Description

The FIRE KILL™ K6 is a total flooding low pressure water mist system suited for fire protection of machinery spaces, special hazard machinery spaces, combustion turbines and insulated combustion turbines with volumes up to 4610 m³. e system can be designed with different parameters depending on enclosure size, making it possible to optimize the system for its use.

The FIRE KILL™ K6 system utilized the Model K6 nozzle which can be supplied in varied materials and with different thread types.

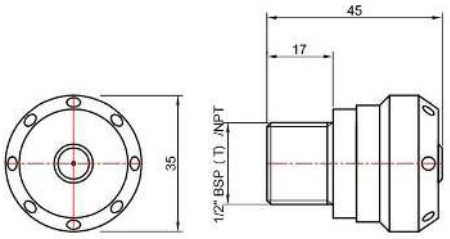
Approvals

The FIRE KILL™ K6 system is FM approved as it has been successfully tested to the FM5560 standard, appendix E and F in room sizes respectively of 320m³ (5m ceiling height), 800m³ (8m ceiling height) and 4610 m³ (12m ceiling height).

Technical data

General Description			
Enclosure size	Small	Medium	Large
Volume max	320 m³	800 m³	4610 m³
Min. water pressure	10,5 Bar	7,7 Bar	7,7 Bar
Max. working pressure	16 Bar		
Nozzle spacing	4,0m x 4,0m	3,3m x 3,3m	3,0m x 3,0m
Distance to wall	2,0m	1,65m	1,5m
Height (max)	5,0m	8,0m	12,0m
Water density	1,1 mm/min	1,4 mm/min	1,7 mm/min
Design run time	21:00 min	29:00 min	83:00 min
Specific Description			
K-factor (metric)	5,6 (l/min@1 bar)		
Drop size	DV90 < 300 µm		
Weight	0.13 kg		
Housing	Brass / SS316 / Titanium gr. 2		
Coating (Brass only)	NiSn		
Strainer	Stainless Steel		
Thread	½" BSP/BSP-T/NPT		
Other products in the system			
Name	**Model**		
Control valve	C-EL (DN50 / DN 80 FM Approved)		
N-Pipe	Type I-FF		
Filter	Model F, DN 50 and DN80		

Dimension



Spray pattern

FM APPROVED

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Rev. 02
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Applications

Internal combustion engines, oil pumps, oil tanks, fuel filters, generators, transformer vaults, gear boxes, drive shafts, lubrication skids, diesel engine driven generators, exposed Combustion Turbine, Insulated Combustion Turbine and other similar equipment using liquid hydrocarbon fuel and/or hydraulic, heat transfer, and lubrication fluids with volatility less than or equal to heptane; enclosures with incidental use or storage of hydrocarbon ignitable liquids (also known as flammable liquids) of not more than two 55 gal (208 L) drums.

Installations

The K6 nozzles are installed as a deluge system in an open pipework. Nozzles should be located maximum 100 mm below the ceiling.

Components and pipes should be cleaned/flushed from debris, shavings and impurities and welded items should be cleaned to make sure that there is no abundance of loose debris. The installer should be careful not to get sealant into the pipe system. It should be checked extensively that the components are positioned correctly according to the system plans and specifications.

All components should be securely fastened to rigid, robust structures by approved means. The fire protection system shall not consist of material combinations with risks of galvanic corrosion system pipes and other system components. It is advised that the system utilize pipes and system components in stainless steel, AISI 304 or AISI 316, or copper alloys as to minimize risk of corrosion and clogging of the pipes and other system components.

It is prohibited to use components with black iron parts and other such highly corrosive materials else used in traditional sprinkler systems.

System components shall in all cases be according to the local applicable standards, and be accepted by the authorities having jurisdiction.

Caution

The K6 nozzles shall be installed in locations not containing materials which may produce violent reactions or significantly hazardous materials when reacting with water and should be installed in locations where the nozzle is not likely to sustain physical damage.

Contact

For further information on FIRE KILL™ products, please contact our sales department at Sales@vidfirekill.com