

## HVP 333 Vacuum Dehydration Purifier

### Description

The HVP 333 purifier is a portable vacuum dehydration unit utilizing mass transfer to purify hydraulic, lubricating, and gear oils by removing water, particulate contamination, and gases. Dielectric oils can also be purified offline/off load.

Pall oil purifiers remove 100% of free water and gases, and up to 80% of dissolved water and gases. The unit creates a high surface area on the incoming oil and uses gentle vacuum and the normal oil operating temperature to create conditions for rapid mass transfer of the water and gases from the oil. Discharge oil filtration at  $\beta_{x(C)} \geq 1000$  provides the benefit of highly efficient particulate removal for additional lube or hydraulic system protection.

HVP oil purifiers extend fluid service life; reduce environmental risks, and fluid disposal and renewal costs; improve system performance; and reduce system component wear.

### Features:

- High performance water, gas, and particulate removal
- Simple Operation – Just plug into an electrical outlet, open inlet and outlet valves, and start motor. No adjustments are necessary, and no water or air line connections are required.
- Unattended operation – Automatic controls will safely shut down the system if fluid level is outside normal limits.
- Service Indicators – An LCD panel displays all alarm conditions, including possible causes and service requirements, where applicable.
- Easily Portable – The HVP Purifier is compact and mounted on casters, providing high mobility.
- Low Energy Consumption - Heater use is not required for typical on-line applications.

### General Specifications:

**Dimensions:** 40" L x 31" W x 64" H  
(1,020 mm x 790 mm x 1,630 mm)

**Approximate Dry Weight:** 1000 lbs (454 kg)

**Inlet connection:** 1½" (31.75 mm) NPT female

**Outlet connection:** 1" (25.4 mm) NPT female

**Flow Rate:** 5.6 GPM (21.2 lpm)

**Inlet Pressure:** 10 PSI (0.7 bar) maximum

**Outlet Pressure:** 5 PSI (0.3 bar) to 60 PSI (4 bar)

**Maximum Inlet Fluid temperature:** 165°F (73°C)

**Maximum Fluid Viscosity:** 260 cSt (1300 SUS)

**Minimum Fluid Viscosity:** 8 cSt (36 SUS)



HVP333 Fluid Conditioning Purifier

**Motor:** 3 HP (2.2 kW)

**Heater Capacity:** 6KW (maximum). Heater use is not required for typical on-line applications.

**Chamber Vacuum:** 15-22 in. Hg (380-560 mm Hg)

**Filtration:** Pall UR319 Series Ultiplex® SRT filter with  $\beta_{x(C)} \geq 1000$  removal efficiency (20-inch element)

**Water Removal Rate:** the removal rate of water is a function of many parameters including fluid composition and properties, operating conditions, fluid volume, and initial water content. In general, higher temperatures and vacuum will result in higher rates of water removal.

### Materials of Construction

**Base Frame:** Carbon steel

**Vacuum Tower:** Carbon steel

**Control Box:** Carbon steel

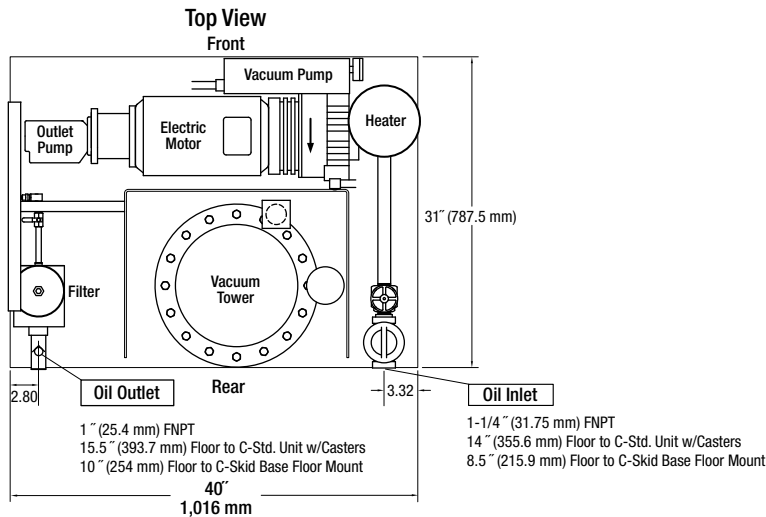
**Threaded fittings:** Brass or Carbon steel

**Control Valves:** Brass

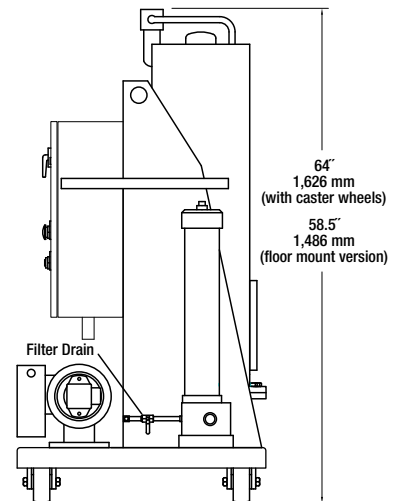
**Hoses:** Fluorocarbon - standard. Nitrile also available. Other materials available on special request.

**Seals:** Fluorocarbon - standard. Nitrile also available. Other materials available on special request.

## Dimensional Drawings



## Right Side View



## Ordering Information

Part number: HVP333 ■ + ▼ ◆ ▲ element part number UE319 + 20Z

Spare Parts: Vacuum Pump Service Kit: catalog number 1368881

2000 Hour Service Kit: catalog number 1376203

Standard Replacement Element: UE319 + 20Z

Code ■	Supply Power (V/Ph/Hz)
M	220/3/60
R	380/3/60
T	415/3/50
W	480/3/60
1	575/3/60

Code +	$\beta_{x(c)} \geq 1000$	CST Rating*
AZ	3	08/04/01
AP	6	12/07/02
AN	7	15/11/04
AS	12	16/13/04
AT	22	17/15/06

\* Based on SAE4205

Code ▼	Seal Type
Z	Fluorocarbon, STANDARD
H	Nitrile ** Available with extended Lead Time

Code ◆	Mount Configuration
W	Caster wheels (standard)
P	Tow Package – Pneumatic Tires
F	Floor mount
A	Caster wheels with lift rails
B	Floor mount with lift rails

Code* ▲	Ambient Temp. Range	Option
Omit	Below 113°F/45°C	No fan kit required
T	Above 113°F/45°C	XU81470 fan kit
W	NA	WS05DSB04

\* If both T and W options are required, consult your Pall representative.



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