

Self-Cleaning Suction Screen



Self-Cleaning Suction Screen Specifications

If you irrigate, you know how important it is to keep your equipment running smoothly and water flowing freely. Whether you are pumping water from a waste treatment facility, manure lagoon, stream, canal, river, irrigation ditch, pit or sump, or a golf course pond, you need the water to be free of trash and debris that could block water flow and damage the pump or clog water-distribution equipment.

The Clearwater Self-Cleaning Suction Screen is galvanized or epoxy coated and utilizes a heavy 10, 18, or 30 mesh stainless steel screen designed to increase pump efficiency. The screen continuously removes trash and debris from irrigation water that costs time and money in fuel, pumping efficiency and maintenance costs. And it can be used for agricultural, turf, industrial, centrifugal or turbine pump applications.

The suction screen is attached to the end of the pump in the water source. All water pulled in must go through the screen before entering the intake pipe. The screen stops trash and debris from entering, plugging lines and causing costly maintenance repairs. The pump discharge return line drives two spray bars that continually rotate, jet water at the screen and blast debris away from the screen at 40 to 65 PSI Operating Range.

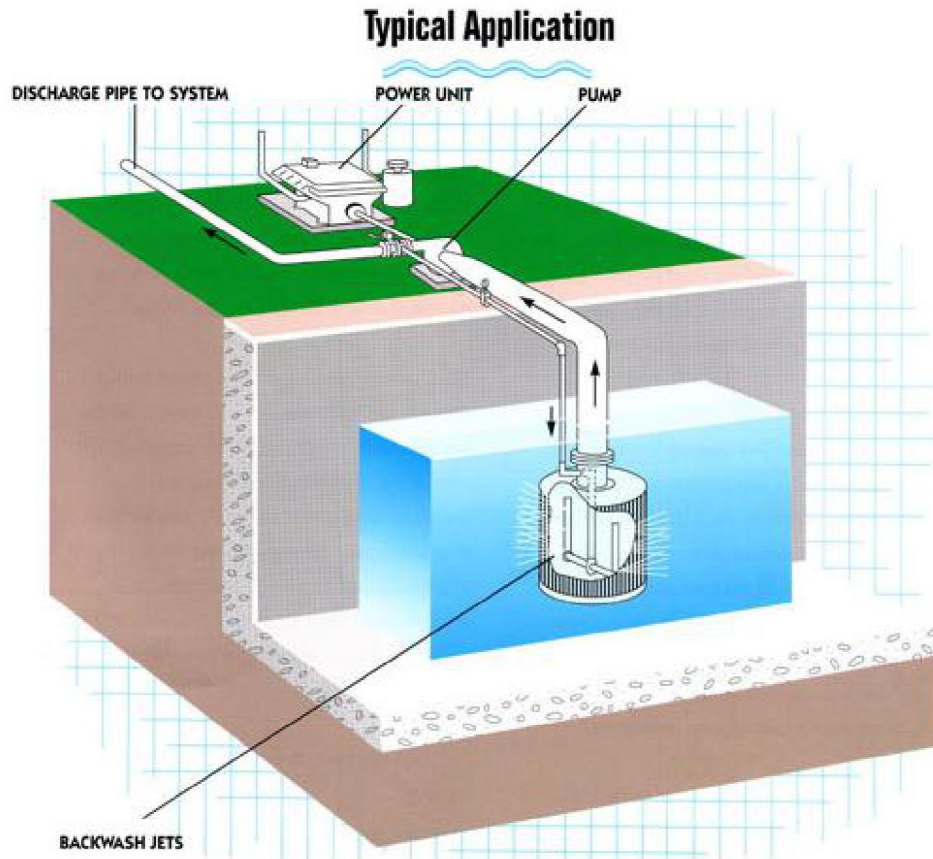
The Clearwater screen - has no exterior moving parts that can break down or need repair. It can be installed at any attitude without the operation being affected and is uncollapsible and corrosion resistant. It also has a standard flanged connection, and other connections are available upon request. The Y Strainer or Mini Filter - an essential extra - provides easy access for cleaning and prevents the supply line to the screen and the spray nozzle from plugging.

Let Clearwater clear your water for worry-free irrigating!

Model	Flow U.S. GPM 10/18m	30M	Screen Length	Total Length	Diameter	Flange Size	Return Inlet	Operate. Pressure	Weight Lbs.	GPM Used To Operate
CW200	325	225	11"	25"	16"	4"	1 1/2"	40-65	58	20
CW400	550	400	15"	28.8"	16"	6"	1 1/2"	40-65	62	20
CW600	750	525	16"	32.5"	24"	8"	1 1/2"	45-65	102	20
CW800	950	700	18"	34.5"	24"	10"	1 1/2"	45-65	115	20
CW1000	1350	950	23"	39.5"	24"	10"	1 1/2"	45-65	123	28
CW1400	1650	1200	26"	42.5"	24"	12"	1 1/2"	45-65	131	28
CW1700	1950	1400	28"	44.5"	26"	12"	1 1/2"	50-65	148	28
CW2000	2350	1650	32"	48.5"	26"	14"	1 1/2"	50-65	160	36
CW2400	2600	1800	35"	52.5"	30"	16"	1 1/2"	50-65	223	36

SPECIFICATIONS

Self-Cleaning Suction Screen Typical Applications



METRIC SPECIFICATIONS

Model	Flow M ³ /Hour		Screen Length MM	Total Length MM	Diameter MM	Flange Size MM	Return Inlet MM	Min. Operate Pressure Bars	Weight KG	Flow M ³ /Hour Used to Oper.
	10/18M	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	375	273	660	1080	609	305	38	3.8	60	6.4
CW1700	444	319	711	1130	660	305	38	3.8	68	6.4
CW2000	534	375	813	1232	660	356	38	4.1	73	8.2
CW2400	591	409	889	1334	762	406	38	4.5	102	8.2

"We won't sell it if we can't guarantee it!"

Installation and Operating Instructions for Clearwater Self-Cleaning Suction Screen

1. Before installing a CW Screen, check pumping systems pressure. If pumping with very low pressure, a booster pump may be required. Consult specifications in CW brochure for recommended operation pressure. Your CW screen will operate at pressures less than the recommended operating pressures, the cleaning action isn't as strong under low pressures. Notify factory of low pressure so we can modify spray arms.
2. Do not install a back wash 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 by very much the CW's maximum flow range.
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 to 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 pumps discharge pipe. It is not recommended to use the threaded plug holes in the pump case because at that point 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. Install on the backwash line these items in order from the pump discharge pipe. One properly-sized gate or ball valve (if pressure exceeds 100 P.S.I. we recommend a pressure regulator) one in-line 8 mesh strainer and one pressure gauge.
9. If it should become necessary to access the internal parts of your CW screen, it's very simple. Four 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.
11. Your CW screen with internal rotating spray bars lets you avoid complicated set-ups. Your CW screen is a 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.



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