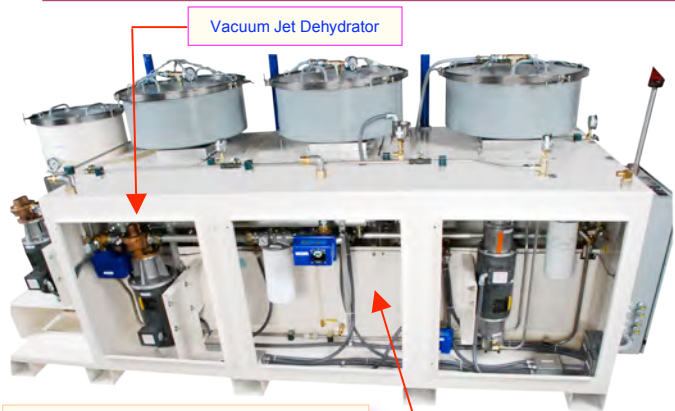


# AST-300 - Large Oil Recycling Machine



Vacuum Jet Dehydrator

### Vacuum Jet Dehydration:

- Vacuum Jet dehydration is capable of removing dissolved water from 30,000 or ppm 3% to less than 50 ppm with dehydrating tank for more water removal efficiency.
- Remove approximately 1 quart of dissolved water in one hour.
- 25.2 GPM Dehydrating flow, 52 GPM pump capacity.
- 31.5 KW Immersion flange heater, 14 watts/inch<sup>2</sup> low watt density.

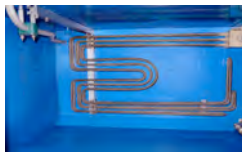
### PurePack Chemical Oil Purification:

- Remove particulate down to 1 to 3 micron or get ISO 14/11 to ISO 13/10 oil cleanliness.
- Absorb emulsified water down to less than 100 ppm.
- Remove oxidation by-products causing high acidity in Total Acid Number (TAN).
- 150 GPH Flow capacity by dual gear pumps with over 90% filtration efficiency.

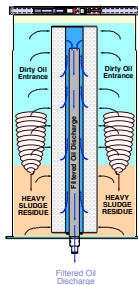
### FC-4 Pre-filter Cartridge Section:

- Pre-filter during vacuum jet dehydration process.
- Filter element is available in 3 different types, C-5 (5 micron) and C-12 (12 micron).
- High dirt holding capacity.

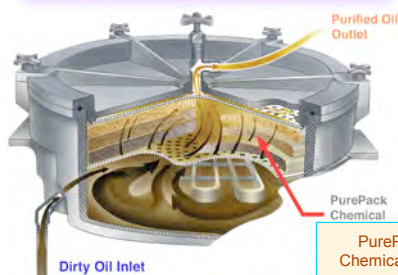
50 gal Dehydrating Tank



C-Series Filter Elements for FC-4 (5 or 12 micron)



FC-4 Pre-Filter Housing



Purified Oil Outlet

PurePack Chemical

PurePack Chemical Filter

Dirty Oil Inlet

### Options:

- DT-100 Free Water Separator** removes 100% of free water from oil. DT-100 can drain 20 gallons per hour of free water. Media pack contains 240 square foot of surface area for excellent water separation. Bio-filtration in media pack creates balance of micro organism growth in settled waste water. Free water is automatic drain with WS1 water sensor.
- DA-1 De-Aerator** unit is capable of removing dissolved gas or entrained air from oil. It is very economical way to degasify the oil as a better alternative to conventional vacuum distillation technology.

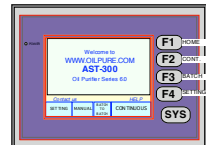
### Oil Recycling Features

- 553 to 1,069 Gallon per day oil recycling capacity depending on water content.
- Vacuum Jet dehydration removes dissolved water to less than 50 ppm. Optional DT-100 water separator can remove 90% to less than 1% of free water with WS1 automatic water drainage.
- MS1 Water Sensor automatically controls dehydration time and MS1 will allow dehydration process until water content is less than 100 ppm prior to PurePack chemical treatment.
- Water breakdown alarm when there is excessive water content in equipment oil reservoir.
- A built-in 50 gallon dehydrating tank for more water dehydrating efficiency.
- PurePack chemical treatment can remove oil oxidation that causes high acidity in Total Acid Number (TAN), solid particulate and dissolved water.
- Multiple function oil purifier for batch to batch or continuous operations
- Full automatic operation Programmable Logic Control (PLC) with built-in memory module with 4" LCD digital touch screen display for operational interface.
- Available in 480V-3ph or 380V-3ph or 575V-3ph unit. Dimension: 44"W x 128"L x 69"H, weight 2,200 pounds (1,000 kgs)



Optional DT-100 Free Water Separator

Industrial Lubricants can be recycled with AST-300 oil recycling machines for as long as 10 years or longer. Oil additives can be reformed to enhance lubrication quality.



Touch Screen Digital Display with PLC

AST-300



MS1 Water Sensor & Water Dehydration Controller