



MOTORIMPEX

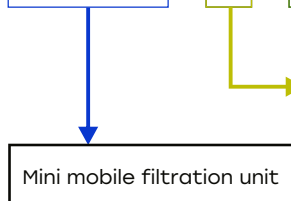
Mobile filtration unit MFZU



■ ORDER FORM FOR MFZU

Standard execution (MFZU-25-V-1-MI004)

MFZU — 25 — V — — MI004



Filtration stage	
3	3 µm
6	6 µm
10	10 µm
16	16 µm
25	25 µm

Contamination indicator type	
V	Visual
E	Electrical

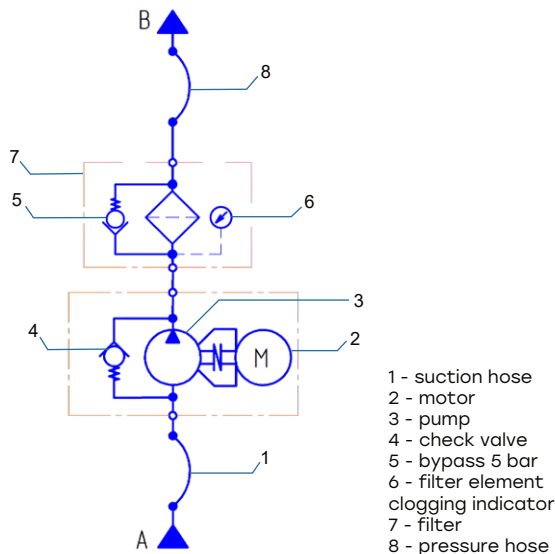
Electric motor type	
1	220 V / 1 Ph
3	220/380 V / 3 Ph
12	12 V DC (with inverter)

MFZU is a mobile filtration unit equipped with a cartridge-type low-pressure filter.

It is designed for cleaning hydraulic fluid in mini hydraulic power packs and compact hydraulic power units with tank capacities up to 200 L.

MFZU is the most compact model in the FZU series manufactured by Motorimpex. Its small overall dimensions allow installation in confined spaces and on mobile equipment.

The unit is supplied as standard with a filter element contamination indicator, enabling timely replacement of the filter element.



Basic technical specifications:

Electric motor capacity	12 V DC (0,25 kW 220 V / 50 Hz / 1 Ph, with invertor) 0,25 kW 220 V / 50 Hz / 1 Ph 0,25 kW 220/380 V / 50 Hz / 3 Ph
Flow rate	Up to 8,5 l/min
Pump type	external gear pump
Maximum working pressure	5 bar
Hydraulic liquid type	mineral oil (others – by request)
Hydraulic liquid viscosity	10 mm ² /s – minimum working 400 mm ² /s – maximum working
Filtration stage	on request: 3, 6, 10, 16, 25 µm
Hoses	suction hose: DN19 × 2 m pressure hose: DN12 × 3 m (other on request)
Working liquid temperature	-10...+80 °C
Optimum ambient temperature	-20...+45 °C
Protection type	IP 54 / IP68
Weight	11 kg



MOTORIMPEX

Mobile filtration unit FZU1



■ ORDER FORM FOR FZU1

Standard execution (FZU1-40-25-3-V-MI002)

FZU1 — 40 — 25 — 3 — — B — MI002

Flow rate	
20	20 l/min
30	30 l/min
40	40 l/min

Mobile filtration unit with one filter

Filtration stage	
3	3 µm
6	6 µm
10	10 µm
16	16 µm
25	25 µm

Electric motor type	
1	220 V / 1 Ph
3	220/380 V / 3 Ph

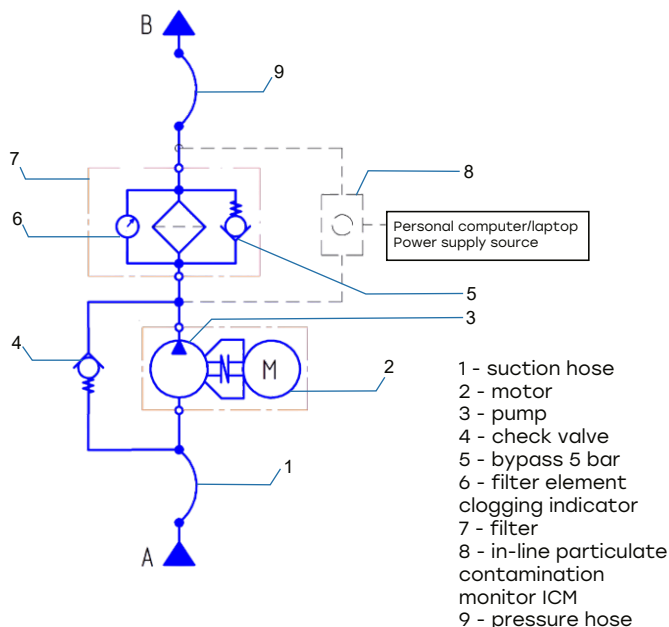
Type of sensor of filter element contamination	
V	Visual
E	Electrical

Auxiliary equipment	
No code	Without ICM sensor of purity grade of hydraulic liquid
I	With ICM sensor of purity grade of hydraulic liquid

FZU1 are designed to fill in with hydraulic liquid of average volume hydraulic systems from 200 to 1000 liters.

Such units include one filter with high contamination level. They include filter element contamination indicator, allowing performing its replacement in time.

Refueling units of FZU1 type can be completed additionally with sensors of purity grade of hydraulic liquid ICM, allowing real-time monitoring of lubrication purity grade contained in the tank.



Basic technical specifications:

Electric motor capacity	0,75 kW 220 V / 50 Hz / 1 Ph 0,75 kW 220/380 V / 50 Hz / 1 Ph
Flow rate	20 l/min 30 l/min 40 l/min
Pump type	external gear pump
Maximum working pressure	8 bar
Hydraulic liquid type	mineral oil (others – by request)
Hydraulic liquid viscosity	10 mm ² /s – minimum working 400 mm ² /s – maximum working
Filtration stage	on request: 3, 6, 10, 16, 25 μm
Hoses	suction hose: DN25 × 3 m pressure hose: DN19 × 5 m (other on request)
Working liquid temperature	-10...+80 °C
Optimum ambient temperature	-20...+45 °C
Protection type	IP 54 / IP68
Weight	85 kg
Auxiliary equipment	In-line particulate Contamination Monitor ICM



MOTORIMPEX

Mobile filtration unit FZU2



■ ORDER FORM FOR FZU2

Standard execution (FZU2-80-25-10-3-V-MI003)

FZU2 — 80 — 25 — 10 — 3 — — B — MI003

Flow rate	
20	20 l/min
40	40 l/min
60	60 l/min
80	80 l/min

Filtration stage			
Coarse mesh filter		Fine mesh filter	
10	10 µm	3	3 µm
16	16 µm	6	6 µm
25	25 µm	10	10 µm

Electric motor type	
1	220 V / 1 Ph
3	220/380 V / 3 Ph

Type of sensor of filter element contamination	
V	Visual
E	Electrical

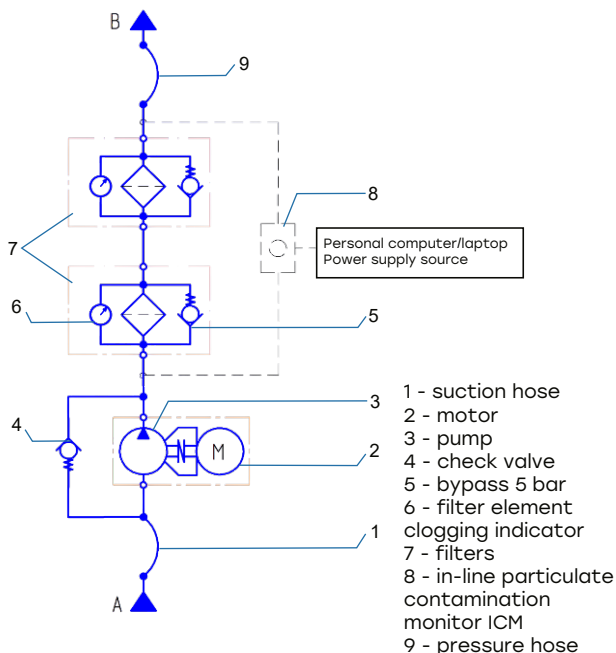
Auxiliary equipment	
No code	Without ICM sensor of purity grade of hydraulic liquid
I	With ICM sensor of purity grade of hydraulic liquid

Mobile filtration unit with two filters

FZU2 are used for large-size hydraulic systems (with volume of hydraulic tank more than 1000 liters), include two filters with high contamination level: 1-st filter – course, 2-nd filter – fine, allowing achieving the highest filtration level of hydraulic liquid.

They also include filter element contamination indicators, allowing performing its replacement in time.

Refueling units of FZU2 type can be completed additionally with sensors of purity grade of hydraulic liquid ICM, allowing real-time monitoring of lubrication purity grade contained in the tank.



Basic technical specifications:

Flow rate	20 l/min / 0,75 kW (1 Ph, 3 Ph) 40 l/min / 0,75 kW (1 Ph, 3 Ph) 60 l/min / 1,1 kW (1 Ph, 3 Ph) 80 l/min / 1,5 kW (1 Ph, 3 Ph)
Pump type	external gear pump
Maximum working pressure	8 bar
Hydraulic liquid type	mineral oil (others – by request)
Hydraulic liquid viscosity	10 mm ² /s – minimum working 400 mm ² /s – maximum working
Filtration stage	on request: 3, 6, 10, 16, 25 μm
Hoses	suction hose: DN32 × 3 m pressure hose: DN38 × 5 m (other on request)
Working liquid temperature	-10...+80 °C
Optimum ambient temperature	-20...+45 °C
Protection type	IP 54 / IP68
Weight	90 kg
Auxiliary equipment	In-line particulate Contamination Monitor ICM

■ WHY SHOULD YOU USE FZU?

Hydraulic oils used in industrial and mobile applications are typically supplied in drums or containers and may contain abrasive particles. The reliability and service life of hydraulic systems directly depend on the cleanliness of the hydraulic fluid.

Mobile filtration units (FZU) are designed for filling, flushing and cleaning hydraulic systems. They ensure the required fluid cleanliness level, reduce component wear and help minimize equipment downtime.

Motorimpex mobile filtration units provide an efficient solution for removing contamination from hydraulic fluids before they enter the hydraulic system.

The units are compact, easy to transport and designed for convenient connection to hydraulic systems in industrial facilities or mobile equipment.

As an option, FZU units for large hydraulic systems can be equipped with an ICM contamination sensor for continuous monitoring of hydraulic fluid cleanliness.





CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE

EIROPAS PRODUKCIJAS, PAKALPOJUMU UN VADĪBAS SISTĒMU
SERTIFIKĀCIJAS AĢENTŪRA

EUROPEAN CERTIFICATION AGENCY FOR PRODUCTION, SERVICES AND MANAGEMENT SYSTEMS

SERTIFIKĀTS ATBILSTĪBAS CERTIFICATE OF CONFORMITY

Reģistrēts sertifikācijas institūciju reģistrā

Registered at the Record of certification body SIA "Eiropas produkcijas, pakalpojumu un vadības sistēmu sertifikācijas aģentūra" under №

№ ECA.01.0089-24

Derīgs no 04.06.2024 līdz 03.06.2029

Term of validity

Izsniegts sertifikāts
Certificate is issued

**MOTORIMPEX.EU SPÓŁKA Z OGRANICZONĄ
ODPOWIEDZIALNOŚCIĄ (MOTORIMPEX.EU sp. z o.o.)**
ANNY WALENTYNOWICZ str., № 10, lok. 1, LUBLIN, POLAND 20-328
(Authorization Letter for Distributorship dated 8 January 2024 from the
Manufacturer PC MOTORIMPEX LLC, Ukraine)

Produkcijas ražotājs
Manufacturer

LIMITED LIABILITY COMPANY PRODUCTION COMPANY
MOTORIMPEX (PC MOTORIMPEX LLC)
Kyrhyzka str., № 19, Kharkiv, Ukraine 61105

Produkcijas
Production

Mobile filtration units, models FZU, MFZU and their components

Ievērot prasības
Complies with the
requirements

**TS U 28.1-42671881-003:2020 «Mobile filtration units of FZU type. Technical
specifications»;**
EN ISO 4413:2010; EN 60204-1:2018;
EN IEC 61000-6-2:2019;
EN IEC 61000-6-4:2019;
related to CE Directives: 2006/42/EC (Machinery); 2014/35/EU (Low Voltage);
2014/30/EU (Electromagnetic Compatibility)

Papildus informācija
Additional information

This document has been issued on a voluntary basis and at the request of the manufacturer.
In our opinion, the technical documentation received from the manufacturer regarding the
requirements for Geometrical dimensions of FZU, Electrical equipment of FZU, Electrical
connection with the grounding clamp, Grounding sign, Grounding resistance, Completeness,
Marking; Anticipated pressure, Mechanical
Information may be
Contaminants, Protection
switching off device
emergency switch



MOTORIMPEX

CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE

Our mobile filtration and refueling units are certified and meet the requirements of DSTU EN 60204-1:2015. Each project is executed individually, with parameters and deadlines agreed upon. We supply 40 categories of hydraulic equipment components from Europe. We provide urgent and planned support for our projects 24/7. The management system of the Group of Companies complies with ISO 9001:2015 standards.

CONTACT INFORMATION

Export Manager:
Hanna Liventseva

+48 (579) 779-979
global@motorimpex.com

Engineering group leader:
Anton Lebediev

+38 (050) 305-77-01
a.lebedev@motorimpex.com



motorimpex.com

Shop Components Online