



RECESSED 180° ANTI-LIGATURE NOZZLE

Flush Mounted Sidewall Nozzle

DESCRIPTION

The Hydramist® 180° Sidewall Anti-Ligature nozzle is designed to produce very fine water droplets creating high pressure water mist with sufficient flow and velocity to effectively fight fires in Custodial and Special risk applications.

Approved for use by the Home Office and Ministry of Justice, the main nozzle body incorporates design features to prevent a ligature from becoming anchored on the nozzle.

Scientifically configured micro-nozzles incorporated into the nozzle body are able to produce a calculated flow rate and spray pattern sufficient to suppress fires. Hydramist® nozzles are designed to meet the specific fire protection needs of the application and the industry.

Based on information supplied by the client, an approved designer working from the Hydramist® design manual, determines the detailed specification of the number and type of nozzles to meet the specific fire risk.

The modern and smart low profile dimensions of the Hydramist® open anti ligature nozzle results in a custodial cell fitting that is aesthetically pleasing but strong; visually unobtrusive and of a superior finish to meet the demanding requirements of custodial and special risk environments.



Full assembly with retention plate and nozzle holder shown for illustration purposes only

DATA SHEET

Form No. 13-03 Issue No. 22.0

Anti-Ligature Nozzles General Features

- Custodial areas up to 427m³
- Maintains a life tenable environment for at least 20 minutes
- Simple, secure, through-wall fixing method to suit any thickness wall
- Can be mounted on, or flush with the wall surface

Applications

- Prisons
- Detention Centres
- Immigration Centres
- Custody Suites

Standards

- Compliant to:
- M.o.J. Standard M/SPEC/045

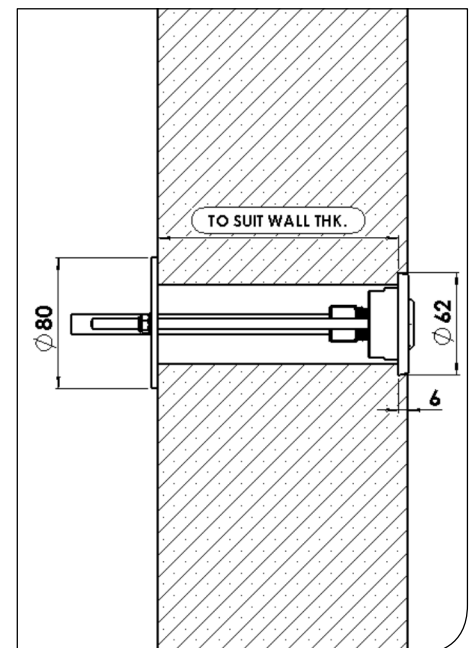
Sidewall Nozzle: Technical Data

Flow Rate	14.2 L/min
K Factor	1.42
Pressure	100 bar
Spacing	3.0 m
Maximum Height	4.5 m
Maximum Area ⁽²⁾	427 m ³

Material	316 Stainless Steel
Filtration	80 micron
Thread	12S
Ceiling Bore Hole	Ø 43 mm

Test Reports:

BRE	247405
BRE	293143
VTT (Fire dynamic simulation)	VTT-CR-00821-20



All information contained in this data sheet is correct at the time of printing. Watermist Limited reserves the right to alter or modify the content without prior notice.

PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® / NAF S 227 (HFC-227ea.)
Ecaro 125® / NAF S 125 (HFC-125)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe & Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Foam Concentrate Testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility Testing

Fire Detection



Linear Heat Detection - Digital
Linear Heat Detection - Fibre Optic
Linear Heat Detection - Micro Chip
Flame Detection
Video Imaging Detection
Spark Detection
Control & Indicating Equipment
Thermal Imaging Detection
Aspirating Smoke Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Compressed Air Foam
Marine & Offshore
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