



Portable Fluid Purifiers

Description



Portable Purification Systems Maximise System Reliability and Reduce Maintenance Costs

For military & commercial operators, hydraulic, lubrication, and cooling fluids account for a significant part of annual operating costs. Operators therefore require a process to extend fluid service life and also reduce the procurement and disposal costs due to waste fluids.

- ▶ Features
- ▶ Benefits
- ▶ How Does it Work?
- ▶ Approvals
- ▶ Water Sensor option
- ▶ Applications
- ▶ Typical Part Numbers

The Pall fluid purifier provides a portable, environmentally friendly solution to remove free and dissolved water, gases, solvents, and particulate contamination, and thus extend fluid and component life. It also improves system performance and responsiveness.



Features

- ▶ Removes 100% of free water and over 80% of dissolved water (less than 100ppm dissolved water in hydraulic fluid)
- ▶ Removes 100% of free and entrained gases and up to 80% of dissolved air/gases
- ▶ High-Efficiency Particulate Removal Filter: 3-micron absolute filter, 3 [5(c)] 1000
- ▶ Easy to connect, simple to operate, and requires minimum operator attention
- ▶ Operates under vacuum conditions without heating the fluid

System Reliability

Proven system with thousands of units deployed globally

Easily Portable

Small and lightweight. Mounted on wheels for high mobility. Rear wheel locks

Unattended Operation

Full PLC control designed for automatic, unattended operation.

Automatic controls will safely shut down and protect the system if fluid levels and pressures exceed normal limits.

No controls to set, no adjustments to make

Benefits

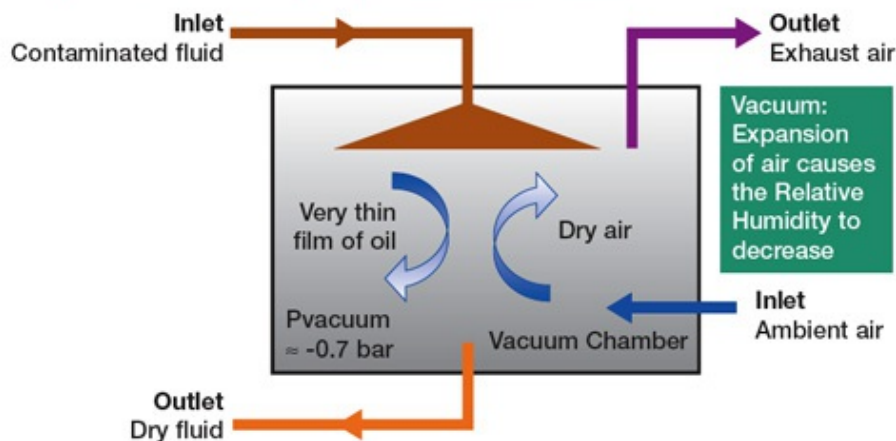
- ▶ Extends fluid service life (reduces new fluid procurement costs)
- ▶ Reduces fluid waste stream
- ▶ Reduces fluid disposal costs
- ▶ Increases system performance, reliability and maintainability
- ▶ Reduces downtime and servicing man-hours (i.e., drain and flush operations)

How Does it Work?

The Pall portable purifier removes water, air, and volatile solvents using a vacuum dehydration process. It removes solid particulate contaminant using a high-efficiency filter element.

Pall supplies several different versions of the fluid purifier. They all use the same basic principle to remove water and contamination; the only difference is in the method of oil dispersion within the vacuum chamber of the purifier.

Principle: Mass transfer by evaporation under vacuum



US Military Users

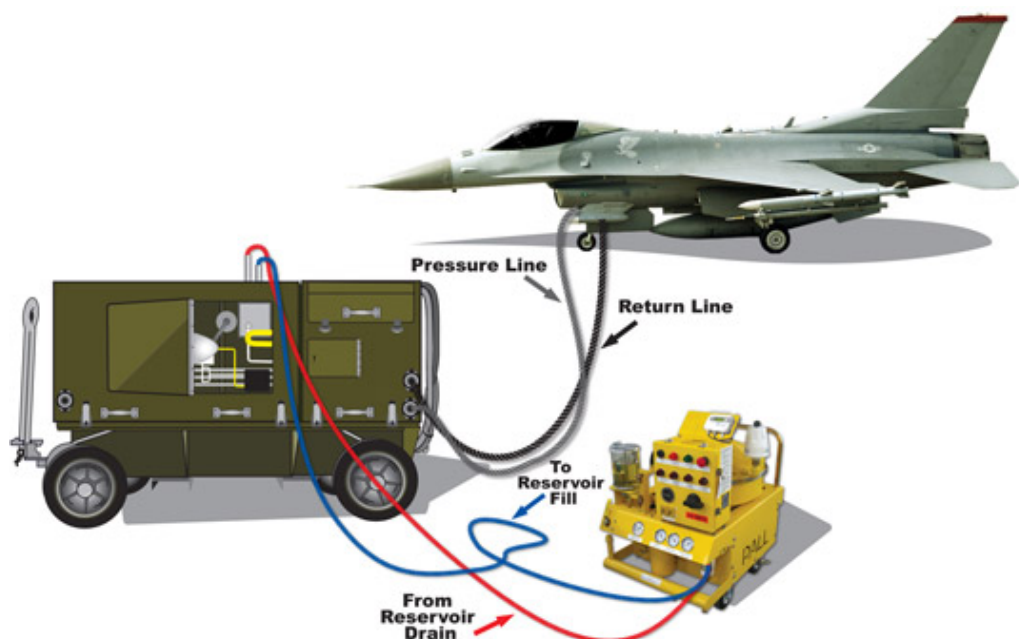
Pall supplies the spinning disc type of purifier, references: PE0107812H83; PE0107812HW83 (NSN: 4330-01-470-1855; 4330-01-522-2007)

European Military Users

Pall supplies the [nozzle type of purifier](#).

Aircraft Connection

Typically, the unit is connected to the aircraft via the hydraulic test stand (hydraulic mule). Pall also supplies a purifier that is suitable for direct connection into the aircraft. [Pall HSPA Hydraulic Fluid Purifier for Aircraft Maintenance](#)



Water Sensor Option



When you need to know water contamination levels, the Pall water sensor is a convenient in-line device that measures relative humidity and temperature which are used to calculate parts per million (PPM) water content. Fluid relative humidity is dissolved water content expressed as a percentage of the water saturation level of the fluid at the measurement temperature. Free water appears when the saturation level exceeds 100 %. This in-line device provides instant feedback on water contamination of the fluid being purified and can be used to control purifier operation.



Application

- ▶ Hydraulic fluids
- ▶ Lubrication fluids
- ▶ Electronic coolant fluids
- ▶ It is NOT suitable for recycling fuel

Approvals

Boeing Service Information Letter 707-SL-29-18, 727-SL-29-35, 737-SL-29-50, 747-SL-29-30, 757-SL-29-16, 767-SL-29-25.

Airbus Service Information Letter 29-051

Ordering Information

For ordering information, [contact](#) your local Pall Aerospace sales representative.

Typical Part Numbers

For availability of specific part numbers beginning HNP****, HVP****, or HSP****, [contact](#) Pall Aerospace Ltd (UK).

For part numbers beginning PE01078*** or PE00440***, [contact](#) Pall Aeropower Corp (USA).

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