



TYPE APPROVAL CERTIFICATE
No. ELE025924XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Lightning Protection
<i>Type</i>	DDCE Marine, dinfil filter, dinmar
<i>Applicant</i>	Dinnteco International SL Av. De les escoles 30, 1^o2^a AD700 Escaldes ANDORRA
<i>Manufacturer</i>	Dinnteco Factory
<i>Place of manufacture</i>	C/ Alibarra 30 Pabellon 1 01010 Vitoria-Gasteiz SPAIN
<i>Reference standards</i>	See attached document

Issued in **Hamburg** on **October 21, 2025**. *This Certificate is valid until* **October 20, 2030**

Giuseppe Russo

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. **ELE025924XG**

Enclosure - Page 1 of 1

DDCE Marine, dinfil filter, dinmar

General product information:

The DDCE is a Lightning Protection System (LPS) that works by continuously balancing the variable electric field between the atmosphere and the ground. It works by controlled diversion of the electrical charges accumulated in the environment, preventing the ionization of the air that gives rise to the upward tracer. In this way, the DDCE prevents the formation of lightning in the protected area.

The dinfil filter is a high reactance filter for protection against high frequency ground induced surges derived from atmospheric discharges, electromagnetic pulses and other sources.

The operating principle of the dinfil filter is based on the fact that when high frequency alternating currents try to pass through the most active part of the winding, the self-inductance produced by the magnetic flux of the current that tries to pass through it generates a counter-electromotive force that opposes the passage of its alternating component.

The lightning protection system comprises two main segments:

- Protection against direct lightning strikes
- Protection against external induced overvoltage (optional)

Compliance with:

IEC, EN, UNE-EN and BS-EN 62305 Part 1, 2, 3, 4 (DDCE marine / dinmar)
IEC 62561 Part 1 (dinfil filter)

Reference documents:

Installation manual - DDCE marine products

Technical Data Sheet - DDCE marine / dinfil filter / dinmar

Test Reports:

- Labencor: CNS3_2410011, CNS3_2410012, CNS3_2410013, CNS3_2410014, CNS3_2410015

- VIRLAB: 253753

- LCOE: 2020073F0309, 2020083F0342, 2020093F0365, 2020093F0367, 2021093F0355, 2024013F0040, 2025043F0293

Hamburg October 21, 2025

