



Type Approval Certificate for OS.74

For application Cargo Refrigeration please contact BITZER before placing an order. An extended product documentation is required. For supplied compressors it is not possible to deliver the required extended product documentation subsequently. Additional costs for extended product documentation will be charged.

TYPE APPROVAL CERTIFICATE

DNV·GL

Certificate No:
TAM00000GV
Revision No:
2

This is to certify:

That the Refrigerant Compressor

with type designation(s)
OS74

Issued to

BITZER Kühlmaschinenbau GmbH
Sindelfingen, Germany

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.5 Rotating machinery – driven units

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Max. working press.: 28 bar

Operating media HCFC-refrigerants, HFC-single component refrigerants, HFC-refrigerant blends, HFO-refrigerants, HFO/HFC refrigerant blends, Inorganic Compound, see page 2

Issued at **Hamburg** on **2020-01-29**

This Certificate is valid until **2022-07-19**.

DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Christian Kaemmer**

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Olaf Drews
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Form code: TA 251

Revision: 2016-12

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Page 1 of 2

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Job Id: **262.1-025028-3**
 Certificate No: **TAM00000GV**
 Revision No: **2**

Product description

Open Drive Screw Compressor OS74

Casing Material: EN-GJL-250
Screw Rotor Material: EN-GJS-600-3, EN-GJS-500-7
 EN-GJS-400-3 (only female rotor)

Usable Refrigerants

HCFC-refrigerants of the safety group A1 and Fluid Group 2 PED
HFC-single-component refrigerant of the safety group A1 and Fluid Group 2 PED
HFC-refrigerant blends of the safety group A1 and Fluid Group 2 PED
HFO/HFC refrigerant of safety group A1 and Fluid Group 2 PED
Inorganic Compound: R717 / Ammonia, safety group B2L and Fluid Group 1 PED

Note: Fluid Groups acc. to PED = Pressure equipment directive 2014/68/EU
 Safety Groups acc. to EN DIN 378-1:2017-03

Application

Air Conditioning, Provision Cooling, Cargo Refrigeration.

Production place

BITZER Kühlmaschinenbau GmbH, Werk Rottenburg, D-72108 Rottenburg/Ergenzingen // Germany

Tests to be carried out

Compressors are subject to a performance test at the manufacturer's works under supervision of DNVGL and are to be presented for final inspection.

Type Approval documentation

Marking of product

The product shall be marked with manufacturer's name, year of construction, effective suction rate [m³/h], discharge pressure [bar], speed [rpm], shaft power [kW], serial number.

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNVGL-CP-0338, Sec.4.