

Notified Body 1880 – Directive 89/106/CEE

TEST REPORT n.1880-CPR-047-003-16

## Initial Test Typing

Residential space heating appliances fired by wood pellets  
EN 14785:2006

Manufacturer: AMBIENTE & CALORE SRL  
Via Galileo Galilei 11  
31010 MARENO DI PIAVE (TV)  
Italy

Type designation: CALDAIA ALFA 20

Type of appliance: Residential space heating appliances fired by wood pellets

Receipt date: November 3, 2016

Start test date: November 8, 2016

End test date: November 14, 2016

Testing laboratory: ACTECO SRL  
via Amman, 41  
33084 Cordenons (PN)  
Italy

Issue date: September 12 2018

Head of Test Laboratory  
Dr. 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 14785:2006 Residential space heating appliances fired by wood pellets.
- 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 designation indicated in page 1 is identical to the already tested appliance designated "**ALFA 20**". The practical tests were performed in the laboratory in Cordenons (PN), via Amman, 41 (see Test Reports n.1880-CPR-047-16, n.1880-CPR-047-CL-16 and n.1880-CPR-047-001-16.)

In the type designation

**CALDAIA ALFA 20**

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

## Description of the appliance

Residential space heating appliances fired by wood pellets with indirect water system.

The combustion air is taken from the test room.

### Key data of appliance

| Appliance  | CALDAIA ALFA 20                   |                  |
|--|-----------------------------------|------------------|
| Fuel   |                                   | Wood pellet      |
| Fuel throughput  | kg/h                              | 4,1              |
| Total heating output   | kW                                | 18,7             |
| Space heating output   | kW                                | 3,0              |
| Water heating output   | kW                                | 15,5             |
| CO emission based on 13% O <sub>2</sub>                          | mg/m <sup>3</sup>                 | 40               |
| Efficiency   | %                                 | 94,2             |
| Flue gas temperature   | °C                                | 128,1            |
| Necessary flue draught   | Pa                                | 11,8             |
| Flue gas mass flow   | g/s                               | 8,8              |
| Permissible maximum operating pressure                           | bar                               | 2,0              |
| Minimum clearance distances from exposed / combustible materials | from rear wall<br>from side walls | 200 mm<br>200 mm |

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## STATEMENTS OF THE TEST RESULTS

The appliance

### **CALDAIA ALFA 20**

of **AMBIENTE & CALORE srl** complies with the requirements of the harmonized European standard UNI EN 14785:2006.

Compliance with the clauses of the harmonized European standard UNI EN 14785:2006 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.

## ANNEX

1. Declarations of performance
2. Declaration of equality