



FIREXPRESS®

First Strike Fire Fighting



Fire Fighting Motorcycle - BMW R 1200 RT

The Fireexpress fire fighting motorcycle has a self-contained system with two interconnected 25 litre tanks for premixed water and foam. The system is driven by compressed air delivered from a composite material 6.8 litre breathing apparatus tank filled to 300 bars.


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 (40 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 up into a tube inside the water tank and out into the hose. An additional safety valve (26 bars) is mounted on the water tank.

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 30 metre 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.

The fire fighting system is mounted on a German made BMW R 1200 RT 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 and siren as option 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.





First Strike Fire Fighting

Propellant:	Compressed atmospheric air
Pressure source:	6.8 litre breathing apparatus tank made of aluminium inner and carbon composite outer for 300 bar pressure
Working pressure:	Preset at 20 bars
Nozzle:	Fireexpress patented dual nozzle
Nozzle pressure:	13 bars
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:	Continues stream or manual pulsing
Range:	11 metres
Drop size (micro-drops):	7-100 microns
Water/foam tank:	2 x 25 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
Hose:	30 metre ½" 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 1.4462 (werkstoff no.)/ UNS S 31803 (ASTM)
Safety features:	Two pressure safety valves (26 bars and 40 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, filling kit, fully certified tailor-made fire suits appropriate for riding motorcycles
Motorcycle:	Model: BMW R 1200 RT - police version Engine capacity: 1,170 cc Output: 81 Kw (110 HP) at 7,500 rpm Maximum torque: 115 Nm at 6,000 rpm
Dimensions (D x W x H):	223 x 91 x 143 cm
Weight:	359 kg (fully loaded)
Driving limitations:	Maximum speed limit is 180 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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