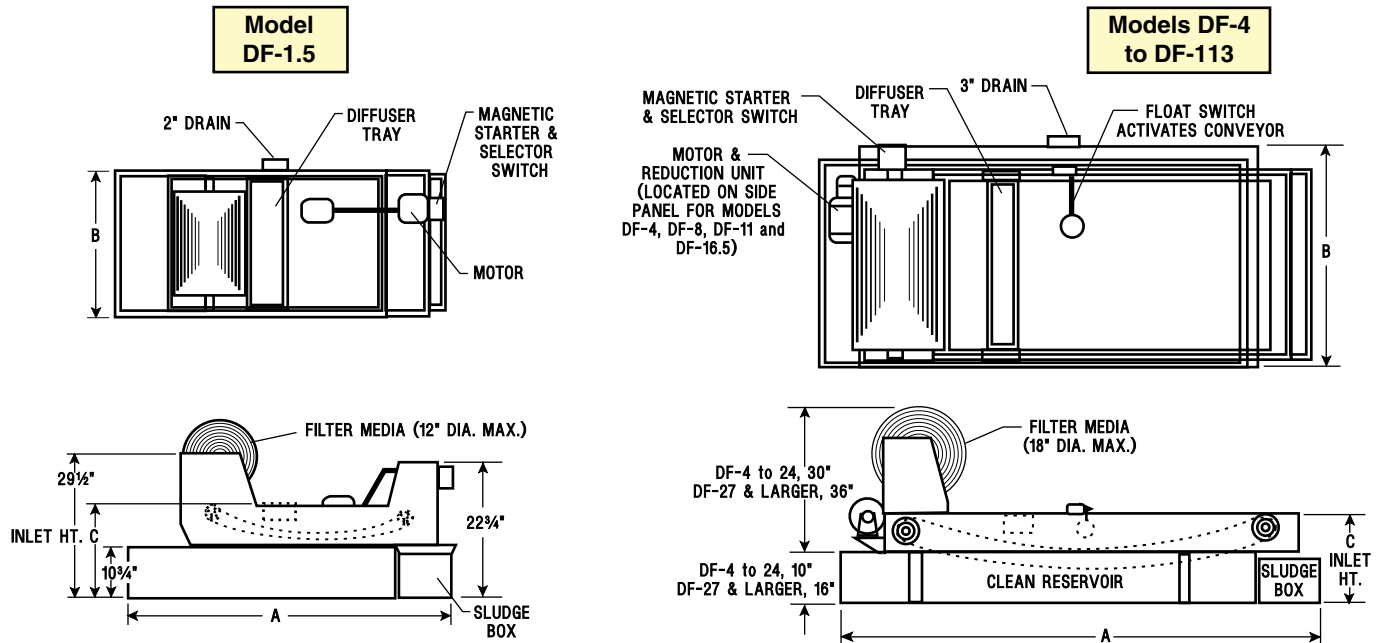
SERIES CPP

CPVC frame, polypropylene reservoir, conveyor belt and sprockets, Delrin® bearings, HDPE sludge box. PVC shafts on Model 1.5, 316 stainless steel shafts on Models 4 and larger.

SERIES PP

POLYPROPYLENE reservoir, frame, sprockets and conveyor belt. Delrin® bearings, PVC shaft, HDPE sludge box. Available in 1.5 size only.

All units include: float switch, sludge box (HDPE on Models 1.5 and 4), a filtrate reservoir which serves as a support for mounting the conveyor frame, drain, single phase drive motor and starter. Standard edge seals are PVC, 140°F maximum. EPDM and silicon rubber edge seals are optional. Order filter media separately.



FILTER MODEL	FILTER AREA SQ. FT.	TANK CAPACITY GAL.	115V/1/60 DRIVE MOTOR HP	OVERALL DIMENSIONS (INCHES)			INLET HEIGHT (INCHES)	MEDIA WIDTH IN.	APPROX. SHIPPING WEIGHT LBS.	FABRIC MICRON RATING				
				LENGTH A	WIDTH B	HEIGHT				GPM FLOW RATE				
										5	10	25	40	80
DF-1.5	1.5	20	1/15	55	21.5	35.5	17	13	225	2	3	4	6	9
DF-4	4	49	1/3	75	28	40	19	16.5	320	5	6	10	14	23
DF-8	8	90	1/3	71	50	40	19	33	580	10	12	20	28	45
DF-11	11	115	1/3	90	50	40	19	33	760	14	17	28	39	62
DF-15	15	130	1/3	98	44	40	18	33	940	19	23	38	53	85
DF-16.5	16.5	160	1/3	90	67	40	19	50	1025	20	25	42	58	93
DF-19	19	160	1/3	89	62	40	18	50	1025	24	29	48	67	108
DF-24	24	200	1/3	104	62	40	18	50	1420	30	36	60	84	136
DF-27	27	400	1/2	136	68	52	30	50	2400	34	41	68	95	153
DF-29	29	500	1/2	162	68	52	30	50	3110	36	44	73	102	164
DF-40	40	600	1/2	194	68	52	30	50	3750	50	60	100	140	226
DF-57	57	900	3/4	259	68	52	30	50	5250	71	80	143	200	323
DF-96	96	1370	3/4	380	68	52	30	50	7700	120	144	240	336	544
DF-113	113	1575	1	427	68	52	30	50	8655	142	160	286	400	646

SERIES 'DF' FILTRATION SYSTEMS

TO ORDER, use Price Code Number

FILTER AREA (SQUARE FEET)	SERIES S		SERIES SS		SERIES CPP		SERIES PP	
	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
1.5	DFS-1.5-S	49-1414	DFS-1.5-SS	49-1413A	DFS-1.5-CPP	49-1139	DFS-1.5-PP	49-1415
4	DFS-4-S	49-1000	DFS-4-SS	49-1038A	DFS-4-CPP	49-0059	—	—
8	DFS-8-S	49-1003	DFS-8-SS	49-1040A	DFS-8-CPP	49-0060	—	—
11	DFS-11-S	49-1006	DFS-11-SS	49-1042A	DFS-11-CPP	49-0061	—	—
15	—	—	—	—	DF-15-CPP	49-0062	—	—
16.5	DFS-16.5-S	49-1007	DFS-16.5-SS	49-1043A	—	—	—	—
19	DFS-19-S	49-0015	DF-19-SS	49-0048A	DF-19-CPP	49-0064	—	—
24	DF-24-S	49-0018	DF-24-SS	49-0050A	DF-24-CPP	49-0065	—	—
27	DF-27-S	49-0021	DF-27-SS	49-0052A	DF-27-CPP	49-0066	—	—
29	DF-29-S	49-0024	DF-29-SS	49-0054A	DF-29-CPP	49-0067	—	—
40	DF-40-S	49-0027	DF-40-SS	49-0056A	DF-40-CPP	49-0068	—	—
57	DF-57-S	49-0030	DF-57-SS	49-0058A	DF-57-CPP	49-0069	—	—
96	DF-96-S	49-0074	—	—	—	—	—	—
113	DF-113-S	49-0075	—	—	—	—	—	—

ORDER DISPOSA-FABRIC MEDIA SEPARATELY, use Price Code No.

RAYON / POLYESTER BLEND	MODEL NO. *	MICRON	-13" WIDTH*			-16 1/2" WIDTH* (LOTS OF 2 ONLY)			-33" WIDTH			-50" WIDTH*		
			YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)	YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)	YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)	YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)
COARSE	SF-W125	125	100	49-0257 1B	2	500	49-0090 1B	11.5	500	49-0091 1B	23	500	49-0092-1B	35
	SF-W105	105	100	49-0258 1B	2	500	49-0093 1B	11.5	500	49-0094 1B	23	500	49-0095-1B	35
	SF-W090	90	100	49-0259 1B	2	500	49-0165 1B	12.0	500	49-0166 1B	23	500	49-0167-1B	35
	SF-W080	80	100	49-0260 B	2	500	49-0099 B	9.0	500	49-0100 B	18	500	49-0101 B	27
	SF-W055	55	100	49-0262 B	2	500	49-0105 B	10.5	500	49-0106 B	21	500	49-0107 B	32
MEDIUM	SF-W040	40	100	49-0263 B	2	500	49-0108 B	12.0	500	49-0109 B	24	500	49-0110 B	36
	SF-W025	25	100	49-0264 B	2	500	49-0111 B	14.5	500	49-0112 B	29	500	49-0113 B	44
	SF-W020	20	100	49-0265 B	2	500	49-0070 B	18.0	500	49-0071 B	36	500	49-0072 B	55
FINE	SF-W010	10	50	49-0266 B	2	200	49-0114 B	14.0	200	49-0115 B	28	200	49-0116 B	43
	SF-W005	5	50	49-0267 B	2	200	49-0117 B	17.5	200	49-0118 B	35	200	49-0119 B	53
	SF-W001	1	50	49-0268 B	2	200	49-0120 B	27.5	200	49-0121 B	55	200	49-0122 B	84
POLYPRO	SF-P080	80	100	49-0260 BPP	2	500	49-0099 BPP	9.0	500	49-0100 BPP	18	500	49-0101 BPP	27
	SF-P055	55	100	49-0262 BPP	2	500	49-0105 BPP	10.5	500	49-0106 BPP	21	500	49-0107 BPP	32
	SF-P040	40	100	49-0263 BPP	2	500	49-0108 BPP	12.0	500	49-0109 BPP	24	500	49-0110 BPP	36
	SF-P025	25	100	49-0264 BPP	2	500	49-0111 BPP	14.5	500	49-0112 BPP	29	500	49-0113 BPP	44
	SF-P020	20	100	49-0265 BPP	2	500	49-0070 BPP	18.0	500	49-0071 BPP	36	500	49-0072 BPP	55

* Add width to Model No. - **Example:** SF-W125-13" See Flow Rate Chart and Micron Selection Guide on page 4.

OPTIONAL EQUIPMENT

DESCRIPTION	PRICE CODE NO.
FLOAT ACTIVATED LEVEL CONTROL SWITCH FOR RESERVOIR PUMP NEMA 4. For single phase motors to 1 1/2 HP @ 115V or 2 HP @ 230VAC. Used as a pilot device on three phase magnetic motor starters. Complete with float ball and mounted in reservoir tank for pump-down operation. Separate motor starter is required for 3-phase motor (see below).	49-0162
RESERVOIR PUMP INSTALLATION AND WIRING	49-0173
MOTOR STARTER FOR RESERVOIR PUMP 3 phase with transformer and 24VAC control circuit 1 phase with transformer and 24VAC control circuit	O-MS3P-S O-MS1P-S
EDGE SEALS Models 1.5 - 8 Models 11 - 16.5	EPDM 200°F max. 49-0500 A 49-0651 A
	SILICON RUBBER 300°F max. 49-0500 B 49-0651 B
CONVEYOR BELTS For Series DF-19S through DF-113S (Standard belts are galvanized steel.) 304 stainless steel 316 stainless steel	ADD TO MODEL -304 -316
	ADD TO PRICE CODE NO. B C

See page 4 for reservoir pumps.

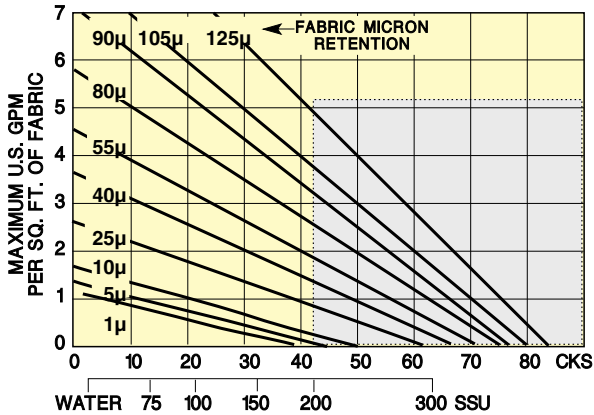
SERIES 'DF' FILTRATION SYSTEMS

RESERVOIR PUMPS (not installed)

FLOW		HORSEPOWER		CAST IRON		POLYPROPYLENE		CPVC	
GPM @ TDH (ft.)		CI	PP & CPVC	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
5	11	1/15	1/5	SCI 1.5	49-0149	E 3/4PP	45-0030A	E3/4C	45-0027 1A
15	11	1/4	—	SCI 4	49-0150	—	—	—	—
24	20	1/2	1/3	SCI 8	49-0151	EOPP1	39-1121 A	EOC1	39-1221 A
40	24	3/4	3/4	SCI 15	49-0153	EOPP3	39-1123 C	EOC3	39-1223 C
75	20	2	2	SCI 24	49-0156	EOPP4	39-2124 J	EOC4	39-2224 J
115	35	2	2	SCI 29	49-0158 A	EHP2	45-0623	EHC2	45-0123
145	25	3	5	SCI 40	49-0159	EHP5	45-0645	EHC5	45-0145
200	35	5	7 - 1/2	SCI 57	49-0160 A	—	—	EHM2	45-1211

NOTE: 1/15 HP to 3/4 HP motors are 1 phase, 1 HP and up are 3 phase. 3 phase motors require a separate motor starter.

FLOW RATE



FABRIC SELECTION

APPLICATION		MICRON SELECTION GUIDE												
		125	105	90	80	55	40	25	10	5	1			
WATER SOLUTIONS	Paint spray booth - water	•	•	•	•	•	•	•	•	•	•	•	•	•
	Zinc & iron phosphating	•	•	•	•	•	•	•	•	•	•	•	•	•
	Caustic washing solutions	•	•	•	•	•	•	•	•	•	•	•	•	•
	Waste treat - metal hydroxide	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - steel	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - cast iron	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - aluminum	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - carbide	•	•	•	•	•	•	•	•	•	•	•	•	•
	Belt grinding - steel	•	•	•	•	•	•	•	•	•	•	•	•	•
	Belt grinding - zinc	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - hard plastics	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - soft plastics	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - steel roll	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - brass	•	•	•	•	•	•	•	•	•	•	•	•	•
OIL 100-150	Grinding - bronze	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - aluminum	•	•	•	•	•	•	•	•	•	•	•	•	•
	Lapping (Oil 30 - 100)	•	•	•	•	•	•	•	•	•	•	•	•	•
	Honing (Oil 20 - 100)	•	•	•	•	•	•	•	•	•	•	•	•	•
OIL 150-250	Quenching	•	•	•	•	•	•	•	•	•	•	•	•	•
	Grinding - aluminum	•	•	•	•	•	•	•	•	•	•	•	•	•
	Belt grinding - steel	•	•	•	•	•	•	•	•	•	•	•	•	•
	Belt polishing - zinc copper	•	•	•	•	•	•	•	•	•	•	•	•	•
SYNTHETIC	Belt grinding - steel	•	•	•	•	•	•	•	•	•	•	•	•	•
	Thread grinding - steel	•	•	•	•	•	•	•	•	•	•	•	•	•
SYNTHETIC	Flute - tap die grinding	•	•	•	•	•	•	•	•	•	•	•	•	•
	Crush & form grinding	•	•	•	•	•	•	•	•	•	•	•	•	•
Machine tool turning/milling	•	•	•	•	•	•	•	•	•	•	•	•	•	•

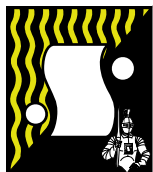
SIZING INSTRUCTIONS:

1. Select the desired micron retention fabric from the chart above.
2. Using the Flow Rate chart on the preceding page, determine the flow per square foot for the selected viscosity and fabric.
3. Divide the total flow (GPM) you desire by the number obtained in step 2. The resultant is the size, in square feet of filter area your Automatic Fabric Filter should have.

Specifications subject to change without notice.

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