

Continuous oil maintenance

Clean the oil to better than new



Our unique oil maintenance system

Purifiner is a bypass oil maintenance system that connects to a hydraulic or lubricating system to remove water and particles continuously.

The Purifiner maintains the oil quality by continuous removal of particles, free and emulsified water, sludge and acids in a two stage process; Stage one utilizes natural, 100% long-strand cotton fibers to capture particles > 1 micron and sludge. Stage two in the purification process is a patented flash evaporation process that dehydrates the oil and removes chemical contamination; water content is cut to 100-200 ppm (0.01-0.02%). Our systems are engineered to maintain oils at standard NAS 4 / ISO 13/10, typically better than new oil quality (NAS 6-8 due to contamination in the supply chain).

Research done by Norske Shell and many others, conclude that up to 80% of mechanical breakdowns are due to contaminated oil.



NP24ME

Mining and construction machinery

Filters and cleans oil for better quality than new oil free of particles and water. This prolongs oil life 10 to 15 times. Cleaner unit removes particles down to 1-3 micron. Evaporates all the water, including emulsified water in oil, down to 0.01%. Extends the oil's quality time. For direct installation on machine.

Applications: Mining and contractor machinery such as excavators, mobile cranes and overhead lifts, etc.

Specifications Purifiner Controller unit

Power Supply:	24 V
Nominal Wattage:	360W / 15A
Flow Rate:	600/24H – 25L/H
Back pressure:	Max 3 bar
Inlet pressure:	Max 200 bar
Filter:	1-3 micron (optional)
Water Removal:	Evaporation
Weight:	11 kg
Dimensions:	38 x 35.5 x 14 cm (H x W x D)

Filters WP-50B Up to 1500 litres system
WP-80 For extreme particle pollution



NP for non pressurized system

The NP unit is designed for hydraulic and lubricating oils. Used on non pressurized system or placed higher than the system will purify. The NP has the ability to lift oil into the filter, but must have an gravity based return back to the tank/oil reservoir. Water down to 100 ppm. (0.01%) and particles 1-3 microns.

Applications: Hydraulic systems such as balers, compactors, ro-ro equipment. This is mounted on the IBC tank for cleaning oil, such as freezer compressor oil or other places where it is not possible to permanently install the unit. There are two sets of oil in attendance, one to use and one for purification; just select one of the two as needed.

Specifications Purifiner NP5060PMH

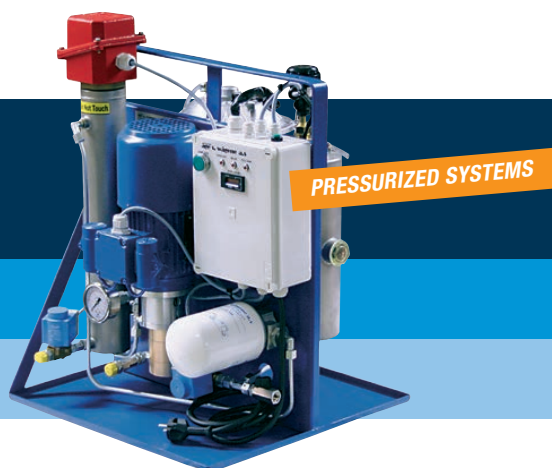
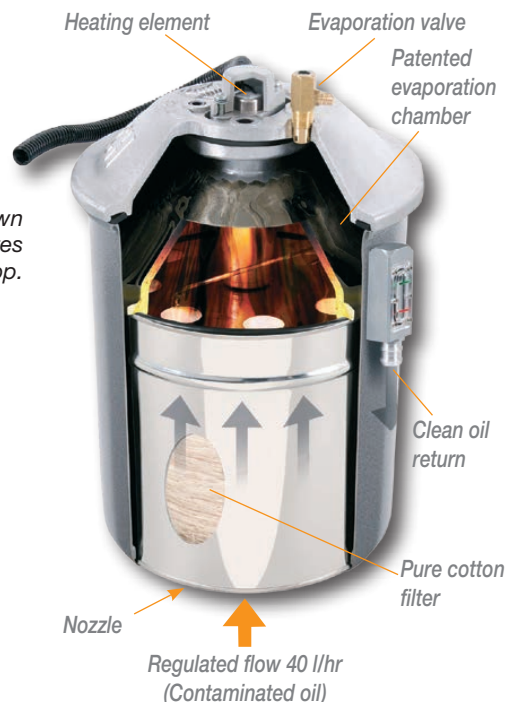
Capacity:	600 litres/24 hour (Single filter) 1,200 litres/24H (Twin filter)
Oil amount:	Up to 3,000 litres (6,000l for Twin and 9,000l for Triple units)
Oil type:	All hydraulic and lubricating oils
Viscosity:	32 - 320
Max. pressure in:	No back-pressure
Power consumption:	2,300 watt, 230 volt, 16 amp circuit
Connection:	3/8" BSP external thread
Warranty:	12 months
Weight:	35 kg
Dimensions:	64 x 45 x 47 cm (H x W x D)

Our patent filter removes particles down to 1-3 micron and the water evaporates in the specially designed top.

Two measures must be done to achieve optimum oil quality:

- > Remove particulate contamination, such as iron (Fe), copper (Cu), Silicon (Si) and other metals.
- > Remove chemical contaminants in the oil that is usually water.

Particle contamination is a result of mechanical wear, dust, maintenance operations, defective gaskets, clogged filters, etc. Water contamination typically is a result of condensation, leaks into system, air valves or compressors or other equipment in the system. In addition to being corrosive, water may in high-pressured systems be highly abrasive on the internal surfaces of the equipment.



PS for pressurized systems

The PS unit is designed for pressurized hydraulic and lubricating systems. This unit can be placed lower than the tank or return point. It can also handle back pressure from the hydraulic system up to 8 bar. The Purifier can be connected directly to the system as a bypass filtration.

Applications: Azipods, Thrusters, Stern tube on board vessels. It can also be used on all other hydraulic systems. The Purifiner can purify lubricating systems as well.

Specifications Purifiner PS5060PMH

Capacity:	600 litres/24 hour
Oil amount:	Up to 3,000 litres (flow in the system / tank to be cleaned)
Oil type:	All hydraulic- and lubricating oils
Viscosity:	32 - 320
Max pressure in:	200 bar (with reduction valve) 3 bar as standard
Max Back-pressure:	8 bar
Filter use:	Approx. 4 filters a year with continual use and in normal circumstances
Power consumption:	2,400 watt, 230 volt, 16 amp circuit
Connection:	3/8" BSP external thread
Warranty:	12 months
Weight:	45 kg
Dimensions:	64 x 45 x 47 cm (H x W x D)



Purifiner PS-Mobile

PS-Mobile has the same properties as the PS5060PMH but a higher capacity. The unit is mounted on the trolley, making it easy to move around. Suitable if you have many smaller systems you want to clean.

Applications: Suitable for cleaning many smaller systems such as elevators, presses, overhead lifts, small machinery, cranes, etc. The unit is well suited for rental companies to use on their own and others' fleet. Service and maintenance firms etc.

Specifications Purifiner PS5060PMH-Mobile

Capacity:	600 litres/24 hour
Oil amount:	Up to 3,000 litres (flow in the system / tank to be cleaned)
Oil type:	All hydraulic- and lubricating oils
Viscosity:	32 - 320
Max pressure in:	200 bar (with reduction valve) 3 bar as standard
Max Back-pressure:	8 bar
Filter use:	Approx. 4 filters a year with continual use and in normal circumstances
Power consumption:	2,400 watt, 230 volt, 16 amp circuit
Connection:	3/8" BSP external thread
Warranty:	12 months
Weight:	60 kg
Dimensions:	115 x 55 x 50 cm (H x W x D)



Purifiner PS-Twin

PS-Twin has the same properties as the PS5060PMH but a higher capacity. PS unit is designed for hydraulic oils, but can clean almost any type of oil. It is used for pressurized systems or where the cleaner unit remains lower than the system it will clean. PS-Twin plugs directly into the hydraulic system.

Applications: This unit is widely used for larger systems such as Azipod, Thrusters and Stern Tube on board vessels. Hydraulic central systems. The unit is highly accessible and can be used on any system where you have to collect the oil and return it back into the system.

Specifications Purifiner PS5060PMH-Twin

Capacity:	1,200 litres/24 hour
Oil amount:	Up to 6,000 litres (flow in the system / tank to be cleaned)
Oil type:	All hydraulic and lubricating oils
Viscosity:	32 - 320
Max pressure in:	200 bar (with reduction valve) 3 bar as standard
Max. back-pressure:	8 bar
Filter use:	Approx. 4 filters a year with continual use and in normal circumstances
Power consumption:	2,600 watt, 230 volt, 16 amp circuit
Connection:	3/8" BSP external thread
Warranty:	12 months
Weight:	60 kg
Dimensions:	64 x 76 x 47 cm (H x W x D)



Purifiner PS-Triple

PS-Triple has the same properties as the PS5060PMH but a higher capacity. PS unit is designed for hydraulic oils, but can clean almost any type of oil. It is used for pressurized systems or places where the cleaner unit is lower than the system to be cleaned. PS-Triple is connected directly to the hydraulic system.

Applications: This unit is used extensively for large systems such as Azipod, Thrusters and Stern Tube on board vessels and hydraulic central systems. The unit is highly accessible and can be used on any system where you have to collect the oil and return it back into the system.

Specifications Purifiner PS5060PMH-Triple

Capacity:	1,800 litres/24 hour
Oil amount:	Up to 9,000 litres (flow in the system / tank to be cleaned)
Oil type:	All hydraulic and lubricating oils
Viscosity:	32 - 320
Max pressure inn:	200 bar (with reduction valve) 3 bar as standard
Max. Back-pressure:	8 bar
Filter use:	Approx. 4 filters a year with continual use and in normal circumstances
Power consumption:	2,600 watt, 230 volt, 16 amp circuit
Connection:	3/8" BSP external thread
Warranty:	12 months
Weight:	70 kg
Dimensions:	64 x 76 x 47 cm (H x W x D)



Making your business greener...

The root cause of mechanical failures is contaminated oil and fuel. By maintaining oil and fuel quality by removing water and particulates, there will be less mechanical failures and downtime, reduced operating costs and consumption, and enhanced life of the equipment. Combined, the significant benefits of maintaining oil and fuel quality will make your business greener.