

Produkte
Products

Prüfbericht - Nr.: <i>Test Report No.:</i>	50109728 001	Seite 1 von 24 <i>Page 1 of 24</i>
Auftraggeber: <i>Client:</i>	Cixi Haidebao Electrical Appliance Co., Ltd. No.703, Guanfu Road, Fuhai Town, Cixi City, Zhejiang, 315332 P.R. China	
Gegenstand der Prüfung: <i>Test item:</i>	Oil-filled radiator	
Bezeichnung: <i>Identification:</i>	See page 2	Serien-Nr.: N/A <i>Serial No.:</i>
Wareneingangs-Nr.: <i>Receipt No.:</i>	1160040441	Eingangsdatum: 2017-10-30 <i>Date of receipt:</i>
Prüfört: <i>Testing location:</i>	TÜV Rheinland / CCIC (Ningbo) Co., Ltd. 3F, Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China	
Prüfgrundlage: <i>Test specification:</i>	<input checked="" type="checkbox"/> Commission Regulation (EU) 2015/1188 implementing Directive 2009/125/EC with regard to ecodesign requirement for local space heater Annex II.1&III	
Prüfergebnis: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>	
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland / CCIC (Ningbo) Co., Ltd. 3F, Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P. R. China	
geprüft/ tested by:	kontrolliert/ reviewed by:	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>16.11.2017</p> <p><i>Weimin Zhang / PE</i></p> <p>Datum <i>Date</i></p> <p>Name/Stellung <i>Name/Position</i></p> <p>Unterschrift <i>Signature</i></p> </div> <div style="text-align: center;"> <p>17.11.2017</p> <p><i>Liwei Lang / Reviewer</i></p> <p>Datum <i>Date</i></p> <p>Name/Stellung <i>Name/Position</i></p> <p>Unterschrift <i>Signature</i></p> </div> </div>		
Sonstiges/ Other Aspects:	The tested product fulfils Annex II.1 and Annex III of (EU) 2015/1188.	
Abkürzungen:	<i>P(ass) = entspricht Prüfgrundlage</i> <i>= entspricht nicht Prüfgrundlage N/A</i> <i>nicht anwendbar</i> <i>N/T = nicht getestet</i>	Abbreviations: <i>P(ass) = passed</i> <i>= failed</i> <i>= not applicable</i> <i>N/T = not tested</i>
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i></p>		

TEST REPORT Commission Regulation (EU) 2015/1188 implementing Directive 2009/125/EC with regard to ecodesign requirement for local space heater Annex II.1&III	
Test item description:	Oil-filled radiator
Trade Mark:	N/A
Model/Type reference:	HDB-C1-w, HDB-C2-w; HDB-a-u; HDB-b-u, HDB-b-Fv; HDB-c-u, HDB-c-Tu, HDB-c-Fv, HDB-c-FTv, HDB-D7-u (a=D3, D4, D5, D6, A5, A6, E1, E3, F1, F2, F3, B1, B2, B3, b=A3, A7, A11, A12; c=D1, D2, A1; w=5,7,9,11; u=v=5,7,9,11,13)
Rated Voltage/Frequency/power.....:	AC220-240V 50-60Hz 500W: Models with w=5, 700W: Models with w=7, 1000W: Models with w=9 or 11; 1000W: Models with u=5, 1500W: Models with u=7, 2000W: Models with u=9, 2500W: Models with u=11 or 13; 1400W: Models with v=5, 1900W: Models with v=7, 2400W: Models with v=9, 2900W: Models with v=11 or 13
Testing	
Date of receipt of test item	2017-10-31
Date (s) of performance of tests	2017-11-10 to 2017-11-13
General remarks: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma (point) is used as the decimal separator. This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with prior written permission of TÜV Rheinland. This report sets forth findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the sample and information that provided. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification	
Factory: Same as applicant	

Possible test case verdicts:

- test case does not apply to the test object..... N/A
- test object does meet the requirement..... P(Pass)
- test object does not meet the requirement..... F(Fail)

General product information/photos:

The product is portable heater with adjustable thermostat for household indoor use only.
The resistive heat element is incorporated in this product.
The difference between these models are control panel, rated power input and length size.

Model	Thermostat	Nominal heat output/ Maximum continuous heat output(KW)	Minimum heat output (indicative) (KW)	Maximum continuous heat output ($P_{max,c}$) (KW)	At nominal heat Output ($e_{l_{max}}$)(KW)	At minimum heat output ($e_{l_{min}}$)(KW)
HDB-C1-5 HDB-C2-5	✓	0.5	N/A	0.5	0.488	N/A
HDB-C1-7 HDB-C2-7	✓	0.7	N/A	0.7	0.687	N/A
HDB-C1-9or11 HDB-C2-9or11	✓	1.0	N/A	1.0	0.947	N/A
HDB-a-5 HDB-b-5 HDB-c-5 HDB-D7-5	✓	1.0	0.4	1.0	0.981	0.375
HDB-a-7 HDB-b-7 HDB-c-7 HDB-D7-7	✓	1.5	0.6	1.5	1.455	0.589
HDB-a-9 HDB-b-9 HDB-c-9 HDB-D7-9	✓	2.0	0.8	2.0	1.958	0.783
HDB-a-11or13 HDB-b-11or13 HDB-c-11or13 HDB-D7-11or13	✓	2.5	1.0	2.5	2.468	0.959
HDB-b-F5	✓	1.4	0.4	1.4	1.345	0.375
HDB-b-F7	✓	1.9	0.6	1.9	1.882	0.589
HDB-b-F9	✓	2.4	0.8	2.4	2.354	0.783

HDB-b-F11or13	✓	2.9	1.0	2.9	2.876	0.959
HDB-c-T5	✓	1.0	0.4	1.0	0.981	0.357
HDB-c-T7	✓	1.5	0.6	1.5	1.455	0.589
HDB-c-T9	✓	2.0	0.8	2.0	1.958	0.783
HDB-c-T11or13	✓	2.5	1.0	2.5	2.468	0.959
HDB-c-F5	✓	1.4	0.4	1.4	1.345	0.375
HDB-c-F7	✓	1.9	0.6	1.9	1.882	0.589
HDB-c-F9	✓	2.4	0.8	2.4	2.354	0.783
HDB-c-F11or13	✓	2.9	1.0	2.9	2.876	0.959
HDB-c-FT5	✓	1.4	0.4	1.4	1.345	0.375
HDB-c-FT7	✓	1.9	0.6	1.9	1.882	0.589
HDB-c-FT9	✓	2.4	0.8	2.4	2.354	0.783
HDB-c-FT11or13	✓	2.9	1.0	2.9	2.876	0.959

a=D3, D4, D5, D6, A5, A6, E1, E3, F1, F2, F3, B1, B2, B3, b=A3, A7, A11, A12; c=D1, D2, A1;
w=5,7,9,11; u=v=5,7,9,11,13

Item	Symbol	Value	Unit	Item	Unit
Heat output				Type of heat input, for electric storage local space heaters only (select one)	
Nominal heat output	P_{nom}	See page 3-4	KW	manual heat charge control, with integrated thermostat	Not applicable
Minimum heat output (indicative)	P_{min}	See page 3-4	KW	manual heat charge control with room and/or outdoor temperature feedback	Not applicable
Maximum continuous heat output	$P_{max,c}$	See page 3-4	KW	electronic heat charge control with room and/or outdoor temperature feedback	Not applicable
Auxiliary electricity consumption				fan assisted heat output	Not applicable
At nominal heat output	el_{max}	See page 3-4	KW	Type of heat output/room temperature control (select one)	
At minimum heat output	el_{min}	See page 3-4	KW	single stage heat output and no room temperature control	[no]
In standby mode	el_{SB}	N/A	KW	Two or more manual stages, no room temperature control	[no]
				with mechanic thermostat room temperature control	[yes]
				with electronic room temperature control	[no]
				electronic room temperature control plus day timer	[no]
				electronic room temperature control plus week timer	[no]
				Other control options (multiple selections possible)	
				room temperature control, with presence detection	[no]
				room temperature control, with open window detection	[no]
				with distance control option	[no]
				with adaptive start control	[no]
				with working time limitation	[no]
				with black bulb sensor	[no]
Contact details	Cixi Haidebao Electrical Appliance Co., Ltd. No.703, Guanfu Road, Fuhai Town, Cixi City, Zhejiang, 315332 P.R. China				

Above information declared by client and to be provided in user manual.

Photos of Test Samples



HDB-C1-w
(w=5,7,9,11)



HDB-C2-w
(w=5,7,9,11)



HDB-D3-u
(u=5,7,9,11,13)



HDB-D4-u
(u=5,7,9,11,13)



HDB-D5-u
(u=5,7,9,11,13)



HDB-D6-u
(u=5,7,9,11,13)



HDB-A5-u
(u=5,7,9,11,13)



HDB-A6-u
(u=5,7,9,11,13)



HDB-E1-u
(u=5,7,9,11,13)



HDB-F1-u
(u=5,7,9,11,13)



HDB-F2-u
(u=5,7,9,11,13)



HDB-F3-u
(u=5,7,9,11,13)



HDB-B1-u
(u=5,7,9,11,13)



HDB-B2-u
(u=5, 7,9,11,13)



HDB-B3-u
(u=5,7,9, 11, 13)



HDB-A7-u,
HDB-A7-Fv,
(u=v=5,7,9,11,13)



HDB-A11-u
(u=5,7,9,11,13)



HDB-A11-Fv
(v=5,7,9,11,13)



HDB-A12-u
(u=5,7,9,11,13)



HDB-A12-Fv
(v=5,7,9,11,13)



HDB-D1-u
(u=5,7,9,11,13)



HDB-D1-Tu
(u=5,7,9,11,13)



HDB-D1-Fv
(v=5,7,9,11,13)



HDB-D1-FTv
(v=5,7,9,11,13)



HDB-D2-u
(u=5,7,9,11,13)



HDB-D2-Tu
(u=5,7,9,11,13)



HDB-D2-Fv
(v=5,7,9,11,13)



HDB-D2-FTv
(v=5,7,9,11,13)



HDB-A1-u
(u=5,7,9,11,13)



HDB-A1-Tu
(u=5,7,9,11,13)



HDB-A1-Fv
(v=5,7,9,11,13)



HDB-A1-TFv
(v=5,7,9,11,13)



HDB-D7-u (u=5,7,9,11,13)



HDB-E3-u(u=5,7,9,11,13)

Copy of marking plate:
Rating Label

Markng plates of other models are the same except model name and power input

HDB-D7-5
 AC220-240V 50-60Hz 1000W
 Cixi Haidebao Electrical Appliance Co., Ltd.
 No.703, Guanfu Road, Fuhai Town, Cixi City, Zhejiang, 315332 P.R. China


Summary of testing

Seasonal space heating energy efficiency	Limit	requirements
36.0%	≥36%	<input checked="" type="checkbox"/> Annex II.1 and III referred in (EU) 2015/1188

All test items: **Pass**

(EU) 2015/1188			
Clause	Requirement - Test	Result - Remark	Verdict

ANNEX II of (EU) 2015/1188			
Ecodesign requirements			
1	Specific ecodesign requirements for seasonal space heating energy efficiency		P
(a)	Local space heaters shall comply with the following requirements from 1 January 2018		P
	(i) seasonal space heating energy efficiency of open fronted local space heaters using gaseous or liquid fuel shall not be less than 42 %;		N/A
	(ii) seasonal space heating energy efficiency of closed fronted local space heaters using gaseous or liquid fuel shall not be less than 72 %;		N/A
	(iii) seasonal space heating energy efficiency of electric portable local space heaters shall not be less than 36 %;	Portable oil-filled radiator	P
	(iv) seasonal space heating energy efficiency of electric fixed local space heaters with a nominal heat output above 250 W shall not be less than 38 %;		N/A
	(v) seasonal space heating energy efficiency of electric fixed local space heaters with a nominal heat output equal or below 250 W shall not be less than 34 %;		N/A
	(vi) seasonal space heating energy efficiency of electric storage local space heaters shall not be less than 38,5 %;		N/A
	seasonal space heating energy efficiency of electric underfloor local space heaters shall not be less than 38 %;		N/A
	seasonal space heating energy efficiency of electric radiant local space heaters shall not be less than 35 %;		N/A
	seasonal space heating energy efficiency of electric visibly glowing radiant local space heaters with a nominal heat output above 1,2 kW shall not be less than 35 %;		N/A
	seasonal space heating energy efficiency of electric visibly glowing radiant local space heaters with a nominal heat output equal or below 1,2 kW shall not be less than 31 %;		N/A
	seasonal space heating energy efficiency of luminous local space heaters shall not be less than 85 %;		N/A
	seasonal space heating energy efficiency of tube local space heaters shall not be less than 74 %.		N/A
2.	Specific ecodesign requirements for emissions		N/A

(EU) 2015/1188			
Clause	Requirement - Test	Result - Remark	Verdict
(a)	From 1 January 2018 emissions of nitrogen oxides (NO _x) from liquid and gaseous fuel local space heaters shall not exceed the following values:	Other than liquid and gaseous fuel heater	N/A
	(i)emissions of NO _x by open fronted local space heaters and closed fronted local space heaters using gaseous or liquid fuels shall not exceed 130 mg/kWhinput based on GCV;		N/A
	(ii)emissions of NO _x by luminous local space heaters and tube local space heaters shall not exceed 200 mg/kWhinput based on GCV.		N/A
ANNEX III of (EU) 2015/1188			
1	Measurements and calculations	Remark	verdict
	For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published for this purpose in the <i>Official Journal of the European Union</i> , or using other reliable, accurate and reproducible methods that take into account the generally recognised state-of-the-art methods. They shall meet the conditions set out in points 2 to 5.		P
2	General conditions for measurements and calculations		-
(a)	Declared values for nominal heat output and seasonal space heating energy efficiency shall be rounded to the nearest one decimal place.		P
(b)	Declared values for emissions shall be rounded to the nearest integer.		P
3	General conditions for seasonal space heating energy efficiency		-
(a)	The seasonal space heating energy efficiency (η_S) shall be calculated as the seasonal space heating energy efficiency in active mode ($\eta_{S,on}$), corrected by contributions accounting for heat storage and heat output control, auxiliary electricity consumption and permanent pilot flame energy consumption.		P
(b)	The consumption of electricity shall be multiplied by a conversion coefficient (CC) of 2,5.	2.5	P
4	General conditions for emissions		-
(a)	For gaseous and liquid fuel local space heaters the measurement shall take account of emissions of nitrogen oxides (NO _x). Emissions of nitrogen oxides shall be calculated as the sum of nitrogen monoxide and nitrogen dioxide, and expressed in nitrogen		N/A

(EU) 2015/1188			
Clause	Requirement - Test	Result - Remark	Verdict
	dioxide.		
5	Specific conditions for seasonal space heating energy efficiency		-
(a)	The seasonal space heating energy efficiency of all local space heaters except commercial local space heaters is defined as: $\eta_s = \eta_{s,on} - 10 \% + F(1) + F(2) + F(3) - F(4) - F(5)$	$\eta_s=36.0\%$	P
	The seasonal space heating energy efficiency of commercial local space heaters is defined as: $\eta_s = \eta_{s,on} - F(1) - F(4) - F(5)$		N/A
	Where:		-
	— $\eta_{s,on}$ is the seasonal space heating energy efficiency in active mode, expressed in %, calculated as set out in point 5(b);		P
	— $F(1)$ is a correction factor accounting for a positive contribution to the seasonal space heating energy efficiency of electric storage local space heaters due to adjusted contributions for options for heat storage and output; and a negative contribution to seasonal space heating efficiency for commercial local space heaters due to adjusted contributions for options for the heat output, expressed in %;	$F(1)=0$	P
	— $F(2)$ is a correction factor accounting for a positive contribution to the seasonal space heating energy efficiency due to adjusted contributions of controls of indoor heating comfort, the values of which are mutually exclusive, cannot be added to each other, expressed in %;		P
	— $F(3)$ is a correction factor accounting for a positive contribution to the seasonal space heating energy efficiency due to adjusted contributions of controls for indoor heating comfort the values of which can be added to each other, expressed in %;		P
	— $F(4)$ is a correction factor accounting for a negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption, expressed in %;		P
	— $F(5)$ is a correction factor accounting for a negative contribution to the seasonal space heating energy efficiency by energy consumption of a permanent pilot flame, expressed in %.		P
(b)	The seasonal space heating energy efficiency in active mode is calculated as:		P

(EU) 2015/1188			
Clause	Requirement - Test	Result - Remark	Verdict
	For all local space heaters except electric local space heaters and commercial local space heaters: $\eta_{S,on} = \eta_{th,nom}$		N/A
	For electric local space heaters: $\eta_{S,on} = \frac{1}{CC} \cdot \eta_{th,on}$		P
	For commercial local space heaters: $\eta_{S,on} = \eta_{S,th} \cdot \eta_{S,RF}$		N/A
	For tube local space heaters: $\eta_{S,th} = (0,15 \cdot \eta_{th,nom} + 0,85 \cdot \eta_{th,min}) - F_{env}$		N/A
	Table 4 Envelope loss factor of the heat generator		-
	Thermal transmittance of envelope (U)		N/A
	U ≤ 0,5	2,2 %	
	0,5 < U ≤ 1,0	2,4 %	
	1,0 < U ≤ 1,4	3,2 %	
	1,4 < U ≤ 2,0	3,6 %	
	U > 2,0	6,0 %	
	The emission efficiency of commercial local space heaters is calculated as follows: $\eta_{S,RF} = \frac{(0,94 \cdot RF_S) + 0,19}{(0,46 \cdot RF_S) + 0,45}$	Domestic use only	N/A
	Where:		N/A
	— RF_S is the radiant factor of the commercial local space heater, expressed in %.		N/A
	<i>For all commercial local space heaters except tube systems:</i>		N/A
	$RF_S = 0,15 \cdot RF_{nom} + 0,85 \cdot RF_{min}$		N/A
	Where: — RF_{nom} , is the radiant factor at nominal heat output, expressed in %; — RF_{min} , is the radiant factor at minimum heat output, expressed in %.		N/A
	For tube systems:	Not tube type	N/A

(EU) 2015/1188			
Clause	Requirement - Test	Result - Remark	Verdict

	$RF_S = \sum_{i=1}^n (0,15 \cdot RF_{nom,i} + 0,85 \cdot RF_{min,i}) \cdot \frac{P_{heater,i}}{P_{system}}$		N/A
	<p>Where:</p> <ul style="list-style-type: none"> — $RF_{nom,i}$, is the radiant factor per tube segment at nominal heat output, expressed in %; — $RF_{min,i}$, is the radiant factor per tube segment at minimum heat output, expressed in %; — $P_{heater,i}$, is the heat output per tube segment, expressed in kW, based on GCV; — P_{system}, is the heat output of the complete tube system, expressed in kW, based on GCV. 		N/A
	<p>The above equation only applies if the construction of the burner, tubes and reflectors of the tube segment as applied in the tube system is identical to a single tube local space heater and the settings that determine the performance of a the tube segment are identical to those of a single tube local space heater.</p>		N/A
(c)	<p>The correction factor $F(1)$ accounting for a positive contribution to the seasonal space heating efficiency due to adjusted contributions of controls for heat input and output and if the heat is distributed through natural or fan assisted convection for electric storage local space heaters and a negative contribution for commercial local space heaters related to the capability of the product of regulating its heat output.</p>		P
	<p>For electric storage local space heaters the heat output correction factor $F(1)$ is calculated as follows:</p>		N/A
	<p>In case the product is equipped with one of the (mutually exclusive) options shown in table 5, the correction factor $F(1)$ shall be increased with the corresponding value of that option.</p>		N/A
	<p>Table 5 Correction factor $F(1)$ for electric storage local space heaters</p>		N/A
	<p>If the product is equipped with (only one option may apply):</p>	<p>$F(1)$ is increased by</p>	N/A
	<p>Manual heat charge control, with integrated thermostat</p>	<p>0,0 %</p>	
	<p>Manual heat charge control with room and/or outdoor temperature feedback</p>	<p>2,0 %</p>	
	<p>Electronic heat charge control with room and/or outdoor temperature feedback or controlled by energy</p>	<p>3,5 %</p>	

(EU) 2015/1188								
Clause	Requirement - Test				Result - Remark		Verdict	
	supplier							
	In case the heat output of the electric storage local space heater is assisted by a fan, an additional 1,5 % shall be added to $F(1)$.						N/A	
	For commercial local space heaters the heat output correction factor is calculated as follows:						N/A	
	Table 6 Correction factor $F(1)$ for commercial local space heaters						N/A	
	If the heat output control type of the products is:	$F(1)$ is calculated as:					N/A	
	Single stage	$F(1) = 5 \%$					N/A	
	Two stage	$F(1) = 5 \% - \left(2,5 \% \cdot \frac{P_{nom} - P_{min}}{30 \% \cdot P_{nom}} \right)$					N/A	
	Modulating	$F(1) = 5 \% - \left(5,0 \% \cdot \frac{P_{nom} - P_{min}}{40 \% \cdot P_{nom}} \right)$					N/A	
	The minimum value of the correction factor $F(1)$ for two stage commercial local space heaters is 2,5 %, and for modulating commercial local space heaters is 5 %.						N/A	
	For local space heaters not being electric storage heaters or commercial local space heaters the correction factor $F(1)$ shall be 0 (zero).				$F(1)=0\%$		P	
(d)	The correction factor $F(2)$ accounting for a positive contribution to the seasonal space heating efficiency due to adjusted contributions of controls for indoor heating comfort, the values of which are mutually exclusive or cannot be added to each other, is calculated as follows:						P	
	For all local space heaters the correction factor $F(2)$ is equal to one of the factors according to Table 7, depending on which control characteristic applies. Only one value can be selected.						P	
	Table 7 Correction factor $F(2)$				$F(2)=6.0\%$		P	
	If the product is equipped with (only one option may apply):	$F(2)$					for local space heaters using gaseous or liquid fuels	-
		for electric local space heaters						
		Portable	Fixed	Storage	Under floor	Radiant		
	Single stage heat output, no room temperature control	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	

(EU) 2015/1188								
Clause	Requirement - Test	Result - Remark						Verdict
	Two or more manual stages, no temperature control	1,0 %	0,0 %	0,0 %	0,0 %	2,0 %	1,0 %	
	With mechanic thermostat room temperature control	<u>6,0 %</u>	1,0 %	0,5 %	1,0 %	1,0 %	2,0 %	
	With electronic room temperature control	7,0 %	3,0 %	1,5 %	3,0 %	2,0 %	4,0 %	
	With electronic room temperature control plus day timer	8,0 %	5,0 %	2,5 %	5,0 %	3,0 %	6,0 %	
	With electronic room temperature control plus week timer	9,0 %	7,0 %	3,5 %	7,0 %	4,0 %	7,0 %	
	The $F(2)$ correction factor does not apply to commercial local space heaters.							N/A
(e)	The correction factor $F(3)$ accounting for a positive contribution to the seasonal space heating efficiency due to adjusted contributions of controls for indoor heating comfort, the values of which can be added to each other, is calculated as follows:							P
	For all local space heaters the correction factor $F(3)$ is the summation of the values according to Table 8, depending on which control characteristic(s) applies.						None of function in table 2	P
	Table 8 Correction factor $F(3)$						$F(3)=0\%$	P
	If the product is equipped with (multiple options may apply):	F(3)						-
		for electric local space heaters					for local space heaters using gaseous or liquid fuels	
		Portabl e	Fixed	Storag e	Underfl oor	Radian t		
	Room temperature control with presence detection	1,0 %	0,0 %	0,0 %	0,0 %	2,0 %	1,0 %	
	Room temperature control with open window detection	1,0 %	1,0 %	0,5 %	1,0 %	1,0 %	1,0 %	
	With distance control option	0,0 %	1,0 %	0,5 %	1,0 %	1,0 %	1,0 %	

(EU) 2015/1188								
Clause	Requirement - Test	Result - Remark						Verdict
	With adaptive start control	0,0 %	1,0 %	0,5 %	1,0 %	0,0 %	0,0 %	
	With working time limitation	0,0 %	0,0 %	0,0 %	0,0 %	1,0 %	0,0 %	
	With black bulb sensor	0,0 %	0,0 %	0,0 %	0,0 %	1,0 %	0,0 %	
(f)	The auxiliary electricity use correction factor $F(4)$ is calculated as:							P
	This correction factor takes into account the auxiliary electricity use during on-mode and standby-mode operation.							P
	For electric local space heaters the correction is calculated as follows:							P
	The auxiliary electricity use correction factor $F(4)$ is calculated as: $F(4) = CC \cdot \frac{\alpha \cdot el_{sb}}{P_{nom}} \cdot 100[\%]$							P
	Where: — el_{sb} is the standby electric power consumption, expressed in kW; — P_{nom} is the nominal heat output of the product, expressed in kW; — α is a factor taking into account whether the product complies with Commission Regulation (EC) No 1275/2008 (1): — if the product complies with the limit values set in Regulation (EC) No 1275/2008, α is by default 0 (zero), — if the product does not comply with the limit values set in Regulation (EC) No 1275/2008, α is by default 1,3.						F(4)= 0.0% Standby mode: N/A Off mode: 0.000W Power Management function: N/A Product comply with No 1275/2008	P
	For local space heaters using gaseous or liquid fuels the auxiliary electricity use correction is calculated as follows: $F(4) = CC \cdot \frac{0,2 \cdot el_{max} + 0,8 \cdot el_{min} + 1,3 \cdot el_{sb}}{P_{nom}} \cdot 100[\%]$							N/A
	Where: — el_{max} is the electric power consumption at nominal heat output, expressed in kW; — el_{min} is the electric power consumption at minimum heat output, expressed in kW. In case the product does not offer a minimum heat output the value for the electric power consumption at nominal heat output shall be used; — el_{sb} is the electric power consumption of the product while in standby mode, expressed in kW; — P_{nom} is the nominal heat output of the product,							-

(EU) 2015/1188			
Clause	Requirement - Test	Result - Remark	Verdict
	expressed in kW.		
	For commercial local space heaters the auxiliary electricity use correction factor is calculated as follows: $F(4) = CC \cdot \frac{0,15 \cdot e_{l_{max}} + 0,85 \cdot e_{l_{min}} + 1,3 \cdot e_{l_{pb}}}{P_{nom}} \cdot 100[\%]$		N/A
(g)	The correction factor $F(5)$ related to the energy consumption of a permanent pilot flame is calculated as follows:	$F(5)=0\%$	P
	This correction factor takes into account the permanent pilot flame power requirement.	No pilot flame	N/A
	For local space heaters using gaseous or liquid fuels it is calculated as: $F(5) = 0,5 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100[\%]$		N/A
	Where: — P_{pilot} is the pilot flame consumption, expressed in kW; — P_{nom} is the nominal heat output of the product, expressed in kW.		N/A
	For commercial local space heaters the correction factor is calculated as: $F(5) = 4 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100[\%]$		N/A
	In case the product has no permanent pilot light (flame) P_{pilot} is 0 (zero).		N/A
	Where: — P_{pilot} is the pilot flame consumption, expressed in kW; — P_{nom} is the nominal heat output of the product, expressed in kW.		N/A

Equipment used for measurements

Equipment	Manufacturer	Type	ID	Calibration valid till
Power Meter	ZIMMER	LMG95	1.386	2018-03-22
Power Source	APC	AFC31010T	2.182	N/A

----- END OF TEST REPORT -----