Managing your oil contamination







Mini Water Vac VACUUM DEHYDRATION UNIT

The Mini Water Vac is a designated oil purification unit which can be applied directly to various types of machine reservoirs. It dehydrates and cleans most types of oil such as lubricating, hydraulic, transformer and switch oils.

The Mini Water Vac is a self-regulating processing unit which removes particles, gas and water. The purified oil satisfies the most stringent quality requirements.

Simple operation

The Mini Water Vac neither removes nor alters oil additives. The water removal process is based on pure vacuum evaporation inside a vacuum chamber at a maximum temperature of 65 °C. Solid particle removal is achieved through a well proven RMF Systems micro filter.

Mini Water Vac does not require continuous supervision whilst operating. Once the unit is connected properly and commissioned, oil purification is a semi automatic process. Desired oil temperature can be selected on the thermostat which is included in the integrated heater element of the dehydration unit.

Oil supply and removal from the vacuum chamber is a full automatic process which is controlled by a PLC.

The only manual action is the emptying of pre-condenser bowl and waste water container, both equipped with a float switch to prevent overflow, which will shut down the dehydration unit once the maximum level is reached.

Water, gas and particle removal

Mini Water Vac removes liquid, gas, and solid contamination, which are corrosive and contribute to the reduction of machine life. Water, gas and solid particle contamination greatly increase maintenance cost and contribute to unwanted breakdowns or total machine failures. Mini Water Vac offers protection against malfunctions, breakdowns or total failures.

The Mini Water Vac also protects the environment by reducing oil consumption and oil disposal along with it is inherent costs and problems.

Benefits

- Efficient water, gas and particle removal.
- Extension of fluid service life.
- Reduces fluid disposal.
- Minimises corrosion within systems.
- Reduces operating cost.



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TECHNICAL DATA MINI WATER VAC							
Filter model	MWV1A30G1B06000						
Voltage (standard)	230/400 VAC 50Hz						
Power supply (standard)	3-phase						
Frequency (standard)	50Hz						
Heater section	2 kW						
Vacuum section	0.37 kW vacuum pump						
Process control	24 VDC PLC unit						
Filtration section	1 micron glass fibre (β1 > 200)						
Dimension inlet	1" BSP female						
Dimension outlet	1/2" BSP female						
Maximum back pressure	1 bar						
Water removal capacity	Depending on oil and water contents						
Maximum temperature heater	65 °C						
Dimensions h x w x d (mm)	1,200 x 740 x 450						
Net weight	130 kg						



Ordering codes: Mini Water Vac vacuum dehydration unit

Filtertype: MWV units



Table 2	Tabl	e 3	Table 4	Table 5	Table	e 6	Table 7	Table 8	Table 9	Table 10		
Table 1 Basic configuration												
MiniWaterVac oil purifier		Industrial applications										
Housing configuration			Typical reservoir size				Number of elements					
Single housing (single length)			Suitable for 3,000 l reservoir				1 pcs element – (300 mm)					
Length elei	ment											
L = 300 n	nm	S	tandard									
Filter material												
Glass fibre, 1 micron, $\beta 1 \ge 200$		Standar	d									
Glass fibre, 3 micron, $\beta 3 \ge 200$		Optiona	I									
Glass fibre / polymer, 5 mic., $\beta 5 \ge 200$		Optiona	I									
Seal mate	erial											
Buna-N		S	tandard									
Viton		0	ptional									
Power supply options												
230/400 VAC 50 Hz / 255/460 VAC 60 Hz			3 phase with PLC control			Standar	ď					
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Table 7	Pump options	
60	1.0 cc/rev. group 1	Standard
Table 8	Heating element	
0	2,000 Watt	Standard
Table 9	Extra functions	
0	No extra functions	
1	Including water sensor	
Table 10	Options	
0	No options	









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