

Interschutz 2022: Rosenbauer showcases its core expertise in extinguishing systems with new pumps, foam proportioning systems, and CAFS products



- *N10 and N20 built-in pumps with very compact dimensions for underfloor installation*
- *N15 normal pressure pump for rear installation in chassis with low drive power*
- *RM15C turret with specially developed nozzle for wildland fire fighting*
- *New, mobile (retrofit) solutions in the CAFS product range*
- *Extinguishing technology system expertise in the fire-fighting vehicle can also be presented completely electrically*

Rosenbauer has further developed its range of extinguishing systems and made it fit for the future with new pumps, foam proportioning systems, and CAFS systems. Above all, the pump series was expanded and rounded off in the lower performance range.

All-round powerhouse N10 and N20

With the N10 and the new N20, two pumps are now available that are particularly suitable for underfloor installation due to their compact dimensions. This is the case, for example, in the AT electric, where the installed N20 is directly driven via the chassis-side electric power take-off. The underfloor arrangement allows for additional loading space at the rear.

The N10 and N20 are single-stage centrifugal pumps with a capacity of up to 1,000 l/min (FPN 10-1000 according to EN 1028) or 2,000 l/min (FPN 10-2000 according to EN1028) at 10 bar each. For both, there are gearboxes with stepped ratios to adapt to different power take-off speeds. Likewise, an independent, compact motor-pump unit can be implemented via an SAE connection.

N15 normal pressure pump

Another new addition to the Rosenbauer pump range is the N15 built-in pump. It delivers up to 1,500 l/min at 10 bar (FPN 10-1500 according to EN 1028) and was specially developed for rear installation in chassis with lower power take-offs.

The modular system of the Rosenbauer pump series also ensures the greatest possible variability in terms of design and functionality: the pumps are available in corrosion-resistant aluminum or seawater-resistant gunmetal. The RFC Admix Fixmix 2.0 around-the-pump foam proportioning system can be integrated and a pressure proportioning system can be optionally installed in the fire pump piping. In addition, numerous other pump options, such as mechanical or pneumatic outlets, pump pressure governors, overheating protection, or pump heating are also available for these pumps. Operation takes place via the tried-and-tested RBC LCS (Rosenbauer Logic Control System).

New nozzle for RM15C

The RM15C universal turret has been equipped with a new nozzle for wildland fire fighting. It now allows the flow rate to be reduced down to 100 l/min in order to use as little as possible of the water supply carried in the vehicles. With a maximum flow rate of 1,000 l/min, a particularly large spread is possible. The proportioning of foam compound increases the extinguishing success and is carried out very precisely with the Rosenbauer direct injection foam compound proportioning system RFC Admix Variomatic.

RFC Admix Variomatic

The application spectrum of the RFC Admix Variomatic ranges from wetting agent operation with the smallest proportioning quantities (0.1 l/min) to the production of light, medium, and heavy foam. Foam proportioning takes place directly at the discharge outlets, which means that the water pump remains free of foam compound and does not have to be flushed after each foam usage. The direct injection foam compound proportioning system is electrically driven and electronically controlled, is available in three sizes (maximum pump outputs: 12 l/min, 24 l/min and 48 l/min) and can be configured as a single or multi-channel system with up to four injection points and individually set proportioning rates.

Mobile compressed air foam systems

With the RFC CAFS Cube and the brand new RFC CAFS Cube S, Rosenbauer has two extinguishing systems in its range for entry-level compressed air foam technology. Both increase the flexibility and efficiency of the fire departments because they can use wetting agents, a water-foam compound mixture, as well as wet and dry compressed air foam in addition to water during firefighting operations.

The RFC CAFS Cube is a motor-pump unit (750 l/min water at 10 bar) with an integrated direct injection foam compound proportioning system (400 l/min water/foam compound mixture at 6.5 bar) and compressed air foam system (1,600 l/min compressed air foam at 6.5 bar). The all-in-one unit is thus an ideal addition for vehicles without a PTO.

The RFC CAFS Cube S is driven by a water-powered motor and is particularly suitable for retrofitting. Any fire truck with a built-in pump or portable pump can be quickly and cost-effectively upgraded with this system. The compact extinguishing cube is mounted on a DIN 8 frame and delivers up to 200 l/min water-foam compound mixture in foam mode and up to 800 l/min compressed air foam due to active foam expansion, both at 6.5 bar.

Systems for initial attack

The RFC POLY extinguishing systems were already relaunched two years ago. The model range includes the portable CAFS fire extinguisher RFC POLY Portex, the mobile RFC POLY Trolley as well as the compact RFC POLY Skid modules with 50 to 300 liters, which can be mounted on mobile equipment carriers or pull-outs, or permanently installed in the vehicle. Through the use of compressed air and due to the simple handling, a reliable and fast initial attack on incipient and small fires is possible with these extinguishers by a single firefighter.

Firefighting equipment system expertise

Extinguishing systems are Rosenbauer's core expertise; firefighting pumps have been in the product range since 1908. Today, the range extends from the pump to the turret, with all components being developed and produced in-house, which means that they are perfectly matched to each other (greatest possible system performance, reduced suction losses, optimized pipe routing, best throw ranges, etc.). All firefighting technology on Rosenbauer fire-fighting vehicles comes from a single source, and the range includes:

- Built-in pumps with outputs from 1,000 l/min to 13,000 l/min and in feed mode even up to 20,000 l/min,
- foam premixing systems for normal and high-pressure applications,
- direct injection foam compound proportioning systems with outputs from 0.1 l/min (RFC Admix Variomatic) to 1,200 l/min (RFC Admix Hydromatic),
- compressed air foam systems for a wide variety of applications (universal use, turrets, high-rise fires ...),
- turrets with flow rates from 100 l/min to 15,000 l/min. as well as
- a uniform operating environment for all extinguishing systems and vehicle functions with the RBC LCS (Logic Control System).

In the RT, the fire truck of the future, all core fire-fighting components, such as the built-in pump, the pressure proportioning system as well as the CAFS compressed air foam system and the turret can be operated electrically.

The Rosenbauer Group

Rosenbauer is an international group and a reliable partner to fire services around the world. The company develops and produces vehicles, fire extinguishing systems, fire and safety equipment and digital solutions for professional, industrial, plant and volunteer fire services and systems for preventive firefighting. Rosenbauer is represented in approximately 120 countries by a sales and service network. With revenues of € 975.1 million and around 4,100 employees (as of December 31, 2021), the Group is the world's largest firefighting technology provider.

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