



HNP022 Oil Purifier

Description

Save money with the Pall portable purifier

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

The Pall HNP022 purifier solves the problem and unlike centrifuges and coalescers, it removes both free and dissolved water and gases.

Features - Water, Gas and Particulate Removal

The HNP fluid conditioning purifier removes:

- ▶ 100 % free water and as much as 90 % of dissolved water.
- ▶ 100 % of free and entrained gases and up to 80 % dissolved gases
- ▶ Fine particulate, using a high performance filter element
- ▶ Simple automated operation
- ▶ In-built water sensor
- ▶ Fully portable for multiple site application



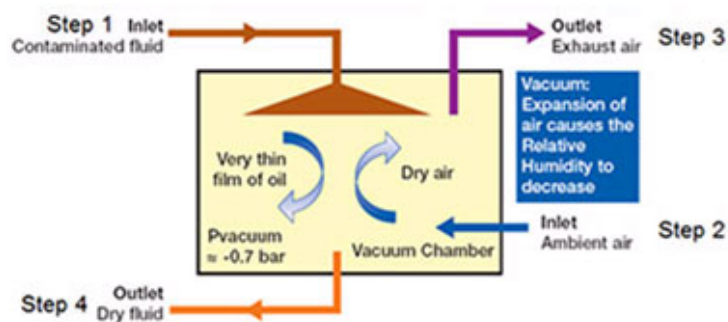
Benefits - Reduced Maintenance Costs

High performance water, gas and particulate removal leads to.....

- ▶ Extension of fluid service life
- ▶ Minimized corrosion within systems
- ▶ Reduced fluid disposal
- ▶ Low operating costs
- ▶ Increased equipment reliability

How Does it Work

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 without significantly altering the properties of the oil.



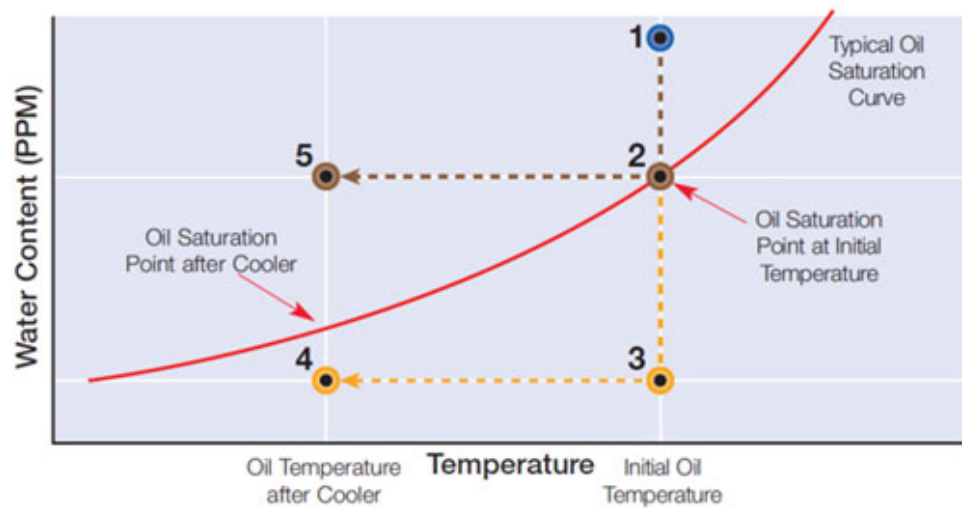
1. Contaminated fluid is passed into the vacuum chamber via a nozzle. The nozzle creates small oil droplets with a large surface area

2. Ambient air is drawn into the vacuum chamber through an air breather filter. The air expands and this causes a decrease in relative humidity.

3. Dehumidified air is drawn through the outlet at the top of the vessel. Water and volatile solvents are removed from the vacuum chamber with the dry air.

4. Particles are removed when the dry fluid exits the vacuum chamber through a β 5(c) \geq 1000 Ultipleat SRT filter element.

Removing free water is never enough!



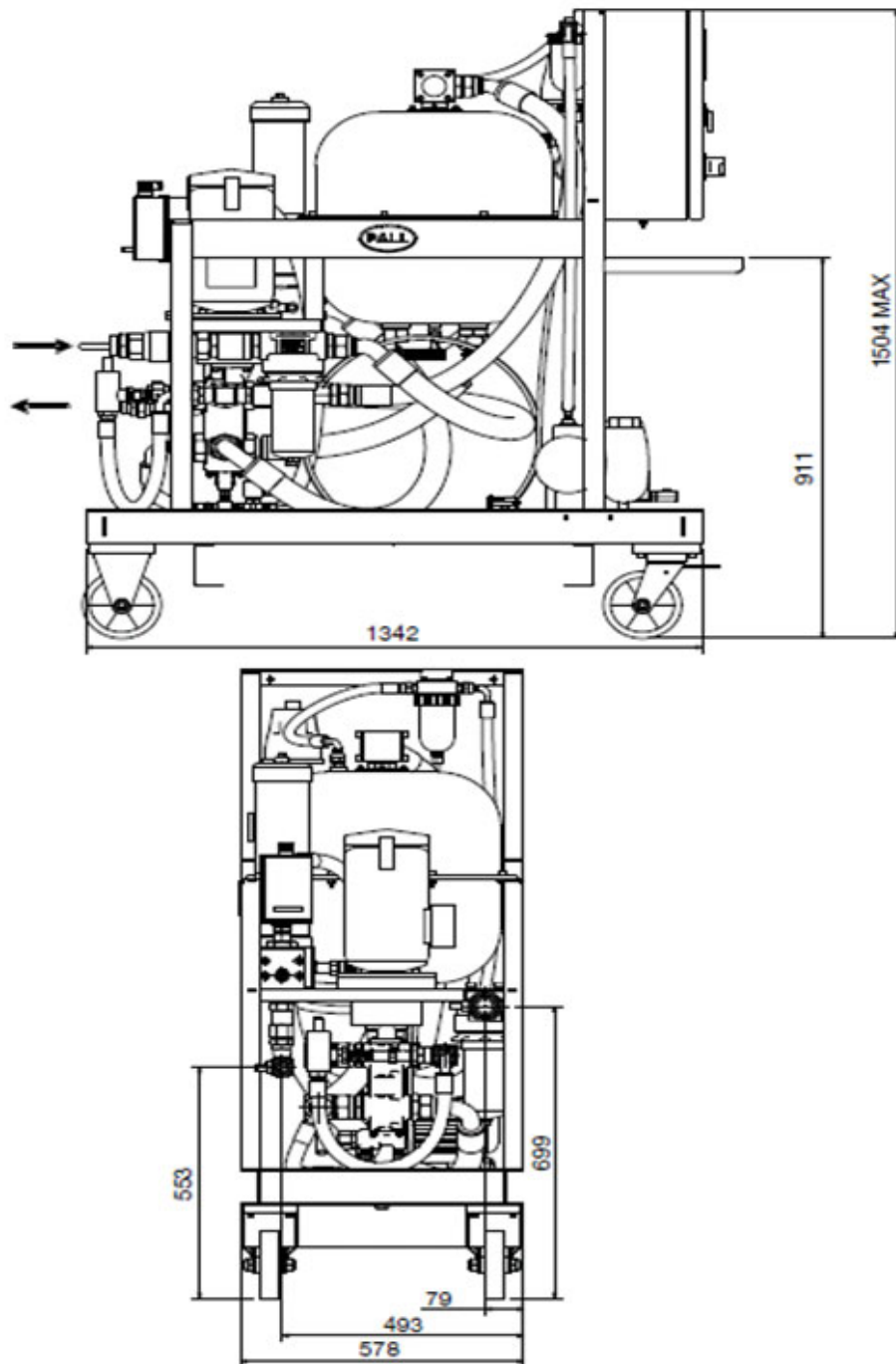
- ▶ Initial water content is above saturation (free water).
- ▶ Maximum water removal capability of “free water removal” devices (coalescers, centrifuges, etc.) is to the oil’s saturation point.
- ▶ Water content achieved with mass transfer dehydration is significantly below the oil’s saturation point.
- ▶ 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.
- ▶ If only free water is removed at initial temperature, when oil is cooled the amount of free water in the oil can increase significantly.

Specifications

Flow Rate:	25 L/ min (6.6 US gpm)
Dry Weight:	250 kg (551 lb)
Overall Dimensions: H x L x W	1342 mm x 578 mm x 1504 mm 52.8 in x 22.7in x 59.2in
Inlet/Outlet Connections:	Please see ‘Ordering Information’ tab above
Inlet pressure:	1.5 barg (21.8 psig) maximum
System back pressure:	4.6 barg (66.7 psig) maximum
Fluid Temperature Range	+10 °C (50 °F) to +70 °C (158 °F)
Maximum Viscosity	700 cSt maximum
Total Motor Power	2.22 kW maximum

Materials of Construction

Base frame:	Carbon Steel; painted
Vessel:	304 Stainless steel
Hydraulic fittings:	Zinc plated carbon steel
Control box:	Carbon steel, painted
Hydraulic hoses and seals:	Fluorocarbon



Performance

HNP022 Performance

The HNP Oil purifier is designed to reduce and maintain the water content in a fluid system to below the saturation level of the system fluid (< 300 ppm for a typical mineral oil). However, where a large water ingress occurs, the HNP022 can remove up to 12 gallons (45L) per day. Actual water removal rate depends on many variables including system design, oil type, temperature, viscosity, water content, emulsion stability, and additives

Ordering Information

HNP022 [Table 1 Code 1] [Table 1 Code 2] Z [Table 2] [Table 3] EN [Table 4]

Note: Z indicates seals and chlorinated polythene hoses are standard. other options are available; contact Pall.
EN indicates English language as standard. other language options are available; contact Pall.

Table 1 - Standard Voltage/Frequency Options

Code 1	Voltage	Code 2	Frequency	Control Voltage
		5	50 Hz, 1Ø	

F	110 Vac	6	60 Hz, 1Ø	24 Vdc
N	230 vac	5	50 Hz, 1Ø	
S	400 Vac	3	50 Hz, 3Ø	
V	460 Vac	4	60 Hz, 3Ø	

Standard voltages only listed. Other voltages will be available on request - price and lead time will be provided on application.

Table 2 - Mounting Options

Code	Mounting Type
C	Castor - Ø6", 2 x fixed / 2 x swivel
N	Static - Mounting Channel c/w Ø10.5 bolt holes

Table 3 - Process Port Connection Options

Code	Type	Inlet	Outlet
P	Parrallel	G1 ½ male to ISO228 c/w bonded seal surface	G1 male to ISO228 c/w bonded seal surface
T	Taper	1 ½ -NPT male to ANSI B1.20.1	1 NPT male to ANSI B1.20.1

Table 4 - Optional Factory Fitted Kits

Code	Kit
A	No optional kits(s) fitted
B	5m Electrical Cable and IEC 60309 Cable Mount Plug and Wall Maount Socket

Contact Information

Pall Office(s)

World Headquarters
 25 Harbor Park Drive
 Port Washington, NY 11050
 USA
 Phone: (516) 484-3600
 Alternate Phone: **1-800-289-7255**
 Fax: (516) 801-9754
[Driving Directions](#)
[Map](#)

Pall Trincor
 770 Pennsylvania Drive
 Suite 100
 Exton, PA 19341
 USA
 Phone: 610 458 9500
 Fax: 610-458-9595

Distributor(s)

Applied Energy Company
 1205 Venture Court
 Suite 100
 Carrollton, TX 75006
 USA
 Phone: 214-355-4200
 Fax: 214-355-4201

Applied Energy Company, LLC.
 9421 FM-2920, BLDG 21
 Tomball
 TX 77375
 USA
 Phone : 281-351-2396
 Fax : 281-351-2670
 Alternate Phone : 214-335-3307

Applied Energy Company
 5728 Plache Street, Suite A
 New Orleans, LA 70123-4132
 Phone: 504.733.9015
 Fax: 504.734.5734

Applied Energy Company
6803 South Western Avenue
Suite 407
Oklahoma City, OK 73139
Phone/Fax: 405.634.3636

Applied Energy Company
Arkansas USA
Phone : 800-624-4245
Email :
jeff.moreau@appliedenergyco.com

Applied Energy Company
New Mexico USA
Phone : 800-580-1171
Email :
mark.scott@appliedenergyco.com

Applied Energy Company
110 Travis St.
Suite # 225
Lafayette,
Louisiana 70503
USA
Phone : 337-839-9730
Fax : 337-572-8017
Email :
jeff.moreau@appliedenergyco.com

Enpro, Inc.
121 S. Lombard Road
Addison, IL 60101
Phone: 630-629-3504
Fax: 630-629-3512
Email: inquiry@enproinc.com
Website:
<http://www.enproinc.com>

Enpro, Inc.
8888 Keystone Crossing
Suite 1300
Indianapolis, IN 46240
Phone: (317) 872-1422
Fax: (317) 872-1554
Email: inquiry@enproinc.com
Website:
<http://www.enproinc.com>

Enpro, Inc.
7300 West 110th St., 7th Floor
Overland Park, KS 66210
USA
Phone: (913) 327-8400
Fax: (913) 327-8401
Email: inquiry@enproinc.com
Website:
<http://www.enproinc.com>

Enpro, Inc.
1001 Craig Road
Suite 260
St. Louis, MO 63146
USA
Phone: (314) 878-6161
Fax: (314) 878-0470
Email: inquiry@enproinc.com
Website:
<http://www.enproinc.com>

Enpro, Inc.
11329 P St., Ste 110
Omaha, NE 68137
USA
Phone: (402) 597-2306
Fax: (402) 597-2320
Email: inquiry@enproinc.com
Website:
<http://www.enproinc.com>

Flodraulic Group - West Coast
2125 East 5th Street, Suite 113
Tempe, AZ 85281
Phone: 480.921.5440
Phone: 866.921.5440
Fax: 480.921.3272

Flodraulic Group
2881A Saturn Street
Brea, CA 92821
USA
Phone: 714 578 2940
Fax: 714 578 2954

Flodraulic Group
2881A Saturn Street
Brea, CA 92821
USA
Phone: 714 578 2940
Fax: 714 578 2954

Flodraulic Group
3539 North 700 West
Greenfield, IN 46140
USA
Phone: 317-890-3700
Fax: 317-890-3707

Flodraulic Group - Mid West
765 N. Hague Ave
Columbus, OH 43204
Phone: 614-276-8141
Phone: 800-347-7727
Fax: 614-274-6766

Flodraulic Group - West Coast
2125 East 5th Street, Suite 113
Tempe, AZ 85281
Phone: 480.921.5440
Phone: 866.921.5440
Fax: 480.921.3272

Hydra Air Pacific
3169 Koapaka Street
Honolulu, HI 96819
USA
Phone: 808 834 7656
Fax: 808 839 7040

Inseco, Incorporated
Julia Industrial Park
A Street – Matadero Corner
San Juan, PUERTO RICO 00920
Tel: 787.781.2655
Fax: 787.793.3620
E-Mail:
Nestor_Guedez@insecopr.com
Contact: Nestor Guedez

J.M. Grimstad Inc.
S84 W18887 Enterprise Drive
Muskego, WI 53150
USA
Phone: 414.422.2300
Fax: 414.422.2339

J.M. Grimstad Inc.
6203 Chancellor Drive
Cedar Falls, IA 50613
Phone: 319.277.8550
Fax: 319.277.1691

J.M. Grimstad Inc.
1100 Zane Avenue North
Minneapolis, MN 55422
Phone: 763.544.6100
Fax: 763.544.0282

Ralph W. Earl Company
5930 Easy Molloy Road
Syracuse, NY 13220
USA
Phone: 315 454 4431
Fax: 315 454 0977

S.G. Morris Company
699 Miner Road
Cleveland, OH 44143
USA
Phone: 866-746-6774
Fax: 866-746-2556

S.G. Morris Company
217 Executive Drive, Suite #201
Cranberry Twp., PA 16060-6411
Phone: 724.779.0010
Fax: 724.779.0090

Systems Specialties, Inc.
390 Enterprise Court
Bloomfield Hills, MI 48302
USA
Phone: 248 332 0099
Fax: 248 332 4919

Tech Star, Inc.

200 West 34th Avenue

Suite 381

Anchorage, AK 99503

USA

Phone: 907 277 6624

Phone: 907 561 4900

Fax: 907 277 6629

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