RECOR® REACTOR PAK
Reticulated Electro-Catalytic Oxidation/Reduction Pak®

Operation and Maintenance
Manual
RECOR® REACTOR PAK™

Non-Chemical Water Treatment Unit       Model # 807 Alpha

**Unit Weight:** Dry 195 lbs. Wet 250 lbs.
**Shipping Weight:** 300 lbs.
**Unit Dimensions: Length** 74” Width 18” Height 34”
**Shipping Dimensions:** Length 80” Width 24” Height 34”
**Media:** Trinity 239 Electro-Catalytic Reactors™
**Disc Housing:** PVC Schedule 80 NSF
**Support Frame/Protective Carry Cage:** 6066 Aluminum
**Operating PSI:** 25 to 60 PSI - 100 PSI Max with Pre and Post Filters – 200 PSI Vessels
**Operating Temperature:** 35°F — 100°F
**Flow Rate:** Maximum 200 GPM; Minimum — 10 GPM
**pH Range:** 4.5 – 7.9
**TDS:** 0 - 1000 ppm
**Caution:** Refer to Pressure ratings above
**Caution:** Source water should have a pH of not higher than 7.9 or lower than 4.5.
**Caution:** RECOR PAK™ must be kept from freezing.
**Contaminants Removed or Reduced:** Free Chlorine, Hydrogen Sulfide, Iron, Certain Heavy Metals, Bacteriological/Algae; Biofilm
View-Flow in Pre-Filter Configuration
A pre-filter has been provided in the event that feed water sediment is high. Install View-Flow pre-filter at inlet side of RECOR® as shown in Figure 1. Sediment is quickly and easily removed by opening the ball valve at the bottom of the filter. View-Flow clear cover and element can be removed for cleaning. Do Not use tools to unscrew — hand tighten only.

View-Flow in Sample Test Port Configuration
Install View-Flow at the outlet of RECOR® tube #7 as shown in figure 2. View-Flow is located at the discharge point of RECOR®, between RECOR® and discharge hose. View-Flow can be installed in sample test port position or service position. To take sample, turn ball valve to open position, draw sample, close valve.

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Operating the RECOR®

Step 1
Activation
To activate the RECOR®, connect the View-Flow pre-filter and the View-Flow post-filter to the RECOR® system and reinstall the View-Flow support brackets and pins. Remove both elements from the clear housings. Replace the housings. Flush RECOR® with water for 15 minutes. Caution: depressurize RECOR® by opening valves on pre and post filters. Remove View-Flow clear housings and replace elements. RECOR® is now activated.

Step 2
Connect the inlet line to the pre-filter and the outlet or discharge line to the post-filter.
Caution: The RECOR® Model 807 Alpha is designed for pressure applications. Check ALL cam-locks and drain valves to ensure they are securely closed.

RECOR® is now ready for service operation.

Backwashing
Backwashing the RECOR® may become necessary if the feed water contains high levels of sediment and/or particulate matter. Sediment may become trapped in the reactors of the RECOR® and have an adverse effect on flow rate. To prevent this, the RECOR® s supplied with a 60 Micron View-Flow pre-filter, however particles smaller than 60 microns will get through the pre-filter system. Backwashing the RECOR® is accomplished by simply reversing the flow (Inlet-Outlet) thru the unit. Backwash the RECOR® until water runs clear.

Note: All View-Flow, flow meters, pre-filters, post filters and/or inline pressure relief valves must be removed from the unit prior to backwashing.

Step 1
Disconnect inlet hose and outlet hose to RECOR®. Caution: FOLLOW DEPRESSURIZATION PROCEDURE

Step 2
Remove flow meters, pre-filters, post-filters, pressure regulators etc., from the RECOR® Reactor vessels.

Step 3
Re-connect the RECOR® in reverse flow configuration; opposite of service flow by connecting the View-Flow pre-filter to the outlet of the RECOR®. Connect pump outlet hose to pre-filter and drain hose to RECOR® inlet. Caution: Check ALL cam-locks and drain valves to ensure they are securely closed.

Step 4
Flush RECOR® for 15 minutes or until water exiting the unit runs clear. Disconnect all hoses. Caution: FOLLOW DEPRESSURIZATION PROCEDURE.

Step 5
Re-connect all View-Flows to original configuration. Connect inlet and outlet hoses to service flow configuration. Caution: Check ALL cam-locks and drain valves to ensure they are securely closed.

Maintenance
1. Except for monitoring the removal/reduction of target contaminants, the RECOR® requires little or no maintenance provided operational procedures are followed.
2. Do not let RECOR® dry out. When disconnecting hose cap and plug pre and post filters to keep air from entering RECOR®. RECOR® can be drained of water, but RECOR® Reactors must be kept wet. Do not expose vessels to air. Always cap and plug vessels.
3. RECOR® questions call TECWAR™ in USA at 1-610-841-8370 or email tecwar@tacticalwater.com

Storage
1. The RECOR® must be stored wet.
2. The RECOR® and all accessories must not be allowed to freeze. Freezing will compromise the integrity of the RECOR® Reactor vessels.
3. Store away from heat and open flame.
4. Upon removal from storage, flush the unit for 15 minutes in both directions; service and backflow. RECOR® is ready for service.