



First Strike Fire Fighting



Firefighting Motorcycle - BMW F 850 GS

The Fireexpress firefighting motorcycle has a self-contained system with two interconnected 20 litre tanks for premixed water and foam. The system is driven by compressed air delivered from a 6 litre air tank filled to 300 bars.

The pressure of the air is reduced to 20 bars in a pressure regulator before it enters the first water tank. A non-return 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 (40 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 up into a tube inside the water tank and out into the discharge hose. An additional safety valve (26 bars) is mounted on the water tank.

From the water tank, the water will enter the 30 metre discharge hose, which is connected to the lance. The lance is operated via a pistol grip. 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.

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

The firefighting system is mounted on a German made BMW F 850 GS motorcycle that has been tested for structural integrity and rider stability by BMW, Germany, who has approved it and guarantees the warranty. It is based on the police version with emergency lights, horn, radiator fan, radio interference suppression system and dynamic electronic suspension adjustment from the factory of BMW.

Due to its possible high speed and easy manoeuvrability, the motorcycle is the optimal solution when the fire fighter faces the challenge of being a great distance away from the fire or narrow environment, e.g. congested traffic has to be navigated.



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Propellant:	Compressed atmospheric air
Pressure source:	6.8 litre composite air tank made of an aluminium inner and a carbon outer for 300 bar pressure
Working pressure:	Preset at 20 bars
Spray device:	Firexpress lance with patented dual nozzle
Nozzle pressure:	13 bars
Lance measurements:	104 cm long, 4 kg
Spray options:	Micro-drops or jet of aspirated foam as selected by operator with instant change
Stream options:	Continues stream or manual pulsing
Spray range:	11 metres (micro-drops and foam jet)
Water/foam tank:	2 x 20 litre stainless steel water/foam tanks, sufficient for 136 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:	30 metre 1/2" hose on reel with manual rewind
Hose type:	Oil and temperature resistant (-40° C up to +100° C) according to EN 854
Corrosion resistance:	Water tank – stainless steel type AISI 304
Safety features:	Two pressure safety valves (26 bars and 40 bars) Non-return valve between pressure regulator and water/foam tank
Optional accessories:	Air tank, filling kit, valve with pressure gauge for air tank, flat jet spray adapter for penetration of forest floor
Motorcycle features:	Model: BMW F 850 GS - police version Engine capacity: 853 cc Output: 70 kW (95 HP) at 8,250 rpm Maximum torque: 92 Nm at 6,250 rpm
Dimensions (L x W x H):	230 x 92 x 135 cm
Weight:	280 kg (motorcycle loaded with fuel, empty water tanks, without driver)
Driving limitations:	Maximum speed limit is 160 km/h Water/foam tanks must either be completely full or completely empty when driving Riders must receive special training Regular control of technical condition of the motorcycle must be performed
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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