



12 Litre Backpack

The Firexpress backpack unit is a self-contained system with two interconnected 6 litre tanks for premixed water and foam. The system is driven by compressed air delivered from a composite material breathing apparatus tank filled to 300 bars. A pressure safety valve (375 bars) is mounted in the valve of the tank.

The pressure of the air is reduced to 20 bars in a pressure regulator before it enters one of the water tanks. A non-return valve is mounted between the pressure regulator and the water tank to avoid a drop in air pressure 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 top of 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 tube inside the water tank and out into the hose.

As the water entering the tube inside the water tank originates from the bottom of the water tank, only water is supplied into the hose. No air will be forced into the hose as long as there is water in the tanks.

From the water tank, the water will enter the 1.2 metre hose, which is connected to the lance. The lance is operated via a pistol grip. The lance used with the backpack is a shorter version of the normal Firexpress lance for easier manoeuvring in confined areas but with almost all the same features and benefits.

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

The system is mounted on a shield carried on the back of the fire fighter and is secured with a harness. The system can be delivered with an integrated face mask with an on-demand breathing apparatus.

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 breathing apparatus tank made of aluminium inner and fibre glass outer for 300 bar pressure (for use without breathing apparatus) 6.8 litre breathing apparatus tank made of aluminium inner and fibre glass outer for 300 bar pressure (for use with breathing apparatus)
Operating duration 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.
Working pressure:	Preset at 20 bars
Nozzle:	Firexpress patented dual nozzle
Nozzle pressure:	13 bars
Lance measurements:	65 cm long, 3.5 kg
Spray options:	Micro-drops or jet stream of aspirated foam as selected by operator with instant change
Stream options:	Continuous stream or manual pulsing
Range:	11 metres
Drop size (micro-drops):	7-100 microns
Water/foam tank:	2 x 6 litre water/foam tank made of stainless steel inner and 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
Hose:	1.2 metre 1/2" hose
Hose type:	Oil and temperature resistant (-40° C up to +100° C) according to EN 854
Corrosion resistance:	Water tank – stainless steel inner and fibre glass outer
Safety features:	Pressure safety valves (26 bars) Non-return valve between pressure regulator and water/foam tank
Accessories:	Lance with cavity spear, lance with cleaning nozzle, flat jet spray adapter for penetration of forest floor, breathing apparatus, transport case
Dimensions (D x W x H):	26 x 27 x 70 cm with 3.0 litre breathing apparatus tank for use without breathing apparatus 30 x 27 x 70 cm with 6.8 litre breathing apparatus tank for use with breathing apparatus
Weight:	30 kg with 3.0 litre breathing apparatus tank for use without breathing apparatus 33 kg with 6.8 litre breathing apparatus tank for use with breathing apparatus
Fire fighting capability:	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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