

TEST REPORT n. 1880-CPR-051-004-19

Initial Type Testing

Roomheaters fired by solid fuels
EN 13240:2001
EN 13240:2001/AC:2006
EN 13240:2001/A2:2004/AC:2007
EN 13240:2001/A2:2004/AC:2006
EN 13240:2001/A2:2004

Manufacturer: KLOVER SRL
Via A. Volta, 8
37047 SAN BONIFACIO (VR)
Italy

Type designations: Belvedere 30-AR, Belvedere 30-ARP, Belvedere 30-R, Belvedere 30-RP, Belvedere 30, Belvedere ,30-P, Nuova Belvedere-AR, Nuova Belvedere-ARP, Nuova Belvedere-R, Nuova Belvedere-RP, Nuova Belvedere, Nuova Belvedere-P, BV30-AR, BV30-ARP, BV30-R, BV30-RP, BV30, BV30-P, NBV-AR, NBV-ARP, NBV-R, NBV-RP, NBV, NBV-P, Ecowood, Ecowood-P, Belvedere 20, Belvedere 20-P, BV20, BV20-P

Type of appliance: Roomheater fired by wood with water heat exchanger.

Receipt date: July 05, 2019

Start test date: July 09, 2019

End test date: July 12, 2019

Testing laboratory: ACTECO SRL – Notified Body 1880
via Amman, 41
33084 Cordenons (PN)
Italy

Issue date: October 11, 2022

Head of Test Laboratory
Dr.ssa Claudia Marcuzzi

The results of the tests relate only to the tested appliance.
This test report shall not be reproduced except in full, without written approval of the laboratory.
The appliance was returned to the manufacturer after the end of tests.
All data is stored for 10 years

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Task

ACTECO SRL was instructed to execute initial type testing to establish compliance according to the:

- UNI EN 13240:2006 (EN 13240:2001 + EN 13240:2001/A2:2004 + EN 13240:2001/A2:2004/AC:2006 + EN 13240:2001/A2:2004/AC:2007 + EN 13240:2001/AC:2006). Roomheaters fired by solid fuels.
- UNI CEN/TS 15883:2009 Residential solid fuel burning appliances. Emission test methods
- Client's documents

The practical tests were performed in the laboratory in Cordenons (PN), via Amman, 41.

The type designations indicated in page 1 are identical to the already tested appliance designated "**BELVEDERE 30**". The practical tests were performed in the laboratory in Cordenons (PN), via Amman, 41 (see Test Reports: n°1880-CPR- 051-19; n°1880-CPR- 051-CL-19; n°1880-CPR- 051-001-19).

In the type designations:

Belvedere 30-AR, Belvedere 30-ARP, Belvedere 30-R, Belvedere 30-RP, Belvedere 30, Belvedere ,30-P, Nuova Belvedere-AR, Nuova Belvedere-ARP, Nuova Belvedere-R, Nuova Belvedere-RP, Nuova Belvedere, Nuova Belvedere-P, BV30-AR, BV30-ARP, BV30-R, BV30-RP, BV30, BV30-P, NBV-AR, NBV-ARP, NBV-R, NBV-RP, NBV, NBV-P, Ecowood, Ecowood-P, Belvedere 20, Belvedere 20-P, BV20, BV20-P.

the difference regards the cover design. The main parts, components, combustion room, heating parts are identical.

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Description of the appliance

Roomheater fired by wood with water heat exchanger.

The combustion air is taken from the test room.

Key data of appliance

Appliance	BELVEDERE 30	
Fuel		wood logs
Fuel throughput	kg/h	6,9
Total heating output	kW	25,7
Space heating output	kW	8,0
Water heating output	kW	17,7
Efficiency	%	85,1
Carbon monoxide [at 13% O ₂]	%	0,090
Carbon monoxide	mg/MJ	715
Carbon monoxide [at 13% O ₂]	mg/m ³	1072
Dust emission	mg/MJ	8
Dust emission (at 13% O ₂)	mg/m ³	11
NO _x (as NO ₂)	mg/MJ	78
NO _x (as NO ₂ at 13% O ₂)	mg/m ³	117
OGC (as C)	mg/MJ	38
OGC (as C at 13% O ₂)	mg/m ³	58
Flue gas temperature	°C	190
Necessary flue draught	Pa	11,8
Flue gas mass flow	g/s	23,6
Permissible maximum operating pressure	bar	2,0
Minimum clearance distances from exposed / combustibile materials	from rear wall from side walls	0 mm 0 mm

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STATEMENTS OF THE TEST RESULTS

The following requirements of UNI EN 13240:2006 (EN 13240:2001 + EN 13240:2001/A2:2004 + EN 13240:2001/A2:2004/AC:2006 + EN 13240:2001/A2:2004/AC:2007 + EN 13240:2001/AC:2006) are met:

- materials, design and construction requirements specified in clause 4 (as declared by the manufacturer);
- the safety requirements specified in clause 5;
- the performance requirements specified in clause 6;
- the installation and operating instructions requirements specified in clause 7;
- the marking information requirements specified in clause 8.

PERFORMANCE AT THE NOMINAL HEAT OUTPUT TEST			
Parameter		result	EN 13240 limit
carbon monoxide [at 13% O ₂]	%	0,090	< 1
efficiency	%	85,1	> 50

The appliances

Belvedere 30-AR, Belvedere 30-ARP, Belvedere 30-R, Belvedere 30-RP, Belvedere 30, Belvedere ,30-P, Nuova Belvedere-AR, Nuova Belvedere-ARP, Nuova Belvedere-R, Nuova Belvedere-RP, Nuova Belvedere, Nuova Belvedere-P, BV30-AR, BV30-ARP, BV30-R, BV30-RP, BV30, BV30-P, NBV-AR, NBV-ARP, NBV-R, NBV-RP, NBV, NBV-P, Ecowood, Ecowood-P, Belvedere 20, Belvedere 20-P, BV20, BV20-P

of **KLOVER SRL** comply with the requirements of the harmonized European standard UNI EN 13240:2006 (EN 13240:2001 + EN 13240:2001/A2:2004 + EN 13240:2001/A2:2004/AC:2006 + EN 13240:2001/A2:2004/AC:2007 + EN 13240:2001/AC:2006).

Compliance with the clauses of the harmonized European standard UNI EN 13240:2006 confers a presumption of fitness of the appliance covered by annex ZA for the intended uses indicated by the quoted above normative; reference shall be made to the information accompanying the CE marking.

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