ACMU - Auxiliary Contamination Monitoring Unit 11/2016 - rev. 00

ACMU

Incorporating the ICM contamination monitor, the ACMU is specifically designed for aerated, viscous and/or un-pressurized hydraulic/lubrication systems.

Where can it be used?

- ♦ Wind/Tidal/Wave Energy
- ◆ Gearbox applications
- ◆ Gearbox monitoring
- ◆ Offshore & ship systems
- ◆ Lubrication & Oil systems
- ◆ Mobile Equipment
- **◆**Test Benches

When should it be used?

- ◆ Entrained air or turbulent flows
- ◆ Higher viscosity fluids
- ◆Un-pressurized systems

Why should it be used?

- ◆ Easy to retro-fit.
- ◆ Exceptional communication & 4000 test memory.
- ◆ Reliable & accurate performance.



0.25kW max

See user guide

Plate version

Technical data

Cabinet Version

In - Line contamination monitor	ICM with keypad and backlit display and relays	ICM with keypad and backlit display and relays	
Particle Sizing	As ICM: >4, 6, 14, 21, 25, 38, 50, 70 μm(c)	As ICM: >4, 6, 14, 21, 25, 38, 50, 70 μm(c)	
	to ISO 4406 1999 Standard	to ISO 4406 1999 Standard	
Moisture Sensing (RH%)	Available with or without moisture sensor	Available with or without moisture sensor	
Communication Protocols	PLC compatible. RS485, RS232 & CanBus	PLC compatible. RS485, RS232 & CanBus	
	(J1939 typical)	(J1939 typical)	
Software	LPAView (Supplied with product)	LPAView (Supplied with product)	
Re-calibration	Defined by customer Quality Controls recommended 1 year	Defined by customer Quality Controls recommended 1 year	
	CONTROL, COMMUNICATION & INTERFACE		
On/off & Stop/Start signals (Remote)	Start/Stop signalling & test set up user	Start/Stop signalling & test set up user	
Circuit Flow Rate	40 ml/min to 400 ml/min	40 ml/min to 400 ml/min	
Hydraulic Hoses (External)	Customer to source their own	Customer to source their own	
Electric Motor	110V AC, 230V AC, 415V AC, 690V AC	110V AC, 230V AC, 415V AC, 690V AC	
Weight	21 Kg.	13 Kg.	
Lifting Eyes	Yes x 4 DIN 580, WLL 3400N at 45° (~340K)	Yes x 2 WLL 16000N (~1600Kg)	
USBi Comms Junction Box	See USBi user guide	No junction box	
OPERATIONAL PARAMETERS			
Fluid Compatibility/Corrosion Resistance	Hydrocarbon based & Synthetic hydraulic fluids	Hydrocarbon based & Synthetic hydraulic	
Min Inlet Pressure	Positive pressure	Positive pressure	
Max Inlet Pressure	50 bar gauge pressure - pump option dependant	50 bar gauge pressure - pump option dependant	
Min. Outlet Pressure	Atmosphere (1.013mbar at sea level)	Atmosphere (1.013mbar at sea level)	
Max Outlet Pressure	3 bar (gauge pressure)	3 bar (gauge pressure)	
Max. Fluid Temperature (Continuous)	80°C	80°C	
Min. Fluid Temperature (Continuous)	Viscosity dependant. Not greater than 1000cSt	Viscosity dependant. Not greater than 1000cSt	
Min Temperature (Start Up)	Viscosity dependant. Not greater than	Viscosity dependant. Not greater than	
	1000 cSt≈ 25°C ISO VG 320	1000 cSt≈ 25 °C ISO VG 320	
Max. Viscosity	1000 cSt	1000 cSt	
Min. Viscosity	10 cSt	10 cSt	
Min. Start Up Ambient Temperature	-40°C	-40°C	
Max Start Up Ambient Temperature	+50°C	+50°C	

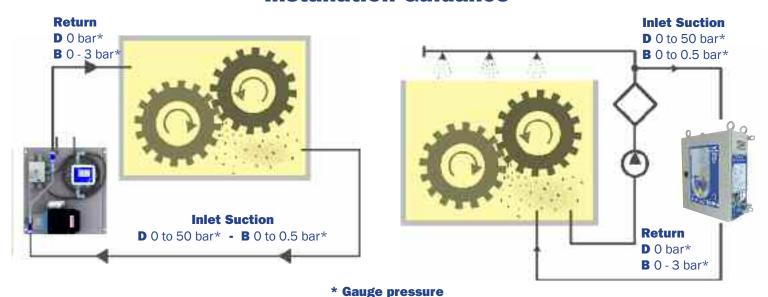
Warranty

Power Consumption

0.25kW max

See user guide

Installation Guidance



- ◆ Priming of pump prior to start up recommended
- ◆Install below level of head of tank
- ◆ Keep hose length, inlet and outlet, to minimum lengths
- ♦ Max 1000cSt

Ordering information

230V **Example:**

1 - ACMU

2 - Moisture Sensor (RH%)

Without moisture and temperature sensor

W With moisture RH% and temperature sensor

3 - Pump option

D Up to 50 bar inlet (gauge pressure), atmosphere outlet

В 0.5 (gauge pressure) {1 bar max inlet}, 3 bar (gauge pressure) max outlet

4 - Type

C Cabinet version (supplied with 5 metre communication lead)

Plate mounted version (supplied with ICM 3 metre cable)

5 - Version

Standard version

6 - Motor option

110 v 110v Motor (Dual frequency 50Hz/60Hz, single phase)

230 v 230v Motor (3 phase)

400 v 400v Motor (3 phase)

690 v 690v Motor (3 phase)

AZ2 - Atex Zone 2, Cat 3G, Fluid Contamination Monitors

11/2016 - rev. 00

ICM AZ2 cable wiring details

MP Filtri do not supply an ATEX approved cable with the ICM AZ2 products as customers may run such cables through varying ATEX zones. For this reason, we supply the diagrams which allow wiring to be done on site, providing a greater degree of flexibility for installation.

Water and Temperature Sensing

The "W" option indicates water content as a percentage of saturation and oil temperature in degrees centigrade.

100% RH corresponds to the point at which free water can exist in the fluid. i.e. the fluid is no longer able to hold the water in a dissolved solution

The sensor provides early indication of costly failure due to free water, including but not exclusive to;

- Corrosion
- Metal surface fatigue e.g. bearing failure
- Reduced lubrication & load carrying characteristics
- * N.B. W option is not available on N and S versions Fluid Compatability

Can operate across a number of fluid types.

The fluid compatability option meets the needs of most major hydraulic markets.

- M = Synthetic, petroleum & mineral based fluids.
- N = Subsea Offshore and selected water based fluids.
- S = Phosphate Ester & Aggressive fluids



Technical data

Technology	LED Based Light Extinction Automatic Optical Contamination Monitor
Particle Sizing	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 1999 Standard
Analysis range	ISO 4406: 1999 Code 0 to 25, NAS 1638 Class 00 to 12, AS4059 Rev.E. Table 1&2 Sizes A-F: 000 to 12 ISO 11218 00-12 (Lower Limits are Test Time dependent)
Accuracy	$\pm \frac{1}{2}$ code for 4,6,14um(c) ± 1 code for larger sizes
Calibration	Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171, on equipment certified by I.F.T.S. ISO 11943
Operating Flow Rate	20 - 400 ml/minute
Viscosity range	≤ 1000 cSt
Fluid temperature	From -25°C to +80°C
Pressure Max	400 bar (For high frequency pressure pulse and out range temperature applications contact MP Filtri)
Test Time	Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard
Moisture Sensing	% RH (Relative Humidity) ±3%
Temperature Measurement	±3°C
Flow rate measurement	Indicator only
Data Storage	4000 test

Communication options	RS485, RS232, MODBUS, CANBUS as standard
Relays	Two solid state relays fitted to "R" version for output to alarm circuits
Ambient Temperature min/max	-25°C to +80°C
Environmental Protection	IP 66
Weight /Dimensions	10.5 kg, Height 260 mm., Width 185 mm., Width 130 mm. (w/o connector fitted)
Electrical Supply	Voltage 9-36V DC
Current Supply	12V - 150mA, 24V - 80mA, 36V - 60mA
Power consumption	<2.2W
Outer Casing Finish	Stainless Steel
Wetted parts	M - C46400 Cu alloy, 316 stainless steel, viton, FR4, sapphire. N - 316 stainless steel, viton, sapphire. S - 316 stainless steel, perfluoro elastomer, sapphire, EPDM.
Software	LPA View software (included)

Ordering information





Bottle Samplers - for use with LPA2 and CML2

Contamination Monitoring Products

11/2016 - rev. 00

BSLPA & BS500

The 110ml & 500ml bottle samplers are suitable for off line and laboratory applications where fluid sampling at point of use is inaccessible or impractical.

A fluid de-aeration facility comes as standard.

Features & Benefits

- ◆ Vacuum feature for de-aeration of fluids
- ◆ Compatible with all portable MP Filtri Contamination Monitoring Products
- ◆Strong Laboratory aesthetic
- ◆Transparent outer for visual indication
- ◆ Full accessories kit included
- ◆Includes carry case (BSLPA)
- ◆Contact MP Filtri for use with fluids other than those stated





Ordering information

Bottle sampler BSLPA

1

2 3

Example:

BSLPA

М

110

BSLPA Bottle sampling unit, suitable for Mineral & synthetic oils.

Bottle sampler BS500

1

2

3

4

Example:

BS500

V

0

0

UK

1 - Version

BS500

2 - Fluid compatibility

V

Viton seals (mineral & synthetc oils and subsea/water based fluids)



EPDM seals (phosphate ester and agressive fluids)

3 - Pressure rating

0

2.5 bar (<68cSt)

н

4.5 bar (>68cSt)

4 - Cylinder type

0

Acrylic cylinder

S

Borosilicate glass cylinder (phosphate esters only)

5 - Power Supply

UK

UK power adapter

EU

European power adapter

US

United States power adapter

CN/AUS

Australasia power adapter



Bottle Samplers - for use with LPA2 and CML2

Contamination Monitoring Products

11/2016 - rev. 00

BSLPA & BS500

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Ordering information

Bottle sampler BSLPA

1

2 3

Example:

BSLPA

М

110

BSLPA Bottle sampling unit, suitable for Mineral & synthetic oils.

Bottle sampler BS500

1

2

3

4

Example:

BS500

V

0

0

UK

1 - Version

BS500

2 - Fluid compatibility

V

Viton seals (mineral & synthetc oils and subsea/water based fluids)



EPDM seals (phosphate ester and agressive fluids)

3 - Pressure rating

0

2.5 bar (<68cSt)

н

4.5 bar (>68cSt)

4 - Cylinder type

0

Acrylic cylinder

S

Borosilicate glass cylinder (phosphate esters only)

5 - Power Supply

UK

UK power adapter

EU

European power adapter

US

United States power adapter

CN/AUS

Australasia power adapter

CML2 – Compact Twin Laser Contamination Monitor

11/2016 - rev. 00

CML₂

The CML is a portable, accurate instrument-suitable for 'on-site' applications. It can automatically measure and display particulate contamination, moisture and temperature levels in various hydraulic fluids.

Features & Benefits

- ◆ Compact
- ◆Super lightweight
- ◆ Mains Operated/battery (if fitted)
- ◆ Full Calibration based on ISO11171
- ◆ Measures and displays the following international standard formats; ISO 4406, NAS 1638, AS 4059E and ISO 11218
- ◆ Data logging and 600 test result memory
- ◆ Manual and remote control flexibility
- ◆ Full accessories kit included



Technical data

Technology	Twin laser and twin optical diode detectors Based Light Extinction Automatic Optical Contamination Monitor
Particle Sizing	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 Standard
Analysis range	ISO 4406 Code 8 to 24, NAS 1638 Class 2 to 12, AS4059 Rev.E. Table 1 Size Codes 2-12 AS4059 rev E, Table 2 Size Codes, A:000 to 12, B:00 to 12, C:00 to 12, D:2 to 12, E: 4 to 12,F: 7 to 12
Accuracy	Better than 3% typical
Calibration	Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171, on equipment certified by I.F.T.S. To ISO 11943
Viscosity range	Up to 400 cst
Fluid temperature	From +5°C to +80°C
Pressure Max	400 bar (gauge) - minimum 2 bar (gauge) required
Sample Volume/Test time	8 ml. (short): 2:50, 15 ml. (normal): 5:00, 30 ml. (dynamic): 10:00 24 ml. (bottle sampler): 8:00, 15 ml. (continuous): 5:00
Moisture Sensing	% RH (Relative Humidity) ±3%
Temperature Measurement	±3°C
Data Storage	600 test
Communication options	RS232 9 pin D plug
Ambient Temperature min/max	-10°C to +60°C
Environmental Protection	IP51 (lid open)
Weight /Dimensions	4.75 kg, Height 152 mm., Depth 295 mm., Width 340 mm.
Electrical Supply	Voltage 9-36V DC
Power	Internal rechargeable battery (series 41) or external 12V DC power supply (series 40)
Outer Casing Finish	Injection Molded HPX® high performance resin

Ordering information

3 **Example:** CML₂ M

1 - Version

CML₂ Without moisture and temp sensor CML2W With moisture and temp sensor

3 - Options

Standard unit

5 - Series

With display and push buttons, with internal rechargeable battery

2 - Fluid compatibility

M

N

Mineral oil

Subsea fluids and water based fluids(1)

Phosphate ester and aggressive fluids(1)

4 - Options bottle sampler

Without bottle sampling



GRF 015 Mobile filtration unit

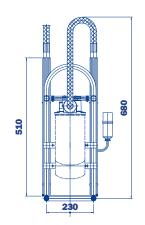
11/2016 - rev. 00

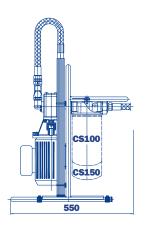


The GRF 015 is a portable oil transfer/filtration unit, specifically designed for both filling/transferring hydraulic oils from containers to the hydraulic tank as well as filtering and cleaning hydraulic systems.

The unit utilises Spin-On standard filters elements, available in two lengths, thus increasing the dirt holding capacity and lowering pressure drop of the unit. The unit has the flexibility in being able to offer a wide range of medias and micro ratings to suit any application.

The unit is very compact and lightweight.







- Handle size
- Easy maintenance
- Light
- Reliable
- Easy to use
- Absolute filtration

Technical data

Pump	Gear pump
Electric Motor	0,18 Kw 230 Volt single phase electric motor
Flow (I/min)	15 l/min
Max. Operation Pressure	5 bar
Viscosity range	Min. operation 10 cSt
	Max. operation 200 cSt
	Max. only for cold start 400 cSt
Suction Filter	Type Y filtration 300 µm
Filtration Rating	1/3/6/10/25 μm β>1000
	flow through the element In/Out
By-Pass valve	Rating 2,5 bar
Fluid Temperature	From -10° to +80°C
Ambient Temperature	From -20° to +45°C
Protection Class	IP 55
Seal	NBR
Fluid Compatibility	Mineral Oil - Other on request
Suction hose	3/4" length 2500 mm - DN18 length 400 mm
Pressure hose	3/4" length 2500 mm - DN18 length 400 mm
Weight	14,8 kg.
Equipment	Visual clogging indicator (gauge)

Spare parts

Filter element - Standard length

Inorganic microfibre element

CS 100 A01 A P01	1 µm absolute
CS 100 A03 A P01	3 µm absolute
CS 100 A06 A P01	6 μm absolute
CS 100 A10 A P01	10 µm absolute
CS 100 A25 A P01	25 µm absolute
Wire mesh element	
CS 100 M25 A P01	25 μm
CS 100 M60 A P01	60 μm

Filter element - Extended length

Inorganic microfibre element

CS 150 A01 A P01	1 µm absolute
CS 150 A03 A P01	3 µm absolute
CS 150 A06 A P01	6 µm absolute
CS 150 A10 A P01	10 µm absolute
CS 150 A25 A P01	25 µm absolute
Wire mesh element	
CS 150 M25 A P01	25 μm
CS 150 M60 A P01	60 µm

ordering information

GRF 015 1 A M M 1 M 1

- Mobile filtration unit without filter element
- Filtration elements should be ordered separately



ICM

The ICM automatically measures and displays particulate contamination, moisture and temperature levels in various hydraulic fluids.

It is designed specifically to be mounted directly to systems, where ongoing measurement or analysis is required, and where space and costs are limited.

Features & Benefits

- ◆8 channel contamination measurement & display
- ◆ Measures and displays the following international standard formats; ISO 4406, NAS 1638, AS 4059E and ISO 11218
- ◆ Moisture and temperature sensing fluid dependant
- ◆ Data logging and 4000 test result memory
- Manual, automatic and remote control flexibility available
- ◆ Multicolour LED and remote alarm signals (R version)
- ◆ Robust die cast aluminium construction
- ◆ LPA View software (included)
- ◆ Pressure max. 400 bar
- ◆ Enviromental protection IP 65/67

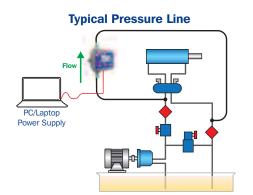


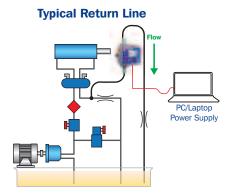
Technical data

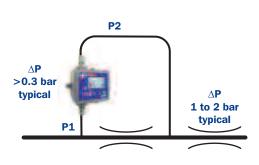
Technology	LED Based Light Extinction Automatic Optical Contamination Monitor
Particle Sizing	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 Standard
Analysis range	ISO 4406 Code 0 to 25, NAS 1638 Class 00 to 12, AS4059 Rev.E. Table 1&2 Sizes A-F: 000 to 12 ISO 11218 00-12 (Lower Limits are Test Time dependent)
Accuracy	$\pm \frac{1}{2}$ code for 4,6,14um(c) ± 1 code for larger sizes
Calibration	Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171, on equipment certified by I.F.T.S. ISO 11943
Operating Flow Rate	20 - 400 ml/minute
Viscosity range	≤ 1000 cSt
Fluid temperature	From +25 °C to +80 °C (For high frequency pressure pulse and out range temperature applications contact MP Filtri)
Pressure Max	400 bar (For high frequency pressure pulse and out range temperature applications contact MP Filtri)
Test Time	Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard
Moisture Sensing	% RH (Relative Humidity) ±3%
Temperature Measurement	±3°C
Flow rate measurement	Indicator only
Data Storage	4000 test
Communication options	RS485, RS232, MODBUS, CANBUS as standard
Ambient Temperature min/max	From -25°C to +80°C non K version - From -25°C to +55°C K version
Environmental Protection	IP 65/67 IK04 Impact Protection
Weight	1.15 kg
Electrical Supply	Voltage 9-36V DC
Power consumption	<2.2W
Outer Casing Finish	Polyurethane BS X34B. Colour BS381-638 (Dark Sea Grey) Approval: BS2X34A & BS2X34B, MM0114 & SP-J-513-083 T. II Cl. A Per formance: MIL-PRF-85285



Installation Guidelines

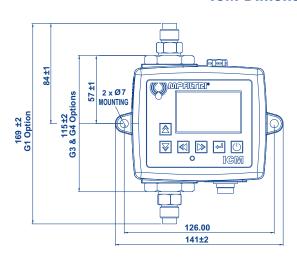


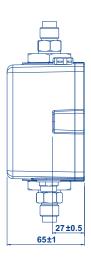




Create a pressure differential across the ICM (min 1 bar)

ICM Dimensions





The ICM can be used as a standalone product or can be controlled by external PC, PLC or the ICM - RDU Remote Display Unit. 3m control cable supplied as standard.

Ordering information

Example:

ICM

2

1

3 M

4

5

G1

6

1 - Product

ICM

2 - Moisture Sensor (RH%)

Without moisture and temperature sensor W With moisture and temperature sensor

3 - Fluid compatibility

Mineral oil

N

Subsea fluids and water based fluids(1)

S Phosphate ester and aggressive fluids(1)

4 - Keypad/Display

Without keypad/display With keypad/display

5 - Relays

0 Without Relays R With Relays

6 - Connections

ICM complete with minimess G1 connections M16 x 2

G3 1/4" BSP - Female port

G4 7/16" UNF - Female port



LPA2

The LPA2 is a highly precise, lightweight & fully portable instrument suitable for on-site and laboratory applications.

It can automatically measure and display particulate contamination, moisture and temperature levels in various hydraulic fluids.

Features & Benefits

- ◆ Lightweight (Lightest in class)
- ◆ Fully portable
- ◆ Precision Instrument
- ◆ Full Calibration based on ISO11171
- ◆ Measures and displays the following international standard formats; ISO 4406, NAS 1638, AS 4059E and ISO 11218
- ◆ Moisture and temperature sensing
- ◆ Data logging and 600 test result memory
- ◆ Manual and remote control flexibility
- ◆ LPA View software (included)
- ◆ Full size QWERTY keyboard
- ◆ Various test programme settings
- ◆ Full accessories kit included
- ◆Internal rechargeable battery capable of performing 100 tests between charges



Technical data

Technology	Twin laser and twin optical diode detectors Based Light Extinction Automatic Optical Particle Analyser
Particle Sizing	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 Standard
Analysis range	ISO 4406 Code 8 to 24, NAS 1638 Class 2 to 12, AS4059 Rev.E. Table 1 Size Codes 2-12 AS4059 rev E, Table 2 Size Codes, A:000 to 12, B:00 to 12, C:00 to 12, D:2 to 12, E: 4 to 12,F: 7 to 12
Accuracy	Better that 3% typical
Calibration	Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171, on equipment certified by I.F.T.S. To ISO 11943
Viscosity range	Up to 400 cst
Fluid temperature	From +5°C to +80°C
Pressure Max	400 bar (gauge) - minimum 2 bar (gauge) required
Sample Volume/Test time	8 ml. (short): 2:50, 15 ml. (normal): 5:00, 30 ml. (dynamic): 10:00 24 ml. (bottle sampler): 8:00, 15 ml. (continuous): 5:00
Moisture Sensing	% RH (Relative Humidity) ±3%
Temperature Measurement	±3°C
Data Storage	600 test
Communication options	RS232 9 pin D plug
Ambient Temperature min/max	-10°C to +80°C
Environmental Protection	IP51 (lid open)
Weight /Dimensions	7.6 kg, Height 210mm, Depth 260mm, Width 430mm
Electrical Supply	Voltage 9-36V DC
Power	Internal rechargeable battery (mains charger)
Outer Casing Finish	Anodised Aluminium

Patent app. no. 2354067



Exclusive MP Filtri technology. The combination of the two lasers with the unique optics and photodiode package enables the LPA2 to give increased accuracy combined with excellent repeatability.

W-Option

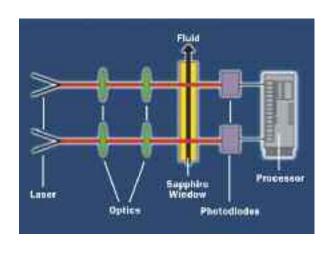
Water Saturation level (RH%) and fluid temperature sensor option.

Laser 1

A single point high accuracy laser measures particles of contamination at 4 μ m(c) and 6 μ m(c) giving increased accuracy with excellent repeatability.

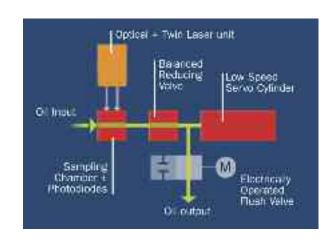
Laser 2

Standard accuracy laser specifically designed for system contaminants between 6 µm(c) and 70 µm(c).



Optional Products	
Carry Bag	CB0001
In line Coarse Screen filter	SK0040
USB to serial port connector	SK0026

The LPA2 Standard Analyser Includes accessories package: LPA-View software, hoses, waste bottle, printer paper, 12V, 2A power adapter with UK/EU/US/CN/AUS adapter heads.



Ordering information

Example: LPA2

A2 M

3 S

X

30

1 - Version

LPA2

Without moisture and temp sensor

LPA2W

With moisture and temp sensor

2 - Fluid compatibility

M

Mineral oil

N

Subsea fluids and water based fluids⁽¹⁾

S

Phosphate ester and aggressive fluids(1)

3 - Options carry bag

S

Standard unit with carry bag

4 - Bottle sampling options

X

Without bottle sampling

5 - Design Ref.

30

MPALTRI

UFM 041 Mobile filtration unit



- Compact size
- Light
- Easy to use
- Easy maintenance
- Reliable
- Absolute filtration

UFM 041 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 (recommended maximum volume of 350/500 L.), 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.

Continued use is recommended for the version with three phase electric motor.

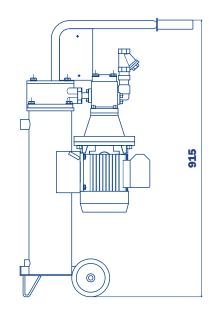
Technical data

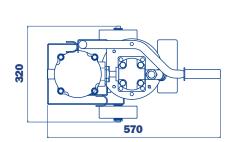
Pump	Gear pump
Electric Motor	0,75 Kw 230 Volt single phase electric motor
	0,75 Kw 400/230 Volt three phase electric motor
Flow (I/min)	34 I/min - 1450 r.p.m.
Max. Operation Pressure	5 bar
Viscosity range	Min. operation 10 cSt
	Max. operation 200 cSt
	Max. only for cold start 800 cSt
Suction Filter	Type Y filtration 350 μm
By-Pass valve	Rating 2,5 bar
Fluid Temperature	From -10° to +80°C
Ambient Temperature	From -20° to +45°C
Protection Class	IP 55
Seal	NBR
Fluid Compatibility	Mineral Oil & Sintetic Oil - Other on request
Weight	45 kg.
Equipment	Visual clogging indicator (gauge)

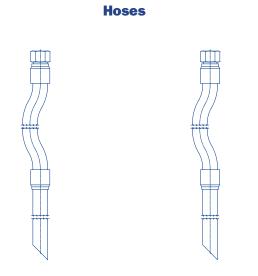
UFM 041 Mobile filtration unit

11/2016 - rev. 00

Symbol

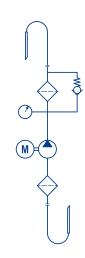






Suction hose - with lance DN25 length 3000 mm - DN25 DN20 length 3000 mm - DN20 length 700 mm.

Pressure hose - with lance length 700 mm.



Ordering information - Filter element

Filter element

Absolute filtration inorganic microfibre	β _{X©} ≥ 1000
MR 250 4 A01 A P01	<4
MR 250 4 A03 A P01	5
MR 250 4 A06 A P01	7
MR 250 4 A10 A P01	10
MR 250 4 A16 A P01	15
MR 250 4 A25 A P01	20

1

Wire mesh element	Nominal filtration
MR 250 4 M25 A P01	25 μm
MR 250 4 M60 A P01	60 µm

Ordering information - UFM

5

UFM

1 - Flow

041 **P01**

3

Example: UFM

041 34 I/min 3 - Seals

2

5 - Option

Standard MP Filtri

2 - Electric motor

Single phase 220 V T Three phase 380 V

4 - Filter elements

Without element