

Report No. K20192019B17
Verification of the requirements according to:

COMMISSION REGULATION (EU) 2015/1189
(Ecodesign Directive 2009/125/EC)

and/i

COMMISSION DELEGATED REGULATION (EU) 2015/1187
(Energy Labelling Directive 2010/30/EU)

Type: **Sunpellet 7**

Trademark: **FERROLI**

Company: **Ferrolì S.p.A.**

2019



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) 2015/1189 – Ecodesign
and the Commission Delegated Regulation (EU) 2015/1187 – Energy Labelling**

Boiler manufacturer / contractor:	Ferrolì S.p.A. Via Ritonda 78/A I-37047 San Bonifacio (VR)	
Type designation	Sunpellet 7	
Trademark	FERROLI	
Type of construction	Heating boiler in acc. with EN 303-5	
Fuel	Wood pellet	
Useful heat output at rated heat output (P _n):	51,9 kW	
Useful heat output at applicable part load (P _p):	14,0 kW	
Reference type test reports:	K3902011T23/T24/T25/T26 K3902013T32/T33/T34/T35	
Special features:	Condensing boiler	No
	Solid fuel cogeneration boiler	No
	Combination boiler	No
<p>Test basis: Regulations no. 2015/1189 and no. 2015/1187. This examination has been carried out in a test laboratory equipped in accordance with the EN 304:2004. The test results were reviewed by the impartial test centre of TÜV Rheinland Energy GmbH.</p> <p>Test results: the requirements of the implementing Directives 2009/125/EC and 2010/30/EU for boilers are fulfilled with the following values:</p>		
Seasonal space heating energy efficiency:	84 %	
Efficiency Class	A+	
Cologne, 01.08.2019 432/öz	TÜV Rheinland Energy GmbH Test Centre for Energy Appliances DIN- and DVGW-test laboratory	
Expert	Report released after review:	
 		
Dipl.-Ing. I. Metin	Dipl.-Ing. M. Reibold	

1 Evaluation of the Ecodesign requirements

Description	Parameter	Result	Unit
Useful efficiency at rated heat output	η_n	82,5	%
Useful efficiency at applicable part load	η_p	88,3	%
Electrical efficiency (for solid fuel cogeneration boilers)	$\eta_{el,n}$	---	%
Useful heat output at rated heat output	P_n	51,9	kW
Useful heat output at applicable part load	P_p	14,0	kW
Electric power requirement at maximum heat output*	$e_{l_{max}}$	100	W
Electric power requirement at minimum heat output*	$e_{l_{min}}$	43	W
Standby mode power consumption*	P_{SB}	3	W
Seasonal space heating energy efficiency in active mode	η_{son}	84	%
Loss of seasonal space heating energy efficiency due to adjusted contributions of temperature controls	F(1)	3,0	%
Negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption	F(2)	0,7	%
Positive contribution to the seasonal space heating energy efficiency by the electrical efficiency of solid fuel cogeneration boilers	F(3)	---	%
Seasonal emissions**	PM	9	mg/m ³
	OGC	6	
	CO	172	
	NO _x	134	
Biomass label factor	BLF	1,45	---
Seasonal space heating energy efficiency	η_s	84	%
Energy efficiency index	EEl	123	---

* average values, measured according to EN15456:2008. Integrated circulating pump not considered in the determination of the electrical power

** values standardised to a dry flue gas basis at 10 % oxygen and conditions at 0 °C and 1013 mbar

2 Evaluation of the Energy Labelling Requirements

Energy efficiency class	Energy efficiency index (EEI)
A+++	$EEI \geq 150$
A++	$125 \leq EEI < 150$
A+	$98 \leq EEI < 125$
A	$90 \leq EEI < 98$
B	$82 \leq EEI < 90$
C	$75 \leq EEI < 82$
D	$36 \leq EEI < 75$
E	$34 \leq EEI < 36$
F	$30 \leq EEI < 34$
G	$EEI < 30$

According to the Directive 2010/30/EU, the boiler shall be marked as following:

Boiler	η_s	EEI	Efficiency Class
Type designation: Sunpellet 7 Trademark: FERROLI	84 %	123	A+

3 Statement of test results

The boiler:

Sunpellet 7

of the company:

Ferrolì S.p.A.

with trademark:

FERROLI

fulfils and corresponds to the requirements of the Commission Regulation (EU) 2015/1189 with regard to ecodesign requirements for solid fuel boilers and achieved a seasonal space heating energy efficiency of

84 %

that corresponds to the energy efficiency classes of solid fuel boilers

A+

in accordance with Annex II Energy Efficiency Classes table 1 of the Commission Delegated Regulation (EU) 2015/1187

The evaluation of the results of this report with respect of conformity with the related commission regulations (2015/1189 and 2015/1187) is only a part of the conformity assessment to fulfil the Ecodesign (Directive 2009/125/EC) and Energy Labelling (Directive 2010/30/EU) prescriptions