

NEVER change oil again!

(Eco)-Nephron Dialysis Elements

Available types:



Type 20 Element

Used in: Fixed Eco-Nephron units for combustion engines, hydraulics, gear boxed, turbines etc.

- height: 365mm
- Diameter: 300mm
- filter capacity: 20L
- Capacity: 100L / h
- Weight Nephron Element: 8kg
- Weight Eco- Nephron Element: 13kg

Nephron: Ultra fine filtration
Eco Nephron: Ultra fine filtration + pH regulation

The balanced combination of elements, pumps and centrifuges determine the total capacity of the Eco-Nephron unit.

Type 042 Element (left)

Used in: Mobile multi-purpose cleaning device s for turbine oil, hydraulic oil etc. (Not for combustion engines)



- height: 480mm
- Diameter: 160mm
- filter capacity: 8L
- Capacity: 80 ~ 100L / h

Type 040 Element (right)

Used in: Mobile multi-purpose cleaning device s for turbine oil, hydraulic oil etc. (Not for combustion engines)

- height: 240mm
- Diameter: 160mm
- filter capacity: 4L
- Capacity: 30 ~ 50L / h



Type 005 Element (left)

Used in: Direct Car fitting application up to 2000cc

- Height: 175mm
- Diameter: 70mm
- filter capacity: 500cc
- Housing: D 120mm – 150mm
H 220mm – 250mm



Type 003 Element (right)

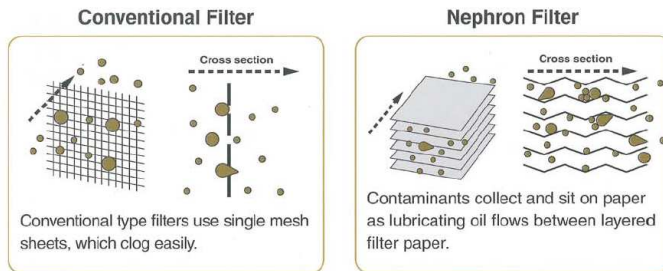
Used in: Direct Car fitting application up to 3000cc

- height: 120mm
- Diameter: 70mm
- filter capacity: 300cc
- Housing: D: 120mm – 150mm
H: 150mm – 180mm

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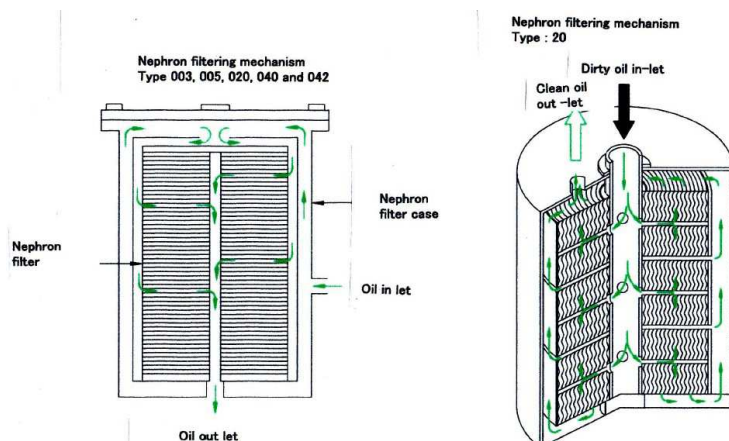
How it works:

Compared to conventional filters the (Eco)-Nephron dialysis elements are not using mesh filters, but a system of many (paper) sheets piled up in a cylindrical case. (see below drawing).



Particles will not accumulate and clog the mesh as it does in conventional systems.

Solid contamination is removed up to 1 μm (using the Brownian motion effect) and will collect up to 1000 times more contamination than conventional systems do. Below drawing shows the internal setup for the different types of elements.



The ultra-fine filtration will even remove harmful oxides and avoid foaming.

As contamination is continuously removed from the oil, also detergent dispersants are not required.

Nephron Dialysis Element can even remove water from the oil up to 0,2%.

The Eco-Nephron elements use the same principle as described above but are equipped with a Alkali catalyst, regulation the oil pH and keeping the TBN within specification.

Replacement:

(Eco)-Nephron dialyses elements should be replaced every 3000 running hours or at least every 10 months.

Please contact us for more information.