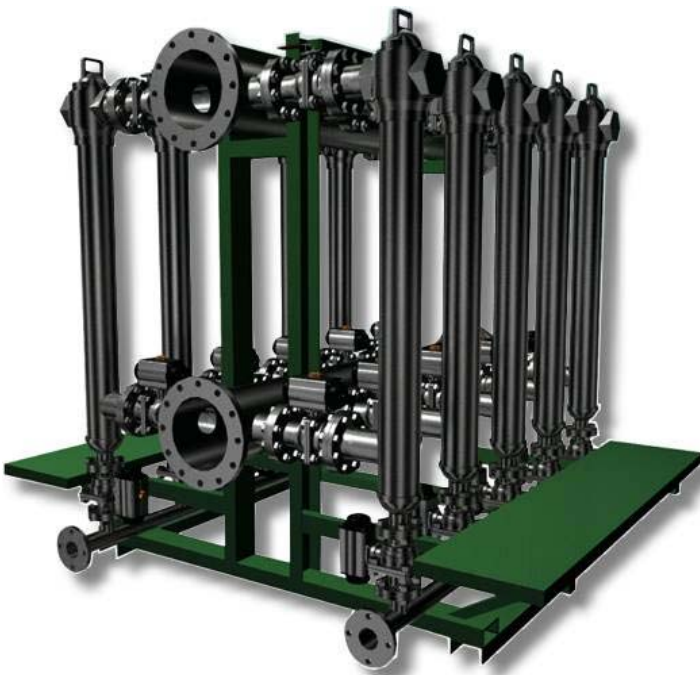




ACA - Assembly Filters Unit – Auto Type

Model *ACA*



Outline

Description:

Arcadia ACA model are design for completed automatic filters system.

Screen can get always good condition with internal back washing or option with external high pressure water source design to maintain the filters system can non-stop filtration during back washing and normal filtration.

Back washing process trigger by timer or different pressure switch control, and start to cleans the filters one by one.

Self maintain the filters system can always have clean screen and good filtration, no extra manpower and shutdown time will let you saving more operating cost.

Feature:

1. Automatic back washing:

Back washing trigger by timer and different pressure setting, any one conditions are true then start back washing and recount after washing.

2. Non-stop filtration when back washing

3. Easy to dismantle screen and maintenance is simple and convenient.

4. Control panel can be standard or PLC with or without interface design.

5. Completed offer according customer required like pressure, capacity, opening...

Working Principle:

From the picture, raw water from inlet header and separate to each filters, from screen outside to inside then go together to outlet header, this is normal filtration.

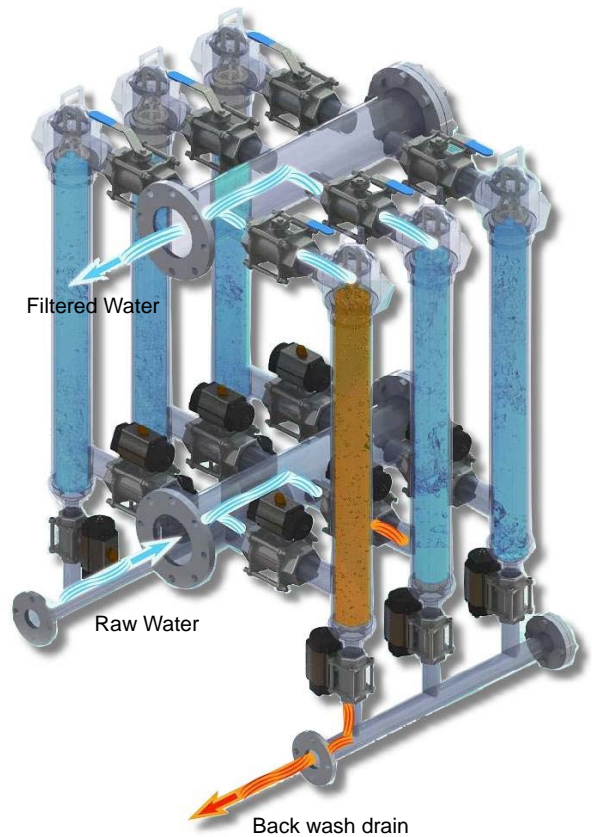
After operating that particle will stop in outside of screen and outlet filtered water flow rate and pressure will drop and increase the different pressure, once over timer or switch setting, system will start back washing and recount after washing process.

System have one stand-by filter and only working when back washing to offer enough water and pressure for back washing filter.

For back washing filter, inlet valve will close and drain valve will open, and water will reverse from screen inside to outside and with all the particles through drain valve blowoff.

After 3 ~ 5 seconds, valve will back to filtration position and change to next filter with same operating,

Until all the filters complete back washing operating then system will back to normal filtration condition.



Filtration and back washing

Recommend In-Outlet Sizes and flow rate:

In-Outlet Size	32	40	50	65	80	100	125	150	200	250	300
L / min	55	75	115	215	300	530	780	1130	1950	3035	4350

Based on flow speed = 1m/s

Single Filter Flowrate Table

Screen Size D x L	Screen Slot Opening (mm)											
	0.025	0.05	0.075	0.10	0.125	0.15	0.175	0.2	0.25	0.3	0.35	0.40
	450 mesh	300 mesh	200 mesh	150 mesh	120 mesh	100 mesh	80 mesh	75 mesh	60 mesh	50 mesh	45 mesh	40 mesh
D85x1000-A	145	290	422	554	677	792	924	1000	1221	1419	1584	1742
D85x1000-B	96	193	281	369	451	528	616	666	814	946	1056	1161
D85x1000-C	80	161	234	307	376	440	513	555	678	788	880	967

Fresh Water Flowrate = L/min

Order Code for Different Model:

ACA - 80 - 3 - 150 - A - 4

In-Outlet Sizes = 80A ←

No. of filters = 3 filters ←

Screen opening = 150 microns ←

Pressure Rating, A= 10 barG below ←

B= 10~30 barG

C = 30~50 barG

Material, 4 = SUS304 ←

6 = SUS316

7 = SUS316L

X = Other material

Note:

1. Screen length all fixed with length 1000mm, can be assign for different length once required.

