

1 GPM VUD

Hy-Pro Vacuum Dehydration

Remove Free & Dissolved Water
down to 20 PPM (0.002%)

Remove Free & Dissolved Gasses

Visually Monitor Fluid and Process
through Clear Chamber Covers

High Water Removal Efficiency

High Efficiency Particulate Filtration



The VAC-U-DRY Purification Process

Contaminated oil is drawn into the VAC-U-DRY purifier by a high output vacuum pump. The oil passes through the low watt density heater where heated to optimum temperature for the dehydration process (150°F, 66°C). The oil enters the vacuum chamber passing through specially designed dispersal elements which create a thin film of oil that is exposed to the vacuum. The water is vaporized and then drawn into the condenser where it becomes liquid and drains into the condensate tank. The dehydrated oil flows to the bottom of the vacuum chamber and is removed by the discharge pump. The oil is pumped through the high efficiency particulate filter assembly ($\beta_{x_{[c]}} > 1000$) and returned to the system. The recirculating line helps the VAC-U-DRY reach optimum temperature in cold start situations and can be used to throttle machine inlet and outlet flow.

75% of All Hydraulic Component Failures are Caused by Fluid Contamination

The effects of moisture in your oil systems can drastically reduce on stream plant availability. Bearing life and critical component life is greatly reduced by moisture levels above and within the saturation point. Many systems run constantly above this point due to inefficient dehydration technologies and high ingress. This develops acidity and loss of lubrication properties.

Unit Specifications	
Flow Rate	.5 ~ 1.8 GPM (1.89 ~ 6.81 LPM)
Pump Type	Dry Seal Piston Pump
Amp Draw	120 VAC - 1KW Heat (15 FLA) 220 VAC - 4.5KW Heat (23 FLA) 230 VAC - 4.5KW Heat (23 FLA)
Condenser	Air Cooled

*Flow rate is adjustable based on recirculation line flow.
The V1 is designed for reservoirs \leq 150 gallons @ 110-125°F.



FILTRATION