

MARINE DIVISION

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Certificate number: 02281/H0 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

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

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"

Regulations and standards :

BV Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until : 12 May 2013

At Paris la Défense, on : 12 May 2008

For BUREAU VERITAS,
By order of the Secretary

L. COURREGELONGUE

Approval office



Local office : BV FREDERICIA
Surveyor : V. Simonsen



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. 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 Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS 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 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

2. DOCUMENTS AND DRAWINGS :

According to Manufacturer's Catalogue RK.00.H3.02 (pages 297 to 304).

3. TEST REPORTS :

According to Test report filed in ACM 190/006/00.

4. APPLICATION / LIMITATION :

4.1 - As per BV Rules for the Classification of Steel Ships.

4.2 - The fitting aboard to be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be manufactured, examined and tested by **DANFOSS A/S** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **DANFOSS A/S** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **DANFOSS A/S** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production site:

DANFOSS A/S
Head Office
DK-6430 NORDBORG
DENMARK

6. MARKING OF PRODUCT :

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

7. OTHERS :

7.1 - This approval is given with the understanding that the Society reserves the right to require check tests to be carried out on the above mentioned equipment in Clause I at any time, and that the Manufacturer, **DANFOSS A/S, NORDBORG - DENMARK** with accept the responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the Equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 02281/G0 BV issued on 25/03/2003 by the Society.

*** END OF CERTIFICATE ***