

Report No. K 1433 2024 E8
Residential space heating appliances fired by wood pellets
Supplement to type testing
DIN EN 14785

Model:
PF 734

Trademark:
Jøtul

Company:
Jøtul AS



Deutsche
Akkreditierungsstelle
D-PL-11120-04-00

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Publication of page 2 is permitted.

The test results presented in this report refer solely to the test object stated. The report does not represent a general statement about the serial production of the test object and gives not an authorization for use of a TÜV Rheinland test- / certification mark.

Supplement to type testing reports
K12332014T1, K14362014Z1, K12332017E4, K27072019Z1
Residential space heating appliances fired by wood pellets
DIN EN 14785: September 2006
Correction 1 DIN EN 14785: 10/2007

Applicant/contractor: **Jøtul AS**
P.o. box 1411,
1602 Fredrikstad - Norway

Trademark: **Jøtul**

Appliance description: Residential space heating appliance fired by wood pellets without water heat exchanger, with fan assisted flue discharge and with internal fuel hopper.

Model designation: **PF 734**

Total heat input: 3,1 kW – 8,1 kW

Total heat output: 2,9 kW – 7,3 kW

Water heat output: Not applicable

Type of fuel charging: Automatic load.

Flue spigot: 80 mm

Remarks:

-

Test result:

The technical requirements cl. 4-8 of the above-mentioned standard are fulfilled. The local applicable installation conditions have to be observed.

The presumption of conformity with the relevant European Directives could only be confirmed by full compliance with Annex ZA.

Additional details are documented on reports K12332014T1, K14362014Z1, K12332017E4 and K27072019Z1.

Dated in Cologne, 2024-02-22
667 / pom

TÜV Rheinland Energy & Environment GmbH
Test Centre according to Construction Product
Regulation 305/2011(CPR)
Notified Body: 2456

Assessor:

Report released after review:



Dipl.-Ing. A. Pommer

Dipl.-Ing. M. Reibold

Residential space heating appliances fired by wood pellets, Initial Type Test in accordance with the regulation 305/2011 conformity certification system no. 3

1. Task definition

History test report K 1233 2014 T1

The Test Centre for Energy Appliances was instructed to execute the initial type testing on the appliances **Monica** and **R70** for the operation with wood pellets according to DIN EN 14785:2006, cl. 4-8.

The electrical safety cl. 5.9. of the standard was not a part of this initial type testing.

Nominal load data of appliance **Lisa Plus** were linearly interpolated between Monica and R70 appliances nominal load data.

The practical tests were carried out by the laboratory CMC Centro Misure Compatibilità S.r.l., via della Fisica 20, Thiene (VI) – Italy, on the 4th – 5th – 6th of February 2014.

History test report K 1436 2014 Z1 Rev.01

The Test Centre for Energy Appliances was instructed to execute a renaming of the following appliances:

| | |
|--|---|
| Basic: Ravelli S.r.l. Via Kupfer 31, 25036 Palazzolo sull'Oglio (BS) - Italy | Renaming: Ravelli S.r.l. Via Kupfer 31, 25036 Palazzolo sull'Oglio (BS) - Italy |
| Trademark: Ravelli | Trademark: Ravelli |
| Report: K12332014T1 | Report: K14362014Z1 Rev.01 |
| Model: Lisa Plus | Model: RV80 |

History test report K 1233 2017 E4

The company Ravelli S.p.A. was renamed to the new company name Aico S.p.A. starting from 01.01.2017.

The manufacturer Aico S.p.A. maintains a permanent system of FPC (Factory Production Control) and identifies the responsibility areas to ensure that the products introduced in the market comply with the declared characteristics (see clause 9.3 of the EN14785) under his own responsibility.

In addition, the manufacturer changes the designation name. The construction remains unchanged to the appliances listed in K14332014T1 test report: all data measured or calculated in K14332014T1 test report are assigned also to the new family appliances.

For more information, see the following table:

| | | |
|---|--|---|
| Basic: Ravelli S.r.l. Via Kupfer 31, 25036 Palazzolo sull'Oglio (BS) - Italy | Renaming: Ravelli S.r.l. Via Kupfer 31, 25036 Palazzolo sull'Oglio (BS) - Italy | Supplement: Aico S.p.A. Via Kupfer, 31 Palazzolo sull'Oglio (BS) - Italy |
| Trademark: Ravelli | Trademark: Ravelli | Trademark: Ravelli |
| Report: K12332014T1 | Report: K14362014Z1 Rev.01 | Report: K12332017E4 |
| Model: Lisa Plus | Model: RV80 | Model: RV80 |

History test report K 2707 2019 Z1

The Test Centre for Energy Appliances was instructed to execute a renaming of the following appliances:

| | |
|--|---|
| Supplement: Aico S.p.A. Via Kupfer, 31 Palazzolo sull'Oglio (BS) - Italy | Renaming: Jøtul France SAS Chemin du Jubin, 3 69574 Dardilly – France |
| Trademark: Ravelli | Trademark: Jøtul |
| Report: K12332017E4 | Report: K27072019Z1 |
| Model: RV80 | Model: PF 733 |

New test report K 1433 2024 E8

The manufacturer adds a new model to the K12332014T1, K12332017E4, K27072019Z1 reports family, named **PF 734**, with the following characteristics:

- different external design;
- different control board / display;
- different fuel motor.

The Test Centre did a comparison test with the gear motor FB1439 in report K19302024E8. The comparison combustion measurements shown no significant differences.

2. Description of the appliance

2.1 Construction

Residential space heating appliance fired by wood pellets without water heat exchanger. The flue discharge for pellet operation is fan assisted. The stove is equipped with an automatic ignition.

2.2 General declared technical data of the pellet appliance

| | |
|--|--|
| Model name: | PF 734 |
| Nominal power: | 7,3 kW |
| Fuel: | Wood pellets Ø 6 mm, Lmax 30 mm, class A1 according to EN 17225-2 |
| Total dimension: Height x Width x Depth | 1008 x 502,5 x 517 mm |
| Distance from adjacent combustible materials: | Backside distance: 100 mm Side distance: 150 mm Front distance: 800 mm |
| Max water pressure: | Not applicable. |
| Max water temperature: | Not applicable. |

For more information see test reports K12332014T1, K14362014Z1, K12332017E4 and K27072019Z1.

3. Resume of test results

| PF 734 | | Nominal* | Partial | Requirement |
|--|-------------------|----------|---------|-------------------------------------|
| Mass of the test fuel fired hourly | kg/h | 1,67 | 0,65 | - |
| Flue gas mass flow | g/s | 6,0 | 3,9 | - |
| Flue gas temperature | °C | 143,2 | 80,4 | - |
| Flue draught | mbar | 0,10 | 0,10 | 0,12/0,10 +/-0,02 or declared value |
| CO ₂ -concentration | Vol.-% | 9,3 | 5,5 | - |
| O ₂ -concentration | Vol.-% | 11,0 | 15,1 | - |
| CO-concentration | ppm | 146 | 125 | - |
| CO-emission (at 13%-O ₂) | mg/m ³ | 145 | 212 | ≤ 500/750 |
| CO-emission | mg/kWh | 348 | 508 | - |
| CO-emission | mg/MJ | 97 | 141 | - |
| NO _x -concentration | ppm | 85 | 51 | - |
| NO _x -emission (at 13%-O ₂) | mg/m ³ | 141 | 141 | - |
| NO _x -emission | mg/kWh | 338 | 338 | - |
| NO _x -emission | mg/MJ | 94 | 94 | - |
| CnHm-concentration measured acc. to CEN/TS 15883 | ppm | 1 | 1 | - |
| CnHm-emission (at 13%-O ₂) | mg/m ³ | 1 | 1 | - |
| CnHm-emission | mg/kWh | 3 | 2 | - |
| CnHm-emission | mg/MJ | 1 | 1 | - |
| Dust concentration measured acc. to CEN/TS 15883 and EN13284-1 | mg | 11 | 6 | - |
| Dust emission (at 13%-O ₂) | mg/m ³ | 13 | 12 | - |
| Dust emission | mg/kWh | 25 | 30 | - |
| Dust emission | mg/MJ | 7 | 8 | - |
| Total heat input | kW | 8,1 | 3,1 | - |
| Total heat output | kW | 7,3 | 2,9 | - |
| Water heat output | kW | - | - | - |
| Space heat output | kW | 7,3 | 2,9 | - |
| Efficiency | % | 90,5 | 92,2 | ≥ 75/70 |

*) Nominal load data are linearly interpolated between Monica and R70 nominal load data (see test report no. K12332014T1).

4. Statement of the test results

The appliance

PF 734

of the company

Jøtul AS

with trademark

Jøtul

fulfils the requirements acc. to
EN 14785:2006, clauses 4-8.

The presumption of conformity with the relevant European Directives respectively Regulations could only be confirmed by full compliance with Annex ZA.

Additional details are documented on Type Test reports n. K12332014T1, K14362014Z1, K12332017E4 and K27072019Z1.

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5. Test documents

TÜV Rheinland Energy & Environment GmbH declines any responsibility derived from missing or wrong information in the documents provided by the applicant.

| Appendix | Subject | Reference |
|-----------------|-------------------------------------|---------------------------|
| A 01 | Type label | - |
| A 02 | Extension Declaration | 18/01/2024 |
| A 03 | Instruction and installation manual | JØTUL PF 734 |
| A 04 | List of electrical components | 18/01/2024 |
| A 05 | Gear motor | Mellor FB1439 |
| A 06 | Safety electrical circuit | M31 |
| A 07 | Setup parameters | - |
| A 08 | Overview drawings | 20069CJ01, 20069CJ01/0 |