



## Dual MIST

Merlin Way  
Quarry Hill Industrial Estate  
Ilkeston  
Derbyshire DE7 4RA

## DM5 Nozzle

Data Sheet 5.2

### Product Description:

The DualMIST DM5 sidewall nozzle is an integral proprietary feature of the DualMIST low-pressure water mist system. The nozzle has undertaken stringent fire testing by the globally recognised third party BRE Global based on the methodology of BS:9252

### Activation:

In a fire condition, heat causes the fluid in the glass bulb to expand which shatters the glass thus releasing water into all ports which then extinguishes or controls the fire.



### Performance:

The nozzles' dual suppression technology produces remarkable results via multiple jet type ports giving a 25m<sup>2</sup> coverage per nozzle as fire tested by the BRE to the methodology of BS:9252.

The nozzle is an ideal component to be installed into the domestic, residential and commercial sectors including inter alia dwellings, care homes, apartments and hotels due to the nozzles extensive coverage, exceptional wall wetting characteristics and approved third party fire test validation.

### Technical Details:

Nozzle Reference: **DM5**  
Bulb Temperature Rating: **68°C**  
K Factor: **20**  
Typical flow rate / pressure: **50 L/min @ 6 bar**  
Minimum Working Pressure: **6 bar**  
Maximum Working Pressure: **12 bar**  
Weight: **370 grams**  
Standard Adapter Thread Size: **G1/2" (1/2" BSP)**  
Strainer: **Yes**

### Approval:

Date of Testing: **October 2015**  
Fire testing undertaken by: **BRE GLOBAL**  
Fire Test Undertaken: **Based on the methodology of BS:9252**

### Design Parameters:

Style: **Sidewall**  
Maximum Spacing: **5m centres Maximum**  
From Boundary: **2.5m centres Minimum**  
Maximum Ceiling Height: **3.5m**

### Finishes:

Nickel plated brass / Stainless Steel

### Accessories:

White DM5 rosette (included)  
Optional blow of cap (black or white)



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#### Installation:

1. The DM5 nozzle must be installed and maintained in compliance with this document and according to the standards, or the requirements which are specified by the Authority Having Jurisdiction. It is the installers responsibility to conform to such standards and requirements, deviations from the requirements will void any warranty.
2. To ensure that the minimum flow requirement is met the system piping must be correctly sized.
3. To avoid mechanical damage the nozzles must be installed after the piping is in place. Any damaged nozzles must be replaced.
4. The DM5 nozzle is to be installed in the sidewall orientation only.
5. Tighten the nozzle adapter by hand into a Torque safe fitting until the orientation is central with the bulb aligned vertically and in the downwards position.

Please see the [DIOM handbook](#) for detailed installation instructions. Training courses can also be provided.

#### Care & Maintenance:

1. Nozzles must be carefully handled and stored where temperatures will not exceed 100°F/38°C
2. Nozzles must never be painted, plated, coated or otherwise modified after leaving the factory.
3. The nozzles should remain packaged as supplied by the factory until the time of installation.
4. Do not install nozzles which have been dropped or damaged in any way.
5. Installed nozzles should be inspected by a competent person through the life time of the nozzles.
6. A variation of this nozzle modified with a ceiling adaptor is also available by special request.



#### Warranty:

From dispatch a 12 month warranty period is in place.

For full details please refer to our standard terms & conditions.