



**TYPE APPROVAL CERTIFICATE**  
No. FPE178720CS

**This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"**

<i>Description</i>	<b>Axial fans</b>
<i>Type</i>	<b>Axial fans VE and VEX series</b>
<i>Applicant</i>	<b>C.E.M. ELETTROMECCANICA S.R.L. VIA SACCO E VANZETTI 9/11 CAP 41015 Nonantola (MO) ITALY</b>
<i>Manufacturer</i>	<b>C.E.M. ELETTROMECCANICA S.R.L.</b>
<i>Place of manufacture</i>	<b>VIA SACCO E VANZETTI 9/11 CAP 41015 Nonantola (MO) ITALY</b>
<i>Reference standards</i>	<b>Rules for Testing and Certification of Marine Materials and Equipment</b>

*Issued in* **RINA Italy Safety Plan Approval** on **July 13, 2020**. *This Certificate is valid until* **July 12, 2025**

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**RINA Services S.p.A.**  
 **Davide Campora**

This certificate consists of this page and 1 enclosure

**FPE178720CS**  
**Enclosure 1 of 2**  
**Axial fans VE-VEX**

**Product description**

The equipment subject to this certification consists in axial fans produced by C.E.M. Elettromeccanica s.r.l. Two series are included in this certification namely VE and VEX, the main components are electric motor, impeller, protection grid and casing. Main characteristics are specified in drawings filed with number CSST 18505.

**Technical characteristics**

The main difference between axial fans VE and VEX series consists of the case construction material.

VE series fans have painted carbon steel case, VEX axial fans have stainless steel case. Each series contains fans of different dimensions and capacity from 210mm to 1000mm diameter. Both VE and VEX fans are available for use with direct or alternating current.

Details relevant to the two series are available in the drawings filed with number CSST 18490 - CSST 18491 - CSST 18492 - CSST 18505.

**Fields of application**

Axial fans VE and VEX series produced by C.E.M. Elettromeccanica s.r.l. are fans suitable for the use on pleasure crafts, passenger ships, cargo ships and high speed crafts in exhaust and supply ventilation systems serving closed environments (such as engine rooms, galleys, toilets etc.).

**Restrictions**

C.E.M. Elettromeccanica s.r.l. axial fans VE - VEX series cannot be installed in ventilation systems serving spaces where explosive atmosphere is likely to occur.

**Reference document**

Drawings filed with number CSST 18490 - CSST 18491 - CSST 18492 - CSST 18505.

**Test report**

Test reports have been carried out at the presence of RINA surveyor and filed with n° CSST 18506.

**Remarks**

The installation of the product in areas other than those specified in this certificate are not allowed.

**Acceptance conditions**

The validity of the present certificate is based on the assumption of the constant conformity of the single product manufactured to the prototype that has been tested with positive results to the type approval tests. The firm is responsible in the whole of the above mentioned conformity.

The holder of the type approval certificate has to inform RINA of any intended modifications to the product and/or manufacturing process which are liable to effect the required conformity of the product. RINA at its own discretion may require to repeat in the whole or in part the type approval tests periodically, in case of entering into force of new rules different to those applied to the present type approval certificate, or in case of doubts and contentions.

**FPE178720CS**  
**Type Approval Certificate**  
**Enclosure 2 of 2**  
**Axial fans VE-VEX**

The certificate becomes automatically invalid in the following case:

1. the holder of the certificate does not respect the above mentioned obligations.
2. changes have been made to the reference document on which the type approval is based.

The type approval certificate may be declared suspended or cancelled by RINA when the conditions on which the type approval was based are not fulfilled.

The type approval certificate does not absolve the interested parties from compliance with any additional and/or more stringent requirements issued by the Administration of the State whose flag the vessel is entitled to fly and provisions for their application.

**Genoa, July 13, 2020**