

# Continuous maintenance of engine oil



**Purifiner provide pure engine oil**

- Cotton filter removes particle down to 1 to 3 micron
- Evaporates away all water, fuel diesel
- Can extend the oil lifetime 3 to 5 times



**KEEP YOUR ENGINE OIL CLEAN**

# Filter for engine oil cleans out particle, evaporates water, fuel and gasses



## Purifiner engine oil filter is best suited for small engines.

The Purifiner system is unique in its inherent ability to address all forms of contaminants that occur in oils used in lubrication and hydraulic systems.

These contaminants can be divided into:

- Solid contaminants – for example wear metal, soot (carbon), dirt (silicon, sludge, etc.).
- Liquid contaminants – water, fuel (NB light hydrocarbons, etc.).
- Gaseous contaminants – Sulphur dioxide, Sulphur trioxide, nitrous oxide.
- Acidic contaminants – sulphuric acid, nitric acid. (Typically present as a result of reaction between liquid and gaseous contaminants).

To effectively remove these contaminant groups – and (of critical importance to oil quality) prevent the formation of certain contaminants – the Purifiner system incorporates the actions of:

- Fine filtration
- Flash evaporation

## Filtration

On entering the Purifiner system, oil will initially pass through a filter consisting of long strand, unprocessed cotton.

We need to recognize the reasons for using this cotton filter medium as well as the effect of fine filtration combined with essential chemical reactions that take place in the cotton filter.

Unprocessed cotton provides an excellent filtration material and is the basis for the ability of the Purifiner system to provide an absolute filtration capability down to 1 micron.



## Why fine filtration?

1. Particles size of less than one micron will not have an abrasive effect in hydraulic or lubrication oils.
2. Most quality oils will keep solid contaminants (such as sludge) in suspension to a particle size of 3 - 4 microns. When the particle size agglomerates to greater than this the contaminant will fall out of suspension to be deposited in the sump or other areas of the system, with resultant detrimental effect on the qualities of oil and system performance.

# Why choose purifiner?

- Clean cotton filter + evaporation of water-fuel
- Continuous oil maintenance provides the highest standard of oil
- Most reliable technology on the market
- The lowest operating cost for a filter system on the market
- Provides significant cost savings on oil and future breakdowns
- Small outlay with good return on investment
- Extends oil life by a factor of 3–5 times
- Highest oil standard = less mechanical failures and downtime

## Technical design

- Continuously oil maintenance
- Removes particles from oil
- 1-3 Micron
- Evaporates out water
- Down to 100 ppm



*Our patented filter removes particles down to 1-3 micron and evaporates water in the specially designed chamber.*

	WPM-100 Single	WPM-100 Twin
<b>Capacity (24hr)</b>	600 Liters	1200 Liters
<b>Sump size</b>	500 Liters	500-1000 Liters
<b>Power Consumption</b>	400 W	550 W
<b>Applications</b>	Engine oil or hydraulic systems	Engine oil or hydraulic systems
<b>Dimensions (L.W.H)</b>	61x33x70	51x54x70
<b>Voltage</b>	230 V or 400 V	230 V or 400 V
<b>Weight</b>	40 kg	60 kg

## Example of installation

The sump are pressure free. Easy installation, soak the oil from the bottom of the sump, return the oil the the top of the sump.







## Engine, WP-100

- 1 Engine
- 2 Oil Suction
- 3 Filter WP-100
- 4 El. Box
- 5 Framo Pump
- 6 Oil Return



## We make oil greener

The root cause of mechanical failures is contaminated oil. By maintaining oil 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 quality will make your business greener.

We have delivered more than 3,500 filter plant to shipping worldwide - with the best results.



**Wågene Purifiner Technology AS**  
 Østerøyveien 36, 3236 Sandefjord, Norway  
 Tel: 33 48 90 20 – E-mail: post@waagene.no