

Chemical Reaction Systems (RX and RXP Series)

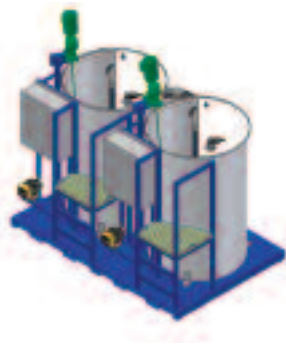
The Chemical Reaction RX (fiberglass tanks) and RXP (HDPE tanks) systems include two reaction tanks that are either skid-mounted or supplied with a catwalk frame and are completely piped and wired. The two tanks are designed to work in series. Water will be pumped or flow by gravity into the first tank and then on to the second tank. From the second tank the water flows either to the concentration tank of a microfilter or into the flocculation chamber of a clarifier or other separation device.

The basic reaction system configuration has one tank equipped with one Brawn mixer, one LMI chemical feed pump, one GLI pH probe and one GLI pH transmitter. On RX/RXP systems less than 1,000 gallon capacity, the mixing tank is mounted on a skid with a frame.

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

Reaction systems above 1,000 gallons are designed with a freestanding catwalk frame. The mixing tanks are slid into place underneath the catwalk frame.

Additional chemical feed packages can be added to the basic system.



RXP-500



RXP-2000

Features

- Fully assembled at the factory
- Factory tested
- Units are either skid-mounted or catwalk integrated
- Units are match marked for ease of reassembly
- Rapid installation assured by skidded assemblies and mistake proof electrical connections

Chemical Reaction Systems (RX and RXP Series)

Chemical Reaction Systems						
Model Number	RX/RXP-250	RX/RXP-500	RX/RXP-1000	RX/RXP-2000	RX-3000	RX-5000
Number of Tanks	Two	Two	Two	Two	Two	Two
Tank Material	FRP/HDPE	FRP/HDPE	FRP/HDPE	FRP/HDPE	FRP	FRP
Tank Volume (gallons)	250 gallons 0.95 m ³	500 gallons 1.9 m ³	1,000 gallons 3.8 m ³	2,000 gallons 7.6 m ³	3,000 gallons 11.4 m ³	5,000 gallon 18.9 m ³
Type	Vertical Cylindrical	Vertical Cylindrical	Vertical Cylindrical	Vertical Cylindrical	Vertical Cylindrical	Vertical Cylindrical
Method of Construction	Skidded	Skidded	Catwalk-Mounted	Catwalk-Mounted	Catwalk-Mounted	Catwalk-Mounted
Recommended Through-Put	20 gpm 4.5 m ³ /hr	40 gpm 9.1 m ³ /hr	80 gpm 18.2 m ³ /hr	160 gpm 36.3 m ³ /hr	240 gpm 54.5 m ³ /hr	400 gpm 90.9 m ³ /hr
Mixers	1/4 HP, 120/1/60, TEFC	1/3 HP, 460/3/60, TEFC	1/2 HP, 460/3/60, TEFC	1 HP, 460/3/60, TEFC	2 HP, 460/3/60, TEFC	2 HP, 460/3/60, TEFC
Valves and Piping Connections						
Outlet Connection	3" Male Pipe Stub	4" Male Pipe Stub	6" Male Pipe Stub	6" Male Pipe Stub	8" Male Pipe Stub	12" Flange
Drain Valve	2" True Union Ball Valve	2" True Union Ball Valve	2" True Union Ball Valve	2" True Union Ball Valve	2" True Union Ball Valve	2" True Union Ball Valve
Instrumentation						
pH Monitors	GLI pH Indicator Transmitter	GLI pH Indicator Transmitter	GLI pH Indicator Transmitter	GLI pH Indicator Transmitter	GLI pH Indicator Transmitter	GLI pH Indicator Transmitter
pH Probe	GLI Temperature Compensated	GLI Temperature Compensated	GLI Temperature Compensated	GLI Temperature Compensated	GLI Temperature Compensated	GLI Temperature Compensated
PLC	Siemens	Siemens	Siemens	Siemens	Siemens	Siemens
Skid Requirements						
Mounting	Each tank is mounted on its own skid. Skids are interlocked for ease of reassembly.	Each tank is mounted on its own skid. Skids are interlocked for ease of reassembly.	Tanks are floor mounted with mixers and all other components mounted off the catwalks.	Tanks are floor mounted with mixers and all other components mounted off the catwalks.	Tanks are floor mounted with mixers and all other components mounted off the catwalks.	Tanks are floor mounted with mixers and all other components mounted off the catwalks.
Paint	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish
Dimensions (L x W x H)	110" x 72" x 85" 2,794 x 1,829 x 2,159 mm	110" x 72" x 85" 2,794 x 1,829 x 2,159 mm	200" x 113" x 145" 5,080 x 2,870 x 3,683 mm	200" x 133" x 145" 5,080 x 3,378 x 3,683 mm	200" x 143" x 170" 5,080 x 3,632 x 4,318 mm	220" x 165" x 170" 5,588 x 4,191 x 4,318 mm
Shipping Weight	1,758 lbs 797 kg	2,532 lbs 1,148 kg	4,890 lbs 2,218 kg	5,433 lbs 2,464 kg	6,382 lbs 2,895 kg	7,332 lbs 3,326 kg
Operating Weight	5,928 lbs 2,689 kg	10,872 lbs 4,931 kg	21,570 lbs 9,784 kg	38,793 lbs 17,596 kg	56,422 lbs 225,592 kg	90,732 lbs 41,155 kg

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