

## NEW: HNP075 Series Oil Purifier

### For fluid viscosities to 700 cSt

**Water in hydraulic, lubrication, power transmission and insulating fluids adversely affects fluid performance and is a threat to system reliability.**

Water contamination promotes corrosion and fluid system component wear, resulting in reduced component life and increased maintenance costs. It also degrades fluid properties, leading to reduced lubricity and load carrying ability, oil oxidation and the resultant formation of acids, and additive precipitation. The consequences are reduced fluid service life, increased fluid procurement and disposal costs.

The 'Pall' HNP075 Series Oil purifier is designed for use with medium to large oil systems, particularly where high viscosity fluids are employed.

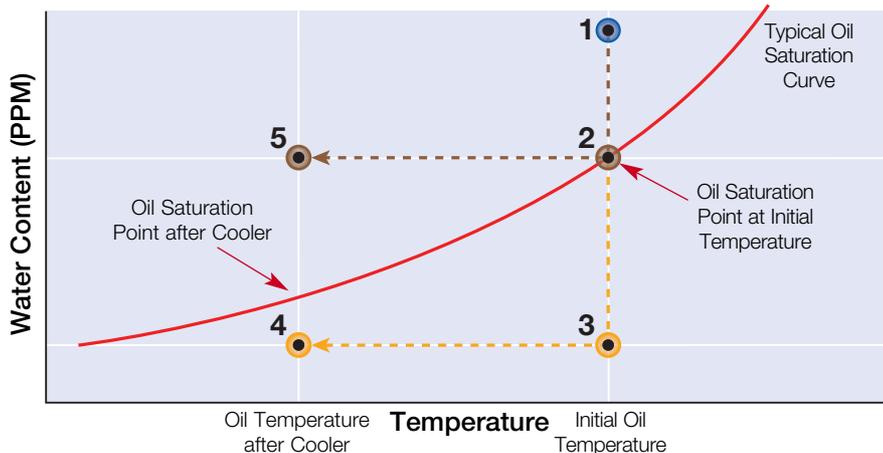
The Pall HNP fluid conditioning purifier uses vacuum dehydration to remove 100 % free water and as much as 90 % of dissolved water. It will also remove 100 % of free and entrained gases and up to 80 % dissolved gases.

Vacuum dehydration is the most effective method of water removal at minimum cost and ease of use. Unlike other methods it removes both free and dissolved water and cannot burn or otherwise significantly alter the properties of the oil.

Particulate contaminant removal is achieved using high performance rated Ultipleat® SRT filter elements.

In addition, a water sensor measures water content and temperature at the purifier inlet, allowing the purifier to operate only when the water content rises above a pre-determined level.

### Removing free water is never enough!



- 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 by the system heat exchanger. This prevents the formation of free water which is detrimental to fluid system components and the fluid.
- 5 If only free water is removed at initial temperature, when oil is cooled the amount of free water in the oil can increase significantly.



HNP075 Series (mobile) Oil Purifier

### Select the HNP075 oil purifier for:

- High performance water, gas and particulate removal
- Extension of fluid service life
- Minimized corrosion within systems
- Reduced fluid disposal
- Reduced operating costs
- Increased equipment reliability
- Simple automated operation
- Remote monitoring option

## Specifications

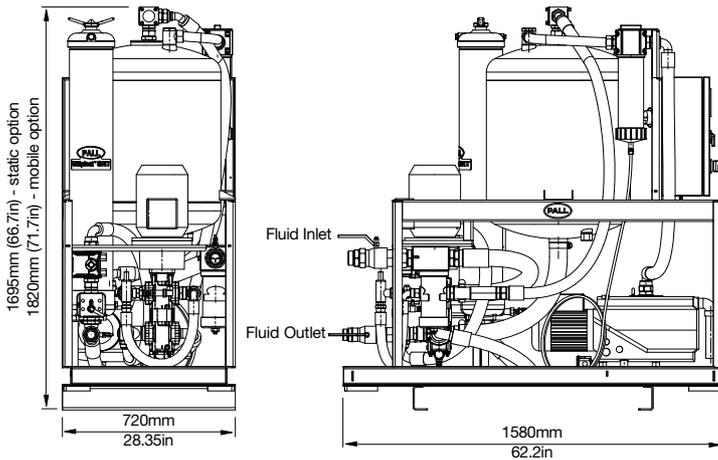
Dimensions (max):	725 x 1585 x 1820 mm (28.5" x 62.4" x 71.7")
Dry mass:	385 kg (849 lbs) approx
Inlet connections:	2" BSPP or 2" NPT
Outlet connections:	1½" BSPP or 1½" NPT
Flow rate:	71 L/min (21.8 USgpm)
Inlet pressure:	1.5 bar g (150 kPag / 44 psig) maximum
System back pressure:	3.5 bar g (350 kPag / 50.8 psig) maximum
Fluid operating temperature:	+10°C to +70°C (50°F to 158°F)
Fluid viscosity:	700 cSt (3300 SUS) maximum
Operating vacuum:	-0.6 to -0.9 barg (adjustable) (-60 kPag / -8.7 psi g to -90 kPag / -13.1 psi g)
Power supply:	400 VAC – 50 Hz, 3 phase
Total Motor power:	6.4 kW

## Materials of Construction

Base frame:	Epoxy painted carbon steel
Vacuum vessel:	304 Stainless Steel
Fittings & fasteners:	Corrosion protected carbon steel
Control box:	Epoxy painted carbon steel
Hydraulic hoses & seals:	Fluorocarbon

**Note:** Pall HNP075 series fluid conditioning purifiers comply with all applicable EC directives and bear the CE mark.

Fig. 1 Typical static option



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Filtration. Separation. Solution.<sup>SM</sup>

## Ordering Information

Purifier P/N: **HNP075** 1 3 2 3 4 5 6

**Note:** Z indicates fluorocarbon seals and AQP Elastomer Tube\* hoses are standard. Other options are available; contact Pall.  
EN indicates English language for HMI Display and Service Instructions as standard. Other language options are available; contact Pall.

Table 1 - Standard Voltage/Frequency Options

Code	Voltage	Frequency
R	380 VAC	50 Hz, 3 phase
S	400 VAC	50 Hz, 3 phase

Table 2 - Seal Type

Code	Material
H	Nitrile
Z	Fluorocarbon

Table 3 - Mounting Options

Code	Mounting Type
C	Mobile (2 fixed and 2 swivel castors)
N	Static (skid mounted)

Table 4 - Process Port Connection Options

Code	2" Inlet / 1½" Outlet Connections
P	BSP ISO 228 threads
T	NPT SAE threads

Table 5 - Language Options

Code	Language
DE	German
EN	English
ES	Spanish
FI	Finnish
FR	French
IT	Italian
NL	Dutch
PL	Polish
RU	Russian
SV	Swedish

Table 6 - Optional Factory Fitted Kits

Code	Kit
A	No optional kit(s) fitted
B	Electrical Connection Kit

## Optional inlet & outlet hose 5m P/N: HNP075HZ

Element P/N: **UE 619** 1 **40Z**

**Note:** Z indicates fluorocarbon seals are standard. Other options are available; contact Pall.

Table 1 - Element Rating

Code	$\beta_{x(c)} \geq 1000$ based on ISO 16889
AZ	3
AP	5
AN	7
AS	12
AT	22

## Replacement Air Breather P/N: HC0293SEE5



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