EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007BK

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 Inert gas system: Single components: inert gas blowers

with type designation(s)
Inert gas fans/blowers, Types P30, P53D and P80D

Issued to
Rotodyne Ventilatoren B.V.
Venray, Limburg, Netherlands

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2021/1158,**
item No. MED/3.42b. SOLAS 74 as amended, Regulation II-2/4, IMO Res. A.567 (14), IMO MSC/Circ. 353, 485, 731 & 1120 and FSS Code 15

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

This Certificate is valid until **2026-10-24**.

Issued at **Høvik** on **2021-10-25**

DNV local station:
Netherlands CMC

Approval Engineer:
Erik Istad

Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Product description

Centrifugal flue gas fans/ Centrifugal air fans.

Capacity range: 1500 – 40000m^3/hr
Pressure range: 1000 – 4000mmWG

Application/Limitation

The requirements described in the following regulations of SOLAS 74 and the resolutions and circulars of the IMO shall be complied with:

SOLAS Reg.II-2/4
IMO Res. A.567(14)
IMO Res. MSC.98(73) – (FSS Code) Ch.15
IMO Res./Circ.353
IMO Res./Circ.485
IMO Res./Circ.731
IMO Res./Circ.1120

The Inert gas blowers/fans shall be connected to a water seal in accordance with MSC/Circ.353 [3.15.4] that indicates that a water seal of at least 2 meters, below the equipment to be drained. Means should be provided for draining the lowest point of the bend. In addition, the seal should be adequately vented to a point above the water level. Inspection of water seal to be carried out onboard.

Type Examination documentation

Tests carried out

Document: 220210988 - Overspeed test carried out in accordance with MSC/Circ.353 [3.5.2] and witnessed by DNV surveyor on September 10th, 2021.

Marking of product

For traceability the following marking is to be carried out on each product:
- Manufacturers name or mark
- Type designation
- Serial No.
- Mark of conformity (see below)

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.