



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **M-12356**

This is to certify that the
Refrigerant Compressor

with type designation(s)

SMC 104 S/L/E, 106 S/L/E, 108 S/L/E, 112 S/L/E, 116 S/L/E, TSMC 108 S/L/E, 116 S/L/E, SMC 100 MK 4 series, HPC 104/106/108

Manufactured by

Johnson Controls Denmark ApS
Højbjerg, Denmark

is found to comply with
Det Norske Veritas' Rules for Classification of Ships

Application
Refrigeration piston compressors

Type

**SMC 104 S/L/E, 106 S/L/E, 108 S/L/E, 112 S/L/E, 116 S/L/E, TSMC 108 S/L/E, 116 S/L/E, SMC 100 MK 4 series
HPC 104/106/108**

Max. working press.:
discharge side: 28 bar,
suction side: 20 bar

discharge: 40bar ,
suction:25 bar

Operating media
R22, R134A, R290, R 404A, R407C,
R507, R600A, R717, R1270

R22, R134A, R290, R 404A, R407C,
R507, R600A, R717, R1270, R744

This Certificate is valid until **2017-12-31**.

Issued at **Høvik** on **2013-08-21**

DNV local station: **Aalborg**

Approval Engineer: **Svein-Olav Hannevik**



for **Det Norske Veritas AS**

Digitally Signed By: **Sollie, Terje**

Location: **DNV Høvik, Norway**

Signing Date: **21.08.2013** on behalf of

Torbjørn Lie
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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.