



Thinking ahead since 1936

MICRODROPS SYSTEMS



MICRODROPS NOZZLE

Microdrops are a pioneering firefighting method that uses minimal amount of water, combined with maximum extinguishing capability. The patented FIREEXPRESS nozzle produces extremely small water droplets (7-100 microns), exponentially increasing the water's surface area and thus its extinguishing capability. The extinguishing process is done with ease due to the low weight and the zero recoil of the nozzle. The long length and inclined tip of the nozzle allow users to attack inaccessible points without putting themselves at risk. The robust stainless steel construction and the jagged tip of the nozzle allow for glass breaking when needed to attack an enclosed space from outside, without additional tools.

- **Stream patterns:** microdrops, straight jet.
- **Extinguishing media:** water, foam.
- **Fire categories:** solids, liquids, gases, electric current up to 10,000 volts.
- **Used in:** FIREEXPRESS PDU, ATV, BMW.



MICRODROPS UNIT

The PDU (Petrol Driven Unit) of FIREEXPRESS Denmark is a stand-alone firefighting unit that combines a pump (petrol / diesel / electric), a 50-meter long semi-rigid hose and the FIREEXPRESS patented microdrops nozzle. It can be delivered with a 300-liter water tank and a 12-liter foam tank. It is often installed in closed or open type vehicles. **Advantages:**

- High extinguishing capability.
- Minimum water consumption.
- Easy handling, zero recoil.
- Fast switching from water to foam, simply by turning a lever of the nozzle.
- Minimum maintenance required.





MICRODROPS VEHICLE

The FIREEXPRESS ATV is a versatile 4x4 vehicle that can pass through uneven terrain or narrow passageways (like the cobbled streets in the Greek islands). It carries the FIREEXPRESS microdrops firefighting unit (PDU), which is equipped with a water suction system in addition to the fire extinguishing system, for replenishing the water supply when needed. The 4-meter suction tube with filter allows the pumping of water from external sources such as rivers, lakes and water tanks. The pumping system fills the 300-liter water tank in 8 minutes and can work during the firefighting operation. In addition, the vehicle is able to tow a trailer and carry a rescue stretcher.

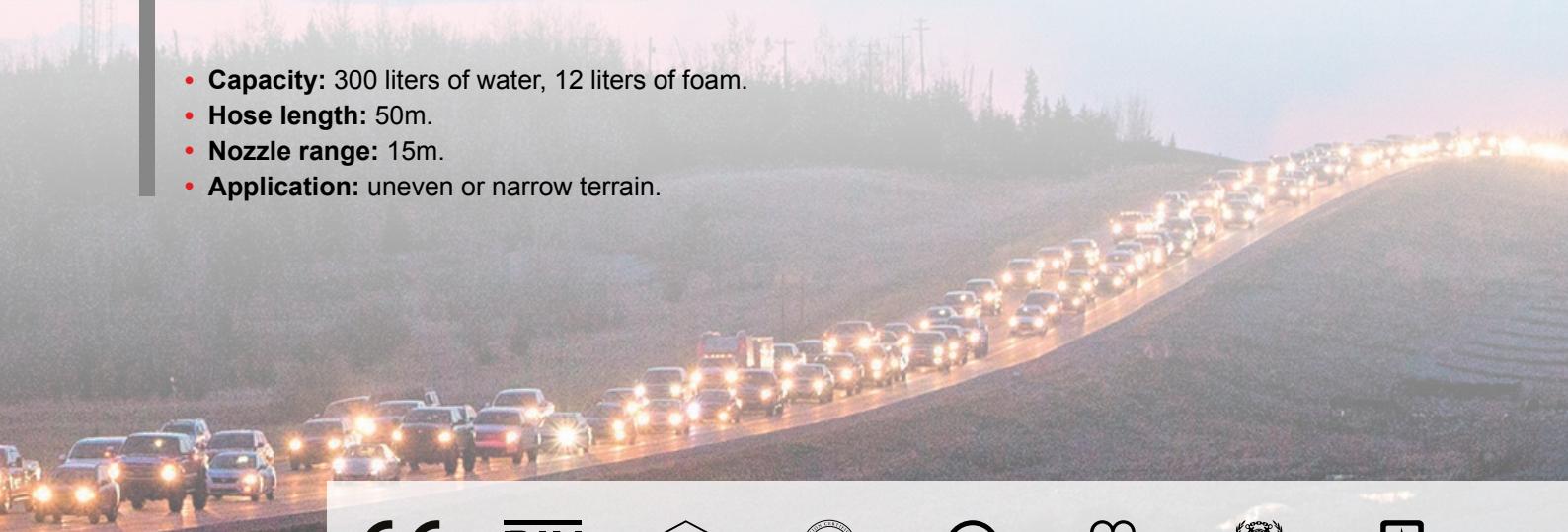
- **Capacity:** 300 liters of water, 12 liters of foam.
- **Hose length:** 50m.
- **Nozzle range:** 15m.
- **Application:** uneven or narrow terrain.



MICRODROPS MOTORCYCLE

The FIREEXPRESS BMW motorcycle carries a stand-alone firefighting system consisting of a microdrops nozzle, a 30m long semi-rigid hose, two premixed water-foam tanks and a 300-bar pressurized cylinder that drives the system. The motorcycle has been tested for its structural integrity and safety by BMW. Based on the police motorcycle model, it can optionally carry emergency lights and a siren. Due to its excellent maneuverability, the FIREEXPRESS firefighting motorcycle is the optimal solution in cases where the firefighter must go through heavy traffic to reach a vehicle on fire. The product carries the BMW warranty.

- **Capacity:** 2 x 25 liter tanks containing pre-mixed water and foam.
- **Nozzle flow rate:** 22 lt/min.
- **Nozzle range:** 11m.
- **Hose length:** 30m.
- **Applications:** automobile accidents.





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Pronoia /'prɔ.ni.a/ noun < pro + nous < foresight, anticipation, provision, prudence.

With more than 80 years' tradition in the quality fire protection sector, PRONOIA maintains the mentality of a youthful company at the cutting edge of technological evolution, whilst taking an agile approach to dealing with the challenges of the world market. PRONOIA is active in the following sectors: Maritime, Industrial, Oil & Gas, Food & Beverage, Mining, Transportation, Construction, Fire Brigade, Civil Protection and Armed Forces. With accumulated knowledge, experience and a friendly approach, we advise, research and implement fire protection projects in all sizes of business, from a small restaurant to the Public Power Corporation, Aluminium of Greece, Hellenic Petroleum and Motor Oil. At PRONOIA, we achieve this wide range of operational activity because we represent the top manufacturers in the world in firefighting and personal protection equipment.

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