



CN-40 System

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.

Each tank is equipped with one mixer, two chemical feed pumps, one pH probe, one ORP probe, and one pH/ORP transmitter. On 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.

Features

- Fully assembled at the factory
- Factory tested
- Units are either skid mounted or catwalk integrated
- Rapid installation assured by skidded assemblies

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, 460/3/60, 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
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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