

MOBILE FILTRATION UNITS

GRF SERIES



PASSION TO PERFORM



GRF 1 General Information

Technical Data

Applications

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

Performance

For filtering mineral and synthetic based oils (hydraulic oils, gear oils, and turbine oils) with a maximum operating viscosity range of ISO 680 (3000ssu/648cSt) at 100°F within ambient temperature ranges of -15°F to 150°F

Features

- 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 at 20 psid 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 Cleaniness Level (ISO Code)
CSG150A01A	β1(c)=1000	13/11/8 - 12/10/7
CSG150A03A	β3(c)=1000	14/12/19 - 13/11/18
CSG150A06A	β6(c)=1000	17/15/12 - 14/12/19
CSG150A10A	β10(c)=1000	18/16/13 - 17/15/12
CSG150A25A	β25(c)=1000	21/19/16 - 20/18/15
CSGW150A03A	Water Removal	

Mobile Filtration Unit GRF 1

Series	Configuration Example 1: GRF 105 A 1 1 - A03 P01						
GRF 105 5 GPM							
GRF 110 10 GPM							
Seal							
A Buna							
Phase							
1 110 Volt							
3 230 Volt							
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							
Execution							
P01 MP Filtri Standard							
Pxx Customize							

ICM contamination monitor is not include and should consult factory

ICM Contamination Monitor

ICM Conamination Monitor

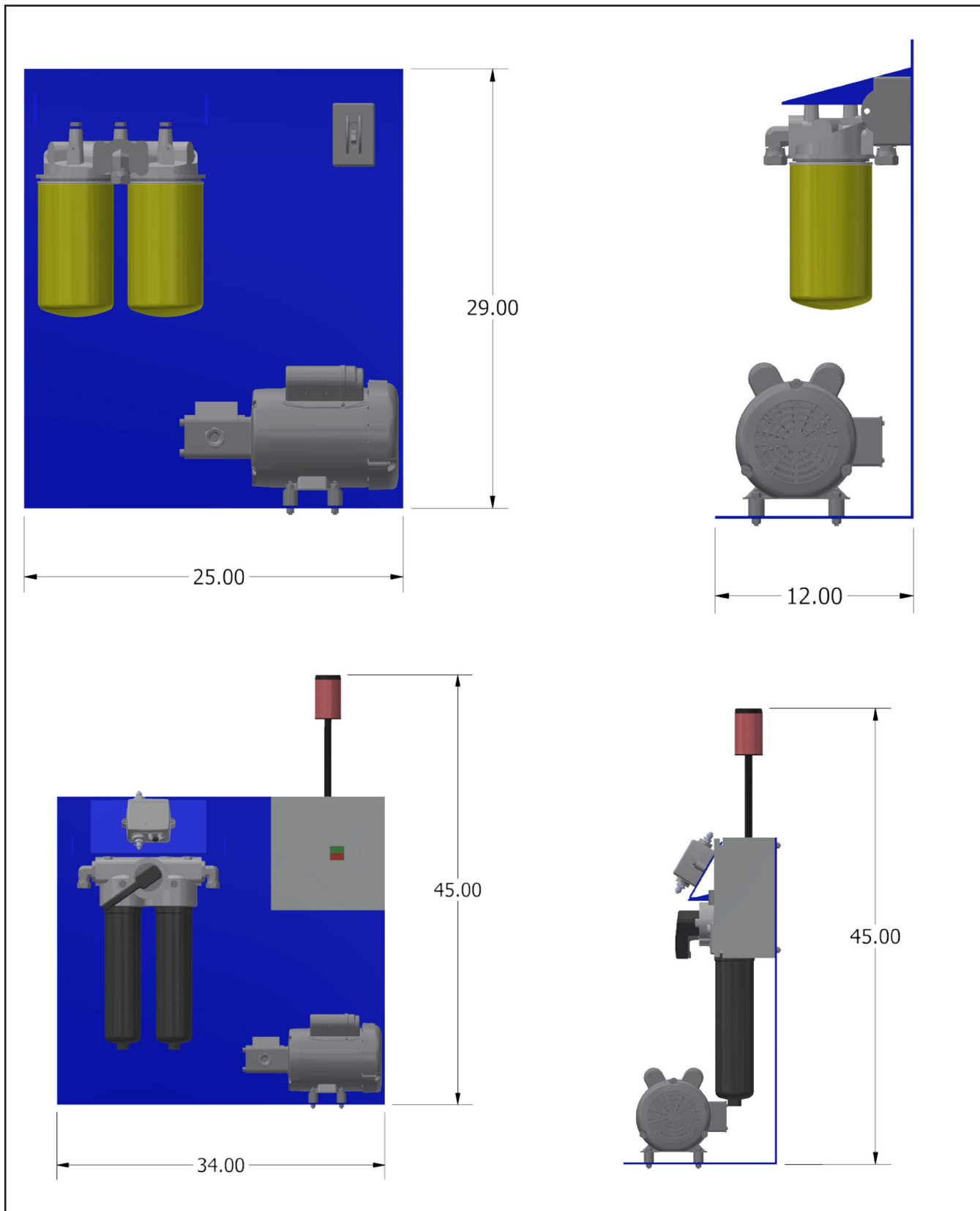
ICM-O-M-K-R-G1	Without moisture and temperature sensor, with screen, with relays/external alarm outputs
ICM-W-M-K-R-G1	With moisture and temperature sensor with screen, with relays/external alarm outputs
ICM-O-M-K-U-G1	Without moisture and temperature sensor, with screen, with test record transfer plus 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

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.

GRF1

Dimensions



General Information GRF 2 & 4

Technical Data

All-in-One Convenience

All-in one convenience is what the GRF 2 and GRF 4 drum filter carts are all about. The simple practicality of this cart allows the operator to dispense and filter oil out a 55 gallon drum on wheels. A magnetic kickstand adds stability and ensures the drum will not tip over. The drum filter cart has the ability to filter oil viscosities up to 600 cSt (ISO VG 680) at 100° F within ambient temperature ranges of -15° F to 150° F.

- GRF 2-1 is a standard drum filter cart with spin-on filter**
- GRF 2-2 is a standard drum filter cart with cartridge filter**
- GRF 4 includes an ICM contamination monitor and auto shut-down feature**

Typical Applications:

- Pre-filtering new oil
- Transferring oils
- Topping off reservoirs
- Dispensing new oil

Performance:

For filtering mineral and synthetic based oils (hydraulic oils, gear oils, and turbine oils) with a maximum operating viscosity range of ISO VG 680 (3000 ssu/648 cSt) at 100° within ambient temperature ranges of -15° F to 150° F.

Standard Features

Materials:

- Frame: Carbon Steel with magnetic kickstand
- Motor: 1 HP, 115vac, 60 Hz or Pneumatic
- Filter Heads: Cast aluminum heads
- Pump: Heavy duty, cast steel gear pump. Available in 5 and 10 gpm
- Connections: Various quick connect option available
- Hoses: 7ftt clear PVC
- Power Switch: Sealed on/off power switch

Filter Indicators:

- Visual color codes gauge or pop-up style

Pump Relief:

- Opens at 150psi

Weight:

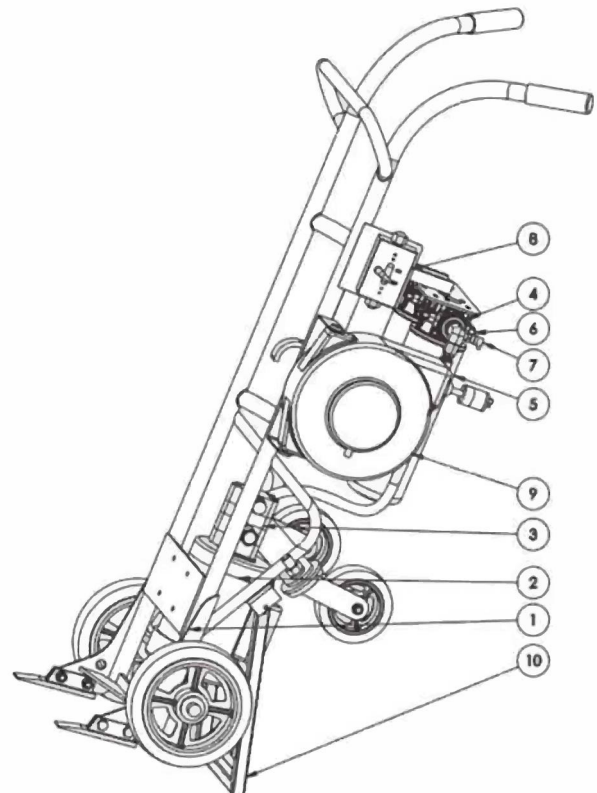
- Approx. 145lbs (will vary on options)

Dimensions:

- Approx. 23”L x 21”W x 59”H

Components:

Item Number	Description
1	Heavy Duty Drum Cart
2	Motor
3	Gear Pump
4	Filter Head
5	Filter Element
6	Filter Indicator
7	Sample Port
8	Switch On/Off
9	Cord Reel
10	Kick Stand
11	ICM Contamination Monitor (GRF4)



Mobile Filtration Unit GRF 2									
Series		Configuration Example 1: GRF 205 1 N A A03 P01							
GRF 205 5 GPM		Configuration Example 2: GRF 210 2 Y A A10 N P01							
GRF 210 10 GPM									
Type									
1 MPS300 Dual Spin-On assembly on discharge									
2 LMP2112 Single Cartridge assembly on discharge									
Y Strainer									
Y With Strainer									
N No Strainer									
Seal Material									
A Buna									
Discharge Side Element (Spin-On Type 1 only)		MPS300		Discharge Side Element (Cartridge Type 2 only)				LMP211	
A01 CSG150A01AP01		•		A01 CU2102A01ANP01				•	
A03 CSG150A03AP01		•		A03 CU2102A03ANP01				•	
A06 CSG150A06AP01		•		A06 CU2102A06ANP01				•	
A10 CSG150A10AP01		•		A10 CU2102A10ANP01				•	
A25 CSG150A25AP01		•		A25 CU2102A25ANP01				•	
Execution									
P01 MP Filtri Standard									
Pxx Customize									

Note: Consult factory for options not listed

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GRF 4 Series

Designation & Ordering Code

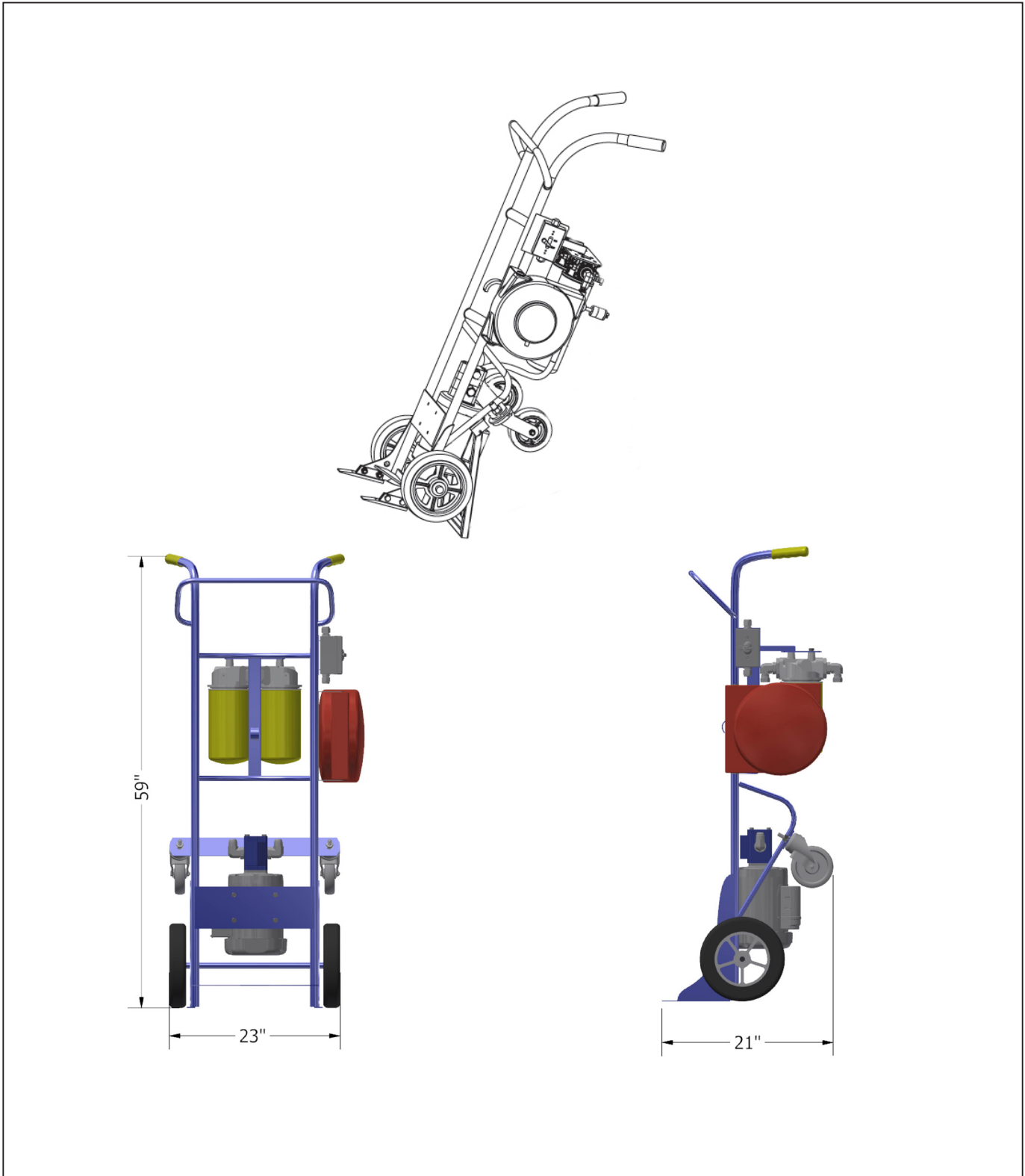
Mobile Filtration Unit GRF 4											
Series	Configuration Example 1: GRF 410 2 Y A A03 ICMW M K U 2.0 P01										
GRF 405	5 GPM										
GRF 410	10 GPM										
Type	2 LMP2112 Single Cartridge assembly on discharge										
Y Strainer	Y With Strainer										
	N No Strainer										
Seal Material	A Buna										
Discharge Side Element	A01 CU2102A01ANP01										
	A03 CU2102A03ANP01										
	A06 CU2102A06ANP01										
	A10 CU2102A10ANP01										
	A25 CU2102A25ANP01										
ICM Water/Temperature Sensor	O Without water/temperature sensor										
	W With water/temperature sensor										
Fluid Compatibility	M Mineral Oil										
Keypad	K With 6-keypad with display										
Device output	U With test transfer plus relays/external alarms										
	R With relays/external alarms										
Version	2.0 ICM 2.0										
Execution	P01 MP Filtri Standard										
	Pxx Customize										

Note: Consult factory for options not listed

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GRF 2 & 4

Dimensions



Technical Data

Applications

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

Features

- 1 HP, 115 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
- 10 ft. electrical cord with end plug, includes cord storage hook
- On-board sealed on/off switch

Suction Side

- 1 pc CSG100M90A - 90 micron wire mesh element

Discharge Side - 1

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

Discharge Side - 2

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

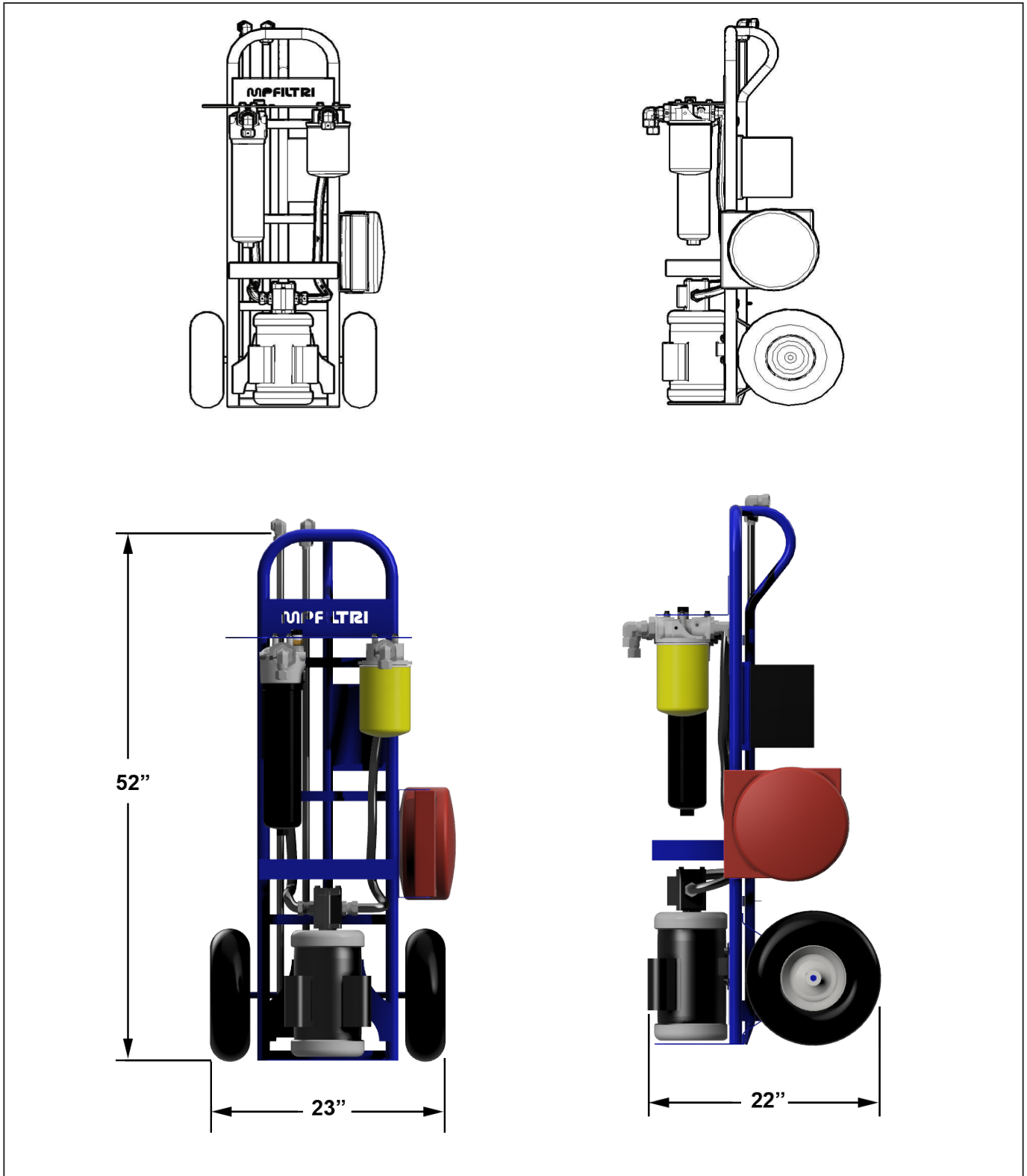
GRF 3

Designation & Ordering Code

Mobile Filtration Unit GRF 3										
Series		Configuration Example 1: <input type="text" value="GRF 310"/> <input type="text" value="1"/> <input type="text" value="M90"/> <input type="text" value="A"/> <input type="text" value="A03"/> <input type="text" value="P01"/>								
GRF 305 5 GPM										
GRF 310 10 GPM										
Type										
1 MPS300 assembly on discharge										
2 LMP2112 assembly on discharge										
Suction Side Spin-on Element										
M90 90 micron wire mesh										
Seal Material										
A Buna										
Discharge Side Element (Spin-On Type 1 only)		MPS300	Discharge Side Element (Cartridge Type 2 only)				LMP211			
A01	CSG150A01AP01	•	A01	CU2102A01ANP01	•					
A03	CSG150A03AP01	•	A03	CU2102A03ANP01	•					
A06	CSG150A06AP01	•	A06	CU2102A06ANP01	•					
A10	CSG150A10AP01	•	A10	CU2102A10ANP01	•					
A25	CSG150A25AP01	•	A25	CU2102A25ANP01	•					
Execution										
P01 MP Filtri Standard										
Pxx Customize										

Note: Consult factory for options not listed

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GRF 5 General Information

Technical Data

Applications

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

Features

- 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 4ft. stainless steel wands
- Wand Storage brackets with accommodation to contain excess in drip pan
- 10 ft. electrical cord with end plug, includes cord storage hook
- On-board sealed on/off switch

Suction Side

- 1 pc CSG100M90A - 90 micron wire mesh element

Discharge Side

- 1 pc LMP2112 housing with 50 psid bypass
- Choice of 1, 3, 6, 10, & 25 micron elements available

ICM

- 8 channel contamination measurement
- International standard formats ISO 4406:1999, 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 back-lit display
- Optional relays
- LPA View software included

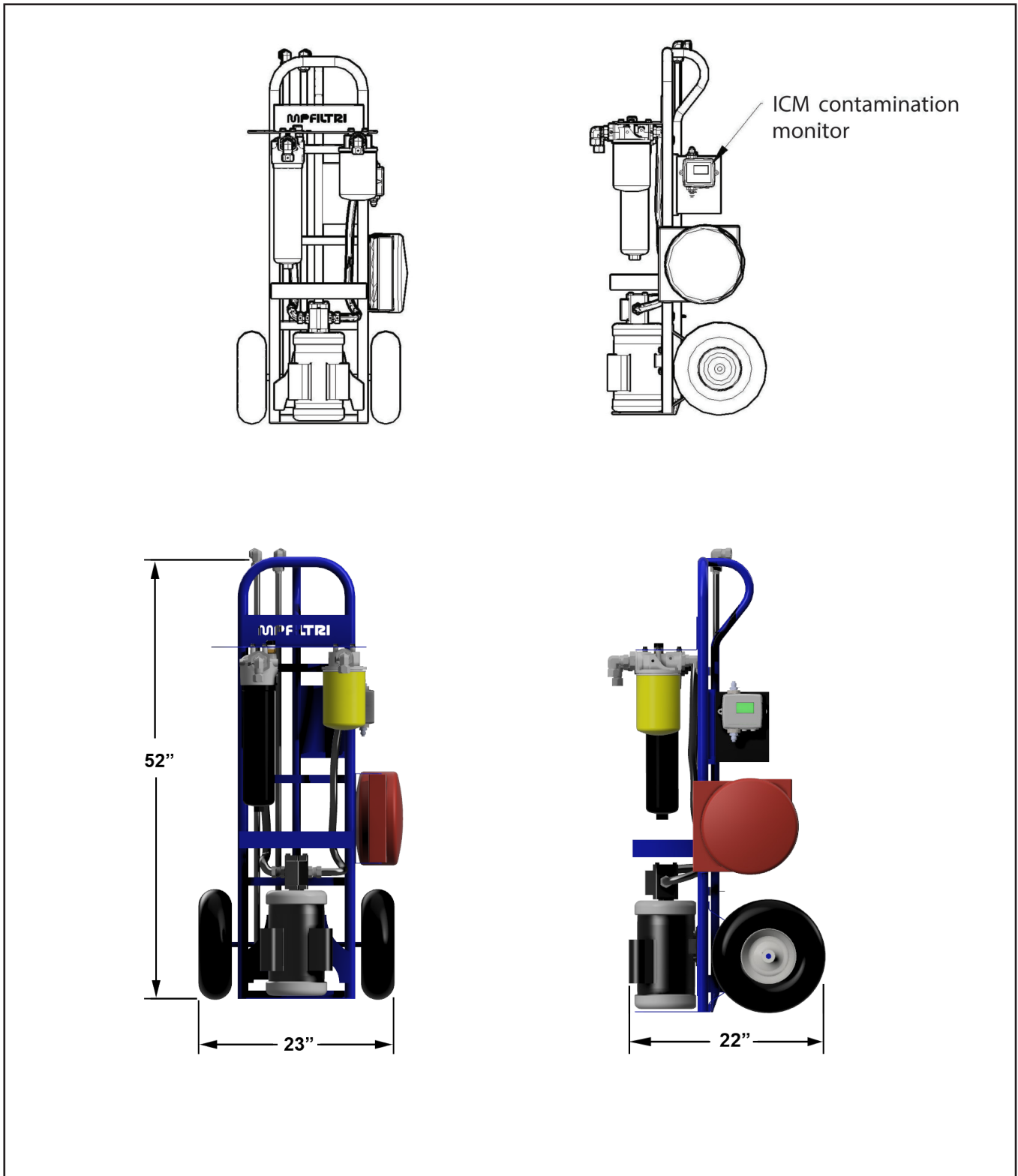
Mobile Filtration Unit GRF 5													
Series	Configuration Example 1:	GRF 510	2	M90	A	A03	ICMW	M	K	U	2.0	P01	
GRF 505	5 GPM												
GRF 510	10 GPM												
Type													
2	LMP2112 assembly on discharge												
Suction Side Spin-on Element													
M90	90 micron wire mesh												
Seal													
A	Buna												
Discharge Side Cartridge Element													
A01	CU2102A01ANP01												
A03	CU2102A03ANP01												
A06	CU2102A06ANP01												
A10	CU2102A10ANP01												
A25	CU2102A25ANP01												
ICM Water/Temperature Sensor													
0	Without water/temperature sensor												
W	With water/temperature sensor												
Fluid Compatibility													
M	Mineral Oil												
Keypad													
K	With 6-keypad with display												
Relays													
U	With test transfer plus relays/external alarms												
R	With relays/external alarms												
Version													
2.0	ICM 2.0												
												Execution	
												P01	MP Filtri Standard
												Pxx	Customize

Note: Consult factory for options not listed

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GRF 5

Dimensions



Performance Data

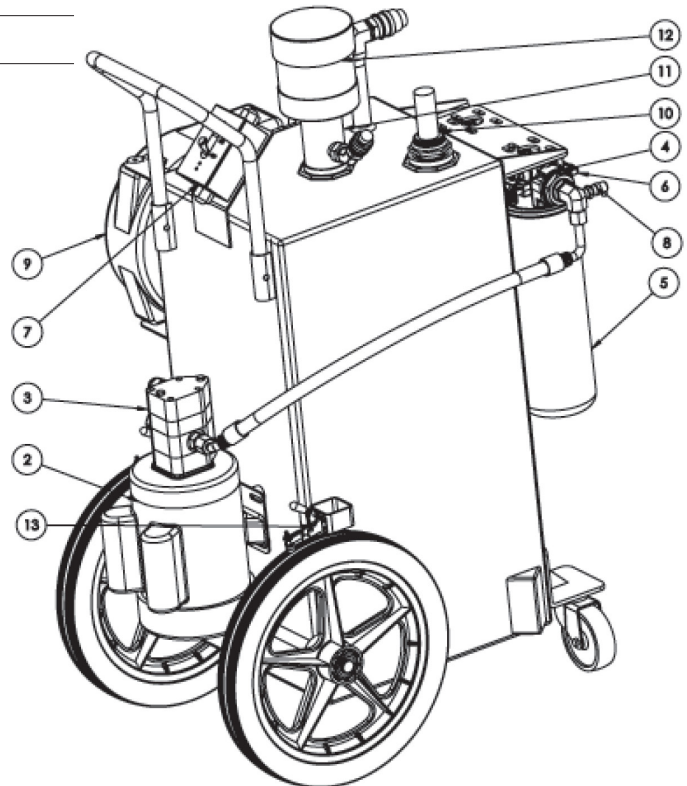
For filtering mineral and synthetic based oils (hydraulic oils, gear oils and turbine oils) with a maximum operating viscosity range of ISO VG 680 (300ssu/648cSt) at 100°F within ambient temperature ranges of -15°F to 150°F.

Standard Features

Frame	Carbon steel, 30 gallon tank with 4 wheels
Paint	Blue
Motor	1 HP or 115vac 60Hz
Filter Options	MPS 300 Dual Spin-on or LMP211 Cartridge Style
Pumps	Heavy Duty Cast Iron Gear Pump: Available in 5 and 10 GPM
Connections	3/4" JIC
Hoses	10 ft. Suction and Return
Power Switch	Sealed on/off power switch
Cord	40 ft. retractable cord reel
Breather	Desiccant breather
Filter Indicators	Pop up indicator triggers when elements need to be changed
Pump Relief	Opens at 150psi
Weight	Approx. 125 lbs (will vary depending on options)
Dimensions	Approx. 30"L x 19"W x 35"H

Components:

Item Number	Description	QTY
1	Tank	1
2	Motor	1
3	Pump	1
4	Filter Head	
5	Filter Element	
6	Filter Indicator	2
7	Switch On/Off	1
8	Sample Port	2
9	Retractable Reel	1
10	Sight Gauge	1
11	Breather Adapter	1
12	Breather	1
13	Brake	2



GRF 6 Series

Designation & Ordering Code

Mobile Filtration Unit GRF 6										
Series		Configuration Example 1: GRF 605 1 A SA03 1 P01								
GRF 605 5 GPM		Configuration Example 2: GRF 610 3 A CA03 CA10 1 P01								
GRF 610 10 GPM										
Type										
1	MPS300 Dual Spin-On assembly on discharge (2) elements required									
2	LMP2112 Single Cartridge assembly on discharge (1) element required									
3	LMP211 + LMP2112 (2) each Cartridge assemblies on discharge in series (2) elements required									
Seal Material										
A	Buna									
Discharge Side Element (Spin-On Type 1 only)		MPS300	Discharge Side Element (Cartridge Type 2 & 3 only)				LMP211			
SA01	CSG150A01A	•	Type 3 requires (2) elements							
SA03	CSG150A03A	•	CA01	CU2102A01ANP01		•				
SA06	CSG150A06A	•	CA03	CU2102A03ANP01		•				
SA10	CSG150A10A	•	CA06	CU2102A06ANP01		•				
SA25	CSG150A25A	•	CA10	CU2102A10ANP01		•				
SWA25	CSGW150P25A	•	CA25	CU2102A25ANP01		•				
	Celluoues water removal		CWA25	CU2102WA25ANP01		•				
				Inorganic microfiber water removal						
		Note:								
		If Type 3, must select applicable 2nd element for unit								
Contamination Monitor Options										
0	Without ICM unit									
1	ICM-W-M-K-R-G3-2.0 - mineral oil fluid moisture and temperature sensor with screen, and USB download capability									
		Execution								
		P01	MP Filtri Standard							
		Pxx	Customize							

Note:

(1) each: ICM-USBi module required for programming ICM (Refer to ICM operator guide for selectable program options)

Fluids other than mineral oil consult factory

Note: Consult factory for options not listed

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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.



Tube lengths available
in various sizes.

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

GRF 6 Accessories

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.



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

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 degree female JIC swivel end

Ordering Information:

- GRF-HWKIT-SS

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

GRF 6 Accessories

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:

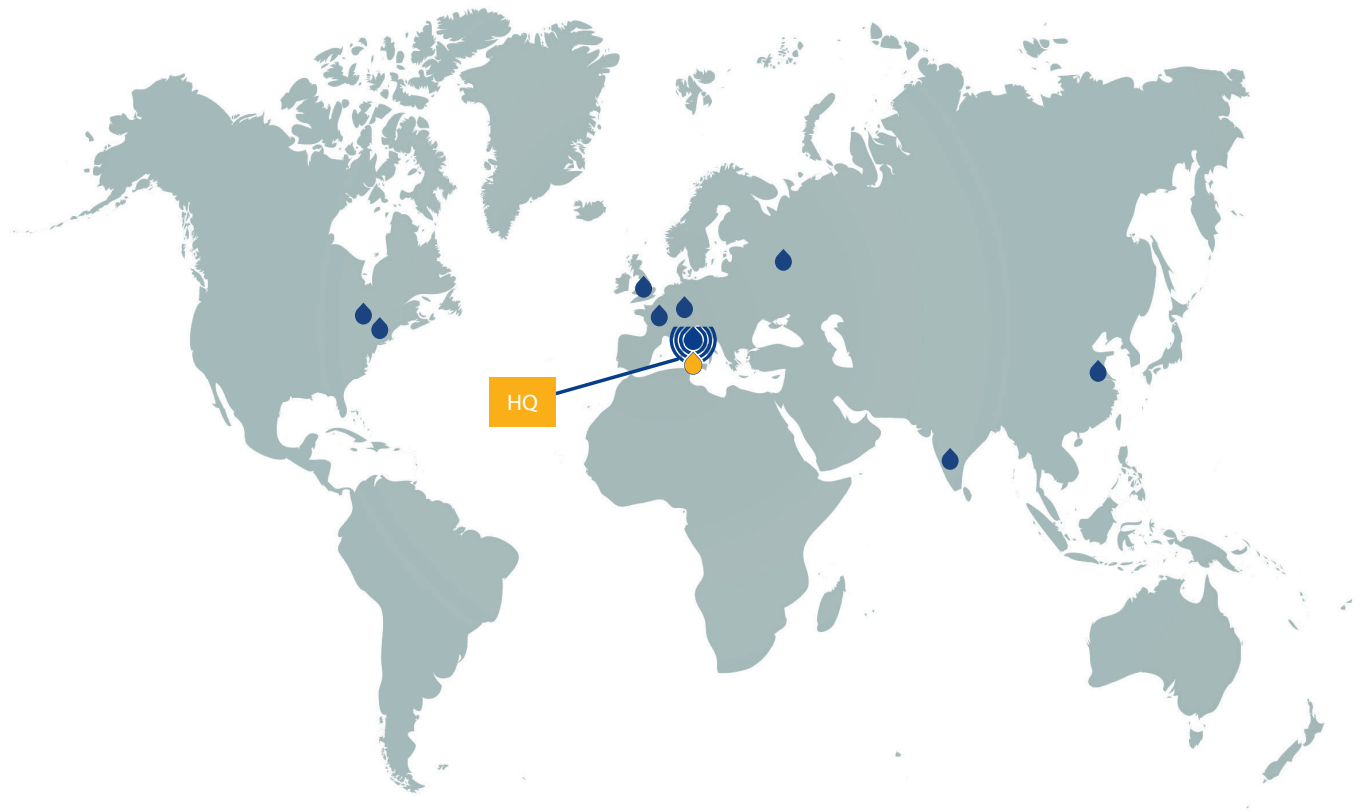
- Various quick disconnects with steel dust plugs
- 2" NPT connects to most poly totes
- Replaceable desiccant breather
- Customizable to fit your specific needs
- Spring loaded faucet for easy dispensing

Ordering Information:

- GRF-TAK



WORLDWIDE NETWORK



HEADQUARTERS

8 BRANCHES

OVER 300 DISTRIBUTORS

Germany

France

USA

Russian Federation

China

United Kingdom

India

Canada

PASSION TO PERFORM

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