Coolant Purification System Utilizing Automatic Solids Ejection

Sanborn Technologies CP2 is designed for unattended operation in the purification of soluble, synthetic, or semi-synthetic coolants. This single pass system is pre-piped and pre-wired to the NEC Codes. The system components are mounted on tankage for temporary fluid storage. Approximate system dimensions are 7.5' x 4.0'. Pertinent features are:

- The system will remove solids with a specific gravity greater than the coolant down to 5 micron. Solids are automatically ejected during system operation to eliminate shut-down for solids removal.

- Tramp oil will be removed to less than 0.5 by volume.

- The nominal capacity of the system is two U.S. gallons per minute on water based fluids. The actual process rate may be more or less, depending on the actual condition of the fluid processed.

- The controls utilize a microprocessor-based programmable logic controller mounted in a single enclosure with starters, fuses, relays, timers, control transformer, and pushbuttons. The circuitry is designed for unattended system operation and includes audible and visual alarms.

Fully Automatic Operation: - No operator required. Unit is started and left to handle all processing. Microprocessor control monitors and controls entire system.

Automated Solids Ejection: **Saves Labor Dollars** - self-cleaning centrifuge eliminates requirement for frequent mess, manual clean-out of centrifuge.

Service Commitment: We have a formally trained service group dedicated to our systems. Our Service Department often solves problems by phone. Necessary parts are always in stock.

To allow a technical evaluation, the principal parts of the CP2 System include:

ITEM	QTY.	DESCRIPTION
1.	1 ea.	Centrifuge - Sanborn high-speed, disc-type centrifuge, with separation forces at 9000 x gravity and two GPM capacity, designed, for coolant service, and automatic solids ejection, TEFC motor and starter.

2.	1 ea.	Strainer - basket type, for ease of cleaning, to remove coarse solids.
3.	1 ea.	Feed Pump – Lifts the dirty coolant into the centrifuge
4.	1 ea.	Clean coolant overflow system to allow for multiple pass purification of the coolant if desired.
5.	1 ea.	No-Flow Switch - Automatic shut down of system when dirty tank empties.
6	1 ea.	Level controlled clean tank automatically turns on the proportioner
7.	1 ea.	Jetmix Coolant proportioner System mixes and emulsifies coolant with water at $\pm$ 2.0% accuracy and maintains mixture ratio setting with - 2.0% repeatability. Single lever selection provides mixture ratios between 2-25% (50:1 to 4:1).
8.	2 ea.	Tanks (clean & dirty) -250 gallon capacity, fully enclosed welded steel construction with hinged lid, sloped bottom, and integral drain. Hydraulic agitation supplied in dirty reservoir.
9.	1 ea.	Centrifuge Bowl Flush System - for automatic solids discharge during operation, includes plumbing, solenoids, water filter and regulators.
10.	1 ea.	Programmable Controller and Indicating Panel - NEMA 12 enclosure designed for 460 VAC, 3 pH, 60 Hz. The control circuit is 115 VAC and is designed for unattended operation.
11.	1 ea.	Set of special tools
12.	1 ea.	Instruction Manuals