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 standardized
NFPA Times
 all products approved
Installers authorized and regulated
green ..............................

montreal

Before  Early  Maritime  Maturing  Present  Future


Halon
Sprinklers
water spr.
FM & UL
VDS & LPC
10 manufac
IMO sss-H
ISO sss-H
E-WM

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

Before Early Maritime Maturing Present Future

|------|------|------|------|------|

Halon out,
CO2 re-enters new clean gasses N2, FM 200 etc.
Marioff Hi-Fog presents, firetest videos w. Hi-Fog
IMO produces Res. A800 & MSC Circ. 668, Res 913
VTT, Sintef, SP, USCG, FM, UL

M2 & M5, IMO Res 913, MSC 668 (3320m3)
Maritime markets develops for WM
Local application systems become mandatory (res 913). WM takes maritime market from sprinklers.

<table>
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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 possibilities in applying WM systems.

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IMO updates old standards A800 => 265,668 => 1165, 913 etc. to include new requirements.

On-shore markets start accepting 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 dominant and new markets arises for on-shore water mist products, infrastructures, institutions etc..

Before  Early  Maritime  Maturing  Present  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, pollution, prices etc)
today

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

New FS systems focus on high system reliability and documentation hereof 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 friendly fire protection concerning, supplies and pollution from fire, and energy and power requirements, low material consumption, recirclicable materials etc.

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Today & tomorrow

FS System becomes fully integrated 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.

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The market chose FS from Vid Fire-Kill because it solves their needs the best.