

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00004WV
Revision no.:
3

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 **Fixed water based local application fire- fighting systems components for use in category A machinery spaces**

with type designation(s)
K7-Kattegat low pressure water mist system

issued to
Vid Fire-Kill ApS
Svendborg, Denmark

is found to comply with the Implementing Regulation (EU) 2025/1533 for
Item no. **MED/3.48 (Row 1 of 1)**
according to the following requirements:
IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, SOLAS 74 Reg. II-2/10, SOLAS 74 Reg. X/3

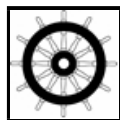
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-12-17**

Expiry date: **2028-11-07**

DNV local unit:
Denmark CMC

Approval Engineer:
Tessa Bieber



Notified Body
no.: **0575**



for **DNV AS**

Digitally Signed By:

Christine Mydlak-Röder

Christine Mydlak-Röder
Head of Notified Body



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

"K7-Kattegat low pressure water mist system", is a local application water mist system for machinery spaces of category A consisting of open low-pressure water mist nozzles, stainless steel or galvanized steel piping, electrically operated control valves, filters, strainers, control systems and electrically driven pumps.

The system is to be designed according to principal requirements for the system, IMO MSC.1/Circ.1387 and SOLAS Reg. II-2/10.5.6.

Only the nozzles are type approved by this certificate. Pumps, pipes, couplings, valves and other systems components are subject to case-by-case approval.

Application/Limitation

Approved for use as a fixed water based local application system for machinery spaces of category A.

The nozzles are to be installed above the protected objects according to the following specifications: see Appendix.

For all systems:

- A. Nozzles are to be made of stainless steel. The maximum operating pressure is 16 bar.
- B. Turbo machinery should also be covered by the system but with gentle application of water. Essential electrical equipment and air intakes should preferably not be directly exposed to the water discharge. Electrical equipment as per Class Rules shall be applied for new buildings.
- C. The pumps (or pump unit) shall be delivered with product certificate, whereas other system components are to be certified or inspected in accordance with Class Rules (or equivalent standard as specified by the Flag Administration).
- D. Pipes, couplings and other components are regarded as "Class III" piping.
- E. The pump unit and section valves shall be installed in a room having ambient temperature between 4°C and 45°C.

The following documents are to be approved and filed by the Flag Administration:

- a. System arrangement plans including location of nozzles, sections valves, release stations and pump-unit (including water supply specifications).
- b. Documentation of power supply and control system.
- c. Specification of pipes, electrical motor, valves, pumps and associated components.
- d. Pressure drop calculations and water capacity calculations.
- e. Arrangement of interface to fire detection and alarm system (where applicable).
- f. Design, installation, operation and maintenance manual.

Other documents:

- Documentation for other components (according to DIN 3.1B and DIN 2.2, or equivalent), including qualification of welders and approval of welding procedures (if applicable) is to be submitted to the Flag Administration/ Recognized organization in question.

Installation testing:

- At least one section should be tested with full flow through the nozzles.
- Test of manual and remote release of all section valves and start of pumps.
- Testing of alarms (SOLAS Reg. II-2/10.5.6.4).
- Cleaning of system according to maker's procedure.
- Pressure testing of water pipe system to at least 1.5 times maximum working pressure.
- Testing of automatic start of system (in case of unattended machinery spaces).
- Other tests according to maker's manual and any required by the authority having jurisdiction.

Periodical testing:

- Periodical testing shall comply with instructions from flag administration, statutory interpretations and maker's maintenance manual.
- At least one section should each year be tested with full flow through the nozzles.

Please see Appendix: Application/Limitation

Type Examination documentation

Document No.	Rev.	Title
--------------	------	-------

80808-218		Test report dated 21 November 2018 from DFL, Svendborg, Denmark.
181019-01-03 - K7 DIOM 1387 LP	3	Design, Installation, Operation and Maintenance (DIOM) manual dated 17 October 2021 from manufacturer.
DFL250113-363	0	Test report dated 22 January 2025 from DFL, Svendborg, Denmark.
150918-161	0	Component test dated 2 December 2015 from DFL, Svendborg, Denmark.
110415-5	0	Test report dated 15 April 2015 issued by DFL, Svendborg, Denmark.
180824-4959	B	Drawing dated 11 December 2018 from manufacturer

Tests carried out

Fire performance testes according to IMO MSC.1/Circ.1387.

Component tests in accordance with IMO Res. A.800(19) as amended by IMO Res. MSC.265(84).

Marking of product

The nozzle is to be marked with type designation. In addition, the nozzle or its packing shall be marked with the name and address of manufacturer and the Mark of Conformity.

APPENDIX

Application/Limitation

Certificate no.:
MEDB00004WV
 Revision no.:
2

The spray heads are to be installed above the protected objects according to the following specifications:

Type	K7	K7
Maximum horizontal spacing:	3.0 m	3.0 m
Vertical distance from object:	1.0 m – 3.75 m	0.75 m – 9.25 m
Minimum operation pressure:	2.0 bar (at spray heads)	6.0 bar (at spray heads)
Spray head type:	K7	K7
Spray heads are to be installed out to the periphery of the protected area (see IMO MSC.1/Circ.1387, 3.4.2.2). The spray heads are to be installed in a pendant (downward) position. Single spray heads or single rows are accepted when half spacing is used.		

Spray head information:

Spray head type	Application	k-factor [lpm/bar ^{1/2}]	Flow [lpm]	Operating pressure [bar]	Drawing
K7	Local application	7.0	9.9	2.0	180824-06
K7	Local application	7.0	17.1	6.0	180824-06
The spray heads are made of stainless steel and have a maximum rated pressure of 16 bar.					