DNV·GL

Certificate No:
**TAE0000105**

# 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**

for **DNV GL**

DNV GL local station: **Trondheim**

Approval Engineer: **Børre Dan Knutsen**

**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.


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## Product description

Convection heater for accommondation 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

## 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
- 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