



## Sanborn Puritan Recovery System

Sanborn Puritan Recovery System is designed for unattended operation in the recovery of soluble, synthetic, or semi-synthetic coolants and/or oils. This single pass system is pre-piped, pre-wired and delivered ready-to-use. The system components are supported on a steel fabricated skid, approximately 3' x 3', mounted on caster wheels. Standard electrical service is 460 VAC, 3 Ph, 60 Hz.

Our recovery systems are designed to completely recycle coolants and oils using heat pasteurization and high speed centrifugation. Some features of our system include:

- The system will remove 99% by volume of the solids with a specific gravity greater than the coolant down to 1 micron size as measured by the Millipore filtration method.
- Tramp oil (in coolant), tramp water (in oil) is removed including the free-floating, mechanically mixed and the loosely emulsified, to less than 0.25% (2500 ppm) by volume.
- The system includes Pasteurization for coolant as a safe, economical, non-chemical method of controlling bacteria, mold, yeast and fungi - including Spore forms that cause coolant rancidity.
- The nominal capacity of the system is 60 gallons per hour for water based fluids, and 90 gallons per hour for oils. The actual process rates may be more or less, depending on the characteristics and condition of the fluid processed.

There are several unique features of a Sanborn Recovery System that are not available with competitive equipment which are particularly valuable:

### **Pasteurization/Heat:**

- Reduces coolant waste in the tramp oil.
- Reduces or eliminates use of expensive biocides or excess quantities of make-up.
- Lowers fluid viscosity and improves centrifuge's separation efficiency.
- Helps to maintain internal cleanliness of the disc stack, reducing system downtime.
- Removes dissolved gasses like H<sub>2</sub>S which are responsible for foul coolant odor.



**Process Guarantee:**

Sanborn systems are backed by our unmatched process guarantee, ensuring the removal of all types of fluid contaminants as follows:

Solids	- 99% by volume >1 micron removed.
Tramp Fluids	- to .0025 by volume (1/4 of 1%).
Biological Activity	- to level of freshly mixed coolant

The principal parts of the Puritan System include:

<u>Item</u>	<u>Qty.</u>	<u>Description</u>
1.	1 ea	Centrifuge- Mitsubishi high speed ,disc-type centrifuge, designed for coolant and oil service; 60 GPH coolant, 90 GPH oil service, manual solids removal.
2.	1 ea.	Strainer, basket-type for easy cleaning.
3.	1 ea.	Feed Pump - gear type, centrifuge mounted.
4.	1 ea.	Sanborn Thermal Bio-Control - low watt density immersion heater mounted in welded steel housing.
5.	1 ea.	Output Pump - gear type, centrifuge mounted.
6.	1 ea.	Thermostat - controls item 4 for minimum power consumption.
7.	1 ea.	No Flow Switch - shuts down system when batch is completed.
8.	1 ea.	Control and Indicating Panel - NEMA 12 enclosure, 120 VAC control circuit.
9.	1 ea.	Hose and Dump Feed Package - includes suction and discharge hoses and mating quick disconnects ( 15 feet hoses).
10.	1 set	Special Tools.
11.	2 ea .	Instruction Books.