

Cyanco SLS – Solid to Liquid System

TECHNICAL DATA SHEET

CYN-TDS-APT-06

What It Does

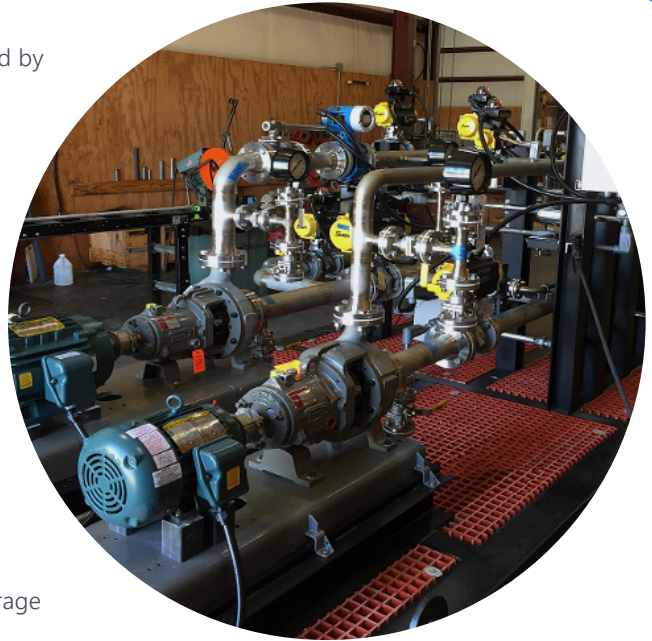
The Cyanco SLS, Solid-to-Liquid System, designed by Cyanco, accompanied by various control valves and instrumentation equipment, ensures a safe and precise preparation of sodium cyanide solution from solid sodium cyanide material in ISO containers with a minimal amount of handling.

How It Works

The Cyanco SLS, enables accurate production of sodium cyanide solution to site specifications. This includes the necessary pumps to handle both dissolution and transfer, accompanied by various control valves and instrumentation equipment to accurately produce sodium cyanide solution to site specifications.

A calculated amount of water is added to the dissolution tank and recirculated through the connected ISO to obtain the desired concentration of sodium cyanide in solution.

The SLS skid controls both the dissolution of the solid sodium cyanide at the desired concentration as well as the transfer of that solution to the storage facility for use in the process designed for Cyanco's SLS ISO containers.



Features:

- » While operating principles remain consistent, each unit is tailor-made to adapt to the client's infrastructure and site configuration.
- » The system is designed to be locally operated but can be remotely monitored through the main plant DCS or PLC using an Ethernet communication module.
- » This system can be combined with a Cyanco Cyanide Distribution skid and CCS Cyanide Control System analyzer to achieve monitoring and additional control of sodium cyanide usage within the operation.

CUSTOMER BENEFITS



EASE OF USE Cyanide delivery using Cyanco SLS, Solid to Liquid Systems, and ISO container units combines the advantages of solid product transportation with the ease of liquid sodium cyanide use.

WORRY-FREE DELIVERY The ISO container design used by Cyanco is fully compliant with international transport regulations.

SAFETY SLS eliminates the physical manipulation of solid sodium cyanide by mine site personnel thereby reducing risk of exposure.

WASTE REDUCTION SLS eliminates the need for package disposal, as ISO containers are returned to Cyanco and re-used.

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Skid Mounted Model Specifications

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The Cyanco SLS® (Solid to Liquid System) is designed to safely dissolve solid sodium cyanide briquettes to produce a clear sodium cyanide solution at a specific desired concentration.

MAIN EQUIPMENT	
Control method	Local PLC/HMI with optional remote monitoring
Installed pumps	Two (2) pumps for dissolution and solution transfer with the ability to work as in-line spares.
Piping	Stainless steel for all piping in contact with sodium cyanide

HARDWARE			
Control valves and pumps	Hardware constructed of all stainless steel materials		
Metering	Accurate flow metering to ensure precise concentration and control		
PLC	Equipped with its own programmable logic controller which allows for standalone operations		
Communication capabilities	4 - 20 mA signal and Modbus TCP/IP communication method. Ethernet w/ switch provided.		
Alarm signal	Visual beacon and audible alarm available		
APPROXIMATE DIMENSIONS:	HEIGHT	LENGTH	WIDTH
Typical configuration	7 feet	16 feet	7 feet

SERVICES REQUIRED FROM CUSTOMER AT THE TIME OF INSTALLATION
Services of an I&E technician for unit power, signal wire installation and ethernet installation, if desired.
Unit to be installed on solid foundation
Access to fully functioning eye wash and safety showers, HCN monitors
Sodium cyanide ISO containers for testing and training purposes

REQUIRED UTILITY CONNECTIONS
<ul style="list-style-type: none"> Clean water and process water if desired
<ul style="list-style-type: none"> Operation/Process air for ISO unloading/flushing (65 psig, 60CFM) Instrument air (clean/dry for control valves operation)
<ul style="list-style-type: none"> Power; Motors (480 Volts, 3 Phase, 60Hz, 100 amps)
<ul style="list-style-type: none"> Instrumentation; 4-20 mA signal from tank level indicators Additional high-high level probe recommended for redundancy

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