

**STERLING COMMERCIAL/INDUSTRIAL IRON REMOVAL SYSTEMS**

**SERVICE AND BACKWASH FLOW RATES**

MODEL	SURFACE AREA (SQ. FT.)		BACKWASH FLOW RATE (GPM)	MIN. ** RECC. PRESS TANK	SERVICE FLOW RATES (GPM)			
	TANK	SYSTEM			@ GPM/SQ.	FT.	SYSTEM	AREA
					3*	5	7	10
FBW3001	1.07	1.07	9	42	3	5	7	11
FBW4001	1.40	1.40	10	42	4	7	10	14
DFBW4001	1.40	2.79	10	42	8	14	20	28
FBW4000HF	1.40	1.40	10	42	4	7	10	14
DFBW4000HF	1.40	2.79	10	42	8	14	20	28
FBW-316	1.40	4.19	10	82	13	21	29	42
FBW-416	1.40	5.59	10	82	17	28	39	56
FBW-516	1.40	6.98	10	120	21	35	49	70
FBW-321	2.41	7.22	25	120	22	36	51	72
FBW-421	2.41	9.62	25	180	29	48	67	96
FBW-521	2.41	12.03	25	180	36	60	84	120
FBW-324	3.14	9.42	30	180	28	47	66	94
FBW-424	3.14	12.57	30	180	38	63	88	126
FBW-524	3.14	15.71	30	270	47	79	110	157
FBW-330	4.91	14.73	40	270	44	74	103	147
FBW-430	4.91	19.63	40	270	59	98	137	196
FBW-530	4.91	24.54	40	470	74	123	172	245
FBW-336	7.07	21.21	70	470	64	106	148	212
FBW-436	7.07	28.27	70	470	85	141	198	283
FBW-536	7.07	35.34	70	750	106	177	247	353
FBW-348	12.57	37.70	125	750	113	188	264	377
FBW-448	12.57	50.27	125	750	151	251	352	503
FBW-548	12.57	62.83	125	1100	188	314	440	628
FBW-360	19.63	58.90	190	1100	177	295	412	589
FBW-460	19.63	78.54	190	1500	236	393	550	785
FBW-560	19.63	98.17	190	1500	295	491	687	982
FBW-372	28.27	84.82	275	1500	254	424	594	848
FBW-472	28.27	113.10	275	2000	339	565	792	1131
FBW-572	28.27	141.37	275	2500	424	707	990	1414
FBW-384	38.48	115.45	350	2500	346	577	808	1155
FBW-484	38.48	153.94	350	2500	462	770	1078	1539
FBW-584	38.48	192.42	350	3000	577	962	1347	1924
FBW-396	50.27	150.80	500	2500	452	754	1056	1508
FBW-496	50.27	201.06	500	3000	603	1005	1407	2011
FBW-596	50.27	251.33	500	4000	754	1257	1759	2513

\*For community water systems and continuous flow applications  
 \*\* Approximately 5 times the continuous flow rate for system (gals)

## BACKWASH RATE MEDIA/TANK SIZE

PRODUCT Wt/Ft <sup>3</sup>	ARIDZONE 50/52	BIRM* 47/50	CARBON* 26/30	COROSEX 90	FILTER AG* 24/26	GREENSAND 85	HI-CAP 53	IRONSORB 50/52	SAND 100	Ft <sup>3</sup> Multiplier
BWR-Ft <sup>3</sup>	5	10	8/10	10	8/10	10	4.5	8	10	
TANK DIA										
7"	1.5	2.3	2.4	2.4	2.4	2.4	1.2	2.0	2.4	0.27
8"	2.0	3.5	3.5	3.5	3.5	3.5	1.5	3.0	3.5	0.35
9"	2.4	4	4	4	4	4	2.0	3.5	4	0.44
10"	3	5	5	5	5	5	2.5	4.0	5	0.54
12"	4	7	7	7	7	7	3.5	5	7	0.78
13"	5	8	8	8	8	8	4	7	8	0.89
14"	6	9	9	9	9	9	5	8	9	1.0
16"	7	10	10	10	10	10	7	9	10	1.4
18"	9	15	15	15	15	15	8	12	15	1.8
21"	12	25	25	26	26	26	12	15	26	2.6
24"	15	35	35	35	35	35	15	25	35	3.1
30"	25	40	40	40	40	40	25	36	40	4.9
36"	35	70	70	70	70	70	35	55	70	7.0
42"	40	90	90	90	90	90	40	75	90	9.6
48"	50	125	125	125	125	125	55	100	125	12.5
54"	60	150	150	150	150	150	70	125	150	15.9
60"	100	190	190	190	190	190	85	150	190	19.6
72"	140	275	275	275	275	275	125	225	275	28.3
84"	190	350	350	350	350	350	175	300	350	38.5
96"	250	500	500	500	500	500	225	400	500	50.3

Media must be saturated before subjecting it to backwash rates specified. Until saturation take place (approx. 2 hrs.) inlet valve must be throttled to restrict BWFR approx. 50%, less at low temperature.

## WATER CONDITIONER CONTROL INFORMATION

RESIN TANK DIAMETER (INCHES)	BACKWASH* RATE (GPM)	INJECTOR SIZE/COLOR	SLOW RINSE** RATE (GPM)	BRINE DRAW & SLOW RINSE TIME (MINUTES) (SUGGESTED)
6	1.2	0 (RED)	0.26	45
7	1.2	0 (RED)	0.26	45
8	1.5	1 (WHITE)	0.33	45
9	2.0	1 (WHITE)	0.33	60
10	2.5	1 (WHITE)	0.33	60
12	3.5	2 (BLUE)	0.64	60
14	5.0	3 (YELLOW)	0.89	60
16	7.0	3 (YELLOW)	0.89	70
20	10.0	4 (GREEN)	1.6	100
24	15.0	4 (GREEN)	1.6	120
30	25.0	5 (WHITE)	2.9	110
36	35.0	6 (WHITE)	3.5	120
40	45.0	7 (WHITE)	5.6	110
48	60.0	7 (WHITE)	5.6	120

\*WITH 50% FREEBOARD

\*\*AT 40 PSIG INLET PRESSURE

# STERLING

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## WATER TREATMENT

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