



SWT850 + Pre-R/O System

15µ Automatic SWT Filter w/
1µ ZPlex Cartridge Filter

Rev U2

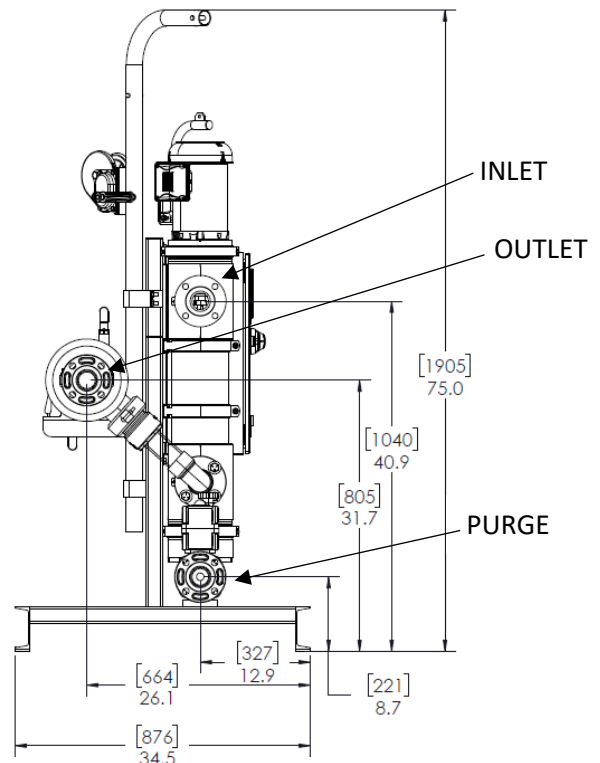
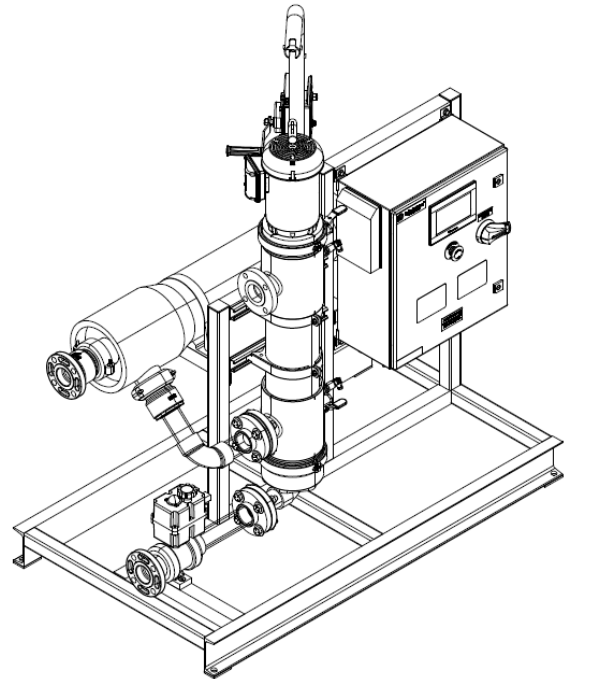
PRODUCT DESCRIPTION

On their own, microfilter cartridges are prone to clogging if exposed to unexpected high volumes of larger debris. The inclusion of the 15µ Automatic Spiral Water Model 850PVC Filter extends the life of the polishing 1µ ZPlex Cartridge which itself has 50x times the dirt holding capacity of a standard 40" 2.5 OD depth cartridge. This extended long life prefilter package has the unique added benefit that it manages upset conditions as high as 2000 ppm without operator assistance. As natural water TSS varies the Spiral Water 15µ filter automatically removes 15µ+ particles whether it sees 100 ppm or 3000 ppm.

With a robust yet simple to use control interface, the Spiral Water Filter can detect sudden upsets in process flow and expel the debris through the automated purge line. This allows the Spiral Water Filter to maintain continuous filtration of the influent stream without the need for operator intervention or cleaning, thus reducing downtime.

APPLICATIONS

Water Treatment, Automotive
Manufacturing, Pharmaceutical Production,
Electronics Manufacturing



TECHNICAL SPECIFICATION

Inlet:	2" #150 Flange
Filtrate Outlet:	2" #150 Flange
Purge Outlet:	2" #150 Flange
Max Flow:	10 – 50 gpm
Filtration Rating:	15 micron
Max TSS:	2,000+ ppm
Max Operating Pres:	6.9 bar (100 psi) @70°F
Min Operating Pres:	0.2 bar (10 psi)
Materials:	Frame – Epoxy Coated Carbon Steel Piping – Schedule 80 PVC SWT Automatic Filter – Schedule 80 PVC, Acetal Internal SWT Elements – 316SS ZPlex Cartridge Filter Housing – FRP ZPlex Filter Cartridges - Polypropylene Davit Arm – 304SS

ELECTRICAL SPECIFICATION

Enclosure:	NEMA/ uL Type 4, Powder Coated Carbon Steel
Power:	230/460VAC, 3Ø, 60 Hz, 15A/8A
SCCR:	100Ka

Spiral Waters controls system features constant monitoring of the automatic filters conditions, including differential pressure and motor current. The filter will constantly compare the DP and motor current against an operator defined setpoint and will open the purge valve on the filter in the event of a rise in DP or motor current. Additionally, the system can be set to purge regularly on a timer basis with operator defined durations and intervals. Depending on loading conditions, the system can be run in an intermittent mode. In the intermittent mode, the motor does not spin, allowing a cake layer to build on the inside surface of the filter element. Once the DP setpoint is reached, the purge valve will open and the motor will spin for a short time. The system will then close the valve and stop the motor. The controls can be incorporated into networked systems to allow for remote monitoring and start/stop control of the automatic filter.