

Report No. K 3079 2021 B4
Verification of the requirements according to:

COMMISSION REGULATION (EU) 2015/1185
(Ecodesign Directive 2009/125/EC)
and
COMMISSION DELEGATED REGULATION (EU) 2015/1186
(Energy Labelling Directive 2010/30/EU)

Type:

-

Solid fuel local space heaters:

GRACE 10
VENUS

Trademarks:
ANSELMO COLA
STARCLIMA

Company:
COLA S.r.l.

2021



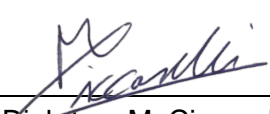
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Publication of page 2 is permitted.

The test results presented in this report refer solely to the test object stated as described on page 2. 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.

**Test Report according the Commission Regulation (EU) 2015/1185 – Ecodesign
and the Commission Delegated Regulation (EU) 2015/1186 – Energy Labelling**

Appliance manufacturer / contractor:	COLA S.r.l. Viale del Lavoro, 7/9 37040 Arcole (VR) - Italy		
Trademarks:	ANSELMO COLA	STARCLIMA	
Models:	GRACE 10	VENUS	
Type of construction:	Pellet stoves in acc. with EN 14785:2006		
Fuel:	Compressed wood pellets class A1 acc. to EN17225-2, Ø 6 mm, L _{max} 30 mm		
Nominal heat output (P _{nom})	9,3 kW	Direct:	9,3 kW
		Indirect:	0,0 kW
Minimum heat output (P _{min})	2,5 kW	Direct:	2,5 kW
		Indirect:	0,0 kW
Reference type test report:	K 3079 2021 Z1		
<p>Test basis: Regulations no. 2015/1185 and no. 2015/1186. This examination has been carried out in a test laboratory equipped in accordance with the EN 14785:2006. The test results were reviewed by the impartial test centre of TÜV Rheinland Energy GmbH. Test results: the requirements of the implementing Directives 2009/125/EC and 2010/30/EU for the appliance are fulfilled with the following values:</p>			
Seasonal space heating energy efficiency	83,5 %		
Energy efficiency class	A+		
Cologne, 2021-06-21 432/mc	TÜV Rheinland Energy GmbH Test Centre for Energy Appliances DIN- and DVGW-test laboratory		
Assessor:	Report released after review:		
			
Dipl.-Ing. M. Ciccarelli	Dipl.-Ing. A. Pomp		

1 Task

The Test Centre for Energy Appliances was instructed to execute the measurements and calculations on the appliance **GRACE 10** according to the Commission Regulation (EU) 2015/1185 and the Commission Delegated Regulation (EU) 2015/1186.

The tests were carried out by the laboratory of TÜV Rheinland Energy GmbH /CMC Centro Misura Compatibilità S.r.l. in via della Fisica, 20 - Thiene (Italy).

Test details on the renaming test report n. K30792021Z1 (EN 14785:2006).

2 Description of the appliances

Residential space heating appliances fired by wood pellets without water heat exchanger for domestic central heating system. The flue discharge for pellet operation is fan assisted. The stoves are equipped with an automatic ignition.

See the renaming test report n. K30792021Z1 for further details.

Control features

Room temperature control

Single stage heat output, no room temperature control	No
Two or more manual stages, no temperature control	No
With mechanic thermostat room temperature control	No
With electronic room temperature control	No
With electronic room temperature control plus day timer	No
With electronic room temperature control plus week timer	Yes

Controls for indoor heating comfort

Room temperature control with presence detection	No
Room temperature control with open window detection	No
With distance control option	No

3 Test data

Working condition	Description	Parameter	Result	Unit
Nominal heat output	Useful efficiency at nominal heat output	$\eta_{th,nom}$	89,3	%
	Nominal heat output	P_{nom}	9,3	kW
	Electric power requirement at nominal heat output*	$e_{l,max}$	135	W
	Particulate matter emissions**	PM	6	mg/m ³
	Organic gaseous compounds emissions**	OGC	5	
	Carbon monoxide emissions**	CO	110	
	Nitrogen oxides emissions**	NO _x	132	
Minimum heat output	Useful efficiency at minimum heat output	$\eta_{th,min}$	93,5	%
	Minimum heat output	P_{min}	2,5	kW
	Electric power requirement at minimum heat output*	$e_{l,min}$	92	W
	Particulate matter emissions**	PM	18	mg/m ³
	Organic gaseous compounds emissions**	OGC	4	
	Carbon monoxide emissions**	CO	222	
	Nitrogen oxides emissions**	NO _x	132	
Standby	Standby mode power consumption	$e_{l,sb}$	2,9	W

* average values, measured according to EN15456:2008.

** values standardised to a dry flue gas basis at 13 % oxygen and conditions at 273 K and 1013 mbar.

4 Test results

Seasonal space heating energy efficiency in active mode		η_{son}	89,3	%
Contributions of controls of indoor heating comfort (mutually exclusive temperature controls)		F(2)	7,0	%
Contributions of controls of indoor heating comfort		F(3)	0,0	%
Negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption		F(4)	2,8	%
Negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame		F(5)	0,0	%
Biomass label factor		BLF	1,45	---
Up to 1/1/2022	Seasonal space heating energy efficiency	η_s	83,5	%
	Energy efficiency index	EEI	124	---
	Energy efficiency class	---	A+	---
From 1/1/2022	Seasonal space heating energy efficiency	η_s	83,5	%
	Energy efficiency index	EEI	124	---
	Energy efficiency class	---	A+	---

5 Evaluation of the Energy Labelling Requirements

Energy efficiency class	Energy efficiency index (EEI)
A++	$EEI \geq 130$
A+	$107 \leq EEI < 130$
A	$88 \leq EEI < 107$
B	$82 \leq EEI < 88$
C	$77 \leq EEI < 82$
D	$72 \leq EEI < 77$
E	$62 \leq EEI < 72$
F	$42 \leq EEI < 62$
G	$EEI < 42$

According to the Directive 2010/30/EU, the local space heaters shall be marked as following:

Appliances	Energy efficiency class
Models: GRACE 10 VENUS	A+

6 Statement of test results

The local space heaters:

**GRACE 10
VENUS**

of the company:

COLA S.r.l.

fulfil and correspond to the requirements of the Commission Regulation (EU) 2015/1185 with regard to ecodesign requirements for local space heaters and achieved a seasonal space heating energy efficiency of:

83,5 %

that corresponds to the energy efficiency class:

A+

in accordance with Annex II Energy Efficiency Classes table 1 of the Commission Delegated Regulation (EU) 2015/1186

The evaluation of the results of this report with respect of conformity with the related commission regulations (2015/1185 and 2015/1186) is only a part of the conformity assessment to fulfil the Ecodesign (Directive 2009/125/EC) and Energy Labelling (Directive 2010/30/EU) prescriptions.