
WATER CLARIFICATION TANK

WATER CLARIFICATION TANK INCLUDES THE FOLLOWING:

A. Prefabricated Steel Water Recycling and Solid Separation tank with 15,000 gallon usable volume. The tank is constructed to be self-supporting consisting of ¼ inch channel frame and steel plate supported by an "I" beam base. Includes two (2) overflow weir walls to help increase the tanks effectiveness to settle out solids and automatic water level controls via a ball float valve (Note: 2" NPT fresh water connection).

B. One (1) 7.5 HP HOMA Heavy Duty, 7.5HP Submersible HOMA Pumps; Model No. AMX 434. The pump shall have a maximum capacity of 815 gallons per minute to help the water process and to empty the tank as needed. The pump includes a Factory Dynamically Balanced impeller as in accordance with the National Hydraulic Institute. Includes pump stand mounted in the recycling tank for support.

C. DUAL SCRAPER CONVEYOR for continual removal of solids from prefabricated tank. Each automated Scraper Conveyor will include paddles; motor; and discharge chute to allow the system to continually scrape the solids from the bottom of the tank, and dispose of the dewatered solids through the discharge chute. The two scraper conveyors are separated by a weir wall that runs horizontally from the pump chamber to the end of the tank to increase the detention and settling time.

D. DRY FLOCCULENT DISPENSER system that includes stainless steel auger dispenser, steel hopper, and cabinet capable of holding one hundred (100) pounds of dry flocculent. We offer a wide range of flocculants that can be used even in extreme temperatures; eliminate the need for an oil water separator, and help to remove trace metals, PCB's and Hydrocarbons from the water. The system will include 12 lbs of the selected flocculent for testing the system.

E. SETTLING TUBE INSERT consisting of isolated tubular channels, each sloped at 60°, to expand the settling capacity constructed of individual tubes rising in the same direction to eliminate mixing currents and unstable flow patterns.

F. MANUAL START CONTROL PANEL. Fiberglass Nema 4R box with manual start control mounted to tank for ease of operation.

G. ELECTRONIC TSS METER for continual monitoring of the level of solids in the tank prior to discharge. Manual valve will prevent the tank from accepting incoming water to allow the treated water to recirculate of the TSS levels are not acceptable for discharge.

H. TANK GRATING

Designed to cover an 8' x 10' section of the water recycling and solid separation tank consisting of 3/16" x 1 ½" x 3' grating with a load rating of 10.94 pounds per square foot, mounted above L ¼" x 2" x 2" flush with the top of the tank. The grating will be surrounded by MSHA approved handrail.

I. TANK STAIRS

Includes prefabricated stairs that will be placed at the end of the water recycling tank and will allow access to the top of the tank. The stairs will be surrounded by MSHA approved handrail.

J. UPGRADE TO 450LB. DRY FLOCCULENT HOPPER

The dry flocculent hopper will be equipped to handle 450 pounds of dry flocculent.

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DE-Feed Rates	Auger Diameter						
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
Polymonomer Seeding	10	.093	0.36	1.17	2.3	4.55	8
	20	0.186	0.72	2.34	4.6	9.11	16.1
	30	0.28	1.08	3.51	6.96	13.66	24.2
	40	0.373	1.44	4.68	9.29	18.22	32.3
	50	0.467	1.8	5.85	11.61	22.77	40.49
	60	0.56	2.16	7.02	13.93	27.33	48.5
	70	0.654	2.53	8.19	16.25	31.89	56.6
	80	0.747	2.89	9.36	18.57	36.44	64.7
	90	0.841	3.25	10.53	20.89	41	72.8
	100	0.934	3.61	11.71	23.22	45.55	80.9

**** Rates based on Product being 80 #/Cu. Ft.****

