



## 12 Litre Firefighting Backpack

The Fireexpress fire fighting backpack is a self-contained unit with two interconnected 6 litre tanks for premixed water and foam. The unit is driven by compressed air delivered from a composite material air tank filled to 300 bars. A pressure safety valve (370 bars) is mounted in the valve of the air tank.

The pressure of the air is reduced to 20 bars in a pressure regulator before it enters the first water tank. A one-way valve is mounted between the pressure regulator and the water tank to avoid a drop in air pressure in the water tanks if the air tank is disconnected while the unit is pressurised. A pressure safety valve (26 bars) is mounted in the pressure regulator. When the air enters the first water tank, it forces the water downwards and up into a tube inside the water tank and into the second water tank. From here the water is forced into a 1.2 metre discharge hose, which is connected to the Fireexpress lance.

The lance is operated via a pistol grip. The lance used with the backpack is a shorter version of the normal Fireexpress lance designed for easier manoeuvring in confined areas but with almost all the same features and benefits.

As the water supplied to the discharge hose originates from the bottom of the water tanks, only water is supplied into the hose. No air is forced into the hose as long as there is water in the tanks.

It is able to deliver 22 litres of water per minute at a range of 11 metres or 110 litres of aspirated foam per minute at a range of 12 metres.

The system can be delivered with an integrated face mask with an on-demand breathing apparatus delivering air at a positive pressure of 8 bar. It has a pressure gauge measuring the pressure in the air tank. The pressure gauge has an audio alarm that is activated when the pressure reaches 50 bar.

The backpack is the optimal solution when the fire fighter has to get to the fire through very narrow passageways like corridors on a ship or staircases in a building.



## First Strike Fire Fighting

Propellant:	Compressed atmospheric air
Pressure source:	3.0 litre air tank made of an aluminium inner and a fibre glass outer for 300 bar pressure (for use without breathing apparatus) 6.8 litre air tank made of an aluminium inner and a fibre glass outer for 300 bar pressure (for use with breathing apparatus)
Working pressure:	Preset at 20 bars
Spray device:	Short Firexpress lance with patented dual nozzle
Lance measurements:	65 cm long, 3.5 kg
Spray options:	Micro-drops or jet of aspirated foam as selected by operator with instant change
Stream options:	Continuous stream or manual pulsing
Spray range:	11 metres for micro-drops and 12 meters for foam jet
Water/foam tank:	2 x 6 litre water/foam tank made of a stainless steel inner and a carbon composite outer, sufficient for 33 seconds on constant spray
Flow:	22 litres per min. (micro-drops), 110 litres per min. (aspirated foam)
Recommended foam solution:	3% AR-AFFF (alcohol resistant) foam solution, premixed in water
Foam expansion rate:	Low expansion rate, approximately 1:5
Discharge hose:	1.2 metre ½" hose
Hose type:	Oil and temperature resistant (-40° C up to +100° C) as per type 2TE of EN 854 standard
Corrosion resistance:	Water tanks – stainless steel type AISI 304 inner and fibre glass outer
Safety features:	Pressure safety valve (26 bar) for water tanks Pressure safety valve (370 bar) for air tank Pressure gauge for measuring pressure in the air tank for version with breathing apparatus include audio alarm activated when the pressure reaches 50 bar.
Operating time of breathing apparatus:	90 min. at low air consumption of 20 litre per min. 45 min. at medium air consumption of 40 litre per min. 18 min. at high air consumption of 100 litre per min.
Optional accessories:	Air tank, face mask with breathing apparatus, filling kit, valve with pressure gauge for air tank, flat jet spray adapter for penetration of forest floor, transport case
Dimensions (D x W x H):	26 x 27 x 70 cm with 3.0 litre air tank for use without breathing apparatus 30 x 27 x 70 cm with 6.8 litre air tank for use with breathing apparatus
Weight:	16.9 kg with 3.0 litre air tank (empty) 18.6 kg with 6.8 litre air tank (empty)
Fire fighting capability and certifications:	Able to fight class A, B, C and E fires Tested according to EN 3-7 standard Approved for electrical fires up to 10,000 volts

Product information and specifications are subject to change without notice.

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