EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007G5

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the Mobile water monitor for ships constructed on or after 1 January 2016 designed to carry five or more tiers of containers on or above the weather deck

with type designation(s)
Novenco XFlow® WMM 1000

Issued to
Survitec Fire Solutions Poland Sp. z o.o.
Doluje, **Poland**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/3.69. SOLAS 74 as amended, Regulation II-2/10 &19 and MSC.1/Circ.1472, IMO MSC.1/Circ.1550

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-05-10**.

Issued at **Høvik** on **2021-05-11**

DNV local station:
Szczecin

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

"XFlow® WMM-1000",
is a water discharge device of portable type, consisting of inlet fittings, monitor waterway, swivel fittings and a dual-purpose discharge nozzle.

Mobile water monitor characteristics	
Nominal capacity [m3/h]	63.6
Minimum working pressure [bar]	4.0
Maximum working pressure [bar]	16
K-factor [lpm/bar$^{0.5}$]	530
Nominal throw height [m]	29 (@4.0 bar)
Nominal throw length [m]	44 (@4.0 bar)
Pivoting area	Horizontal range: 360° Elevation range: -60° to +120°
Nozzle type	Dual-purpose spray/jet
Material	Monitor body: Stainless steel - AISI 316 Monitor foot: Carbon steel Nozzle: Stainless steel - AISI 316
Weight of monitor with nozzle [kg]	20

Application/Limitation

Approved for use as mobile water monitor for the protection of on-deck cargo areas of ships designed and constructed to carry five or more tiers of containers on or above the weather deck.

The operational performance of the mobile water monitors shall be tested during initial survey on board the vessels in accordance with SOLAS II-2/10.7.3.2.4.

Each monitor to be function and hydraulically pressure tested at 1.5 times maximum working pressure.

The mobile water monitor shall be equipped with a coupling allowing connection to the vessel's fire hydrants via a fire hose. The coupling is to be sized for the proper flow and pressure performance of the monitor.

The mobile water monitor to be located in a weather protected area when not in use.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Tests carried out

Tested in accordance with IMO MSC.1/Circ.1472 (throwing distance, throwing height, spray pattern) and discharge coefficient test, leak test and mechanical test.

Marking of product

The monitors are to be marked with type designation, the MED Mark of Conformity, Notified Body No. and the year of manufacturing (see first page).