

### UFM 091 + 181 + 919

### **Mobile Filtration Units with Inline Contamination Monitor**

11/2016 - rev. 00







#### Available in three configurations

- A configuration with start / stop differential pressure indicator visual
- B configuration with start / stop automatic motor cut-out from differential pressure indicator electrical/visual
- C configuration with start / stop phase inverter automatic motor cut-out from differential pressure indicator electrical/visual In Line Contamination Monitor ICM

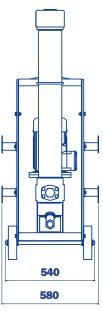
UFM 91 - 181 mobile filtration units suitable for filling and refilling of filtered hydraulic fluids and lubrication tanks.

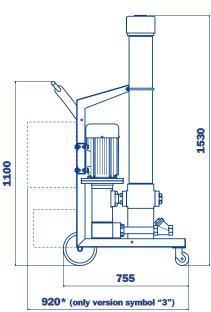
The filter unit connected to off-line to the tank, can be used as a support to the filtration plant on start-up for fast flushing action, either as additional filtration systems with a high incidence of contamination.

UFM 091 recommended maximum tank volume of 900/1300 L.
UFM 181 recommended maximum tank volume of 1800/2700 L.
UFM 919 two-speed electric motor with programmable flow of 90 or 180 I/min.

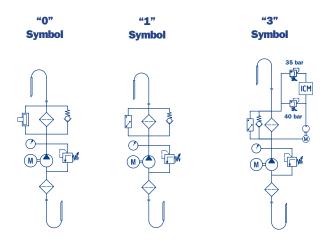
#### Possible applications:

- Low flow rate for filling and refilling of reservoirs with volume less than 1000 liters
- Low-flow filtration for off-line tanks with a volume less than 1000 liters
- Low-flow filtration of oils with high viscosity at low temperatures
- Low flow during start-up for filtration of oils with high viscosity at low temperatures, high flow rate with subsequent increases in temperature increase and viscosity reduction
- High flow rate for filling and refilling tanks with volume greater than 2000 liters
- High flow filter off-line reservoirs with volume greater than 2000 liters
- Compact size
- High flow
- Continue Operation Pressure 10 bar
- Easy to use
- Easy maintenance
- Reliable
- Absolute filtration
- In Line Contamination Monitor





## Symbols (see ordering information)





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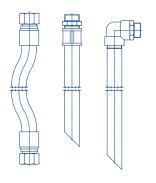
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Clogging indicator - Electrical/Visual

## Technical data

	UFM 091	UFM 181	UFM 919	
Pump	Screw pump	Screw pump	Screw pump	
Electric Motor	3.7/5 kW 400/230 V three	3.7/5 kW 400/230 V three	3.7/5 kW 400/230 V three	
	phase 2/4-pole	phase 2/4-pole	phase 2/4-pole	
Flow (I/min)	90 l/min - 1450 r.p.m.	180 l/min - 2900 r.p.m.	90 l/min - 1450 r.p.m. / 180 l/min - 2900 r.p.m.	
Max. Operation Pressure	10 bar	10 bar	10 bar	
Viscosity range	Min. operation 10 cSt	Min. operation 10 cSt	Min. operation 10 cSt	
	Max. operation 600 cSt	Max. operation 600 cSt	Max. operation 600 cSt	
	Max. only for cold start 2000 cSt	Max. only for cold start 2000 cSt	Max. only for cold start 2000 cSt	
Suction Filter	Type Y filtration 900 µm	Type Y filtration 900 µm	Type Y filtration 900 µm	
Fluid Temperature	From -10° to +80°C	From -10° to +80°C	From -10° to +80°C	
Ambient Temperature	From -20° to +45°C	From -20° to +45°C	From -20° to +45°C	
<b>Protection Class</b>	IP 55	IP 55	IP 55	
Seal	NBR	NBR	NBR	
Fluid Compatibility	Mineral Oil - Sintetic Oil - Water Glycol	Mineral Oil - Sintetic Oil - Water Glycol	Mineral Oil - Sintetic Oil - Water Glycol	
Weight	105 kg.	109 kg.	120 kg.	
Equipment	Differential Clogging indicator - Visual	Differential Clogging indicator - Visual	Differential Clogging indicator - Visual	
	Differential Clogging indicator - Electrical/Visual	Differential Clogging indicator - Electrical/Visual	Differential Clogging indicator - Electrical/Visual	
	• In line Particle Counter ICM + Differential	In line Particle Counter ICM + Differential	In line Particle Counter ICM + Differential	

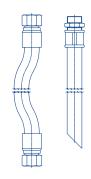
#### Hoses



Clogging indicator - Electrical/Visual

#### **Suction hose** DN50 length 3000 mm.

Lance DN50 length 700 mm. 90° - DN40 length 850 mm.



Clogging indicator - Electrical/Visual

## **Pressure hose**

DN38 length 3000 mm.

#### Lance

DN40 length 700 mm.

#### **Bypass options - 2 Housing spigot included**



Housing spigot No bypass



Housing spigot Bypass 3,5 bar



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# Ordering information - Filter element

Abso inorg CU 4 CU 4 CU 4 CU 4	er element lute filtration anic microfibre  00 6 A01 A N P01 00 6 A03 A N P01 00 6 A06 A N P01 00 6 A10 A N P01 00 6 A16 A N P01 00 6 A25 A N P01	$\beta_{X} \odot \ge 1000$ <4 5 7 10 15 20	Wire mesh element CU 400 6 M25 A N P01 CU 400 6 M60 A N P01	Nominal filtration 25 μm 60 μm	
			informatio		
Example: UFM  1 - Flow  091   090   /min		A tic motor cu			6 - Length filter body

2 - Electric motor

Three phase 380 V

180 l/min

090/180 l/min

3 - Seals

181

919

A NBR

Without (only for UFM 091)

With

Automatic motor cut-out from differential pressure indicator Phase inverter ICM In-Line Contamination Monitor

6 Standard

7 - Option

P01

Standard MP Filtri