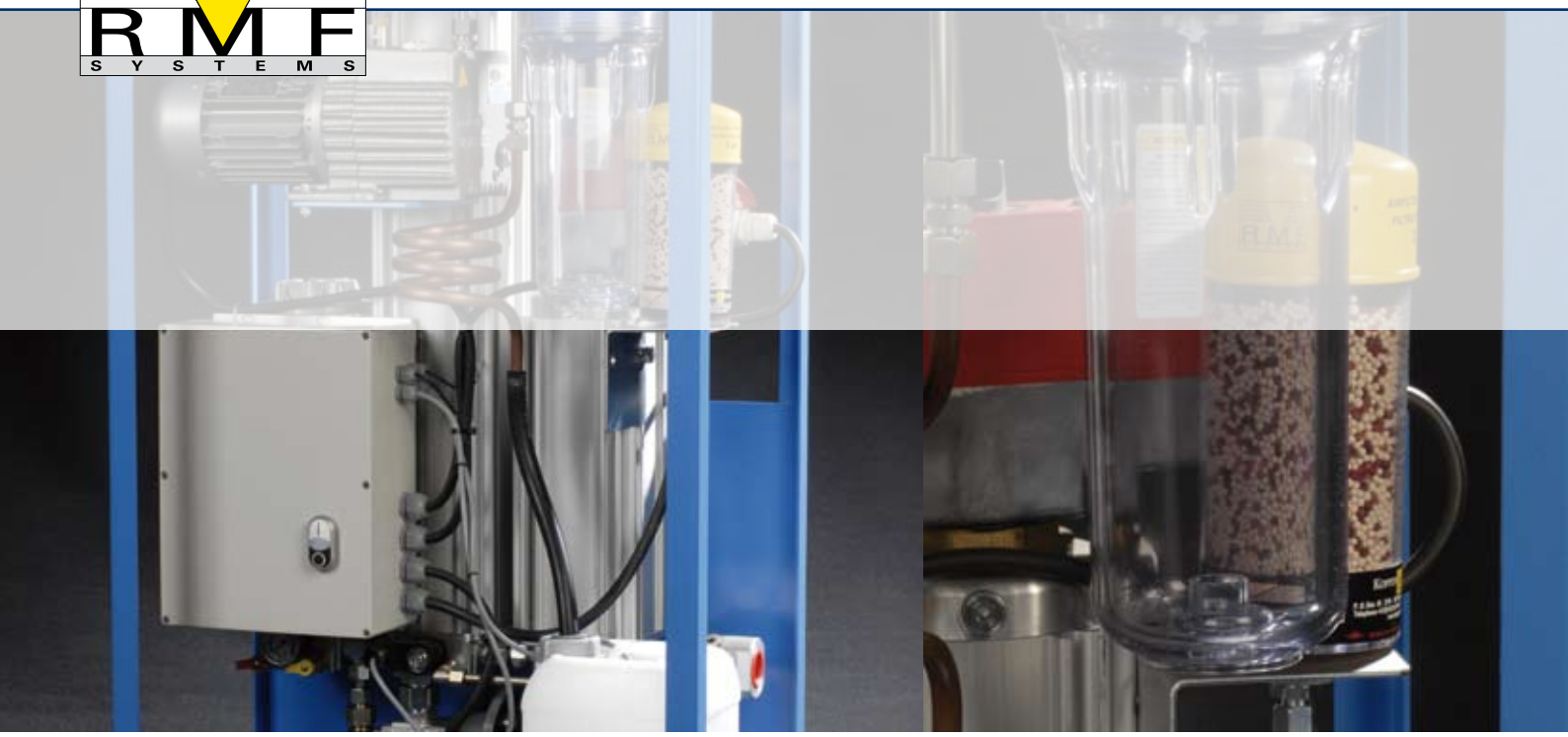
Managing your oil contamination

RMF SYSTEMS®



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.

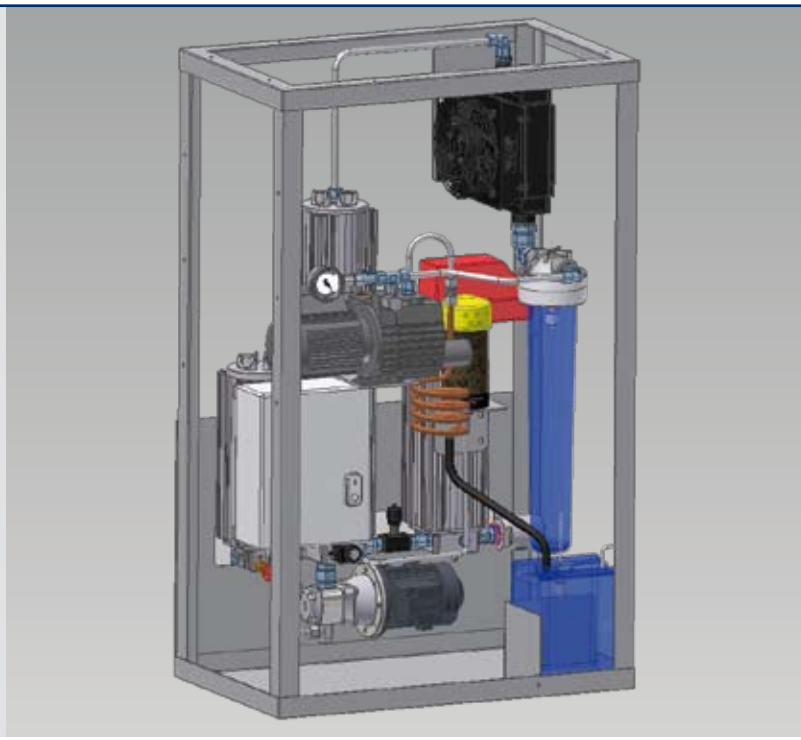
Benefits

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

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	½” 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

RMF SYSTEMS

Ordering codes:
Mini Water Vac
vacuum dehydration unit



Filtertype:
MWV units

Table 1	Table 2	Table 3	Table 4	Table 5	Table 6	Table 7	Table 8	Table 9	Table 10
MWV									

Table 1	Basic configuration	
MWV	MiniWaterVac oil purifier	Industrial applications

Table 2	Housing configuration	Typical reservoir size	Number of elements
1A	Single housing (single length)	Suitable for 3,000 l reservoir	1 pcs element – (300 mm)

Table 3	Length element	
30	L = 300 mm	Standard

Table 4	Filter material	
G1	Glass fibre, 1 micron, β1 ≥ 200	Standard
G3	Glass fibre, 3 micron, β3 ≥ 200	Optional
A5	Glass fibre / polymer, 5 mic., β5 ≥ 200	Optional

Table 5	Seal material	
B	Buna-N	Standard
V	Viton	Optional

Table 6	Power supply options		
0	230/400 VAC 50 Hz / 255/460 VAC 60 Hz	3 phase with PLC control	Standard
B	230/400 VAC 50 Hz / 255/460 VAC 60 Hz	3 phase with PLC control	Standard

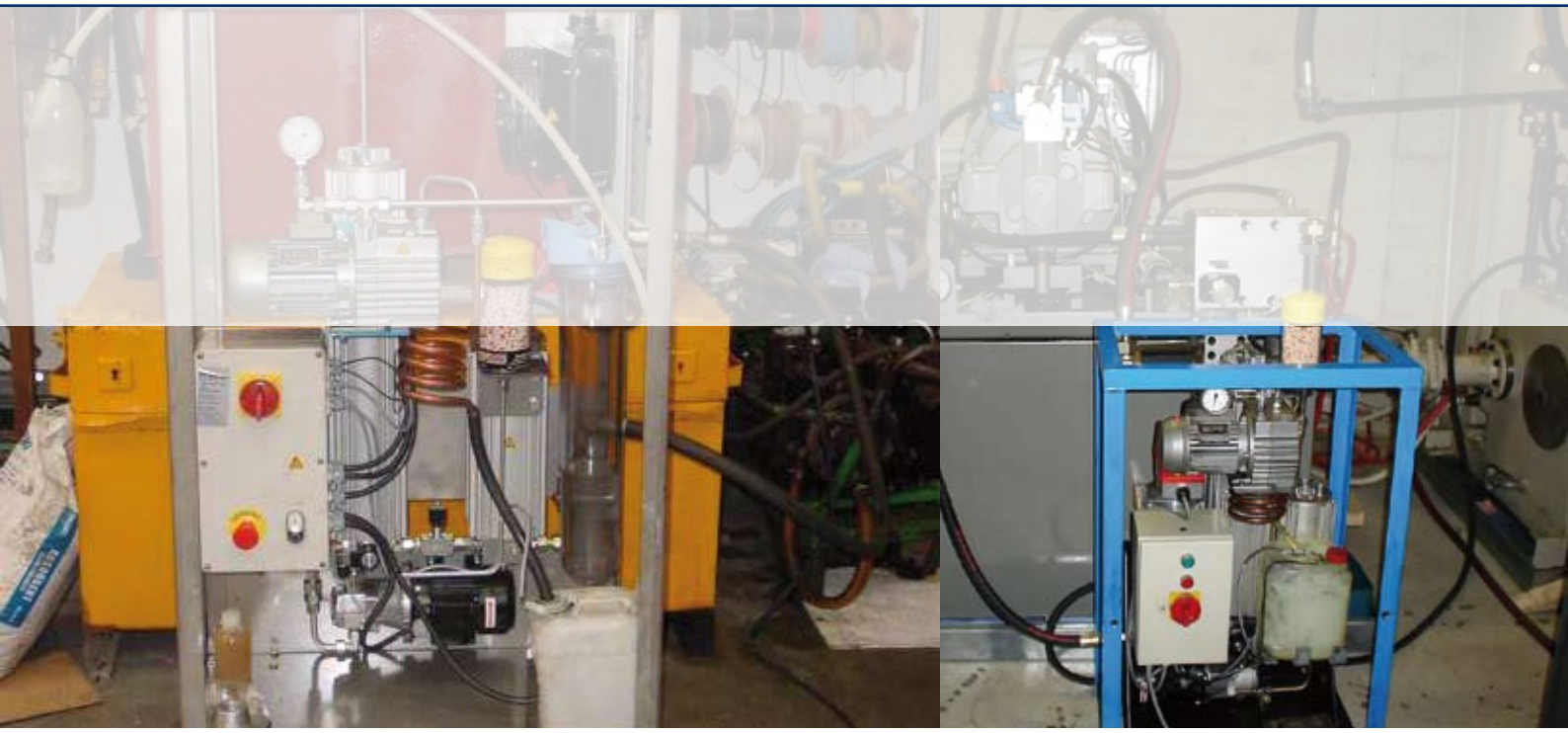


Table 7	Pump options	
60	1.0 cc/rev. group 1	Standard

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

Doedijns International B.V.

| Coenecoop 103 - 105 | 2741 PH Waddinxveen | The Netherlands
| P.O. Box 179 | 2740 AD Waddinxveen | The Netherlands
| t. +31 [0] 182 30 28 88 | f. +31 [0] 182 30 27 77
| info@doedijns.com | www.doedijns.com

Doedijns Hydraulics B.V.
Member of Doedijns International

| Coenecoop 103 - 105 | 2741 PH Waddinxveen | The Netherlands
| P.O. Box 179 | 2740 AD Waddinxveen | The Netherlands
| t. +31 [0] 182 30 28 88 | f. +31 [0] 182 30 27 77
| info@doedijns.com | www.doedijns.com
| info@rmffilter.com | www.rmffilter.com

Doedijns Asia Sdn. Bhd. (701989-P)
Member of Doedijns International

| 11A Jalan PJS 7/19 | Taman Bandar Sunway
| 46150 Petaling Jaya | Selangor D E | Malaysia
| t. +60 [0]3 5631 6733 | f. +60 [0]3 5632 6733
| info@doedijns.com.my | www.doedijns.com

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