



Marine & Offshore

Certificate number: 02281/J0 BV

File number: ACM 190/006/000

Product code: 6903H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

DANFOSS A/S
NORDBORG - DENMARK

for the type of product

TEMPERATURE CONTROLLERS FOR REFRIGERATING PLANTS

"KP 61 - KP 62 - KP 63 - KP 68 - KP 69 - KP 71- KP 73 - KP 75 - KP 77 - KP 79 and KP 81"

Requirements:

BV Rules for the Classification of Steel Ships.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 06 Aug 2023

For Bureau Veritas Marine & Offshore,

At BV FREDERICIA, on 06 Aug 2018,

Jesper Jensen



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=kxkkjp5au3>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

"TEMPERATURE CONTROLLERS FOR REFRIGERATING PLANTS"

TYPE	RANGE (°C)
KP 61	- 30 + 15
KP 62	- 30 + 15
KP 63	- 50 - 10
KP 68	- 5 + 35
KP 69	- 5 + 35
KP 71	- 5 + 20
KP 73	- 25 + 15
KP 75	+ 10 + 45
KP 77	+ 20 + 60
KP 79	+ 50 + 100
KP 81	+ 80 + 150

2. DOCUMENTS AND DRAWINGS:

Data sheet N° DKRCC.PD.CA0.C7.02 | 520H11317, dated Jul 2016.

3. TEST REPORTS:

According to Test report filed in ACM 190/006/00.
Test report N° BOS/1595/BE/17, dated 31 Mar 2017.

4. APPLICATION / LIMITATION:

Bureau Veritas Rules for the Classification of Steel Ships.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The TEMPERATURE CONTROLLERS FOR REFRIGERATING PLANTS are to be supplied by **DANFOSS A/S** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **DANFOSS A/S** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **DANFOSS A/S** has declared to Bureau Veritas the following production site(s):

Danfoss Sp. z o.o.
ul. Chrzanowska 5
05-825 GRODZISK MAZOWIECKI
POLAND

6. MARKING OF PRODUCT:

- Maker's name or trademark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

- 7.1 - It is **DANFOSS A/S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 - This certificate supersedes the Type Approval Certificate N° 02281/I1 issued on 26 Mar 2013 by the Society.

*** END OF CERTIFICATE ***