



BacPac; A portable WaterMist fire suppression kit; designed for rapid response situations.

Model: FB33

BacPac[™]

Features

Designed to enable rapid response to fire situations.

BacPac features:

- Extinguishes A,B,C,D*,E & F class fires
- Minimal collateral damage / no flooding risk
- Safe on electrics up to 35kV
- No thermal shock on delicate machinery
- Rapid extinguishing
- Superior cooling
- Simple and safe to operate
- Perfectly safe for use in highly populated locations
- Can be used around / on humans & animals
- Convenient refilling options
- 100% Environmentally friendly
- Can be used with foam or additives



* Not suitable for use on reactive metals such as lithium, sodium and potassium etc. Contact us for further technical information.

Applications

BacPac is a recommended fire extinguishing solution by UK Fire Brigades, for many industries and applications including but not limited to:

- Education (school, universities, colleges)
- Facilities Management (high-rise buildings)
- Fire & Rescue
- Food (industrial catering, food processing plants)
- Health Care (hospitals, nursing homes, elderly homes)
- Heavy Industry
- Industrial (manufacturing, engineering)
- Mining
- Laboratories
- Offshore & Marine
- Public Venues (stadiums, shopping centres)
- Civil Protection (military, police, navy)
- Transport (airports, ports, rail)
- Petrochem (oil & gas)



Technical Datasheet

Item	Description	
Agent	WaterMist or Foam or Additives	
Capacity	12 litres	
Case	Heavy duty, adjustable quick release buckles & cushioned straps	
Charge Propellant	Nitrogen or Compressed air or CO2	
Cylinders	Stainless steel	
Dimensions	Height: 700mm Width: 440mm Depth: 220mm	
Discharge Hose	1.6 metres, EPDM rubber	
Discharge Pressure	5 - 7 bars	
Means of Refilling	Hose or Bucket or Tap via refill cup	
Means of Pressuring	High pressure nitrogen vessel or BA & Regulator or Compressor	
Stored Pressure	15 bars	
Temperature Range	-5° - +60°	
Total System Weight	Empty weight: 11.37kg Filled weight: 23.37kg	
	WaterMist BacPac	RAFS** BacPac
Agent	Demineralised water or Normal water	Foam or Additive
Discharge Time	Continuous 1.25 minutes*	Continuous 58 seconds*
Gun	Trigger operated heavy duty aluminium WaterMist Gun	Trigger operated heavy duty aluminium RAFS Gun
Range	2 - 4 metres	16 metres

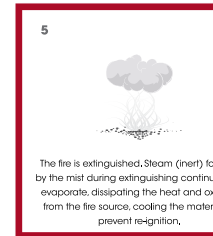
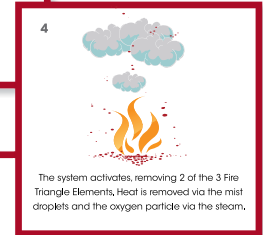
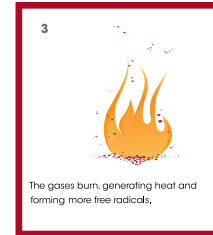
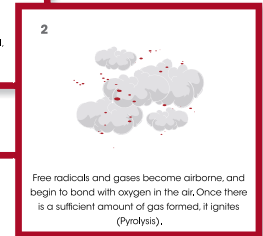
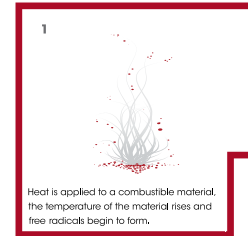
*Test using 5 burning tyres presented a 20 second continuous extinguishing time

** RAFS is a patent pending FireBug equivalent to Compressed Air Foam Systems (CAFS)

Watermist Explained

By applying low pressure fine water droplets known as "WaterMist" over, around and into the flame, our WaterMist technology suffocates the fire. As the mist converts to steam it removes the oxygen, simultaneously reducing the temperature at the source of the fire, therefore eliminating the production of flammable gases (free radicals). Having removed the oxygen and cooled the fire, the flames are extinguished.

The WaterMist technology generates a consistent droplet size of around 50 – 75 microns, which equates to an excess of 1,910,828,025 droplets from 1L of water giving a surface area of 120 sqm. This provides a large surface area for the successful exchange of energy, approximately 2592 kJ/kg, which is responsible for the rapid cooling of the fire.



Options

The BacPac model: FB33 has been designed to operate at optimum fire fighting capability using either water, foam or additive.

FireBug Compressed Air Foam system is known as Rotary aspirated foam system (RAFS).

RAFS is a highly efficient mechanical device that agitates and mixes foam concentrate, water and compressed gas enabling superior foam generation. In the event that foam is the preferred choice, the BacPac technology has world leading foaming capabilities with only the change of the gun required.

The BacPac system contains a sophisticated internal mechanical rotor, which is used in the generation of WaterMist or foam (RAFS foam). The spindle and impellor rotate at high speeds mixing the foam which allows optimum extinguishing. The device increases the range of the discharge by at least 200% as well as being 6 times more efficient than any other known foam system including CAFS.

Benefits

- Maximum foam generation from minimum foam concentrate (as low as 0.6%)
- Extreme agitation allows for truly environmentally friendly foam to be used
- Superior foaming allows for extinguishing of high risks such as polar solvent / alcohol fires when AR Foam is used
- Discharge / throw range increases fire fighters ability to fight larger fires from a further distance



Ancillaries

A full range of add ons are available, including an extended lance. Contact your service agent for more information.

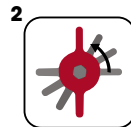
Fire Fighting Technique

Fighting Fire

1. Check hose is connected correctly (audible 'click' sound must be heard) and gauge is in green
2. Open ball valve
3. Fit to firefighters back with assistance of second person if required
4. Adjust buckle and waist belt to fit
5. Aim into the base of the fire, squeeze trigger. For optimum fire-fighting results maintain a minimum distance of 0.3 metres and maximum of 2 metres from the fire
6. Suppress the flame and proceed closer if safe to extinguish the base of the fire



Check hose connections and gauge



Open ball valve



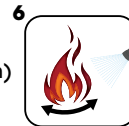
Fit to back



Adjust buckle and waist belt



Aim into flame from distance (approx. 2m)
Squeeze trigger

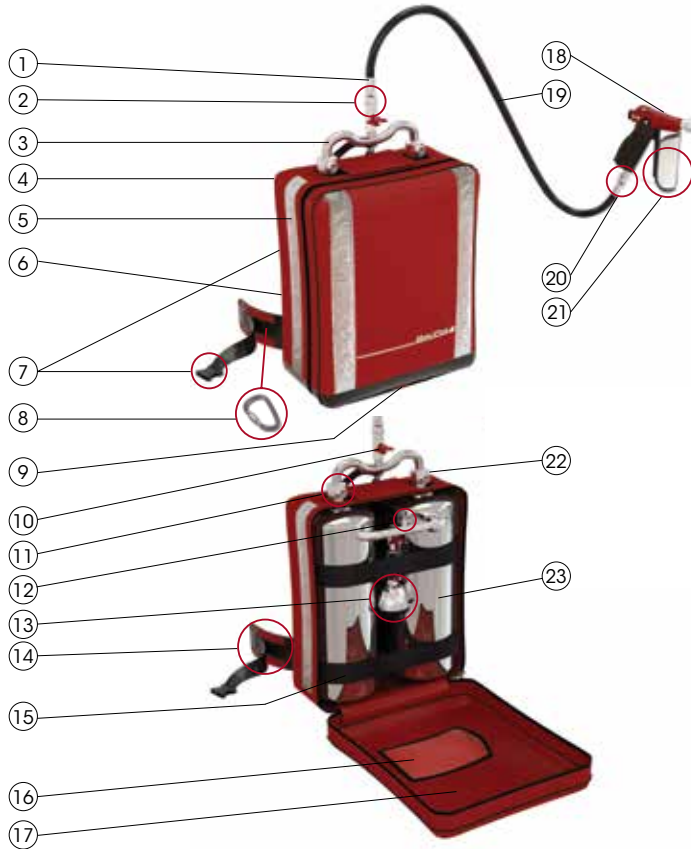


Suppress the flame and proceed closer if safe to extinguish



WARNING: ONLY TO BE USED BY A COMPETENT PERSON DRESSED WITH THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT SUITABLE FOR THE RISK INVOLVED

Product Overview



1. Centrally located manifold and hose to provide safe and easy use for right & left hand users.
2. Quick release fitting for easy detachment of discharge hose and associated attachments.
3. Externally mounted manifold providing easy access to pressure gauge readings and couplings for ancillary attachments.
4. Cushioned shoulder straps for added comfort.
5. Reflective safety strip for increased visibility of user within poor conditions.
6. Webbing loops on rear for correct hanging positioning during refilling.
7. Emergency, quick release safety buckle. Secure adjustable safety straps designed for easy fitting, flexibility and comfort.
8. External carabiner for gun mounting. Re-locatable for left and right hand users.
9. Supporting buckle underside, to allow easy access to refilling and recharging points.
10. Visible actuation valve for quick access before operation.
11. Clear and visible pressure gauges for easy inspection and recharge.
12. Quick, easy re-pressuring Schrader fitting.
13. Internally mounted refill adapter: self managing and self levelling funnel for straight-forward, speedy refilling.
14. Kidney waistband for secure fitting and dispersed weight loading for user comfort.
15. Two velcro securing straps for easy release.
16. User manual and log book holder.
17. Resilient material for easy cleaning and maintenance.
18. Light-weight discharge gun for user comfort and manoeuvrability.
19. Optimum length hose for ergonomic practicality.
20. Quick release coupling on discharge gun for maintenance.
21. Built-in hand guard to protect user from debris.
22. Inbuilt automatic pressure relief valve to prevent over pressuring (fitted to rear of manifold).
23. Stainless steel fittings for product longevity.

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