



# XFLOW<sup>®</sup> MOBILE WATER MONITOR AND WATER MIST LANCE

**FOR PROTECTION OF ON-DECK CONTAINERS** ↓

Regulation states that vessels carrying containers on or above the weather deck, constructed on or after January 2016 shall carry at least one water mist lance. Further, vessels designed to carry five or more tiers of containers on or above the weather deck, shall carry a number of mobile water monitors. The Survitec Fire Fighting XFlow<sup>®</sup> Mobile Water Monitor and Water Mist Lance are designed to protect ships carrying containers as latest regulation states.

## FEATURES

- QUICK FIRE RESPONSE
- EASY TO USE
- MINIMAL AND EASY MAINTENANCE  
KEEPS OPERATIONAL COSTS LOW
- TYPE APPROVED
- EASY ACCESS TO SERVICE AND  
SUPPORT THROUGHOUT ITS LIFETIME,  
INCLUDING CONSULTANCY, PRODUCT  
DELIVERY AND SERVICE INSPECTIONS



# XFLOW® MOBILE WATER MONITOR AND WATER MIST LANCE



## Key Features of Monitor

- With a nozzle pressure of 4.0 bar, the throwing distance is 40 m and the monitor can protect up to 10 tiers of containers, and even more at higher pressure
- Easy to carry and can be quickly assembled and operated by one crew member
- Hydrant adaptors are available
- Dual purpose nozzle for spray and jet functionality
- Easy elevation feature to ensure precise and efficient fire fighting
- Developed with large bores to avoid clogging
- Low water requirement can save on extra installation costs linked to higher water supply demand
- No moving parts in the nozzle
- Ability of unattended operation



## Key Features of Lance

- The lance and its equipment comes in a practical tool case for easy storage and use
- Equipped with a drill to penetrate the container wall quickly and safely
- Can be operated by one crew member
- Fitted with an extension to protect the operator from the hot surface
- The water spray is discharged both vertically to protect crew from the heat, and horizontally to suppress the fire
- Developed with a holder that enables it to be left unattended in operation



## Application

- The XFlow® Mobile Water Monitor is used to protect container deck area.
- The XFlow® Water Mist Lance is used to protect container bays.

# XFLOW® MOBILE WATER MONITOR AND WATER MIST LANCE

## System description

In the case of a fire in a container, the water mist lance and the water monitor can be used together or independently.

The water mist lance tool case contains a battery operated drill, a fire hose and the lance itself. The equipment can easily be carried, mounted and operated by one person. The lance is connected to the fire main using the hose in the tool case, and water is released by pushing the valve handle. The drill is fast and easy to use, for maximum effect drill the hole high up. The lance is then inserted in the hole, and the groove in the fixing sleeve fastens to the container wall. The lance can then operate unattended for as long as needed.

The water monitor is easy to carry and assemble by an individual. After assembly, the monitor can be placed on deck or any other horizontal surface without any straps or fastening devices. However it is still fitted with a strap that can be used if the ship is rolling or pitching in heavy seas. The monitor is connected to the fire mains with a standard fire hose, this starts operating as soon as the hydrant valve is opened. The angle of the water jet is easily adjusted by a turning wheel, from 0° to 90°, and the direction is set by turning the monitor. The monitor stays stable by itself, and can operate as long as needed.

## Approvals

Both the XFlow® Mobile Water Monitor and the XFlow® Water Mist Lance are type approved according to IMO regulations under SOLAS II-2/10.7.3 and the mobile monitor is tested and approved to meet the SOLAS regulations IMO MSC.1/ Circ. 1472.

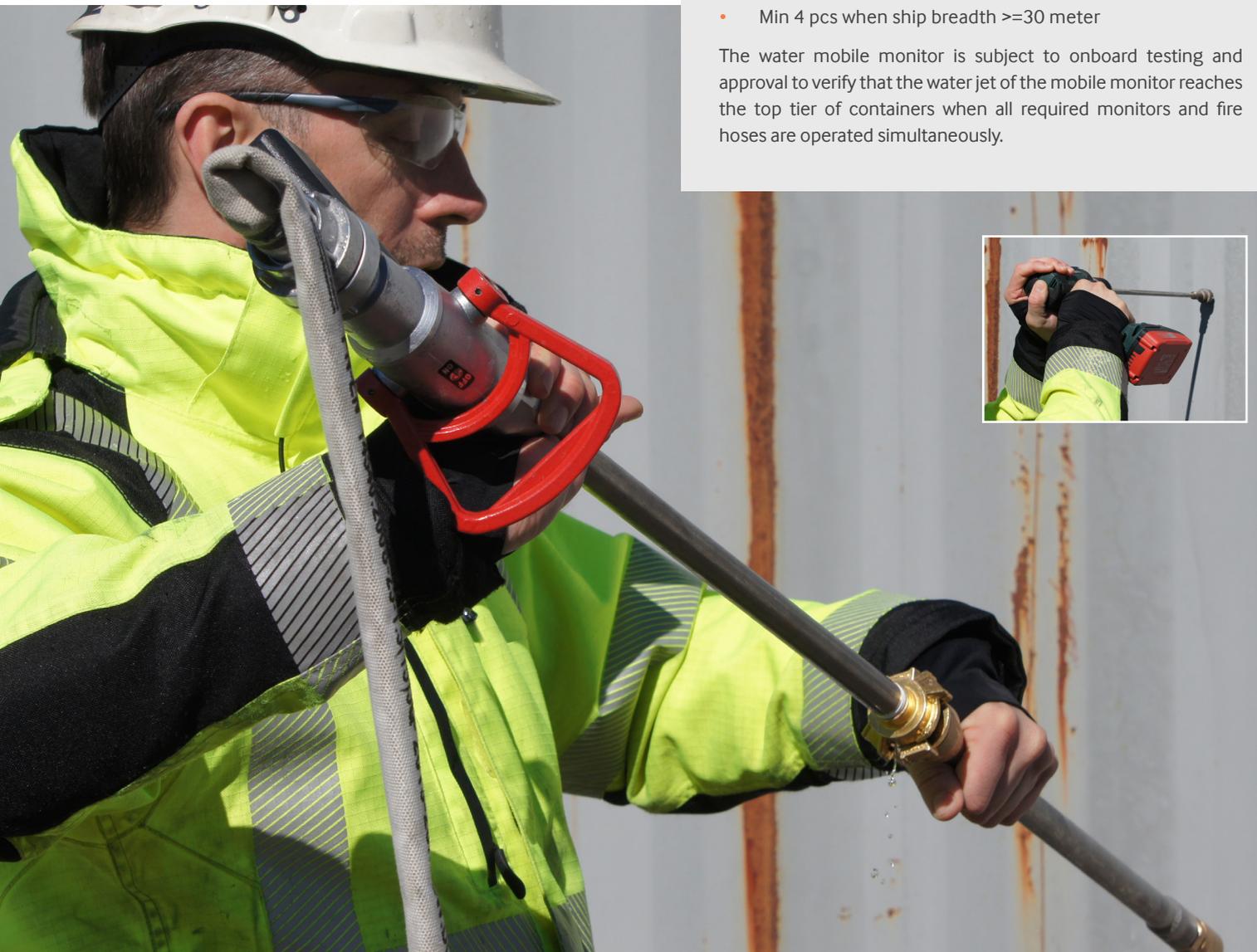
## Regulation background

Ships are constantly growing in size, so are container ship fleet sizes. Thus, the number of fire accidents on board container ships is also increasing. As a result of the Formal Safety Assessment (FSA) provided to the Marine Safety Committee (MSC) at the IMO, it was agreed that fire protection of new cargo ships with containerised cargo on deck should be improved. Therefore additional firefighting equipment is required to be carried on board as specified by SOLAS reg. II-2/10.7.3.

**THE NEW REGULATION** states that vessels carrying containers on or above the weather deck, constructed on or after **JANUARY 2016** shall carry at least one water mist lance. Regulation states that vessels designed to carry five or more tiers of containers on or above the weather deck, shall carry a number of mobile water monitors in addition to the water mist lance(s):

- Min 2 pcs when ship breadth <30 meters
- Min 4 pcs when ship breadth >=30 meter

The water mobile monitor is subject to onboard testing and approval to verify that the water jet of the mobile monitor reaches the top tier of containers when all required monitors and fire hoses are operated simultaneously.



# XFLOW® MOBILE WATER MONITOR AND WATER MIST LANCE

## Water mist lance

KIT CONTENT	
Aluminium portable case	1pc
Spray gun with Storz D coupling and lance section	1pc
Lance section with water mist nozzle	1pc
Drilling machine 18V (IP23)	1pc
Drill extension	2pc
Hex key for drill extensions	1pc
Cup drill	1pc
Extra battery and charger	1pc
Fire hose with Storz C-D adaptor coupling	1pc
Assembly / operations guide	1pc

PORTABLE CASE	
Case size (W x H x D)	760 x 520 x 220 mm
Length of assembled lance	1180 mm
Length of drill with extension(s)	680 - 1100 mm

LANCE	
Inlet lance	Storz D
Inlet hose	Storz D or C (Adapter)
Nominal flow and pressure	25 lpm (Q 4 bar)
Max. working pressure	16 bar
Nozzle K-factor	11.1
Drill power	18V
Drill size	Ø 30mm
Battery charger connection	230V Europlug (CEE 7/16)
Weight of kit	15 kg

## Mobile water monitor

MONITOR	
Inlet	2 x Storz C adapters (52 mm)
Nozzle connection	External thread G 2½"
Nozzle type	Dual purpose spray/jet
Max. working pressure	16 bar
Working pressure	Minimum 1.5 bar Nominal 4 bar
Capacity	Minimum 36.7 m³/h Nominal 60 m³/h
Throw length	Nominal 40 m
Throw height	Minimum 12 m Nominal 29 m
Pivoting area	
Horizontal rotation	360°
Elevation range	-60° to +120°
Dimensions (for nozzle elevation 45°)	
Length	approx. 1200 mm
Height	approx. 560 mm
Width (legs folded)	approx 670 mm
Width (legs extended)	approx. 1200 mm
Weight of monitor with nozzle	~20kg

## ORDER INFORMATION

Product Number	Product name
M23101-0	XFlow® Mobile Water Monitor
1093614	XFlow® Water Mist Lance

## XFlow® water based systems

### Machinery space protection

- Water Mist LAFF system
- Water Mist Total Flooding system

### Accommodation area protection

- Water Mist Accommodation system
- Water Mist Balcony system

### On-deck container protection

- Mobile Water Monitor
- Water Mist Lance

### Roro space and special category space protection

- Wet Pipe system
- Deluge system

### Galley and duct protection

- Water Mist Deep-Fat Fryer system
- Water Mist Duct system

## APPROVALS

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Specific standard : SOLAS 74 Reg.II-2/10., IMO.1/Circ.1472

