

STANDARD FEATURES:

- All Stainless Steel Wetted Parts
- Single Unit Flows up to 710 gpm
- ASME Code Stainless Steel Vessel Designed for 100 psig
- Factory Assembled Stainless Steel Flanged and Welded Valve Nest
- Stainless Steel Hub and Lateral Underdrain
- NEMA 4XFG Electrical Enclosure
- Outlet Water Sample Valve
- Automatic Backwash Flow Controller
- Separate Cold Water Connection for Regeneration Cycles
- High capacity, High Crosslinked Macroporous Cation Resin
- Raw Water Bypass Piping

ADVANTAGES:

- Quick ROI by Reclaiming Waste Heat and Increasing Cycles
- Cold Water Regeneration Saves Heated Water
- Materials Selected to Withstand Corrosive Environment
- Standard Designs Reduce Cost and Delivery Time
- Flanged and Welded Piping Designed for Problem-Free Operation
- Simple Operation Reduces Operator Training Requirements
- High Strength Resin Selected for Long Life

OPTIONS:

- Allen Bradley PLC
- Differential Pressure Switch
- Flow Sensor
- Water Sample Cooler
- Manual Isolation Valves
- Subsurface Wash
- Skid Assembly

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

Res-Kem Sodium Cycle Condensate Polishers are available in a wide range of self-contained packages configured in single, double, and triple unit arrangements to treat condensate return for reuse as boiler feedwater. The standard wetted parts for Res-Kem Condensate Polishers are stainless steel. Single units are rated for flows up to 710 gpm. For larger flow rates, contact Res-Kem to determine whether larger or multiple units would be appropriate.

Economical and efficient, 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. Res-Kem Condensate Polishers will integrate into a complete water treatment system without expensive custom field engineering and programming.



Model CP48
375 gpm unit

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

Model Prefix	Vessel Diameter inches	Maximum Flow Rate gpm	Resin Quantity cubic feet	Capacity Range		Inlet/Outlet Pipe Sizes inches	Brine Tank Diameter x Height inches	Approximate Dimensions L x D x H inches
				grains				
CP20	20	65	7	140,000	182,000	2	24x54	56x32x94
CP24	24	95	10	200,000	260,000	2	24x54	60x36x94
CP30	30	150	15	300,000	390,000	3	30x48	72x42x98
CP36	36	210	20	400,000	520,000	3	39x48	81x51x98
CP42	42	285	28	560,000	728,000	4	42x48	96x54x101
CP48	48	375	37	740,000	962,000	4	48x48	108x60x101
CP60	60	590	58	1,160,000	1,508,000	6	60x46	132x72x110
CP66	66	710	70	1,400,000	1,820,000	6	72x46	150x78x110

Flow Rate and Pipe Sizes based upon a flow rate of 30 gpm/sqft

Features	Standard	Optional
System Design and Operation		
Stainless Steel Pressure Tank with 60 " straight side	◆	
ASME Code Vessel Construction	◆	
Stainless Steel Hub and Lateral Underdrain	◆	
Stainless Steel Flanged and Welded Face Piping	◆	
Stainless Steel Flanged Diaphragm Valves (Up to 2" Pipe Size)	◆	
Stainless Steel Butterfly Valves (3" and larger Pipe Size)	◆	
Automatic Backwash Flow Control	◆	
Automatic Brine Float Valve	◆	
Subsurface Wash		◆
Manual System Isolation Valves		◆
Skid Assembly for Multiple Units		◆
Instrumentation and Controls		
Differential Pressure Switch		◆
System Flow Sensor		◆
Electronic Programmable Controller	◆	
Allen Bradley Programmable Logic Controller		◆
Stainless Steel NEMA 4X Electrical Enclosure		◆
Inlet and Outlet Pressure Gauges	◆	
Outlet Sample Valve	◆	
Outlet Water Sample Cooler		◆
Regeneration Initiation Methods		
Manual	◆	
Timer	◆	
Differential Pressure Switch		◆
Flow		◆

Wasted Fuel by Scale Type and Thickness

