

AutoTreat

Automatic Water Treatment Plant



About QUALICOM

Qualicom specializes in Environment Engineering and Water Resource Management.

For last more than 15 years, Qualicom has been innovating highly optimized solutions in Raw Water Treatment, Effluent Treatment, Sewage Treatment and Recycle and Zero Liquid Discharge to Industrial and Commercial Institutions, Defence Establishments, Municipalities and Urban communities.

Qualicom integrates extensive range of technologies with design, engineering and project management capabilities to offer end to end customized solutions to the industry.

The essence of research and development in Qualicom is to make the resource recyclable and to make the entire waste & water management scheme energy positive while optimizing both the capital and life cycle cost of the treatment schemes.

In Qualicom, we believe in building an environment of Sustainable and Inclusive growth.

PROCESS writeup

The system is designed for hassle free operation with automatic backwash & regeneration cycle with the help of pre-programmed logic controller. This feature improves cleaning & efficiency while reducing service frequency, water & salt consumption. Manual Intervention is very less. Skilled manpower is not required at all.

DMF & ACF

Backwash starts whenever differential pressure goes beyond 0.5 kg/cm² in filters & signal given to logic controller & after backwash unit goes into service mode on its own.

SOFTENER

Regeneration starts at the set programmed regeneration time and goes service mode automatically once the regeneration over.

FEED PUMP

Pump remains non-functional during regeneration & backwash mode with the help of a timer.

COMPRESSED AIR

As all valves are operated through pneumatic control a pressure of 4.5-5 Kg/cm² is required. Most of the process industries possess the compressor. Hence it is additionally not required. However for urban segment a compressor is also offered wherever it is required.

LOGIC CONTROLLER

The Logic controller, which may be set to trigger the cleaning cycle of Filters by pressure differential, operates pneumatic valves in the inlet which change the direction of water flow in the filter. This reverse flow initiates the self-cleaning process. Logic Controller also initiates the regeneration cycle within a pre-set time after desired output of soft water by controlling the pneumatic opening automatically. It also change the valve operation slow rinse and fast rinse and finally it again goes back to a new service cycle.



AUTOMATIC WATER TREATMENT PLANTS MOC - MSEP

ADVANTAGES

- Negligible manual intervention.
- Output water Quality is guaranteed.
- Back Wash & Regeneration Accuracy Increases, hence less break down.
- Tendency of Filter Choking is minimized.
- Increases The Life of the Media, Resin as well as the plant.
- Increases productivity of the process plant by reducing downtime.
- Gives an aesthetic pleasure.

Model AT Series	AT - 1.5	AT - 2.5	AT - 4	AT - 6	
Flow Rate (M3/HR)	1 - 1.5	2 - 2.5	3 - 4	5 - 6	
DIA	DMF + ACF				
	DMF	300	400	500	700
	ACF	400	500	600	700
	DMF + SOF				
	DMF	300	400	500	700
	SOF	400	500	600	750
	DMF + ACF + SOF				
	DMF	300	400	500	700
	ACF	400	500	600	700
	SOF	400	500	600	750

*Inlet Hardness considered at 200 ppm of raw water.

SPACE REQUIREMENT DIAGRAM

AT - DMF, ACF, SOF	A (MM)	B (MM)	C (MM)
AT - 60	4550	1200	2300
AT - 40	4550	1200	2300
AT - 25	4450	1050	2300
AT - 15	4450	1050	2300
AT - DMF, SOF	C (MM)	B(MM)	D(MM)
AT - 60	3200	1200	2300
AT - 40	3200	1200	2300
AT - 25	3050	1200	2300
AT - 15	3050	1200	2300
AT - DMF, ACF	C (MM)	B(MM)	D(MM)
AT - 60	3200	1200	2300
AT - 40	3200	1200	2300
AT - 25	3050	1200	2300
AT - 15	3050	1200	2300



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