

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MERB00000GZ
Revision no.:
1

This Certificate is issued by DNV UK Limited, UKAS accredited certification body no. 6086, based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body (no. 0097) to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2025.

This is to certify:

that the **Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Reg. II-2/12 (limited to nozzles and their performance)**

with type designation(s)
Neptun

issued to
Vid Fire-Kill ApS
Svendborg, Denmark

is found to comply with the Regulation (UK) MSN 1874 Amendment 11 for
Item no. **UK/3.9 (Row 1 of 1)**
according to the following requirements:

**SOLAS 74 Reg. II-2/7, SOLAS 74 Reg. II-2/9, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.44(65),
IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO MSC/Circ.912, IMO MSC/Circ. 1556, SOLAS 74 Reg. II-2/10,
SOLAS 74 Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 8**

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

Date of issue: **2026-02-18**

Expiry date: **2031-02-17**

DNV local unit:
Denmark CMC

Approval Engineer:
Helge Bjørnarå



Approved Body No.: **0097**



for **DNV UK Ltd.**

Digitally Signed By:
Christine Mydlak-Röder

Christine Mydlak-Röder
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2025, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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Product description

"Neptun"

is an automatic fast response low-pressure water mist system of wet pipe type. The system is composed of sprinkler heads, stainless steel piping, sprinkler valves, control system, strainers, pumps and a pressure tank.

The system is to be designed in accordance with the "Principal Requirements for the System" in IMO Res. A.800(19) as amended by IMO Res. MSC.265(84).

Only the sprinklers are type approved by this certificate. Other components are to be approved and/or certified case by case.

Application/Limitation

Approved for use as an automatic water sprinkler system for accommodation areas, public spaces, service spaces and store rooms.

For overview of sprinkler head types and its installation please see Appenedix.

For all applications:

- A. Maximum system working pressure is 16 bar, while the minimum working pressure at the sprinkler heads is 6 bar, except for stores which are 9 bar.
- B. All sprinkler heads are to be installed in the ceiling in a pendant (downward) position, except model OH-SWC which has to be placed sideways located centred in front wall.
- C. All sprinkler heads are made of brass and are fitted with Job F2 bulbs, with nominal releases temperature of 57 °C (orange). Bulbs with higher temperature ratings, but not more than 30 °C above ambient temperature, are subject to approval in each case.
- D. 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).
- E. Redundant pump arrangement is to be approved on a case by case basis.
- F. Only stainless steel piping or equivalent fire and corrosion resistant pipes are to be applied (to avoid clogging of sprinklers). Primary water supply shall be fresh water of potable quality.
- G. Pipes, couplings and other components are regarded as "Class III" piping.
- H. 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 State Administration for each project:

- a. System arrangement plans including location of sprinklers, pipes, sections valves, control system and pump-unit.
- b. Specification of pipes, valves, electrical motor, pumps, pressurised tank(s) and associated components (including water supply specifications).
- c. Pressure drop calculations and water capacity calculations.
- d. Arrangement of power supply and control system.
- e. Manual containing installation, operation and maintenance instructions.

Other documents:

- Gas cylinders, gas pumps, any pipes above DN 50 mm, valves and couplings above DN 100 mm are to be delivered with product certificates (or standards considered by the Flag Administration to be equivalent);
- Documentation for other components (according to EN 3.1B and EN 2.2, as applicable) shall be submitted to the site representative of the Flag Administration.

Installation

- Water to be in accordance with manufacturer's specification for water quality. No chemicals shall be added to the water, for the purpose of e.g. cleaning, bacterial control, corrosion inhibition, etc., without the acceptance from the Manufacturer.

Installation testing:

- Not less than 2 sprinkler heads in each section shall be tested. Testing may be limited to 10 sections. i.e. 2 x 10 sprinkler heads if it is successful.
- Automatic start and stop of pumps.
- Automatic change over from main to emergency electric supply.
- Alarms at the manned control station(s) shall be tested.
- Other tests as required by Class rules (pressure testing of piping, etc.) and according to maker's manual (or equivalent standard as specified by the Flag Administration).

Periodical testing:

- The testing shall comply with instructions from flag administration, Statutory Interpretations and maker's maintenance manual.
- Not less than 2 sprinkler heads shall be tested annually. Further testing will be required in case of failure(s) or for systems older than 5 years.

Please see Appendix: Application/Limitation

Type Examination documentation

Tests carried out

Fire performance test in accordance with IMO Res. A.800(19) and as amended by IMO Resolution MSC.265(84).

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

Marking of product

The sprinkler heads are to be marked with type designation, the Mark of Conformity, Notified Body No. and the year of manufacturing (see first page) whereas the pump unit is to be marked with name and address of manufacturer and type designation.

APPENDIX

Application/Limitation

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Installation shall be in accordance with table 1, appendix 2, IMO Res. MSC.265(84):

Application	Sprinkler head	Max. spacing [m]	Distance to wall [m]
Cabins < 12 m ² (4.0 x 3.0) ⁴⁾	OH-CA1	One per room	0.9
Cabins < 18 m ² (4.5 x 4.0) ⁴⁾	OH-SWC	One centred located in front wall ³⁾	
Cabins < 20 m ² (5.0 x 4.0) ⁴⁾	OH-CA	Two per room	0.9
Cabins < 22 m ² (5.5 x 4.0) ⁴⁾	OH-CA2	Centred	2.75
Corridors ²⁾	OH-CO	3.0	1.5 ⁵⁾
Public space (h < 2.5 m)	OH-L0	2.5	1.3
Public space (h < 2.5 m)	OH-L1	4.0	2.0
Public space (h < 5 m) ¹⁾	OH-L2	4.0	2.0
Storage areas	OH-PX1	4.0	2.0

Note:

- 1) Ceiling height of more than 5 meter is subject to case-by-case approval.
- 2) Maximum width of corridor should not exceed 1.5 m.
- 3) Installed 0.12 m beneath the ceiling.
- 4) Cabin area is gross area, including wet unit.
- 5) Nozzle centred in corridor. Distance to wall is at the end of the corridor.

Sprinkler head	k-factor [lpm/bar ^{1/2}]	Pressure [bar]	Min. flow [lpm]	Drawings
OH-CA1	13.0	6.0	31.8	151202-4106-B
OH-SWC	23.0	6.0	56.3	100519-830-B
OH-CA	10.0	6.0	24.5	151203-4109-B
OH-CA2	18.0	6.0	44.0	201014-5153-B
OH-CO	15.5	6.0	38.0	190405-5011-B
OH-L0	7.0	6.0	17.0	151203-4107-C
OH-L1	13.5	6.0	33.1	91104-737-C
OH-L2	14.5	6.0	35.5	81201-624-D
OH-PX1	23.0	9.0	69.0	80930-596-E