

**MOBILE
FILTRATION
UNITS**

CATALOGUE



USA



MPFILTRI®

PASSION TO PERFORM

MOBILE FILTRATION UNITS

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UFM 015

Mobile filtration unit 15 l/min flow rate



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



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UFM 015 GENERAL INFORMATION

Description

Mobile filtration units

The UFM 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 utilizes FEX filter element, thus increasing the dirt holding capacity and granting low pressure drop of the unit.

The unit has the flexibility in being able to offer a wide range of medias and micron ratings to suit any application. The unit is very compact and lightweight.

Features & Benefits

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



Technical data

Pump

Gear pump

Electric Motor

0.18 kW 230 V single phase electric motor

Flow (l/min)

15 l/min - 1450 r.p.m.

Max. Operation Pressure

4.0 bar

Viscosity range

Min. operation 10 cSt

Max. operation 200 cSt

Max. only for cold start 400 cSt

Suction Filter

Type Y filtration 500 µm

Filtration Rating

See designation order for cartridge and filter elements

Bypass valve Δp set

Rating 3.5 bar

Fluid Temperature

From +5 °C to 60 °C

Ambient Temperature

From +5 °C to 40 °C

Weight

14.8 kg (32.6 lb)

Dimensions

See drawings

Protection Class

IP55

Seal

NBR

Fluid Compatibility

Mineral Oil - Other on request

Suction hose

DN18 length 2500 mm

lance

DN/OD20 length 400 mm

Pressure hose

DN18 length 2500 mm

lance

DN/OD18 length 400 mm

Equipment

Visual clogging indicator (gauge)

CE Standard

The concept of filtration



ELIXIR®

RFEX - RETURN FILTER

Lighter, easier to use, and kinder to the environment - MP Filtri's new ELIXIR low pressure concept filters have been specially designed for in-line connections and to handle working pressures up to 1.6 MPa (16 bar).

The cast aluminum head and polyamide bowl design reduces weight by 10% compared to the Spin-on range.

Less waste reduces both your carbon footprint and protects the environment. Replacement is fast and easy, just disassemble the bowl with a 32 mm fixed wrench, take out the FEX filter element and replace.

UFM 015

Designation & Ordering code

MOBILE FILTRATION UNIT UFM 015										
Series	Configuration example: UFM 015 M A 1 0 0 0 P01									
UFM										
Size										
015	15 l/min									
Electric motor										
M	230 V single phase									
Seals										
A	NBR									
Pressure gauges and Clogging indicators (see below)										
1	Manometer (*)									
Filter element										
0	Without element (for ordering, see below)									
Filtration surface										
0	Not provided									
Option										
0	No options									
Option										
P01	MP Filtri standard									

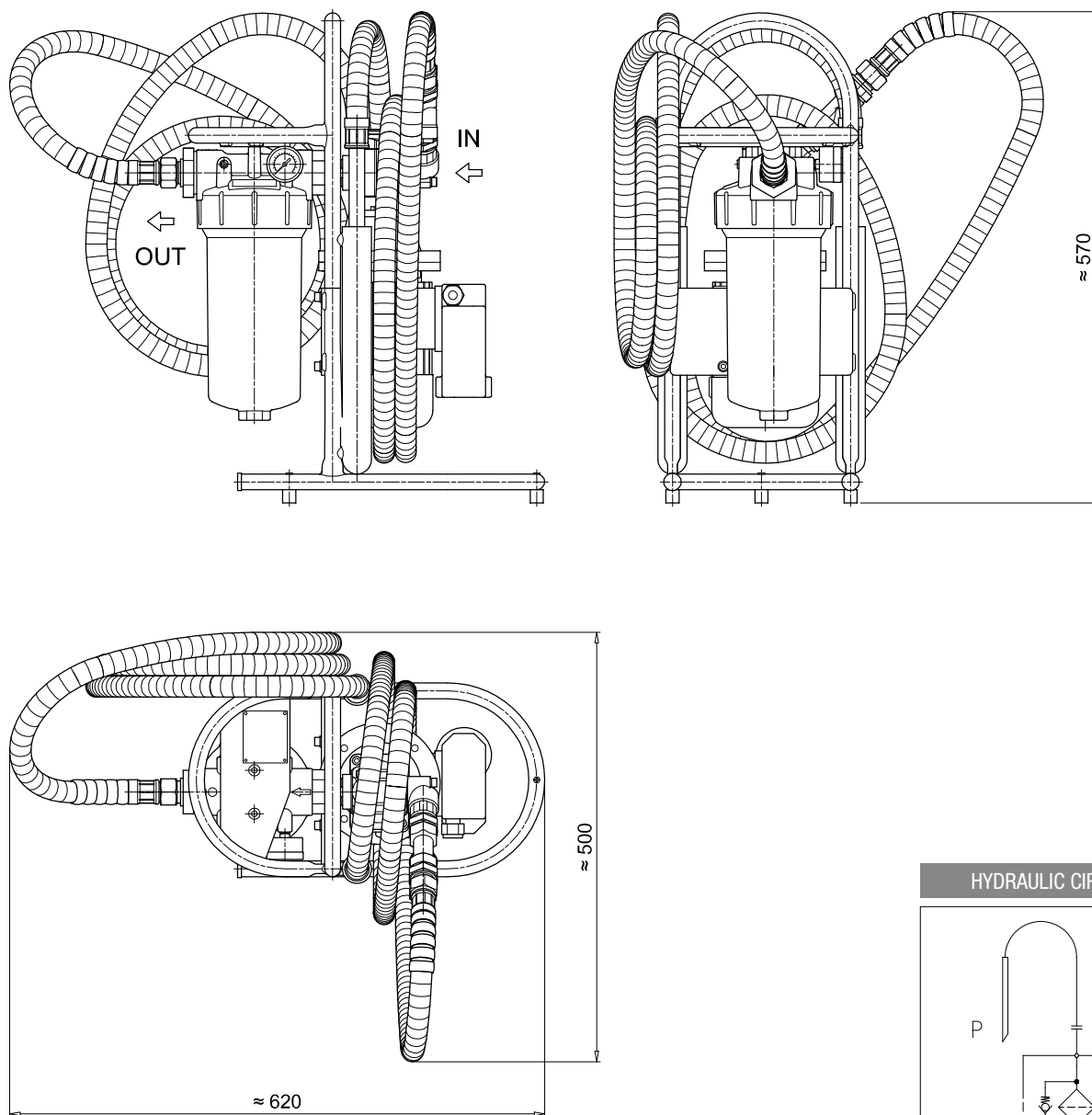
Filtration element should be ordered separately

FILTER ELEMENT										
Series, size and length	Example: FEX 110 20 A0010 C A 00 NN P01 NN									
FEX110 20										
Filtration rating (filter media)										
A0003	Inorganic microfiber	3 µm	M0025	Wire mesh	25 µm					
A0006	Inorganic microfiber	6 µm	M0060	Wire mesh	60 µm					
A0010	Inorganic microfiber	10 µm	M0090	Wire mesh	90 µm					
A0016	Inorganic microfiber	16 µm	P0010	Resin-impregnated paper	10 µm					
A0025	Inorganic microfiber	25 µm	P0025	Resin-impregnated paper	25 µm					
W0025	Water absorber inorganic microfiber	25 µm								
Element Δp										
C	8 bar									
Seals and treatments										
A	NBR									
Bypass										
00	Without bypass									
Additional features										
NN	Without additional features									
Execution										
P01	Standard catalogue item									
Certificates										
NN	None									

CLOGGING INDICATORS

BVA Axial pressure gauge

Settings	Ordering code
2.5 bar (36 psi) ±10%	BV A 25 P01

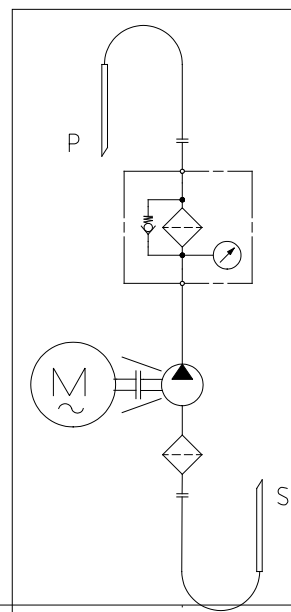


For the complete spare part list please refer to manual



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HYDRAULIC CIRCUIT



GRF 1

Panel Mounted Filtration Unit - 5 / 10 gpm



Description

Mobile filtration units

The GRF1 series are compact efficient condition loop systems with options to implement ICM contamination monitor and auto-shutdown feature when cleanliness levels are achieved.

Panel mount filtration unit with selection of MPS150 spin-on or LMP211 cartridge style discharge filter assembly with a wide selection of filter media including water removal and optional ICM 2.0 contamination monitor with auto-shutdown control and strobe light indicator.

Performance

For filtering mineral and synthetic based oils (hydraulic oils, gear oils, and turbine oils) with a maximum operating viscosity range of 3000ssu/648cSt at 100°F within ambient temperature ranges of -15°F to 150°F

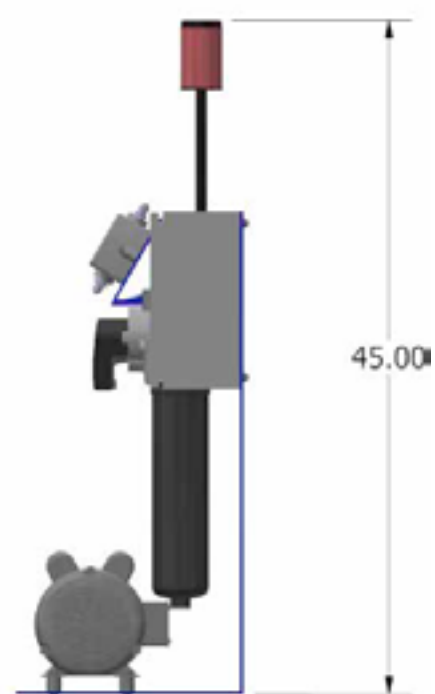
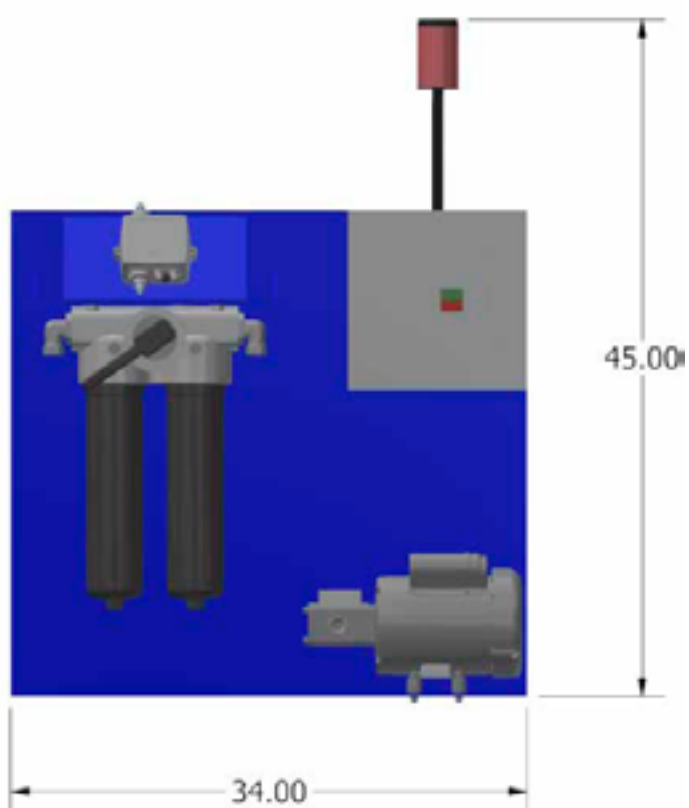
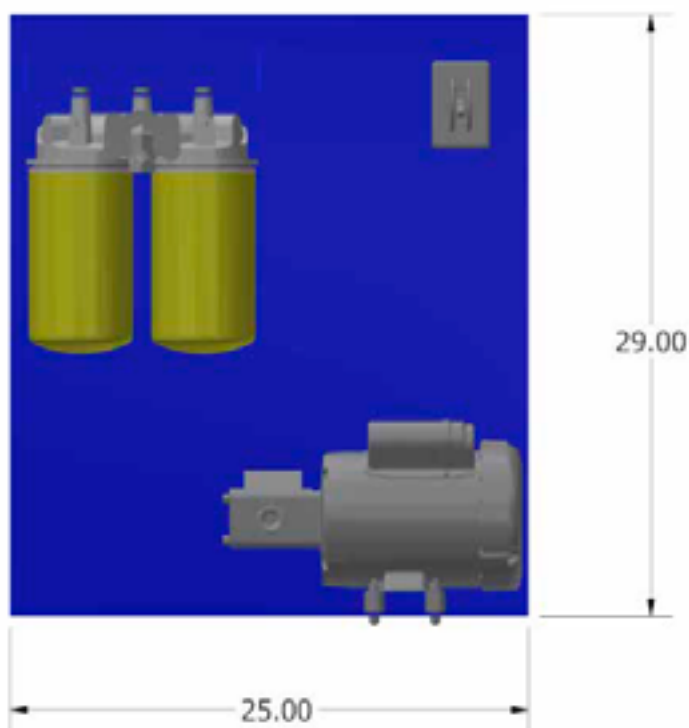
- Filtering contaminated systems
- Collecting oil samples for analysis
- Dispensing new oil

> Features & Benefits

- Carbon steel frame with drip tray
- 1 HP, 115 VAC, 60 Hz motor
- Low pressure aluminum heads
- Aluminum gear pump - available in 5 and 10 gpm
- Pop-up indicator triggers when elements need to be changed
- Pump relief opens at 150 psi
- Approximate weight 75-80 lbs
- Approximate dimensions 24"(L) x 12"(W) x 18"(H)

Replacement spin-on element options:

Part Number	Beta Rating	Desired Cleanliness Level (ISO Code)
CSG150A01A	B1(c)=1000	13/11/8 - 12/10/7
CSG150A03A	B3(c)=1000	14/12/19 - 13/11/18
CSG150A06A	B6(c)=1000	17/15/12 - 14/12/19
CSG150A10A	B10(c)=1000	18/16/13 - 17/15/12
CSG150A25A	B25(c)=1000	21/19/16 - 20/18/15
CSGW150A03A	Water Removal	



GRF 1

Designation & Ordering code

STATIONARY FILTRATION UNIT GRF 1									
Series	Example: GRF1 05 A 1 1 - A03 P01								
GRF1									
Size									
05 5 gpm									
10 10 gpm									
Seals									
A Buna									
Type									
1 110 V									
3 230 V									
Auto-shut down control Feature									
- No auto-shut down control									
1 With auto-shut down control *									
*Note: Auto shutdown feature is only applicable with optional ICM									
Clogging Indicator									
- No strobe light indicator									
1 With strobe light indicator									
Discharge side element									
A01 CSG150A01A									
A03 CSG150A03A									
A06 CSG150A06A									
A10 CSG150A10A									
A25 CSG150A25A									
WA03 CSGW150A03A									
WP10 CSGW150P10A									
WP25 CSGW150P25A									
									Execution
									P01 MP Filtri standard
									Pxx Customize

ICM contamination monitor is not include and should consult factory

ICM CONTAMINATION MONITOR	
ICM Conamination Monitor	
ICM-O-M-K-R-G1	Without moisture and temperature sensor, with screen, with relays/external alarm outputs
ICM-W-M-K-R-G1	With moisture and temperature sensor with screen, with relays/external alarm outputs
ICM-O-M-K-U-G1	Without moisture and temperature sensor, with screen, with test record transfer plus relays/external alarm outputs
ICM-W-M-K-U-G1	With moisture and temperture, with screen, with test record transfer plus relays/external alarm outputs
Design reference	
2.0	ICM 2.0
4.0	ICM 4.0 with integral WiFi

Note: Consult factory for options not listed

MP Filtri reserves the right to make improvements in design, product features and specifications at anytime without notice.

GRF 3

Mobile Filtration Unit - 5 / 10 gpm



Description

Mobile filtration units

GRF 3 mobile filtration units are cost effective and efficient in transferring or conditioning fluid in hydraulic reservoirs.

Portable filtration unit with selection of MPS350 dual spin-on or LMP211 cartridge style discharge filter assembly with a wide selection of filter media including water removal with optional ICM 2.0 or ICM 4.0 contamination monitor.

Applications

- Oil transfer from bulk drums to tank
- Reservoir clean-up

> Features & Benefits

- 1 HP, 120 VAC, 1- Phase TEFC motor with cord and plug
- Rugged 5 gpm or 10 gpm gear pump with integral relief valve
- 10 ft. wire reinforced clear suction and discharge hoses with stainless steel wands
- Heavy Duty hand truck with pneumatic tires powder coated MP Filtri blue
- Large drip pan under filter element assemblies
- 2 pc 4ft. stainless steel wands
- Wand storage brackets with accommodations to contain excess in drip pan
- 25 ft. electrical cord with end plug, includes cord storage hook
- On-board sealed on/off switch

Suction Side

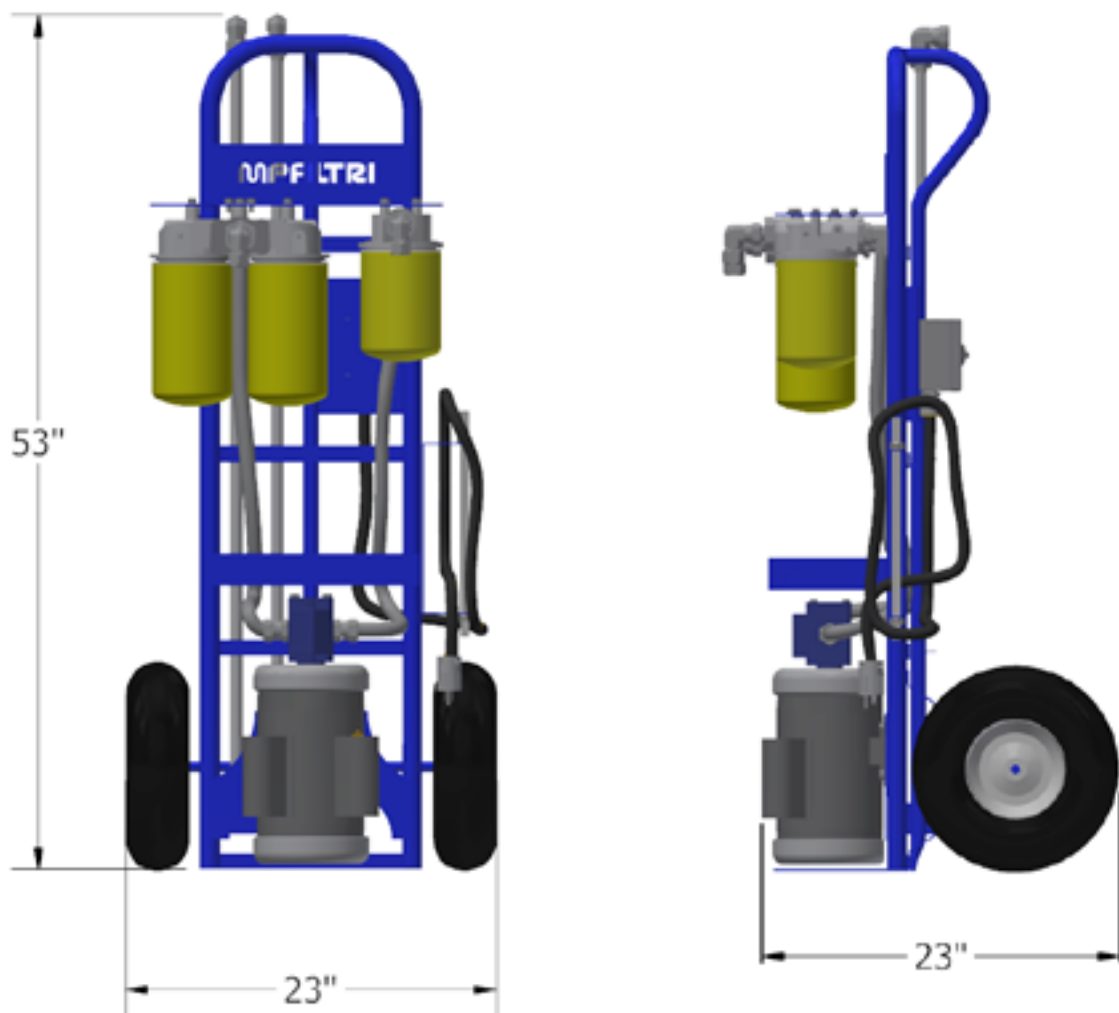
- 1 pc CSG100M90A - 90 µm wire mesh element

Discharge Side - 1

- 1 pc MPS350 Dual Spin-on with 25 psi bypass
- Choice of 1, 3, 6, 10, 25 µm elements available
- With indicator

Discharge Side - 2

- 1 pc LMP 2102 housing with 50 psi bypass
- Choice of 1, 3, 6, 10, 25 µm elements available
- With indicator



GRF 3

Designation & Ordering code

MOBILE FILTRATION GRF 3									
Series		Example: GRF3							
GRF3		10	1	M90	A	A03	P01		
Size									
05 5 gpm									
10 10 gpm									
Type									
1 MPS350 assembly on discharge									
2 LMP2112 assembly on discharge									
Suction side Spin-on element									
M90 Wire mesh 90 µm									
Seals									
A Buna									
Discharge side element (Spin-On type 1 only)		Discharge side element (Cartridge type 2-3 only)							
MPS 300		LMP 211							
A01	CSG150A01AP01	A01	CU2102A01ANP01						
A03	CSG150A03AP01	A03	CU2102A03ANP01						
A06	CSG150A06AP01	A06	CU2102A06ANP01						
A10	CSG150A10AP01	A10	CU2102A10ANP01						
A25	CSG150A25AP01	A25	CU2102A25ANP01						
WA03	CSGW150A03AP01	WA25	CU2102WA25ANP01						
WP10	CSGW150P10AP01								
WP25	CSGW150P25AP01								
				Execution					
				P01 MP Filtri standard					
				Pxx Customize					

Note: Consult factory for options not listed

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GRF 5

Mobile Filtration Unit - 5 / 10 gpm



Description

Mobile filtration units

GRF 5 mobile filtration units are cost effective and efficient in transferring or conditioning fluid in hydraulic reservoirs that includes ICM 2.0 or ICM 4.0 contamination monitor and auto-shut down control when cleanliness targets are achieved.

Portable filtration unit with LMP211 cartridge style discharge filter assembly with a wide selection of filter media including water removal with optional ICM 2.0 or ICM 4.0 contamination monitor.

Applications

- Oil transfer from bulk drums to tank
- Reservoir clean-up

> Features & Benefits

- 1 HP, 115 VAC, 1- Phase TEFC motor with motor start/stop, cord and plug
- Rugged 5 gpm or 10 gpm gear pump with integral relief valve
- 10 ft. wire reinforced clear suction and discharge hoses with stainless steel wands
- Mounted inline contamination monitoring (ICM) unit to measure fluid cleanliness
- Heavy duty hand truck with pneumatic tires, powder coated in MP Filtri Blue
- 2 pc 4 ft. stainless steel wands
- Wand Storage brackets with accommodation to contain excess in drip pan
- 25 ft. electrical cord with end plug, includes cord storage hook
- On-board sealed on/off switch

Suction Side

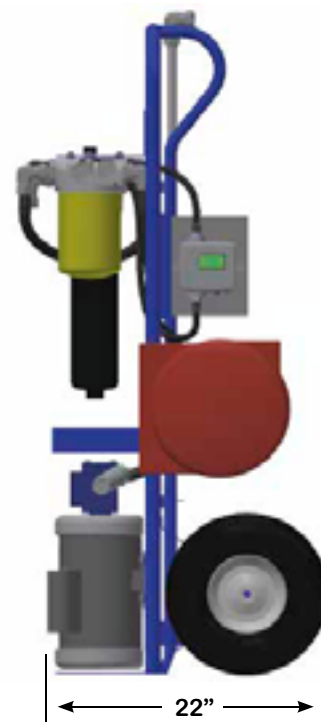
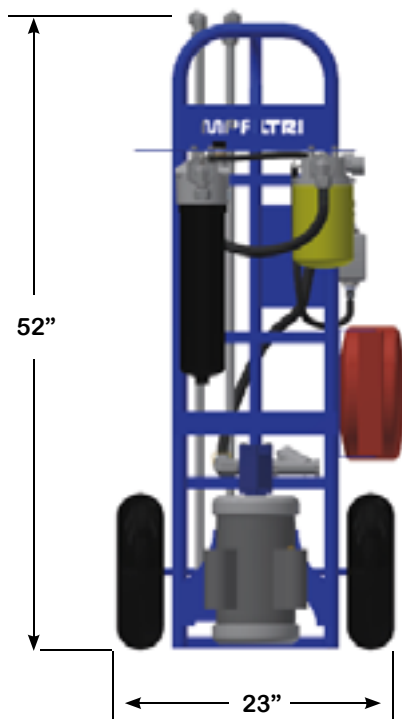
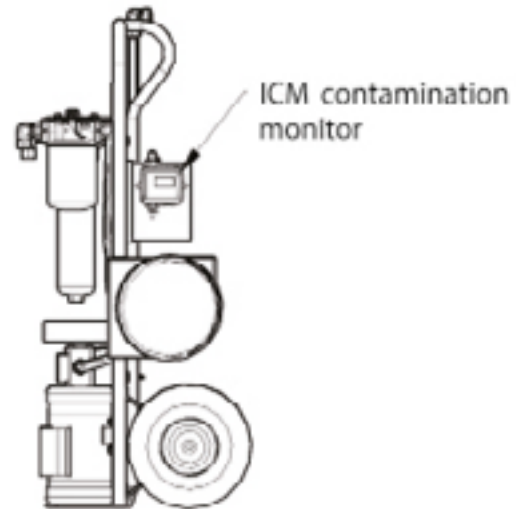
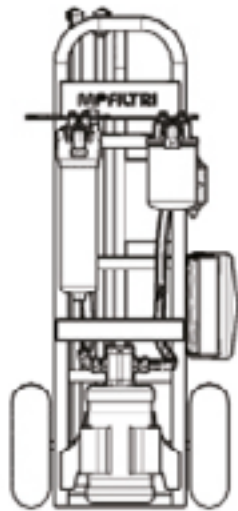
- 1 pc CSG100M90A - 90 µm wire mesh element

Discharge Side

- 1 pc LMP2112 housing with 50 psi bypass
- Choice of 1, 3, 6, 10, 25 µm elements available

ICM

- 8 channel contamination measurement
- International standard formats ISO 4406, NAS 1638 AS 4059E and ISO 11218
- Data logging and 4000 test result memory
- Mineral oil fluid compatibility
- Optional water/temperature sensor
- Optional 6-key keypad and 128 x 64 LCD back-lit display
- Optional relays
- CMP View software included



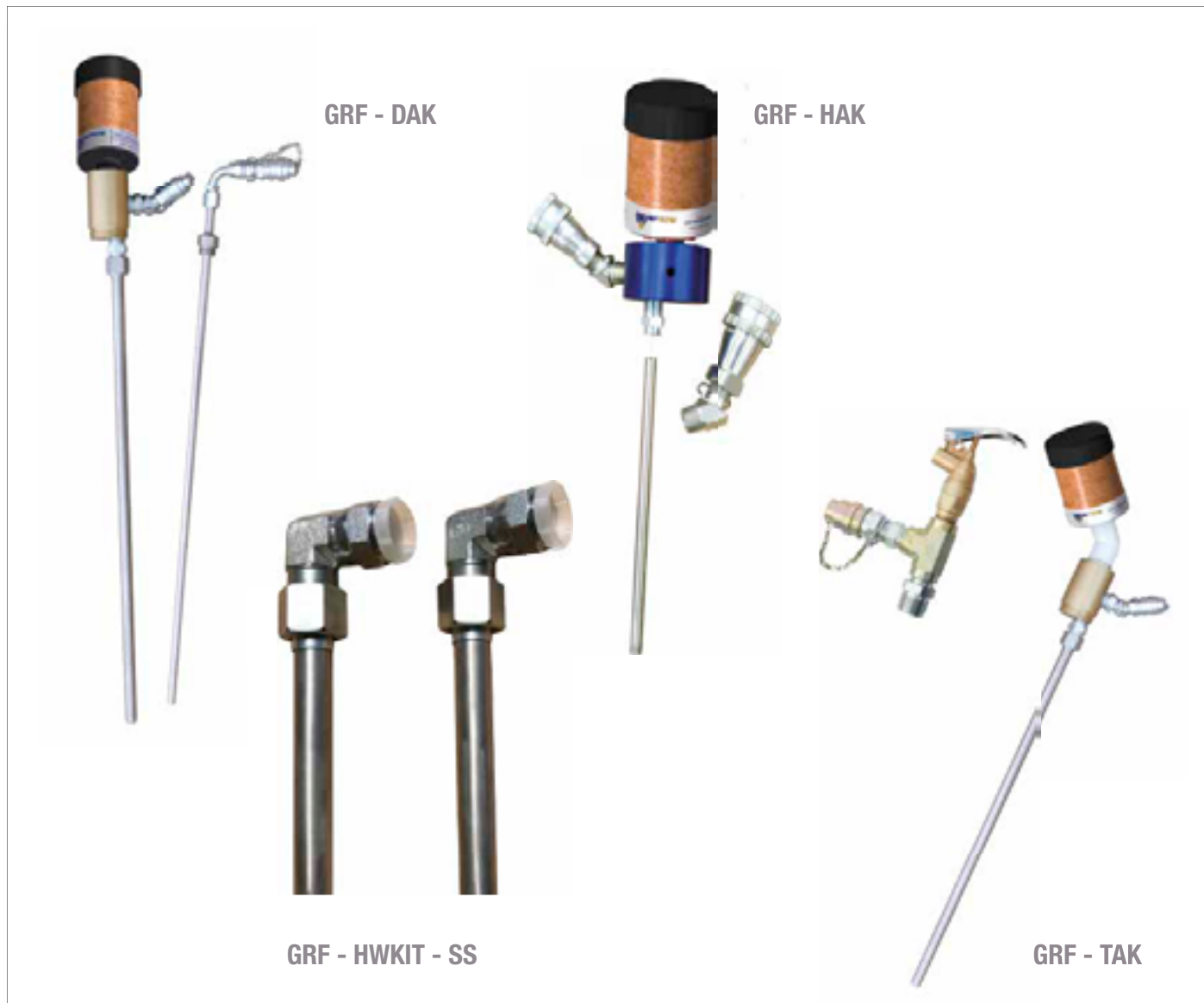
Designation & Ordering code

MOBILE FILTRATION GRF 5													
Series	Example: GRF5	10	2	Y	A	A03	ICMW	M	K	U	2.0	P01	
GRF5													
Size													
05	5 gpm												
10	10 gpm												
Type													
2	LMP2112 assembly on discharge												
Suction side spin-on element													
Y	250 Y Strainer												
Seals													
A	Buna												
Discharge side cartridge element													
A01	CU2102A01ANP01												
A03	CU2102A03ANP01												
A06	CU2102A06ANP01												
A10	CU2102A10ANP01												
A25	CU2102A25ANP01												
WA25	CU2102WA25ANP01												
ICM Water / Temperature sensor													
ICM0	Without water / temperature sensor												
ICMW	With water / temperature sensor												
Fluid Compatibility													
M	Mineral Oil												
Keypad													
K	With 6-keypad with display												
Relays													
R	With relays/external alarms												
Design Reference													
2.0	ICM 2.0												
4.0	ICM 4.0 with integral WiFi												
Execution													
P01	MP Filtri standard												
Pxx	Customize												

Note: Consult factory for options not listed

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GRF Accessories



Drum Adapter Kit

The Drum Adapter Kit helps keep your lubricants free of moisture and particulate contamination while in storage or during the fluid transfer process. It also allows you to easily pre-filter your lubricant, ensuring you're only putting clean dry oil into your equipment.

> Benefits

- Easily modify your equipment for seamless connection to various filtration systems
- Prevents the ingress of dirt and moisture by utilizing a desiccant breather
- Customizable to fit all your needs

Features

- Various quick disconnects with steel dust plugs allow for various configurations
- 2" NPT connection easily replaces standard drum bungs
- Replaceable desiccant breather with 3/4" NPT adapter

Ordering information

GRF - DAK



Tube lengths available in various size

Hose Wand Kit

Our heavy-duty stainless steel hose wand kit is great for those applications that require them. Hose wands aren't ideal, but some applications may require them. They can also be used for short term, while quick disconnects are being added to equipment.

> Benefits

- A quick connect tool that allows you to draw fluids from tanks, buckets, drums or open reservoirs when this is the only option
- Allows you to reach down into tanks for oil transport

Features

- (2) Stainless steel 3/4" tube, 4 ft. long
- 90° female JIC swivel end

Ordering information

GRF - HWKIT - SS



Pictured photo is cropped for visibility. Tubes are 4 ft. long.

Hydraulic Adapter Kit

Our Hydraulic Adapter Kit allows you to easily adapt your equipment with a desiccant breather and quick connects with the use of your system to remain completely sealed to atmospheric ingress, while allowing for easy access during offline filtration or topping reservoirs off.

> Benefits

- Easily modify your equipment for seamless connection to various filtration systems
- Prevents the ingress of dirt and moisture by utilizing a desiccant breather
- Customizable to fit all your needs

Features

- Various quick disconnects with steel dust plugs allow for various configurations
- 6 bolt adapter fits most OEM connections
- Replaceable desiccant breather
- Customizable to fit your specific needs

Ordering information

GRF - HAK



Tote Adapter Kit

Our Tote Adapter Kit allows you to easily adapt your equipment with a desiccant breather and quick connects with the use of a 2" NPT threaded adapter. This allows your system to remain completely sealed to atmospheric ingress, while allowing for easy access during offline filtration or topping reservoirs off.

> Benefits

- Easily modify your equipment for seamless connection to various filtration systems
- Prevents the ingress of dirt and moisture by utilizing a desiccant breather
- Customizable to fit all your needs

Features

- Various quick disconnects with steel dust plugs
- 2" NPT connects to most poly totes
- Replaceable desiccant breather
- Customizable to fit your specific needs
- Spring loaded faucet for easy dispensing

Ordering information

GRF - TAK



Pictured photo is cropped for visibility. Tubes are 4 ft. long.

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