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Installation and Operating Instructions for Clearwater Self-Cleaning Suction Screen

1. Before installing a CW Screen, check pumping system's pressure. If pumping with very low pressure, a booster pump may be required. Booster pump not supplied by Clemons. Consult specifications in CW brochure for recommended operation pressure. Higher pressure may be required for certain applications. Consult our factory.
2. Do not install a backwash line smaller than 1-1/2". If your CW Screen will be located more than 100 feet from the pump a somewhat larger line may be necessary to overcome friction loss.
3. Check your CW specifications to be sure you don't exceed CW's maximum flow range. Flow may be less with some applications with excessive debris. For fisheries consult our factory.
4. Thoroughly flush the backwash line before attaching it to your CW screen. Failure to do this could result in plugging spray jets inside the screen.
5. Your CW Screen should not be located any closer than 6 inches from any object.
6. Install your CW Screen's flanged outlet to pump's suction/inlet pipe. If other adapter is desired instead of flange, please contact the factory. Plumb the backwash line into your pump's discharge pipe. It is not recommended to use the threaded plug holes in the pump case because there may not be enough pressure or water volume to operate the screen.
7. Backwash line should be plumbed ahead of the main line's butterfly valve. The butterfly can be partially closed to create sufficient back pressure during start-up.
8. These items are to be installed on the backwash line (starting from the pump discharge to the CW screen) in the following order: One properly sized gate or ball valve (at least 1-1/2" or larger), One inline 18 Mesh strainer (at least 1-1/2" or larger) and one pressure gauge (liquid filled recommended).
9. If necessary, access to the internal parts of your CW Screen is very simple. Three bolts remove the entire screened area for complete access to all internal parts. Special access plate available upon request.
10. Your CW Screen does not need more than 7 inches of submergence because the self-cleaning action breaks up any vortex that might form.

Over

11. Your CW Screen, with internal rotation spray bars, lets you avoid complicated set-ups. Your CW Screen is rugged steel galvanized or epoxy coated body with heavy gauge stainless steel mesh screen. The CW Screen is versatile and affordable for self cleaning pump suction applications.
12. Some extreme applications could be too harsh for the Clearwater screens to operate properly. For extreme moss or dairy applications consult the factory.

SPECIFICATIONS

Model	Flow		Screen Length	Total Length	Diameter	Flange Size	Return Inlet	Operate Pressure	Weight Lbs.	GPM Used To Operate	Fish Screen Max GPM For .4ft Per Sec
	U.S. GPM 12/18m	30M									
CW200	325	225	11"	25"	16"	4"	1-1/2"	40-60	58	20	355
CW400	550	400	15"	28.8"	16"	6"	1-1/2"	40-60	62	20	485
CW600	750	525	16"	32.5"	24"	8"	1-1/2"	40-60	102	20	775
CW800	950	700	18"	34.5"	24"	10"	1-1/2"	40-60	115	20	875
CW1000	1350	950	23"	39.5"	24"	10"	1-1/2"	40-60	123	28	1115
CW1400	1550	1075	26"	42.5"	24"	12"	1-1/2"	40-60	131	28	1265
CW1700	1800	1250	28"	44.5"	26"	12"	1-1/2"	40-60	148	28	1475
CW2000	2100	1450	32"	48.5"	26"	14"	1-1/2"	40-60	160	36	1685
CW2400	2600	1800	35"	52.5"	30"	16"	1-1/2"	40-65	223	36	2125
CW3000	3000	2075	40"	57.5"	30"	16"	1-1/2"	40-65	236	44	2430
CW3500	3500	2420	40"	59.5"	36"	18"	1-1/2"	40-65	283	44	2750
CW4000	4000	2765	40"	63.5"	42"	18"	1-1/2"	40-65	358	44	3150

METRIC SPECIFICATIONS

Model	Flow		Screen Length MM	Total Length MM	Diameter MM	Flange Size MM	Return Inlet MM	Min. Operate Pressure Bars	Weight KG	Flow M3/Hour Used To Oper.
	M3/Hour 12/18m	30M								
CW200	74	51	279	635	406	102	38	2.4	27	4.5
CW400	125	91	381	732	406	152	38	2.7	29	4.5
CW600	170	120	406	826	609	203	38	2.7	47	4.5
CW800	216	160	457	876	609	254	38	3.1	53	4.5
CW1000	307	216	584	1003	609	254	38	3.4	56	6.4
CW1400	352	247	660	1080	609	305	38	3.8	60	6.4
CW1700	409	288	711	1130	660	305	38	3.8	68	6.4
CW2000	477	336	813	1232	660	356	38	4.1	73	8.2
CW2400	591	409	889	1334	762	406	38	4.5	102	8.2
CW3000	682	480	1016	1461	762	406	38	4.5	105	10.0
CW3500	795	550	1016	1511	915	457	38	4.5	127	10.0
CW4000	909	628	1016	1613	1067	457	38	4.5	160	10.0