

# AST-200 - Medium Oil Recycling Machine



Vacuum Jet Dehydrator

30 gal Dehydrating Tank

## Oil Recycling Features

- 354 to 637 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 30 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 77"L x 69"H, weight 1,500 pounds (682 kgs)

### 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 2.6 quarts of dissolved water in one hour.
- 14.4 GPM *Dehydrating flow*, 22 GPM *pump capacity*.
- 21 KW Immersion flange heater with *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)*.
- 100 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.



Optional DT-100 Free Water Separator

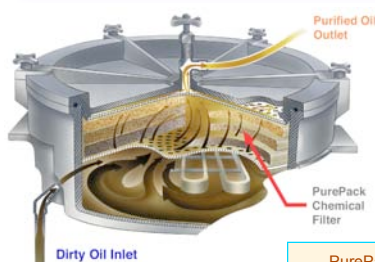
**Industrial Lubricants can be recycled with AST-200 oil recycling machines for as long as 10 years or longer. Oil additives can be reformed to enhance lubrication quality.**



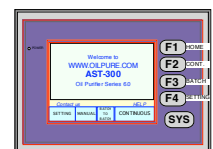
FC-1 Pre-Filter Housing



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



PurePack Chemical Filter



Touch Screen Digital Display with PLC

**AST-200**



MS1 Water Sensor & Water Dehydration Controller

### Options:

1. **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*.
3. **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.