

# Where to take Water Mist

(newest developments for LPWM systems) Carsten Palle VID Fire-Kill

Past Present Future newest developments for Low Pressure Water Mist Systems



### Low Pressure Water Mist Systems

=>

Fine water spray systems

### **B-WM**



Happy Days: all systems & components standardrized NFPA Times all products approved Installers authorized and regulated green

montreal

ISO sss-H

### E-WM



Caotic time: Halon is out, CO2 re-enters IMO takes IMO worries, salors will die leading role Marioff presents the solution:Hi-Fog green movements

montreal



### M- WM



Maritime markets develops for WM Local application systems become mandatory (res 913). WM takes maritime market from sprinklers.

#### 

Test & design standards: IMO: A800, 913, 668 major authorities: maritime classes.

WM starts being market on-shore with maritime tests and class approvals, & CEN becomes active. FM makes WM test catalog, VDS develops tests programmes on specific applications.



### Maturing maritime markets

maritime WM markets mature and competition between WM system types increases and sales prices decreases.

On-shore markets begin seeing an interest in new posibilities in applying WM systems.

**Before Early Maritime Maturing Pressent Future** 

1980	1990	2000	2010	2020
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IMO up-dates old standards A800 => 265,668 => 1165, 913 etc. to include new requirements.

On-shore markets starts acceepting water mist as sprinkler alternatives. And for special applications.



## Global financial crises

Financial crises 2008 Maritime markets dissapears. Building markets props

Public customers becomes more dominent and new markets arises for on-shore water mist products, infrastructures, institutions etc..

**Before Early Maritime Maturing Pressent Future** 

Water mist products adopt to new customer requirements, and maritime dominances decreases.

Approval testing becomes more engineered tests for specific applications.

Water mist systems will be chosen to traditional sprinkler systems before they can be engineered to solve specific requirements. (Estetical, installation, polution, prices etc)

## today



FS system design build on existing well tested sprinkler guidelines and sound calculations building on substiansial testing.

New FS systems focus on high system reliability and documentation hereoff applying approved components

FS systems are developed to match the actual marked needs, (design, installation, water pressures, maintenance, approvals, documentation and acceptances etc.)

FS systems are designed to provide environmental freindly fire protection concerning, supplies and polution from fire, and energy and power requirements, low material consumption, recircleable materials etc.

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1980	1990	2000	2010	2020	



### Today & tomorrow

FS System becomes fully intergrated parts of the location or application to be protected.

Fire-protection becomes one of more features of a whole package also including FS system features.

FS systems will be operating at very low water pressures making FS system simple to install and maintain and very reliable towards clogging of nozzles, valves and pumps etc.

Before Ea	rly Maritim	ne Maturi	ng Pres	sent Fut	ture	
1980	1990	2000	2010	2020		
The market chose FS from Vid Fire-Kill because it solves their needs the best.						





