

Chrome Reduction Systems (CR and CRP Series)

Fiberglass and HDPE Construction

The Chrome Reduction CR (fiberglass tank) and CRP (HDPE tank) systems include one reaction tank that is skid-mounted and completely piped and wired. Wastewater containing chromium will be pumped or flow by gravity into the tank. Depending on the other contaminants in the wastewater, the pretreated wastes from the chrome reduction tank can flow to the chemical reaction system prior to a microfilter or clarifier system.

The basic reaction system configuration has one tank equipped with one Brawn mixer, two LMI chemical feed pumps, one HACH pH probe, one HACH ORP probe and one HACH transmitter. On CR/CRP systems less than 1,000 gallon (3.8 m³) capacity, the mixing units are skid-mounted.

The frame supports the mixer, probes and chemical pumps. The electrical control box, piping manifolds, conduit and wiring harnesses are also attached to this frame. Steps are supplied for operator access to the system.

Chrome reduction systems above 1,000 gallons (3.8 m³) are designed with a freestanding catwalk frame. The mixing tank is slid into place underneath the catwalk frame.



CR-15



CR-45

Standard Available Options:

- Dual pH/ORP probe
- Extra chemical pump
- Chart RecorderHH Ha
- Fully assembled at the factory
- Factory tested
- Units are either skid-mounted or catwalk integrated
- Units are match marked for ease of reassembly

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Chrome Reduction Systems		
Model Number	CR/CRP-15	CR/CRP-45
Number of Tanks	One	One
Tank Material	FRP/HDPE	FRP/HDPE
Tank Volume	500 gallons 1.9 m ³	1,000 gallons 3.8 m ³
Type	Vertical Cylindrical	Vertical Cylindrical
Method of Construction	Skidded	Catwalk-Mounted
Recommended Through-Put	15 gpm 3.4 m ³ /hr	45 gpm 10.2 m ³ /hr
Mixers	1/3 HP, 460-Volts/3-Phase/60-Amps, TEFC	1/3 HP, 460-Volts/3-Phase/60-Amps, TEFC
Valves and Piping Connections		
Outlet Connection	3" Male Pipe Stub	6" Male Pipe Stub
Drain Valve	2" True Union Ball Valve	2" True Union Ball Valve
Instrumentation		
pH Monitors	HACH pH Indicator Transmitter	HACH I pH Indicator Transmitter
pH Probe	HACH Temperature Compensated	HACH Temperature Compensated
ORP Monitors	HACH ORP Indicator Transmitter	HACH ORP Indicator Transmitter
ORP Probe	HACH Temperature Compensated	HACH Temperature Compensated
PLC	Siemens	Siemens
Skid Requirements		
Dimensions (L x W x H)	72" x 55" x 85" 1,829 x 1,397 x 2,159 mm	100" x 113" x 145" 2,540 x 2,870 x 3,683 mm
Shipping Weight	879 lbs 399 kg	2,445 lbs 1,109 kg
Operating Weight	2,964 lbs 1,344 kg	10,785 lbs 4,892 kg

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