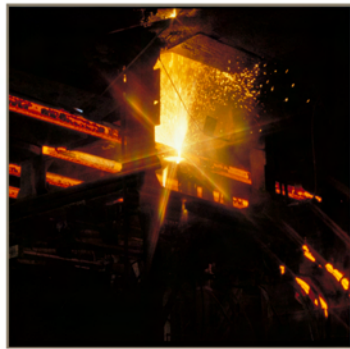


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# PVS 100 Purification Vacuum System

Separates water and gases from oil



ENGINEERING YOUR SUCCESS.

# Introducing the compact solution to separate water from oil - PVS100

The Parker PVS100 Model is designed to separate water and gases from lubricating oils and hydraulic systems. It is a continuous flow-through process, connected to the oil reservoir as a bypass circuit.

The requirement for system purity is a precondition for avoiding breakdowns in machinery and hydraulic systems. Intrusive water (for example, in the event of leakage, condensation and cleaning) reduces viscosity as well as causes structural changes in the composition of the oil including the additives. This may result in poor lubrication, bacteria growth and corrosion. This contaminates the oil and reduces the working life of the oil and its components.

Gases (such as nitrogen, hydrogen etc.) and air may cause oil oxidation and cavitations around rotating parts. Debris products from oxidation contaminate the oil and cavitations may seriously damage the machinery. Gases and air will be removed during the vacuum treatment part of the process.

An ATEX configured Zone 1 Model is also available. ATEX 94/9/EC-112G- Zone 1-T3, the PVS100 ATEX model meets all the demands of use in many hazardous environments. For example in the marine and offshore industries.

## Technical Specifications

Model:	PVS100
Viscosity (max):	700 cSt.
Operation Fluid:	Mineral oil, Insulating oil, Rapidly biodegradable fluid, HFD fluid.
Circulation Flow Rate:	2 to 10 L/min.
Max. Size of reservoir:	15 m3 (depends on the grade of contaminations).
Normal Operating Vacuum:	- 0.9 bar g.
Temperature Range:	15 - 70°C (Normal process 50-60°C).
Heater:	6000 W.
Water Removal:	100% of free water and gases, 90-100% of dissolved water and air.
Voltage:	380 - 440V or 230V, 3phase (Please specify)
Frequency:	50 - 60 Hz
Electrical Power:	7500 W with Heater (6 kW)
Consumption	
Weight (dry):	Approx. 115 kg
Overall Dimensions:	600mm x 400mm x 1040 mm (height)
Inlet Connection:	¾" BSP
Outlet Connection:	1" BSP

## Efficiency - A typical test run.

Viscosity:	32 cSt (mineral-oil)
Size of reservoir:	Approximately 200 litres
Circulation flow rate:	9 L/min
Run time:	1 hour
Water content start:	2.0 %
Water content stop:	50 ppm (0.005 %)

