



# CENTRA COOLANT RECOVERY SYSTEM

## Maintain Your Coolant



**A practical and economical solution to coolant management.**

- A compact centralized coolant processing facility.
- Practically eliminates the need for coolant disposal.
- Reduces new coolant use by up to 50%.
- Maintains a constant supply of fresh coolant to the plant.
- Automatically replenishes coolant as required.



# ENERVAC

ENVIRONMENTAL TECHNOLOGY GROUP

700 FRANKLIN BLVD., CAMBRIDGE, ON N1R 5S9  
(519) 623-9890 FAX: (519) 623 8250

**ENERVAC**

# MODEL E940A- [ ] CENTRA

## ENERVAC'S CENTRA ADVANTAGES:

- Unattended operation.
- Tramp oil removed through Enervac's efficient tramp oil separator.
- Effective solids removal.
- Automatically replenishes coolant as required.
- Fresh properly concentrated coolant always available.
- Improves operator environment.
- Reduces down time.
- Improves tool life.

## APPLICATIONS:

**METAL WORKING:** Water soluble, semi synthetic and synthetic fluids used in general machining operations.

## STANDARD MODEL FEATURES:

Standard model features include single tank construction with dirty and clean compartments, tramp oil pump and separator with suspended solids filter, coolant proportioner (ejector) and manual coolant return pump. Master control panel included. 575V 3PH 60C/115V 1PH 60C controls.

| MODEL | RECYCLE RATE GPM | LENGTH | WIDTH | HEIGHT | SHIPPING WEIGHT |
|-------|------------------|--------|-------|--------|-----------------|
| 450   | 5                | 92"    | 69"   | 95"    | 2200lbs.        |
| 850   | 10               | 110"   | 69"   | 95"    | 2600 lbs.       |
| 1000  | 10               | 128"   | 69"   | 95"    | 2800 lbs.       |
| 1250  | 10               | 146"   | 69"   | 95"    | 3000lbs.        |

| OPTIONS | DESCRIPTION                                    |
|---------|--|
| CP2     | Automatic Coolant Return System                |
| A       | Air Sparger for Coolant Aeration and Agitation |
| AP2     | Coolant makeup Proportioner Single Pump        |
| AP3     | Coolant makeup Proportioner Duplex Pump        |
| TL      | Tank High Level Protection                     |
| PF1     | Automatic Indexing Paper Filter                |
| LCL     | Low Concentrate Level Protection               |
| 46      | 460V 3PH 60C                                   |
| L       | Tramp Oil High Level Control                   |

## OPERATION: (typical)

A Coolant Management Program includes cleanout of the machine sump, recycling of the dirty coolant, return of clean coolant and daily check and top up of the sump.

A mobile sump cleaner/filter, such as Enervac's **SUMP VAC**, is used to remove dirty coolant, swarf and sludges from the machine sump. The coolant, free of swarf and large particulate is discharged from the **SUMP VAC** into the dirty coolant tank of the **CENTRA**. It is then pumped via a floating skimmer through a filter into the tramp oil separator to remove the tramp oils, particulate and solids. The clean coolant then flows into the **CENTRA** clean tank, which is always full of fresh clean coolant and is allowed to continuously overflow back into the dirty coolant tank. Thus the coolant is processed on a multipass basis. As clean coolant is returned to the machines for reuse, the system level drops triggering an automatic addition of fresh premixed coolant into the system. This addition keeps the overall coolant components at proper levels thereby yielding extended tool life and good operator environment.

DISTRIBUTED BY:

The tramp oils that have accumulated on the top of the tramp oil separator are allowed to flow over an oil weir and into a 55 gallon collection drum for disposal or recycling.

In cases where the standard bag filter is inadequate, typically cast iron and aluminum machining, an optional indexing paper filter is used. An optional automatic coolant return system is often utilized where a maintained supply of fresh coolant is desirable, the customer supplied overhead piping system transports the coolant to "point of use".

The optional, makeup coolant proportioning pump, single head, performs highly accurate mixing of makeup coolant and a duplex head, allows the concurrent accurate introduction of an additive.