

A paper mill was experiencing severe water ingress problems and needed to dehydrate its fluids to avoid replacement. Hy-Pro suggested rotating a 1 GPM V1 vacuum dehydrator utilizing a pleated dispersal element among the affected fluids.

## Application #1

Initially, Hy-Pro's V1 was placed on a Super Calender CC Lube Reservoir. This reservoir contained 200 gallons (757 liters) of PM220 Exxon Mobil at 110°F (43°C). The water level of this reservoir when the V1 was introduced was 1400 parts per million (ppm). After 48 hours of continuous operation the water level was reduced to less than 100 ppm.

- Initial Water Level: 1400 ppm
- Duration on Reservoir: 48 hours
- Ending Water Level: <100 ppm



## Application #2

Next, the V1 was relocated to a vacuum pump oil reservoir on the wet end of the plant. This reservoir contained 300 gallons (1135 liters) of fluid at 125°F (51°C). At the time of installation the fluid contained 20,000 ppm of water. In less than 72 hours the V1 reduced the water level to 60 ppm.

- Initial Water Level: 20,000 ppm
- Duration on Reservoir: <72 hours
- Ending Water Level: 60 ppm



## Application #3

Finally, the V1 was installed on a tote containing 200 gallons (757 liters) of reclaimed AW46 oil at ambient temperature (~70-80°F, ~21-26°C). At the time of installation the oil contained 10,000 ppm of water. In less than 24 hours the water was reduced to less than 100 ppm.

- Initial Water Level: 10,000 ppm
- Duration on Reservoir: <24 hours
- Ending Water Level: <100 ppm

