



ST15; An evolution
in research and
development,
enhancing fire fighter
safety through science
and technology.



In collaboration with
Staffordshire Fire & Rescue Services

MistNozzleTM



The ST15 is a leading product in the revolution of fire fighting technology.

The launch of the ST15 introduces a new dimension in fire fighter safety and efficiency. Designed, developed and manufactured in the UK, using tried and tested micron technology, the ST15 encapsulates science in order to provide ultimate extinguishing and cooling with unrivalled levels of fire fighter safety. Not only does the ST15 provide safety, rapid cooling and extinguishing it is also the most water efficient nozzle on the world market today, approximately 65% more efficient than other comparative nozzles.

Designed to be intuitive, the ST15 has one-click switch-function technology, allowing the transition between Jet Mode and WaterMist Mode to be instantaneous and easy minimising room for error and ensuring safe mode selection.

The plug-and-go functionality of the ST15 works with most existing hose reels and has been specifically designed to be quick and easy to use; simply attach the hose, selecting the correct mode and open the nozzle - so instinctive that little or no training is required.

With water being a valuable resource the world over, the ST15 deliberately uses less water during operation. Studies have shown a significantly increased efficiency in water usage during like-for-like product trials; a product that protects the environment makes fire fighters safer and reduces operations costs. The WaterMist absorbs 2257kj of energy per litre verse conventional technology absorbing 335kj per litre.

Using the powerful combination of science, design and technology the ST15 competently combats the effects of smoke within the fire environment, providing an impressive and unique solution to combat the effects of smoke scrubbing.





Benefits:

- Developed in collaboration with UK Fire & Rescue Services
- Perfectly created droplet size for superior cooling and safer fire fighting
- Effective smoke scrubbing for improved fire fighting conditions
- Flexibility to cool / fight from the outside
- Simple to operate with no additional training requirement
- 65%* less water used
- Heavy duty anodised aluminium branch with protective rubber sleeve
- One-Click intuitive Jet/Mist mode rotation switch for simple mode change
- Smooth 2 direction Start/Stop Handle for on/off and pulsation fire fighting functionality
- Conforms to the requirements of NFPA 1964

*See page 5



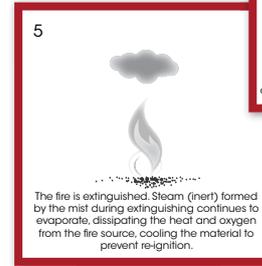
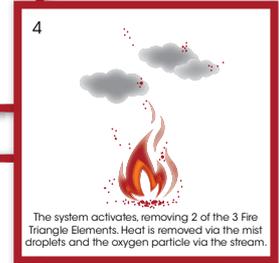
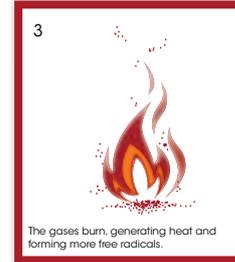
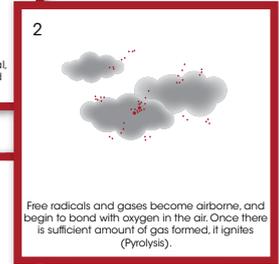
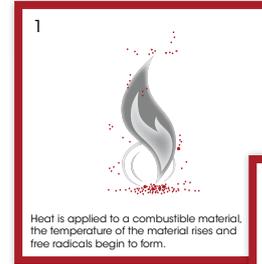
“A fire fighting nozzle, designed to protect fire fighters, the community and the environment.”



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 reduces the oxygen, simultaneously reducing the temperature at the source of the fire, therefore eliminating the production of flammable gases (free radicals). Having reduced 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.



Technical Information



Item	Description
Agent	Water
Dimensions	L : 240mm H: 265mm W(handle): 215mm W(rubber outer): 90mm
Weight	2.75kg
Branch / Nozzle	Ball valve operated, Mist or jet mode
Material	Body: Aluminium (6082 t6) Nozzle: HE15 (2014 t6)
Operating Pressure	20 bars
Inlet Size	3/4" BSP
Spray Type	Mist/Jet
Flow Rate	Mist mode: 45ℓ/min at 20 bar
	Jet mode: 150ℓ/min at 20 bar

“Modern fire fighting in the comfort of traditional design. 65%* more efficient water consumption with improved fire fighting.”



Dual mode branch in Jet mode



Branch in Mist mode

* Based on 14 minutes continuous fire fighting time on Mist mode

Product Overview

- Standard Hose Reel connectors to retrofit with all existing hose reels
- One-Click intuitive Jet/Mist mode rotation switch for simple mode change
- Hard wearing externally mounted Anodised Aluminium Nozzle
- Traditional, ergonomic, easy grip handle
- WaterMist mode for rapid cooling, smoke scrubbing and water saving
- Jet Mode for initial suppression from a distance
- Anodised aluminium branch with protective rubber sleeve



Water Saving Advantages

- Reduced operational costs
- Improved turn around times
- Less water damage to property
- Reduced run off / Environmental

Statistics

Fire and rescue authorities attended
170,000 fire incidents and **223,000 false
alarms** in England in 2013-14
275 Fire fatalities in England 2013-14

Fire Statistics Monitor: England April 2013 to March 2014 by
Department for Communities and Local Government

Smaller vehicles are ideal first response
solution for these false alarms/call outs
due to cost saving element and suitable
equipment.



“Fire and Rescue Services
are focusing on refining and
developing their services
and tools to be efficient at all
levels.”

Dermot Hogan
Head of Emergency Response Team

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