

Cyanide Destruct Systems (CN and CNP Series)

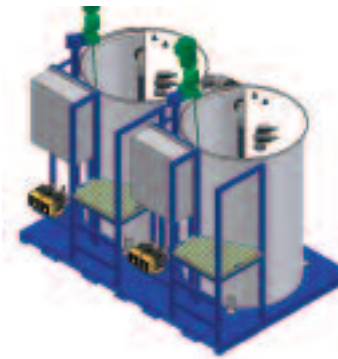
Fiberglass and HDPE Construction

The Cyanide Destruct CN (fiberglass tanks) and CNP (HDPE tanks) systems include two reaction tanks that are either skid-mounted or supplied with a catwalk and completely piped and wired. The two tanks are designed to work in series. Wastewater containing cyanide will be pumped or flow by gravity into the first tank and then on to the second tank. Depending on the other contaminants in the wastewater, the pretreated wastes from the second cyanide destruct tank can flow to the chemical reaction system prior to a microfilter or clarifier.

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

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. 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.



CNP-10



CN-40

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

Cyanide Destruct Systems (CN and CNP Series)

| Specifications | | | | |
|-------------------------------|---|---|--|--|
| Model Number | CN/CNP-5 | CN/CNP-10 | CN/CNP-20 | CN/CNP-40 |
| Number of Tanks | Two | Two | Two | Two |
| Tank Material | FRP/HDPE | FRP/HDPE | FRP/HDPE | FRP/HDPE |
| Tank Volume | 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 |
| Type | Vertical Cylindrical | Vertical Cylindrical | Vertical Cylindrical | Vertical Cylindrical |
| Method of Construction | Skidded | Skidded | Catwalk-Mounted | Catwalk-Mounted |
| Recommended Through-Put | 5 gpm 1.1 m ³ /hr | 10 gpm 2.3 m ³ /hr | 20 gpm 4.5 m ³ /hr | 40 gpm 9.1 m ³ /hr |
| Mixers | 1/4 HP, 120/1/60, TEFC, PVC Coated | 1/3 HP, 460/3/60, TEFC, PVC Coated | 1/2 HP, 460/3/60, TEFC, PVC Coated | 1 HP, 460/3/60, TEFC, PVC Coated |
| Valves and Piping Connections | | | | |
| Outlet Connection | 3" Male Pipe Stub | 4" Male Pipe Stub | 6" Male Pipe Stub | 6" Male Pipe Stub |
| Drain 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 |
| pH Probe | GLI Temperature Compensated | GLI Temperature Compensated | GLI Temperature Compensated | GLI Temperature Compensated |
| ORP Monitors | GLI ORP Indicator Transmitter | GLI ORP Indicator Transmitter | GLI ORP Indicator Transmitter | GLI ORP Indicator Transmitter |
| ORP Probe | GLI Temperature Compensated | GLI Temperature Compensated | GLI Temperature Compensated | GLI Temperature Compensated |
| PLC | 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. |
| 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 |
| 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 |
| 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 |
| 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 |

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