



Pump Driven Unit – Diesel Version

Firexpress

The Firexpress pump driven unit is the most versatile of the Firexpress systems as it can be configured for use in many locations. The unit consists of a Lombardini 15 LD 315 6.8 HP diesel engine, which drives a self priming membrane pump preset at 37.5 bar.

It has an integrated foam system with a 12 litre container for AFFF foam solution. The unit must be connected to a separate water tank, which either can be tailor made or an already existing water tank in e.g. a traditional fire engine.

The system can have a secondary foam system installed to either increase the quantity of fire fighting foam or for carrying an alternate detergent/hazmat foam solution. Via a selector switch, it is possible to choose from either foam containers or no foam at all.

The foam percentage can be preset between 1% and 6% depending on the installed orifice.

Water is able to be pumped through 50 metres of hose (and can be extended to a length of 100m), which can be connected to a lance. The lance is operated via a pistol grip.

With its ability to deliver 33 litres of water per minute or 165 litres of aspirated foam per minute at a range of 15 metres, it is the most powerful system in the Firexpress range of products.

As the pump driven unit can be connected to an external water tank of any size and dimensions, it is suitable in many situations such as traditional fire engines or any other four-wheeled vehicle with a special designed water tank.



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Engine type:	Lombardini 15 LD 315 6.8 HP diesel engine with both electric and manual start
Engine performance:	3,600 revolutions per minute
Engine fuel tank capacity:	4.3 litres
Pump:	Self priming membrane pump
Pump pressure:	Preset at 37.5 bar (recommended pressure)
Nozzle:	Firexpress' patented dual nozzle
Nozzle pressure:	23 bars at pump pressure of 37.5 bar
Lance measurements:	104 cm long, 4 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:	15 metres (micro-drops and foam) at 50 metre hose
Drop size (micro-drops):	7-100 microns
Water tank:	Flexible according to separate external water tank
Flow:	33 litres per min. (micro-drops), 165 litres per min. (aspirated foam)
Foam system:	Integrated foam system with 12 litre foam container
Foam solution:	3% AFFF (alcohol resistant) foam solution
Foam expansion rate:	1:5
Hose:	50 metre ½" hose on reel with manual rewind
Hose type:	Oil and temperature resistant (-40° C up to +100° C) according to DIN 20021-2TE and EN 854-2TE
Corrosion resistance:	Housing of pump driven unit – powder coated aluminium Base plate of pump driven unit – stainless steel type AISI 304
Accessories:	Water container, secondary foam system, lance with cavity spear, lance with cleaning nozzle, flat jet spray adapter for penetration of forest floor, hose up to 100 metres, orifice for adjusting foam percentage
Dimensions (D x W x H):	60 x 57 x 53 cm (pump driven unit) 45 x 54 x 60 cm (hose reel with 50 metre hose)
Weight:	125 kg (pump driven unit, hose reel with 50 metre hose, lance)
Fire fighting capability:	Able to fight class A, B, C, D and E fires Tested according to EN 3-1 1997 standard Approved for electrical fires up to 10,000 volts

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