Introduction

VKVP mobile oil purifier can remove water, contaminated particles and gas in hydraulic and lubricating oil with various viscosities. The power supply parameters shown on the name plate include the voltage rating of the pump motor. Part of the control voltage is DC 20V.

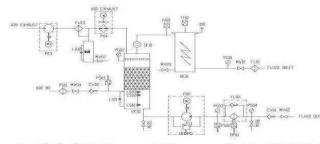
Functions

Water: 100% free water and 90% dissolved water.

Gas: 100% free gas, related to operating vacuum setting.

Pollutants: sediment and contaminative particles

Schematic diagram of equipment



The contaminated oil is extracted out of the oil system by inlet pump P01 through inlet isolation valve MV01 and oil suction filter FL01.

When the vacuum degree of the pump inlet reaches - 0.8bar (the inlet filter is blocked or the inlet valve is not opened), the pump should be shut down and checked to be normal before

When the vacuum at the pump inlet reaches -0.8bar (the inlet filter is blocked or the inlet valve is not opened), stop the pump and start it after checking that it is normal.

Normally, the oil enters the upper part of the vacuum container through the heating tank HE01 and window SF01, and is ejected through the nozzle to form a stable oil film in the vacuum tank.

The oil falls into the bottom of the container due to the action of gravity, and the gas and water vapor are discharged through the top of the container.

In order to maintain a stable vacuum, the air in the container is pumped out by the vacuum pump P03, and the external air enters the container after filtering through the side air filter PI01.

The air with low relative humidity and polluted oil flow form a large area of oil film cross flow

Because the vapor pressure in the polluted oil film is much greater than that in the air, a large amount of water in the oil is gasified.

Vacuum pump P03 produces stable vacuum degree in the container, thus obtaining air with low relative hum When the external air is sucked into the container through the air filter PI01 manual valve MV01, the volume can be expanded

by 3-10 times according to the vacuum setting of the container, resulting in the decrease of the relative humidity. When the external air is sucked into the container through the side air filter Pl01 level manual valve MV04, its volume can be expanded by 3-10 times according to the vacuum setting of the container, resulting in the reduction of its relative humidity

The vacuum in the container simultaneously causes dissolved gas and other gases in the on to escape and be pumped out to the

At any time, if the vacuum degree of the container drops to -0.45 bar, the system will shut down. This setting can be modified by the customer according to the specific application to obtain the best efficiency

The oil settled at the bottom of the vessel is pumped out by the outlet pump P02, and then leaves the oil purifier after passing

through the outlet filter FL02, check valve CV01 and outlet isolation valve MV02.

The sunken oil at the bottom of the container is pumped out by the outlet nump P02 and leaves the oil purifier after passing through the outlet filter FL02, one-way valve CV01 and outlet isolation valve MV02

VkKVP series ordering information

Oil purifier election: VKVP

Table1 Table2 Table3

Filter element election: VER8314KS

Table 1: Flow options

1	Code	Flow rate L/min	Filter element code	
]	70	70	26	
	100	100	32	
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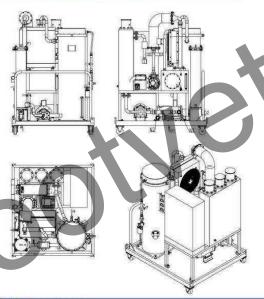
Table 2: product options

Code	Viscosity
Α	< 100cst
В	≤100cst~320cst
С	≤320cst~460cst

Table 3: explosion protection level options

Code	Explosion Protection Level
standard	Nil
DIICT4	DIICT4
	-

Dimensions of VKVP oil purifier



dissolved pas

M	odel	VKVP70			VKVP100		VKVP200			
Treatment ca	pacity (L/min)		70			100		200		
Inlet pres	ssure (bar)		-0.4 - 1							
Outlet pre	ssure (bar)	≤8								
Normal operati	ng vacuum (bar)		-0.6 ~ -0.9							
Inle	t size	M60x2								
Outle	et size		M52x2							
Maximum oil viscosity (CST) < 460		A	В	C	A.	8	C	A	В	C
		<100cst	≤100cst~320cst	≤320cst~460cst	<100cst	≤100cst~320cst	≤320cst~460cst	<100cst	≤100cst~320cst	≤320est~460cst
Total po	wer (kw)	18.25	19.35	25.35	25.95	27.05	36.05	38	41	43.5
Application	range of oil		Hydraulic oil, lubricating oil							
Maximum visco	sity of all (CST)		<460							
Temperatu	re range (°C)					40 ~ 70℃				
Net weight reference (kg) 790		980			1100					
Dimension reference	Length mm		1550		1600		1750			
	Width mm		1250		1450		1450			
	Heightmm		2000		2200		2300			
Water	Free water	100%Free water								
removal	Dissolved water	95%Dissolved water								
Degassing-	Free gas	100%Free gas www.hydroo						drooty		
	dicentian nee	90% discolved das						uiootv		

90% dissolved gas