

# **HLP50 Oil Purifier**

# **Description**

Leveraging more than 30 years of design and field experience, Pall delivers the third in its family of HLP series fluid conditioning purifiers — the HLP50 Oil Purifier.

The HLP series combines the water removal performance of mass transfer purifiers with high reliability and ease-of-use to help ensure maximum equipment uptime and lowest cost of ownership. This enables you to focus on your process, not on your equipment.

# **Improved Performance**

The Pall HLP series purifiers feature an innovative new vacuum tower design that maximizes water removal efficiency.

## Maximum Reliability, Lower Cost of Ownership

HLP series purifiers are designed for maximum uptime and have proven themselves in the field with industry-leading utilization rates even in the most demanding and continuous-duty applications.

The HLP50 uses specially selected components to help ensure maximum reliability and lower cost of ownership. These premium components include:



- Best-in-class Allen Bradley PLC
- Reliable Elmo Rietschle vacuum pump with 12-month service interval

Controlling the dissolved as well as the free water in the reservoir is critical in ensuring the absence of free water during operation. With the Pall HLP50 purifier, this is done efficiently, easily, and reliably. The diagram below illustrates the concept.



- 1 Initial water content is above saturation (free water).
- 2 Maximum water removal capability of "free water removal" devices (coalescers, centrifuges, etc.) is to the oil's saturation point.
- 3 Water content achieved with mass transfer dehydration is significantly below the oil's saturation point.
- 4 Water content achieved with mass transfer dehydration remains below the oil's saturation point even after oil is cooled. This prevents the formation of harmful free water.
- 5 If only free water is removed at initial temperature, when oil is cooled the amount of harmful free water in the oil can increase significantly.

## Ease of Use

The HLP50 series offers the following features to increase versatility in service and lower cost of ownership:

- Low maintenance
- Able to work with wide range of oil viscosities (3 cSt to 700 cSt)
- No utility water required for cooling or pump operation the only utility needed is an electrical power source

## **Standard Features**

Pall HLP series purifiers come with the following standard features that many suppliers charge extra for:

- Dissolved water sensor (Pall model WS10)
- · Low-watt density heater (30kw output)
- · Condenser with gravity drain

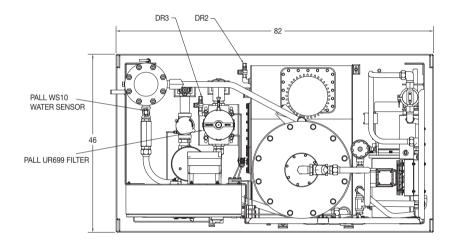
# Focus on your Process, Not on your Purifier

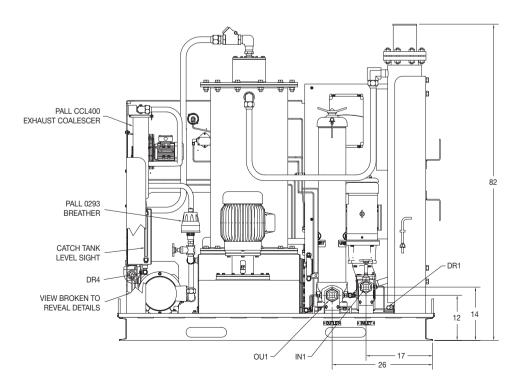
HLP Series purifiers require a minimum of user interaction, which allows customers to focus more on their process and less on maintaining and upkeep of their purifier.

The HLP purifier is one of the easiest purifiers to operate. Simply connect the purifier to the reservoir, power up, and press the start button. In fact, many HLP users are able to just "press the button and walk away."

- Extended vacuum pump oil change interval 12 months (8760 hours of run time)
- No water utility for cooling or pump operation

# Dimensions (inches)



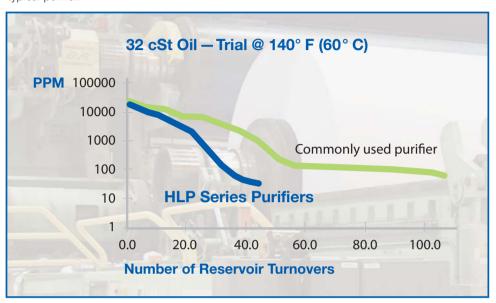


## Performance

The Pall HLP Series of purifiers has a new vacuum tower design that maximizes water removal (see chart below). The HLP50 removes 100% of free, un-dissolved gases and

water (under steady state conditions), and up to 80% of dissolved gases and water. It also removes solid contaminants with efficiency of 99.9% (down to 3 microns).

HLP Series oil purifiers showed a 40% faster dehydration rate when compared with a typical purifier.





# **HLP50 Specifications**

50 GPM (189 LPM)
3010 lbs (1365 kg)
82" H x 82" L x 46" W (208 cm x 208 cm x 117 cm)
3 cSt to 700 cSt
Fluorocarbon
NEMA 4 (IP65)
170°F (76.7°C) maximum
39°F to 105°F (3.9°C to 40.6°C)
-14" Hg to 10 PSI (-0.47 bar to 0.69 bar)
80 PSI (5.5 barg) maximum
15" Hg to 22" Hg (-0.51 bar to -0.75 bar)
30 KW (low watt density)
Powder coated (suitable for industrial phosphate ester service)
UR699 series with 40" element

# **Part Numbers / Ordering Information**

HLP50 1 2 3 4 5 6 7 8 \*WS10 water sensor is standard equipment on all HLP purifiers

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Code	Voltage
R3	380V / 50 Hz / 3P
W4	480V / 60 Hz / 3P
14	575V / 60 Hz / 3P

#### Table 2

Code	Filter Element Options	
	ßx(c)≥1000 Based on ISO 16889	CST Rating*
AZ	3	08/04/01
AP	5	12/07/02
AN	7	15/11/04
AS	12	16/13/04
AT	22	17/15/08

\*CST: Cyclic Stabilization Test to determine filter rating under stress conditions, based on SAF ARP4205

#### Table 3

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Code	Seal Material
Z	Fluorocarbon

#### Table 4

Code	Mounting Option
N	Static
Р	Tow Package

#### Table 5

Code	Ports
Т	NPT Tapered Inlet = 2" FNPT Outlet = 2" FNPT

## Table 6

Code	MFG Location
W	Western Hemisphere

## Table 7

Code	Language
EN	English
ES	Spanish
FR	French
BP	Brazilian Portuguese

## Table 8

Code	Special Options
OMIT	No Special Options
P001	Tested with Fyrquel® Fluid
P002	Industrial Lighting Scheme



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