

Marine Equipment Directive EC Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2021/1158
Certificate Holder and Manufacturer	Aquamate Products Limited T/a Echomax Champers Farm Bardfield End Green Thaxted Essex CM6 3PX United Kingdom
EC Representative	ScanMarine DK Aps Egensevej 25 2770 Kastrup Danmark
Product(s)	EchoMax EMA03i
Product Sector	Life-saving Appliances
Product Type	MED/1.33 Radar Reflector for lifeboats and rescue boats (passive)

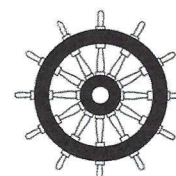
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 25 August 2021


 (Tom Twynan)

Expiry Date: 24 August 2026

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.
 The Conditions for the validity of this certificate are listed in the Annex.
 For further details, related to this certification please contact BABT@tuvsud.com



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Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

Inflatable Radar Reflector

1.1 Model

Model
EMA03i

2 Assessed Requirements

2.1 Implementing Regulation (EU)2021/1158

2.2 Compliance Requirements for MED/1.33

IMO Resolutions	International Testing Standards	
IMO Res.A.384(X) IMO Res.MSC.164(78)	EN ISO 8729-1:1998	Ships and marine technology — Marine radar reflectors
IMO Res.A694(17)	IEC 60945:2002	General Requirements for Marine Navigation Equipment (Inc. Corr1:2008)

3 Technical Documentation

3.1 Declaration of Conformity

DoC-EMA03i	Modified	2021-04-21
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3.2 User Guide

Echomax EMA03i Instructions	Modified	2021-08-29
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3.3 Test Reports

3.3.1 EN ISO 8729 (1998)

QinetiQ/15/01665	Dated	2015-05-06
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3.3.2 IEC 60945 (2002) & Corr.1 (2008)

QinetiQ/15/01665	Dated	2015-05-06
14-129379 J4742	Dated	2014-08-05
Port of London	Dated	2014-08-26
CML/Test/A1020/1	Dated	2018-03-30

3.4 Build Status

3.4.1 Hardware

EMA03i Drawings	Dated	2014-07-09
EMA03i 2 dimensional Drawings	Dated	2014-07-09

3.5 Notes

- Note 1 The EMA03i is suitable for operation at a 1.5 metre mounting height.
 Note 2 The EMA031 is inflatable device which is supplied un-inflated in a stowage bag.
 Note 3 The maximum stowage height, when fitted in the emergency pack of an inflatable liferaft, is 36 metres.
 Note 4 The EMA03i has not been tested for packing into a liferaft container.

Annex to Marine Equipment Directive Module B Type Examination Certificate



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4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

Should the specified regulations (internal conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through an Implementing Regulation during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

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 Annex B of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature: *T. J. Twynam*
(Thomas J. Twynam)

Date: 2021-08-25

On behalf of TÜV SÜD DANMARK ApS