

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Accommodation Heater**with type designation(s)
T2RiB

Issued to

**TELCO FABRIKKER A/S
SELBU, Norway**

is found to comply with

**DNV GL rules for classification – Ships and offshore units
DNV GL rules for classification – High speed and light craft****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Rated power 250 - 2000W
Rated voltage 115 V/230 V/400 V/440 V
Enclosure IP44**This Certificate is valid until **2020-12-30**.Issued at **Høvik** on **2016-02-22**DNV GL local station: **Trondheim**Approval Engineer: **Børre Dan Knutsen**for **DNV GL**

**Marit Laumann
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.

Product description

Convection heater for accommodation use.

Type designation	Power rating (W)	Voltage rating (V)
T2RiB 150325-1	250	115
T2RiB 150303-1	300	115
T2RiB 150304-1	400	115
T2RiB 150505-1	500	115
T2RiB 150608-1	800	115
T2RiB 150910-1	1000	115
T2RiB 150912-1	1200	115
T2RiB 151116-1	1600	115
T2RiB 151320-1	2000	115
T2RiB 150325-2	250	230
T2RiB 150303-2	300	230
T2RiB 150304-2	400	230
T2RiB 150505-2	500	230
T2RiB 150606-2	600	230
T2RiB 150608-2	800	230
T2RiB 150910-2	1000	230
T2RiB 150912-2	1200	230
T2RiB 151116-2	1600	230
T2RiB 151320-2	2000	230

Type designation	Power rating (W)	Voltage rating (V)
T2RiB 150325-4	250	400
T2RiB 150303-4	300	400
T2RiB 150304-4	400	400
T2RiB 150505-4	500	400
T2RiB 150608-4	800	400
T2RiB 150910-4	1000	400
T2RiB 150912-4	1200	400
T2RiB 151116-4	1600	400
T2RiB 151320-4	2000	400
T2RiB 150325-44	250	440
T2RiB 150303-44	300	440
T2RiB 150304-44	400	440
T2RiB 150505-44	500	440
T2RiB 150608-44	800	440
T2RiB 150910-44	1000	440
T2RiB 150912-44	1200	440
T2RiB 151116-44	1600	440
T2RiB 151320-44	2000	440

Application/Limitation

For dry and wet accommodation spaces. Only for fixed installation. Shall normally be protected with a top plate in accordance with our Rule Pt.4, Ch.8, Sec. 8, A 303. Installation is to be considered in each case.

Type Approval documentation

Technical info:

Drawing no. T3201, Component list, Manufacturer's specifications
Manual Marine Heater – TELCO T2RIB, Rev. 000 Dated 12-02-2016

Test reports:

Nemko test reports nos. E09742.00 dated 2009-09-22 and 134715 dated 2009-11-03.
SINTEF report no. STF18 F82037 dated 1982-05-19.

Tests carried out

Type tests in according to IEC 60335-2-30, Vibration test
Nemko test report – Vibration, issued 2012-08-01

Marking of product

TELCO FABRIKKER A/S – Voltage rating – Power rating – IP 44

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routines (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation



Job Id: **262.1-005566-5**
Certificate No: **TAE0000105**

- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment to be performed at least every second year.

END OF CERTIFICATE