

■ **PROPORTIONERS AND MONITORS
FOR MOBILE FIREFIGHTING**



■ EXTINGUISHING TECHNOLOGY FOR FIRE BRIGADES

For decades, FireDos has been developing proportioners and monitors for fire brigades. The crews of professional, industrial and voluntary fire services need equipment they can rely on one hundred per cent during their operations.

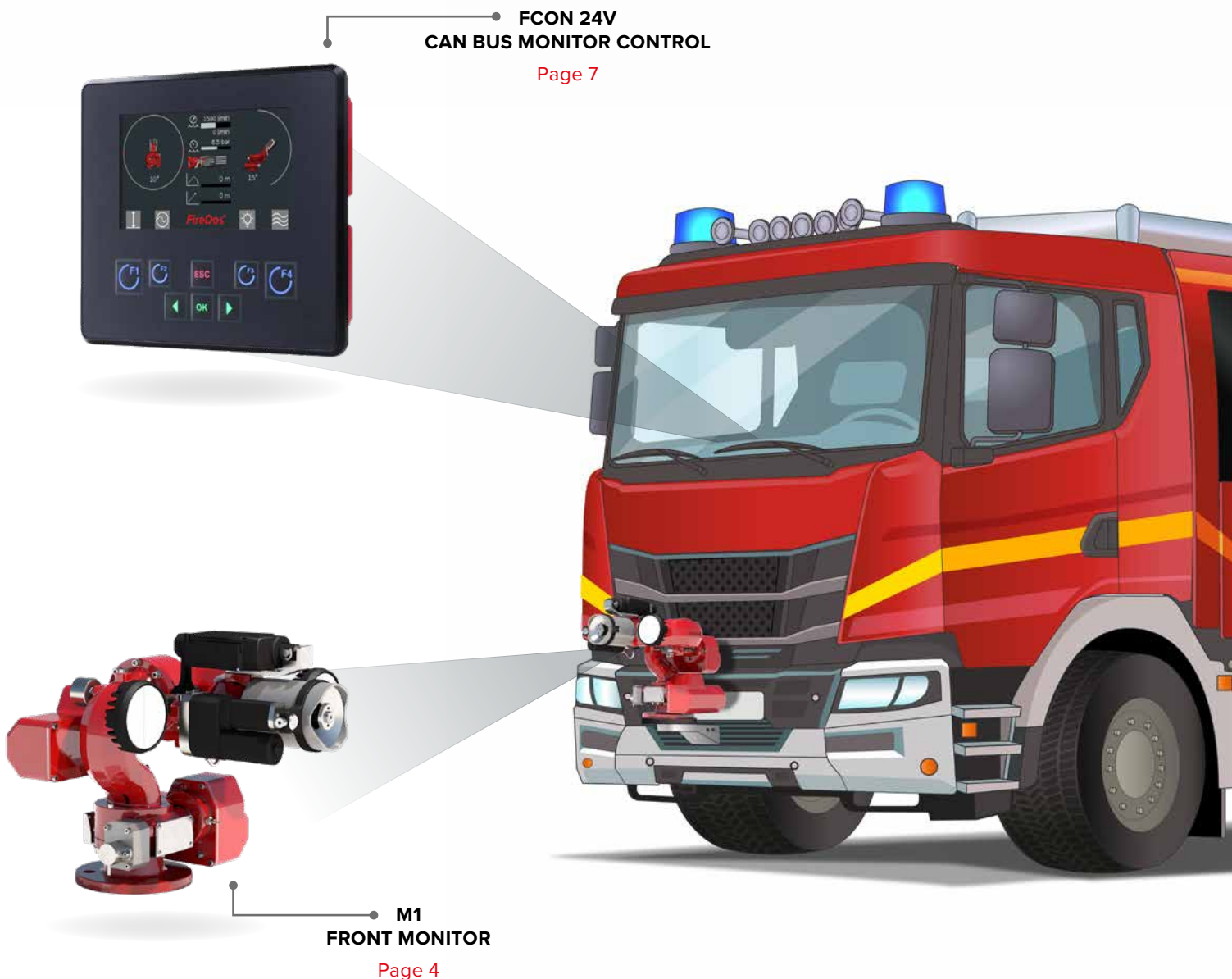
The units are suitable for all types of foam concentrate and can generate both fire-extinguishing foam and wetting agent. The proportioning rate remains constant at all times, even during pulsed discharge.

■ PROPORTIONERS FOR FIRE TRUCKS

Our purely mechanical proportioners have been specifically developed for installation in fire engines and offer the advantages of simple operation, reliability and flexibility in use.

■ PORTABLE PROPORTIONERS

These portable proportioners assist fire brigades in rough terrain that is inaccessible to vehicles, as well as in firefighting situations that require them to operate close to the scene of the fire. The proportioning ratios can be easily adjusted in just a few simple steps whilst the system is in operation.



The mobile proportioners are also suitable for producing wetting agent. Due to its lower surface tension, wetting agent can penetrate deep into the burning material and thus, depending on the application, improve the effectiveness of the extinguishing process compared to water or foam.

Our 2-in-1 solution is unique worldwide: a proportioner that is installed in the fire engine and can be removed in just a few simple steps to be used as a portable unit.

■ MONITORS FOR FIRE TRUCKS

Thanks to their compact design, our monitors can be installed both as front-mounted units and on the roof of the fire engine. Their hydraulically optimised design ensures maximum throwing distance. A wide range of sizes and various nozzles are available to choose from. All monitors can also be operated remotely and are compatible with the FireDos vehicle control system.



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■ EXTINGUISHING MONITORS FOR FIREFIGHTING WITH WATER OR FOAM

FireDos extinguishing monitors are suitable for firefighting with water or foam and can deliver thousands of litres of water per minute over a distance of more than 150 metres. Thanks to the innovative, flow-optimised Oval-Flat design, there is only minimal pressure loss. This enables the monitors to achieve maximum throwing distance.

- For flow rates from 150 l/min to 60 000 l/min
- Manually or electrically controlled
- Adjustment of the extinguishing agent flow rate during operation



A SAFE INVESTMENT

Robust, reliable, sturdy, built-to-last



EASY OPERATION AND INTEGRATION

Electrically or manually operated



FLEXIBLE IN USE

Wide swivel range, adjustable extinguishing agent volume



MANUALLY OPERATED MONITORS

Type series	Extinguishing water flow rate*	Max. operating pressure	Constant flow rate (MPN nozzle)	Adjustable flow rate (AMPN nozzle)	Adjustable flow rate with powder feed (AMPN NDCX nozzle)	Foam pipe with deflector (FPD)	Foam pipe with deflector (AFPD)
M2	300 – 2500 l/min	16 bar	✓	✓	x	✓	✓
M3	500 – 4500 l/min**		✓	✓	✓ (7 kg/s)	✓	✓
M4	1000 – 8000 l/min		✓	✓	✓ (15 kg/s)	✓	✓
M5	2000 – 12000 l/min		✓	✓	x	✓	✓
M7	2100 – 24000 l/min 3500 – 24000 l/min		✓	✓	x	✓	✓
M9	4500 – 40000 l/min		x	✓	x	x	x
M12	10000 – 60000 l/min		x	✓	x	x	x

ELECTRICALLY CONTROLLED MONITORS

Type series	Extinguishing water flow rate*	Max. operating pressure	Constant flow rate (MPN nozzle)	Adjustable flow rate (AMPN nozzle)	Adjustable flow rate with powder feed (AMPN NDCX nozzle)	Foam pipe with deflector (FPD)	Foam pipe with deflector (AFPD)
M1	150 – 1000 l/min 400 – 2000 l/min	16 bar	✓	✓	x	x	x
M2	300 – 2500 l/min		✓	✓	x	✓	✓
M3	500 – 4500 l/min**		✓	✓	✓ (7 kg/s)	✓	✓
M4	1000 – 8000 l/min		✓	✓	✓ (15 kg/s)	✓	✓
M5	2000 – 12000 l/min		✓	✓	x	✓	✓
M7	2100 – 24000 l/min 3500 – 24000 l/min		✓	✓	x	✓	✓
M9	4500 – 40000 l/min		x	✓	x	x	x

* Water flow rate depends on the inlet pressure and nozzle type.
Please refer to the relevant data sheet for precise figures

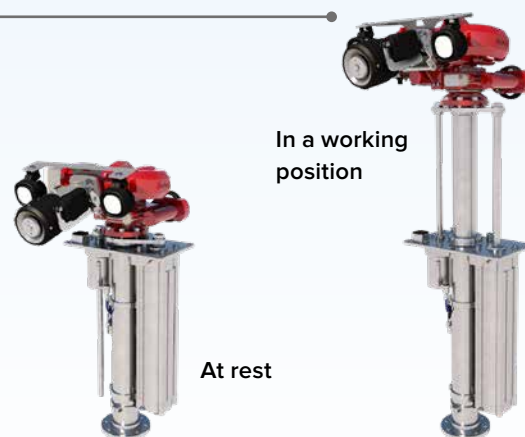
** Up to 4000 l/min when using powder as the extinguishing agent

■ PERFECTLY TAILORED TO THE APPLICATION

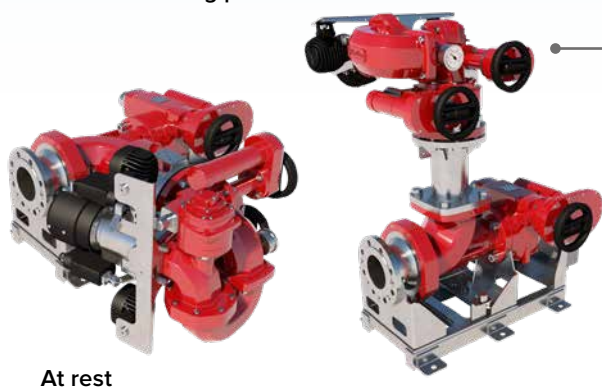
Every fire engine has unique requirements when it comes to its bodywork. To cater for this diversity and ensure the FireDos fire monitors are integrated as effectively as possible, there are various installation options available that can be perfectly adapted to the specific features of your vehicle type.

■ MONITOR LIFT

The FireDos monitor lift has been developed to raise monitors of sizes M2–M5 to an elevated working position. It moves the monitor quickly and safely between the compact standby position and the operational working height to ensure its full range of action. A pneumatic cylinder provides a vertical stroke of 500 mm and utilises the vehicle's on-board compressed air supply. The monitor lift can be seamlessly integrated into the FireDos control system.



In a working position



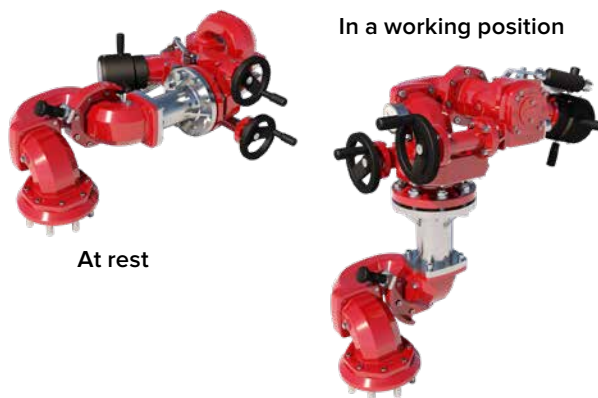
■ SWIVEL UNIT

Specially developed for FireDos M2 and M3 monitors, the swivel unit ensures rapid, remote-controlled operation. A powerful 24 V DC drive moves the monitor from its compact standby position into the working position and back. Uncompromising reliability under all conditions is ensured by the integrated emergency control via handwheels.

At rest

■ FOLDING JOINT

The folding joint is the perfect solution for integrating manually operated M2 monitors onto vehicles in a space-saving manner and achieving an optimal operating height during use. In the working position, it raises the monitor by approx. 500 mm, which makes operation easier. A secure locking mechanism in both end positions guarantees maximum safety and stability at all times – both whilst driving and during demanding operations.



At rest

In a working position



■ REMOVABLE FOAM PIPE (RFP)

The removable foam pipe (RFP) is available as an option alongside the multi-purpose nozzle (with or without an adjustable agent flow). The removable foam pipe features sturdy handles and can be temporarily fitted and locked in place for foam applications. Due to its shorter overall length, slightly lower foam expansion ratios are achieved than with the permanently installed FP foam pipe.

■ CONTROL SYSTEMS

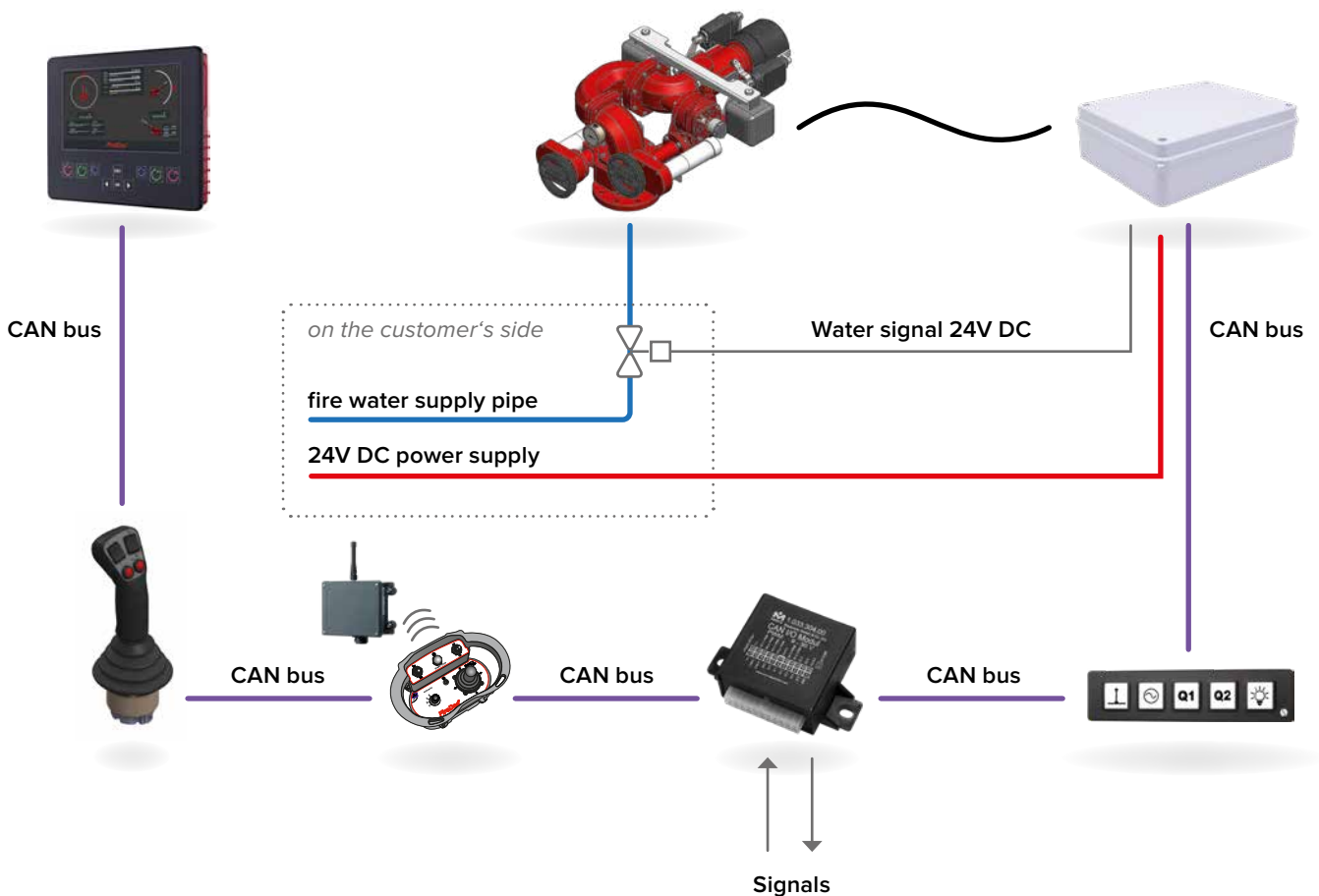
All monitors in sizes M1 - M9 can also be operated remotely and are compatible with the FireDos vehicle control system.

The FCON control unit provides the perfect interface between the FireDos monitor and your vehicle's CAN bus control system. It has been designed to give you maximum control and an overview during operations.

Intuitive control: The brilliant 4.3-inch colour display with its clear user interface allows for easy control of all monitor functions and displays key operating parameters at a glance.

Precise positioning: Using the ergonomic joystick, you can move the monitor with pinpoint accuracy and precision to the desired position.

Maximum flexibility: Optionally, the monitor can also be controlled via our tried-and-tested radio remote control – for greater freedom of movement and safety during operations.



■ PROPORTIONERS: SAFE AND WELL-EQUIPPED FIT TO BE INSTALLED IN ALL TYPES OF FIRE ENGINES

The crews of professional, industrial and volunteer fire brigades need equipment in their fire engines that they can rely on one hundred per cent.

Our proportioning systems have been specially developed for installation in fire engines and impress with their ease of use, reliability and flexibility in operation. The purely mechanical systems are characterised by a constant proportioning rate across

a wide range of flow rates and pressures of the extinguishing water and are suitable for generating firefighting foam and wetting agent. The units can be permanently installed in all fire engines, whether in firefighting vehicles, tankers, roll-off containers, fire engines or aerial rescue and specialised firefighting vehicles.



SUITABLE FOR PULSATING / INTERMITTENT OPERATION

The proportioning rate stays constant also when the extinguishing water is discharged in pulsating or intermittent mode.



PURELY MECHANICAL, INDEPENDENT OF ON-BOARD POWER SUPPLY

Driven solely by the flow of extinguishing water. No electricity is required, which means no additional load to the truck's power supply.



PRODUCTION OF WETTING AGENT AND FOAM BELOW 100 L/MIN

The foam agent is injected precisely already at a low extinguishing water flow rate, guaranteeing effective firefighting.

■ BUILT-IN PROPORTIONERS

Type series	Extinguishing water flow rate	Proportioning rates	Operating pressure
FZ1000	60 – 1000 l/min	Stepwise: 0.1 / 0.3 / 1 / 3 %	Up to 16 bar
FZ2000	150* – 2000 l/min 75 – 2000 l/min	Stepwise adjustable: Wetting agent / 0.5 / 1 / 3 %	
FD3000	400* – 3000 l/min 250* – 3000 l/min	Fixed: 3 %, 6 % Stepless adjustable: (0.1) 0.3 - 3 %	
FD4000	500* – 4000 l/min	Fixed: 3 %, 6 %	

* Without the optional flow reduction, depending on operating pressure and proportioning rate

Additional units available upon request as custom designs

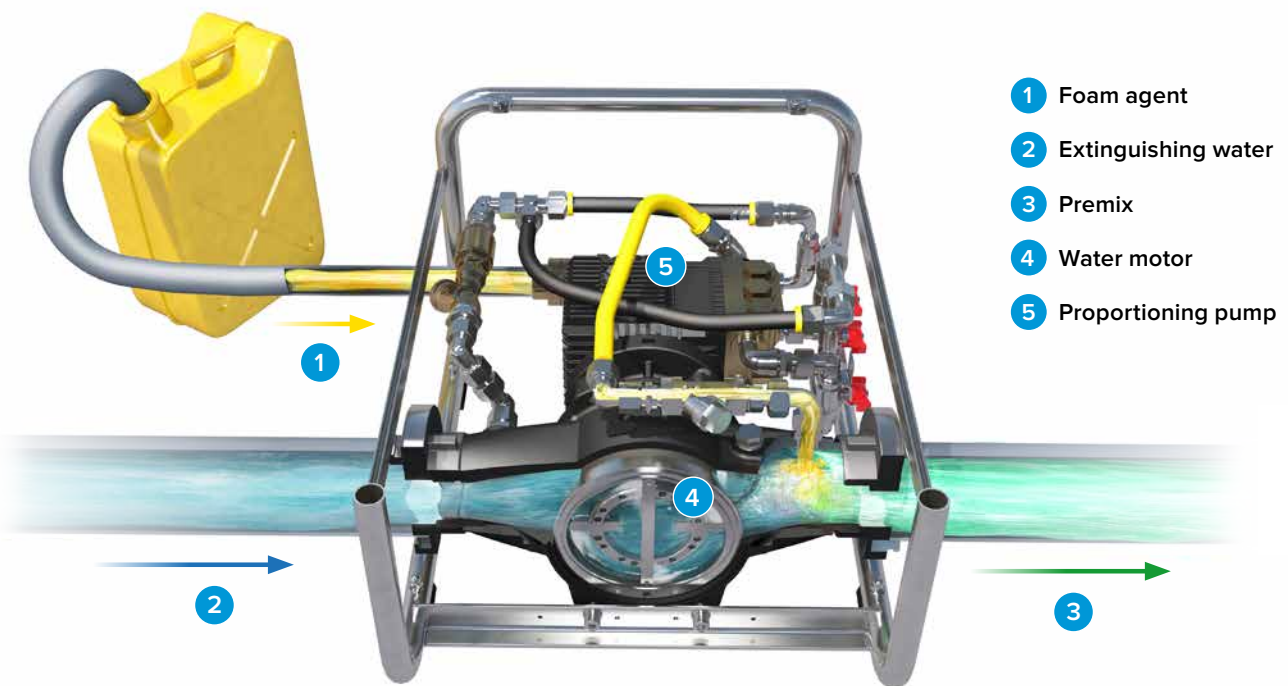




■ **PORTABLE PROPORTIONERS:
EXTREMELY FLEXIBLE FOR MOBILE USE**

The portable DZ1000 and DZ1000 light proportioners were specifically designed for a variety of firefighting scenarios and offer maximum flexibility in mobile operations. They guarantee precise foam concentrate dosing across the entire operating range from

120 l/min to 1,000 l/min. The proportioning rates of 0.3%, 1%, and 3% (DZ1000) or 0.1%, 0.5%, and 1% (DZ1000 light) can be easily switched during operation in just a few simple steps.



■ 2-IN-1 SOLUTION: FOR VEHICLE INSTALLATION AND PORTABLE USE

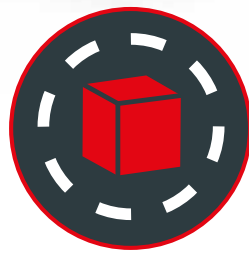
Permanently installed or portable? Our DZ1000 light pressure-operated proportioning system can do both!

Thanks to its compact design, it can be installed as a modular unit in fire trucks and converted into a portable system in just a few simple steps. It offers maximum flexibility in any situation.



VERSATILE USE

Easy switching between proportioning rates



RUGGED AND BUILT-TO-LAST

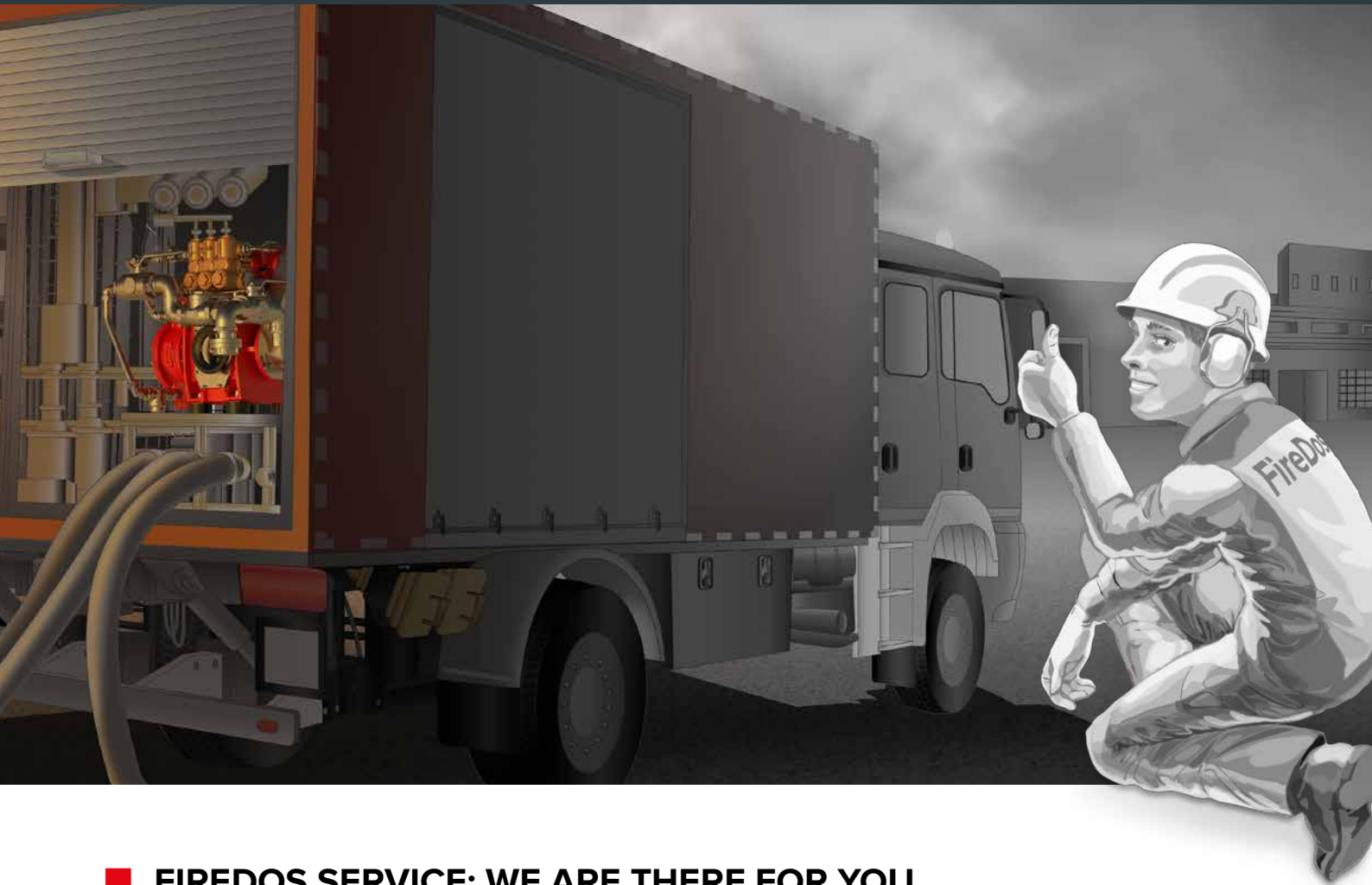
Reliable use in hazardous areas.



FOR THE PRODUCTION OF FIRE-FIGHTING FOAM AND WETTING AGENT

Wetting agent flow rates starting at 80 or 90 l/min

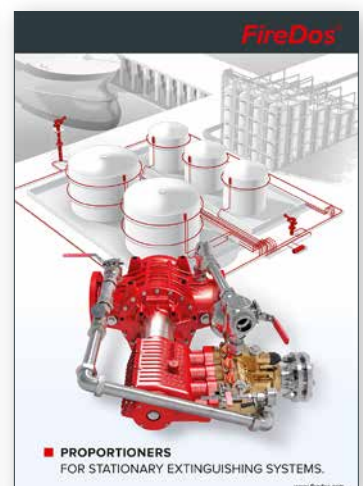
Device type	Proportioning rate	Wetting agent	Dimensions	Weight
DZ1000	1%, 3%	0.3% (90 l/min or more)	670 x 410 x 320 mm (L x W x H)	45 kg (can be carried by two people)
DZ1000 light	0.5%, 1%	0.1% (80 l/min or more)	500 x 406 x 317 mm (L x W x H)	< 25 kg (can be carried by one person)



■ FIREDOS SERVICE: WE ARE THERE FOR YOU.

From bidding texts through commissioning to maintenance: our service team will assist you during all project phases. We are at your service to keep you going. Contact us. We will be happy to help you along.

Further brochures:



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