

Report No. K 1288 2022 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)

Solid fuel local space heater:
Insert Line Idra 15

Trademark:
Thermorossi

Company:
Thermorossi S.p.A.

2022




Deutsche
Akkreditierungsstelle
D-PL-11120-04-00

This accreditation is valid only for the listed standards as stated in the accreditation annex of 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 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:	Thermorossi S.p.A. Via Grumolo 4 36011 Arsiero (VI) - Italy	
Trademark:	Thermorossi	
Model:	Insert Line Idra 15	
Type of construction:	Pellet stove in acc. to EN 14785:2006	
Fuel:	Compressed wood pellets, Ø 6 mm, L _{max} 30 mm, class A1 according to EN 17225-2	
Nominal heat output (P _{nom})	14,2 kW	Direct: 2,4 kW
		Indirect: 11,8 kW
Minimum heat output (P _{min})	5,0 kW	Direct: 0,7 kW
		Indirect: 4,3 kW
Reference type test report:	K 1288 2014 T1	
<p>Test basis: Regulations no. 2015/1185 and no. 2015/1186. This examination has been carried out in a test laboratory equipped in accordance to the EN 14785:2006. The test results were reviewed by the impartial test centre of TÜV Rheinland.</p> <p>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	79,6 %	
Energy efficiency class	A+	
Cologne, 14.03.2022 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 **Insert Line Idra 15** 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/CMC Centro Misura Compatibilità S.r.l. in Thiene (Italy).

Test details on the reference test report K12882014T1.

2 Description of the appliance

Residential space heating appliance fired by wood pellets with water heat exchanger for domestic central heating system. The flue discharge for pellet operation is fan assisted. The stove is equipped with an automatic ignition.

See the reference test report K12882014T1 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	Yes
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	No

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	$\eta_{th,nom}$	90,4	%
	Nominal heat output	P_{nom}	14,2	kW
	Electric power requirement at nominal heat output*	$e_{l,max}$	50	W
	Particulate matter emissions**	PM	15	mg/m ³
	Organic gaseous compounds emissions**	OGC	2	
	Carbon monoxide emissions**	CO	104	
	Nitrogen oxides emissions**	NO _X	138	
Minimum heat output	Useful efficiency at minimum heat output	$\eta_{th,min}$	91,4	%
	Minimum heat output	P_{min}	5,0	kW
	Electric power requirement at minimum heat output*	$e_{l,min}$	35	W
	Particulate matter emissions**	PM	12	mg/m ³
	Organic gaseous compounds emissions**	OGC	7	
	Carbon monoxide emissions**	CO	359	
	Nitrogen oxides emissions**	NO _X	133	
Standby	Standby mode power consumption*	$e_{l,sb}$	3,0	W

* Declared values by the manufacturer.

** 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}	90,4	%
Contributions of controls of indoor heating comfort (mutually exclusive temperature controls)	F(2)	0,0 *	%
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)	0,7	%
Negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame	F(5)	0	%
Biomass label factor	BLF	1,45	---
Seasonal space heating energy efficiency	η_{s}	79,6	%
Energy efficiency index	EEl	120	---
Energy efficiency class	---	A+	---

* F(2) = 0 for solid fuel local space heaters not complying with the requirements on eco-design emissions, where the temperature control is set at the minimum heat output.

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 heater shall be marked as following:

Appliance: Insert Line Idra 15	Energy efficiency class
Trademark: Thermorossi	A+

6 Statement of test results

The local space heater

Insert Line Idra 15

of the company

Thermorossi S.p.A.

fulfils and corresponds 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:

79,6 %

and an energy efficiency class of:

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.