

# **SURE-SEP**

## **OIL/WATER SEPARATOR**



### **Features:**

- **Process up to 2 Gpm**
- **Batch or Continuous Loading**
- **Reduces Storage Costs**
- **Low Maintenance Cost**
- **Fast Payback in Savings**
- **Multi Chamber Separation**
- **Activated Carbon Filter**
- **Fully Automatic**
- **Made in U.S.A.**

Oil carry over from oil lubricated compressors is very common. The oil combines with water that is condensed out through dryers, filters, aftercoolers, and separators.

However, government agencies have found oil latent condensation is unsafe when discharged to surface waters, sanitary sewers or waste water treatment facilities.

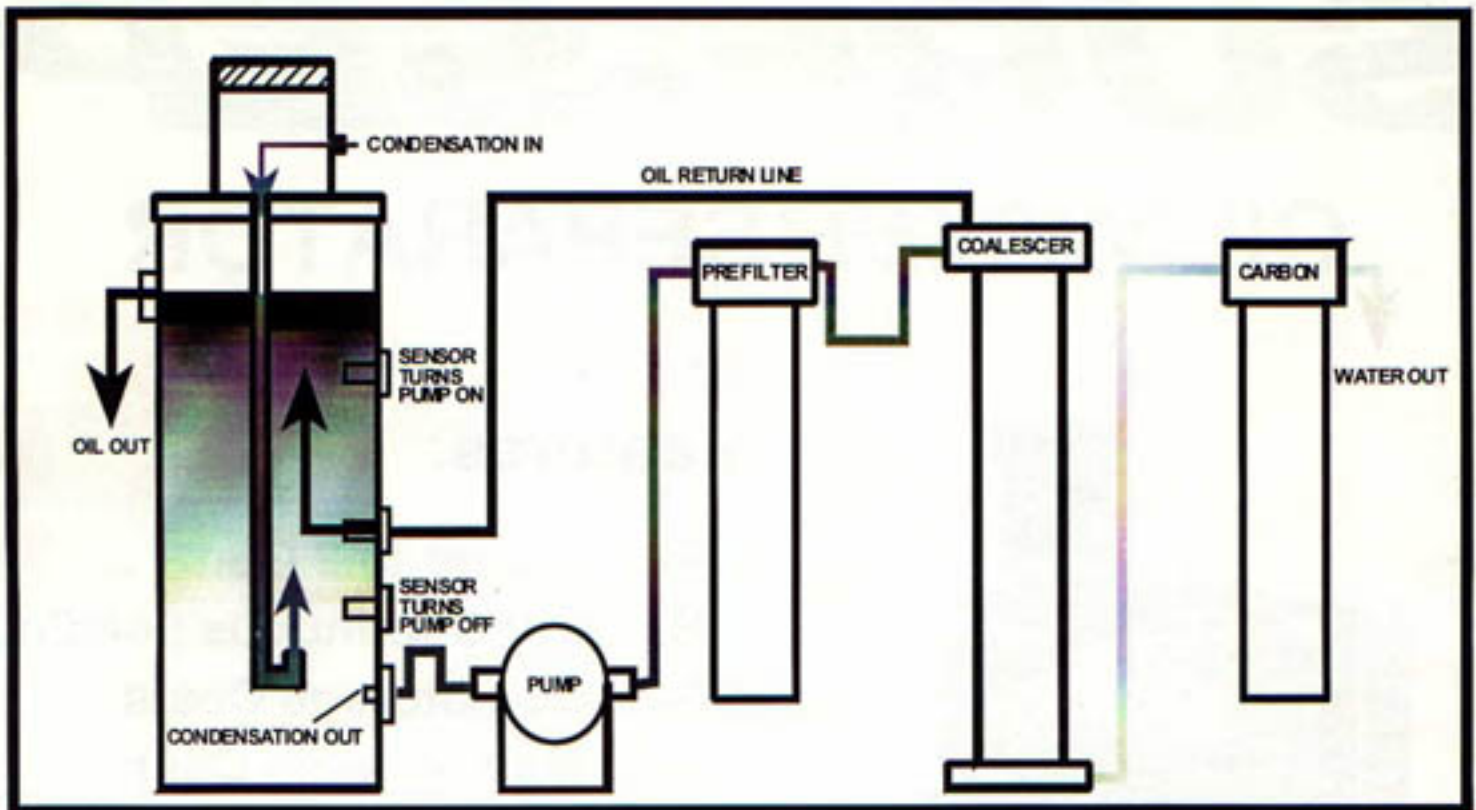
The standards for the amount of oil that can be discharged have been backed by laws. Failure to comply can lead to heavy fines, adverse publicity, and expensive cleanup of areas that have been deemed to be hazardous waste sites

Since oil is only a small portion of the discharged condensation, it makes good sense that removing the oil would allow the water to be discharged via conventional means. The oil then can be properly disposed of at a significantly lower cost than the original combination of oil and water.

The **SURE-SEP** was designed to quickly reduce a 55 gallon drum of oily contaminated water to its original portions of oil and water. The savings from the use of a **SURE-SEP** can be realized in a very short time by reducing both the costs of disposal and storage.

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**AIR SYSTEM PRODUCTS, INC.**



## Design

The oil contaminated condensation first enters the expansion chamber where the mixture is depressurized. A special filter media at the top of the expansion chamber removes any oil residue and reduces noise as the air escapes into the atmosphere.

The water and oil exit through the bottom of the diffuser and into a large settling tank. Any oil that has separated by gravity from the water moves toward the upper surface of the settling tank. The remainder of the oily water is pumped through a prefilter where any suspended dirt particles are removed.

The liquid is then pumped through a special coalescing element that was designed for oil/water separation. The oil is then returned to the settling tank where it is discharged through the oil out port. The water passes through a high flow activated carbon element where any remaining residue is removed.

Sensors that detect the difference between oil and water automatically turn the pump on and off.

Specifications				
Model No.	Dimensions	Weight	Load Rate	Temp. Range
SS3000	25" x 34" x 48"H	146 lbs.	2GPM	50 F - 130 F

## The **SURE-SEP** Advantage

The **SURE-SEP** is superior to gravity type separators because it can separate both free oil and mechanically emulsified oils from water.

The **SURE-SEP** is also superior to many ultrafiltration membrane systems because they require the condensation to be processed in batches. The **SURE-SEP** can be installed to handle both batch and continuous amounts of oil and water.

Membrane systems also require frequent cleaning of the membrane, as often as once a day. The **SURE-SEP's** low cost coalescing element will last up to a year without any maintenance.

Membrane systems usually cannot reduce the oil/water waste content below 50% water. The **SURE-SEP** will reduce the oil waste to less than 1% water. Therefore, the **SURE-SEP** can reduce disposal costs even further than membrane systems.

The **SURE-SEP's** low cost makes it ideal for small systems and its large capacity of 2 gpm makes it capable of handling very large systems.

The **SURE-SEP** is not designed to separate water soluble lubricants or chemical emulsions.