



*First Strike Fire Fighting*



## Firefighting Backpack 12-3

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. The atomization and aspiration is made by the use of the compressed air. 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 more than 20 litres per minute at a range of 10 metres in spray mode or more than 24 litres per minute at a range of 16 metres in jet mode.

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.



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Brand and model:	Firexpress Backpack 12-3 with Firexpress patented "CAFS" system
Mist technology:	Atomization & aspiration through compressed atmospheric air
Pressure source:	3.0 litre air tank made of carbon composite fiber for 300 bar pressure
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:	Spray and Jet
Stream options:	Continuous stream or manual pulsing
Water/foam cylinder:	12 litre (2 x 6 litre) water/foam cylinder made of a stainless steel inner and a carbon composite outer
Flow:	More than 20 litres per min. at Spray mode More than 24 litres per min. at Jet mode
Operating time	Less than 24 Sec at Jet mode Less than 35 Sec at Spray mode
Lancing distance	16 m at Jet mode 10 m at Spray mode
Recommended foam solution:	3% AR-AFFF (alcohol resistant) foam solution, premixed in water
Discharge hose:	1.2 metre 1/2" hose
Hose type:	Oil and temperature resistant (-40° C up to +100° C) as per type 2TE of EN 854 standard
Carrying device:	Ergonomic designed backshield with adjustable shoulder and waist straps
Safety features:	Pressure safety valve (26 bar) for water tanks Pressure safety valve (370 bar) for air tank
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, cleaning tip
Dimensions (D x W x H):	26 x 27 x 70 cm with 3.0 litre air tank for use without breathing apparatus
Weight:	27.9 kg fully operational
Fire fighting capability and certifications:	Able to fight class A, B, C and E fires Tested according to EN 3-7 standard Electrical fires up to 10,000 volts
Country of origin:	Denmark (EU)
Manufacturer standard:	EN 854, ISO 9001, Directive 2006/42/EC

Firexpress A/S

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