

### STANDARD FEATURES:

- Skid Mounted Units With Flows up to 840 gpm
- All Stainless Steel Wetted Parts
- Welded Components Media Blasted and Passivated
- ASME Code Stainless Steel Vessel Designed for 100 psig
- Factory Assembled Schedule 40 Stainless Flanged and ASME Section IX Welded Valve Nest
- Stainless Hub and Wedge Wire Screened Lateral Underdrain
- NEMA 4XFG Electrical Enclosure
- Differential Pressure Switch
- Flow Sensor
- Automatic Fast Rinse and Backwash Flow Controller
- Separate Cold Water Connection for Regeneration Cycles
- High capacity, High Crosslinked Macroporous Cation Resin
- Stainless Steel Resin Trap
- Water Sample Cooler
- Manual Isolation Valves and Bypass Piping

### ADVANTAGES:

- Quick ROI by Reclaiming Waste Heat and Increasing Cycles
- Cold Water Regeneration Saves Heated Water
- Standard Designs Reduce Cost and Delivery Time
- Passivated Flanged and Welded Piping for Corrosion Resistance
- High Strength Resin Selected for Long Life

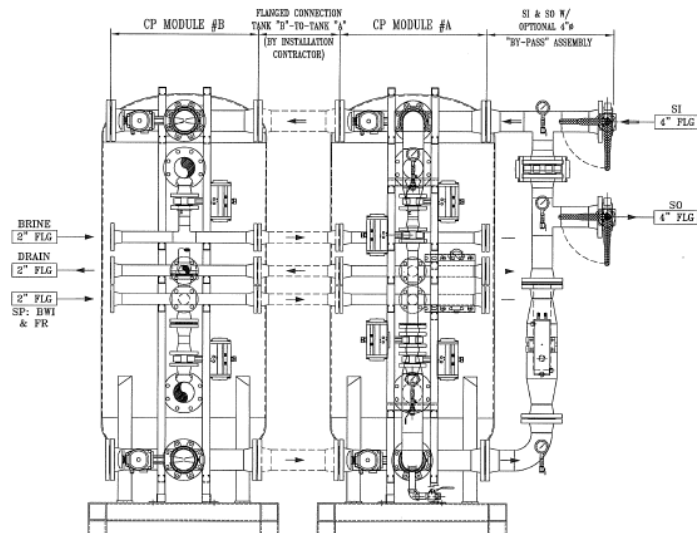
### OPTIONS:

- Pressure Relief Valve
- Allen Bradley PLC

**For Options Not Listed Here  
Please Contact Nalco Res-Kem**

Nalco Res-Kem Rental Sodium Cycle Condensate Polishers have modular designs which are pre-configured in single, double, triple and quadruple unit arrangements to treat condensate return for reuse as boiler feedwater. All wetted parts for Nalco Res-Kem Rental Condensate Polishers are 316 stainless steel. Single units are rated for flows up to 210 gpm. For larger flow rates, use multiple modules in parallel up to 840 gpm.

Economical and efficient, Nalco Res-Kem Condensate Polishers can be equipped for manual, semi-automatic or full-automatic operation. Regardless of configuration, only limited technical expertise is required for operation. Nalco Res-Kem Condensate Polishers will integrate into a complete water treatment system without expensive custom field engineering and programming.



### Why Treat Condensate

The power industry operates in an environment of increasingly stringent boiler feed water requirements. Couple this with exploding energy costs and one finds boiler blow down to be the least desirable way of maintaining proper boiler water quality.

As a cost effective alternative to boiler blow down one needs to look no further than simple sodium cycle condensate polishing. It's the smart choice when looking for a means to control corrosion transport and the ill effects of condenser in-leakage. Particularly pronounced are the operating savings realized relative to chemical and energy consumption. Relying on proven ion exchange technology condensate polishers are also simple to operate and maintain.

Let Nalco Res-Kem work up the actual savings available by polishing your dirty condensate. The payback is both swift and dramatic.

Model	Vessel Quantity & Diameter	Maximum Flow Rate	Resin Quantity	Capacity Range		Inlet/Outlet Pipe Sizes	Brine Tank Diameter x Height	Minimum Dimensions
Prefix	inches	gpm	cubic feet	grains		inches	inches	W x D x H inches
CPR-1	1 x 36	210	20	400,000	520,000	4	39x48	42X82X98
CPR-2	2 x 36	420	40	800,000	1,040,000	4	39x48	84X82X98
CPR-3	3 x 36	630	60	1,200,000	1,560,000	6	39x48	126X82X98
CPR-4	4 x 36	840	80	1,600,000	2,080,000	6	39x48	168X82X98

■ - Maximum Flow Rate based upon a flow rate of 30 gpm/sqft

§ - Minimum dimensions do not include the brine tank

Features	Standard	Optional
<b>System Design and Operation</b>		
Passivated Stainless Steel Pressure Tank with 60 " straight side	◆	
Vessel has 100 psig ASME Code Construction	◆	
Stainless Steel Hub and Lateral Underdrain	◆	
Passivated Stainless Steel Flanged and ASME Section IX Welded Face Piping	◆	
316 SS Disc and Stem Bray Butterfly Valves with Pneumatic Actuators	◆	
Automatic Fast Rinse and Backwash Flow Control	◆	
Automatic Brine Float Valve	◆	
Manual System Isolation Valves		◆
Raw Water Bypass		◆
Stainless Steel Resin Trap		◆
Welded Stainless Steel Inlet, Outlet, Brine & Drain Headers	◆	
Pressure Relief Valve		◆
Skid Assembly	◆	
<b>Instrumentation and Controls</b>		
Differential Pressure Switch	◆	
System Flow Sensor	◆	
Electronic Programmable Controller	◆	
Allen Bradley Programmable Logic Controller		◆
Inlet and Outlet Pressure Gauges	◆	
Outlet Sample Valve	◆	
Stainless Steel Outlet Water Sample Cooler		◆
HACH Automated Hardness Analyzer		◆
<b>Regeneration Initiation Methods</b>		
Manual	◆	
Timer	◆	
Differential Pressure Switch	◆	
Flow		◆