EHPF Series mobile oil filtration device

Description

The EHPF series of oil filters are high-end devices for purifying oils. The unit consists of a filter element, a gear pump, a drive motor, multiple-stage filtration cartridges, a pressure gauge, a pressure difference alarm device, an overflow bypass valve, oil inlet and outlet pipes, swivel wheels, and a handle for carrying. The filtering fineness can be selected according to needs.

Working Principle

The motor drives the oil pump to transport the oil. At first, the oil passes through a coarse filter that captures large particles of impurities, thereby protecting the pump. After that, it enters a high-precision fine filter. The fiberglass filter media captures solid contaminants such as metal shavings, dust and sludge in layers, from the outside inward; these captured particles do not flow back with the oil stream and thus cause no secondary contamination. The clean oil then returns to the tank, thereby improving the cleanliness level of the oil.

Core Features

1. Improve safety protections: built-in bypass valves to prevent flow interruption, pressure difference alarm functions, protection against motor phase loss and phase errors, as well as protection for the coarse filter before the pump.

2. Stable operation with low noise: The original hydraulic pump features strong self-priming capability, the entire unit has a compact design, and the portable version is equipped with swivel wheels for on-site filtration.

3. High versatility: It is suitable for hydraulic oil, lubricating oil, gear oil, turbine oil, and transformer insulating oil; it can be used in applications with high requirements such as precision servo systems, power plants, and wind power facilities.

Applicable Media & Application Scenarios

Applicable media: mineral hydraulic oil, lubricating oil, gear oil, turbine oil, transformer insulating oil and anti -wear medium oil.

Applicable industries: power plants, wind power, precision machine tools, construction machinery, metallurgical steel mills, hydraulic servo systems and rail transit.

Application: new oil filling precision filtration, on-line circulating purification of in-use oil of equipment; remove solid particles, moisture and bubbles in oil synchronously, reduce the wear of valve group, oil cylinder and servo pump, greatly prolong the service life of oil products and hydraulic components, and meet the strict cleanliness requirements of high-end equipment.

Technical Parameters

Mode Code	EHPF25	EHPF50	EHPF100	EHPF150
N. W. (kg)	100	115	160	165
Size (mm)	630x630x925	630x640x935	700x700x1520	700x720x1525
Flow Rate (L/min)	25	50	100	150
Power (kW)	0.75	1.5	3	4
Filter Media	Lubricating oil, hydraulic oil, insulating oil and other oils.			
Oil Viscosity (cSt)	< 300			
Working Temperature	0 ~ 80 ℃			
Inlet/Outlet Size	Inlet/Outlet：M36x2 Male thread	Inlet/Outlet：M36x2 Male thread	Inlet/Outlet：M52x2 Male thread	Inlet：M60x2 Male thread Outlet：M52x2 Male thread
Rated pressure(MPa)	1.0			
Supply Power	380V, 3P, 50Hz			

Ordering Optional Table

EHPF - 100 - V - 5

Device model

Flow rate (L/min)

25 50 100 150

Seals

N: NBR, V: FKM

Filter fineness(μm)

3 5 10 20

Filter Element

EYPF 8314 39 05 N

Filter element type

Filter element specification

Filter element length

16" 39"

Filter fineness(μm)

3 5 10 20

Seals

N: NBR, V: FKM