

Model identifier(s): LD-468C								
Indirect heating functionality: [no]								
Direct heat output: 4.2 (kW)								
Indirect heat output: NA (kW)								
Fuel						Space heating emissions (*)		
						NOx		
Select fuel type		[gaseous]		G30/G31		22.5 [mg/ kWh _{input}] (GCV)		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Heat output				Useful efficiency (NCV)				
Nominal heat output	P _{nom}	4.2	kW		Useful efficiency at nominal heat output	η _{th,nom}	100	%
Minimum heat output (indicative)	P _{min}	1.54	kW		Useful efficiency at minimum heat output (indicative)	η _{th,min}	100	%
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)				
At nominal heat output	e _{lmax}	NA	kW		Single stage heat output, no room temperature control		[no]	
At minimum heat output	e _{lmin}	NA	kW		two or more manual stages, no room temperature control		[yes]	
In standby mode	e _{lSB}	NA	kW		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]	
				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]	
Permanent pilot flame power requirement								
Pilot flame power requirement (if applicable)	P _{pilot}	0.19	kW					
Contact details	Jiasheng (Zhongshan) Electrical Appliance Co., Ltd							
(*) NOx = nitrogen oxides								

This product is not suitable for primary heating purposes

The energy efficiency class: Class A

The direct heat output: 4.2kW

The energy efficiency index: EEI=88.74%,

Please refer to the instruction manual for the assembly, installation, maintenance, disassembly, recycling and/ or disposal at end-of-life.

Test Report

COMMISSION REGULATION (EU) 2015/1188 of 28 April 2015

implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for local space heaters

COMMISSION DELEGATED REGULATION (EU) 2015/1186 of 24 April 2015

supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of local space heaters

Report Reference No. : SDHL1801000884GA

Checked by (name + signature) : Miracle Zhan

Miracle

Approved by (name + signature) : Snow Zhang

Snow

Date of issue..... : 2018-03-15

This report is based on a blank test report that was prepared by SGS using information obtained from the TRF originator (see below).

Testing Laboratory : SGS – CSTC Standards Technical Services Co., Ltd. Shunde Branch Hardlines.
1st Floor, Building 1 of European Industrial Park, No.1 Shunhenan Road, Wusha Section, Daliang Town, Shunde of Foshan, Guangdong Province, China. 528333

Applicant's name : Jiasheng (Zhongshan) Electrical Appliance Co., Ltd

Address : No. 19, 3rd Road, Aiguo Gongye Qu, Sanjiao Town, Zhongshan City, Guangdong Province, China

Manufacturing site..... : ---

Test item description : Gas heater

Model and/or type reference : LD-468A, LD-468B, LD-468C, LD-468D, LD-468E, LD-468G, LD-468J, BL-568A, BL-568B, BL-568C, BL-568D, LD-568A, LD-568B, LD-568C, LD-568D

Ratings : 4.2 kW

Appliance categories..... : I_{3B/P(30)}; I_{3+(28~30/37)}; I_{3B/P(37)}; I_{3B/P(50)}

Gas supply pressures : (28~30)mbar; (28~30)/37mbar, 37mbar, 50mbar

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Test specification..... :

Standard : COMMISSION REGULATION (EU) 2015/1188,
COMMISSION DELEGATED REGULATION (EU) 2015/1168

Test procedure : Type test

Non-standard test method : NA

Test Report Form No :	
TRF Originator..... :	SGS – CSTC
Master TRF..... :	Dated 2017-10
Possible test case verdicts :	
Test case does not apply to the test object..... NA	
Test case is not carried out to the test object: N/T	
Test object does meet the requirement..... Pass (P)	
Test object does not meet the requirement Fail (F)	
Testing :	
Date of receipt of test item :	2018-01-08
Date (s) of performance of tests :	2018-01-08 ~ 2018-02-28
General remarks: <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(see Enclosure #)" refers to additional information appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p> <p>This document is issued by the company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.</p> <p>Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.</p> <p>Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 3 months. This document cannot be reproduced except in full, without prior approval of the company.</p>	

Summary of the product and the test report:

These appliances are gas flueless room heaters for household indoor use.

As the applicant's requirement, LD-468A was conducted tests based on $I_{3B/P(37)}$ and $I_{3B/P(50)}$, and LD-468C was conducted tests based on $I_{3B/P(30)}$ and $I_{3+(28-30/37)}$.

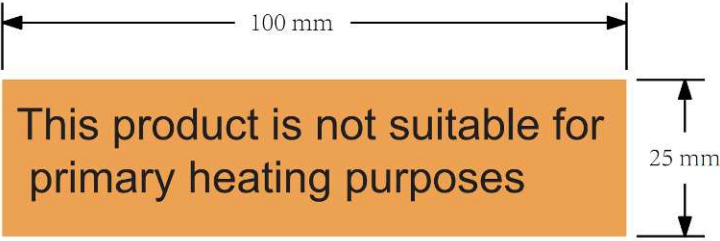
This test report includes the following:

1. Test equipment and apparatus
2. Test table
3. Annex test tables
4. The photo documents

Test equipment and apparatus				
Instruments Name	Type/Model	Equipment No.	Measuring Range	Uncertainty of measurement
Digital Caliper	(0~300) mm	SD-HG-E459	(0~300) mm	U=0.02mm, (k=2)
Pressure Gauge	/	SD-HG-E275A	0~60kPa	U=1.0%, (k=2)
Air Leakage Tester	FL-295CS-R	SD-HG-E219	---	Urel=0.4% FS(k=2)
Gas Chromatograph	7890A	SD-HG-E221	---	Temp:0.2°C, Sensitivity: 4.1%, (k=2)
Stop watch	PC894	SD-HG-E473	---	U=0.06, (k=2)
Wet Gas Flowmeter	W-NK-1A	SD-HG-E226	0.033~10L/min (2~600L/h)	U=0.7%, (k=2)
Testo 350-S Combustion Analyzer	350-S	SD-HG-E227	O ₂ : 0%~25%; CO: 0~10000ppm CO ₂ : 0~25%	U=2%, (k=2)
Nitrogen oxides analyzer	CLD63	SD-HG-E368	0~500ppm	U=2.9%, (K=2)

COMMISSION REGULATION (EU) 2015/1188			
Clause	Requirement	Remark	Verdict
ANNEX II	Ecodesign requirements		
1.	Specific ecodesign requirements for seasonal space heating energy efficiency		
	(a) Local space heaters shall comply with the following requirements from 1 January 2018:		
	(i) seasonal space heating energy efficiency of open fronted local space heaters using gaseous or liquid fuel shall not be less than 42 %;		P
	(ii) seasonal space heating energy efficiency of closed fronted local space heaters using gaseous or liquid fuel shall not be less than 72 %;		NA
	(iii) seasonal space heating energy efficiency of electric portable local space heaters shall not be less than 36 %;		NA
	(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 %;		NA
	(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 %;		NA
	(vi) seasonal space heating energy efficiency of electric storage local space heaters shall not be less than 38,5 %;		NA
	(vii) seasonal space heating energy efficiency of electric underfloor local space heaters shall not be less than 38 %;		NA
	(viii) seasonal space heating energy efficiency of electric radiant local space heaters shall not be less than 35 %;		NA
	(ix) 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 %;		NA
	(x) 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 %;		NA
	(xi) seasonal space heating energy efficiency of luminous local space heaters shall not be less than 85 %; (xii) seasonal space heating energy efficiency of tube local space heaters shall not be less than 74 %.		NA
2.	Specific ecodesign requirements for emissions		
	(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:		
	(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/kWh _{input} based on GCV;	See annex table 1	P

COMMISSION REGULATION (EU) 2015/1188			
Clause	Requirement	Remark	Verdict
	(ii) emissions of NO _x by luminous local space heaters and tube local space heaters shall not exceed 200 mg/kWh _{input} based on GCV.		NA
3.	Requirements for product information		
(a)	From 1 January 2018 the following product information on local space heaters shall be provided:		
	(i) the instruction manuals for installers and end-users, and free access websites of manufacturers, their authorised representatives and importers shall contain the following elements:		
	(1) for gaseous or liquid fuel local space heaters, the information set out in Table 1, with its technical parameters measured and calculated in accordance with Annex III and showing the significant figures indicated in the table;	See annex table 1	P
	(2) for electric local space heaters, the information set out in Table 2, with its technical parameters measured and calculated in accordance with Annex III and showing the significant figures indicated in the table;		NA
	(3) for commercial local space heaters, the information set out in Table 3, with its technical parameters measured and calculated in accordance with Annex III and showing the significant figures indicated in the table;		NA
	(4) any specific precautions that must be taken when the local space heater is assembled, installed or maintained;		P
	(5) information relevant to disassembly, recycling and/or disposal at end-of-life;		P
	(ii) the technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain the following elements:		
	(1) the elements specified in point (a);		P
	(2) a list of all equivalent models, if applicable.		P
(b)	From 1 January 2018 the following product information on local space heaters shall be provided:		
	(i) for flueless local space heaters and open to chimney local space heaters only: the instruction manual for end- users, free access websites of manufacturers and the product packaging shall incorporate the following sentence in such a way to ensure clear visibility and legibility and in a language easily understood by the end- users of the Member State where the product is marketed: 'This product is not suitable for primary heating purposes';	See below warning label	P

COMMISSION REGULATION (EU) 2015/1188			
Clause	Requirement	Remark	Verdict
	(1) for the instruction manual for end-users this sentence shall be on the cover page of the manual;	See below warning label	P
			
	(2) for free-access websites of manufacturers this sentence shall be displayed together with the other characteristics of the product;	Not check	NT
	(3) for the product packaging the sentence shall be placed in a prominent position in the packaging when displayed to the end-user prior to purchase.	See above warning label	P
	(ii) for electric portable local space heaters only: the instruction manual for end-users, free access websites of manufacturers and the product packaging shall incorporate the following sentence in such a way to ensure clear visibility and legibility and in a language easily understood by the end-users of the Member State where the product is marketed: 'This product is only suitable for well insulated spaces or occasional use.'		NA
	(1) for the instruction manual for end-users this sentence shall be on the cover page of the manual;		NA
	(2) for free-access websites of manufacturers this sentence shall be displayed together with the other characteristics of the product;		NA
	(3) for the product packaging the sentence shall be placed in a prominent position in the packaging when displayed to the end-user prior to purchase.		NA
ANNEX III	Measurements and calculations		
1	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 Official Journal of the European Union, 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.	EN 449: 2002 + A1:2007	P

COMMISSION REGULATION (EU) 2015/1188			
Clause	Requirement	Remark	Verdict
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.		NA
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 dioxide.	See annex table 1	P
5.	Specific conditions for seasonal space heating energy efficiency		

COMMISSION REGULATION (EU) 2015/1188			
Clause	Requirement	Remark	Verdict
(a)	<p>The seasonal space heating energy efficiency of all local space heaters except commercial local space heaters is defined as:</p> $\eta_S = \eta_{S,on} - 10 \% + F(1) + F(2) + F(3) - F(4) - F(5)$ <p>Where:</p> <ul style="list-style-type: none"> — $\eta_{S,on}$ is the seasonal space heating energy efficiency in active mode, expressed in %, calculated as set out in point 5(b); — 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(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 %; — 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 %; — F(4) is a correction factor accounting for a negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption, expressed in %; — 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 %. 	88.74%	P
(b)	The seasonal space heating energy efficiency in active mode is calculated as:		
	<p>For all local space heaters except electric local space heaters and commercial local space heaters:</p> $\eta_{S,on} = \eta_{th,nom}$ <p>Where:</p> <ul style="list-style-type: none"> — $\eta_{th,nom}$ is the useful efficiency at nominal heat output, based on NCV. 		P

COMMISSION REGULATION (EU) 2015/1188											
Clause	Requirement	Remark	Verdict								
(c)	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.		NA								
	<p>For electric storage local space heaters the heat output correction factor F(1) is calculated as follows:</p> <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> <p>Table 5 Correction factor F(1) for electric storage local space heaters</p> <table><tr><td>If the product is equipped with (only one option may apply):</td><td>F(1) is increased by</td></tr><tr><td>Manual heat charge control, with integrated thermostat</td><td>0,0 %</td></tr><tr><td>Manual heat charge control with room and/or outdoor temperature feedback</td><td>2.0 %</td></tr><tr><td>Electronic heat charge control with room and/or outdoor temperature feedback or controlled by energy supplier</td><td>3,5 %</td></tr></table>	If the product is equipped with (only one option may apply):	F(1) is increased by	Manual heat charge control, with integrated thermostat	0,0 %	Manual heat charge control with room and/or outdoor temperature feedback	2.0 %	Electronic heat charge control with room and/or outdoor temperature feedback or controlled by energy supplier	3,5 %		NA
If the product is equipped with (only one option may apply):	F(1) is increased by										
Manual heat charge control, with integrated thermostat	0,0 %										
Manual heat charge control with room and/or outdoor temperature feedback	2.0 %										
Electronic heat charge control with room and/or outdoor temperature feedback or controlled by energy supplier	3,5 %										
	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).		NA								
	For commercial local space heaters the heat output correction factor is calculated as follows: Table 6		NA								
	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 %.		NA								
	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								

COMMISSION REGULATION (EU) 2015/1188

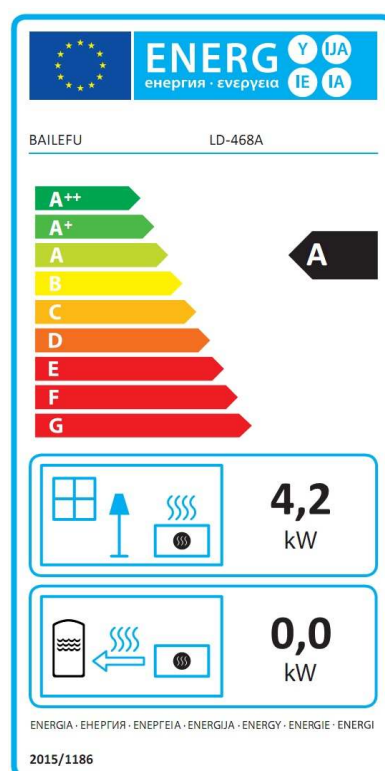
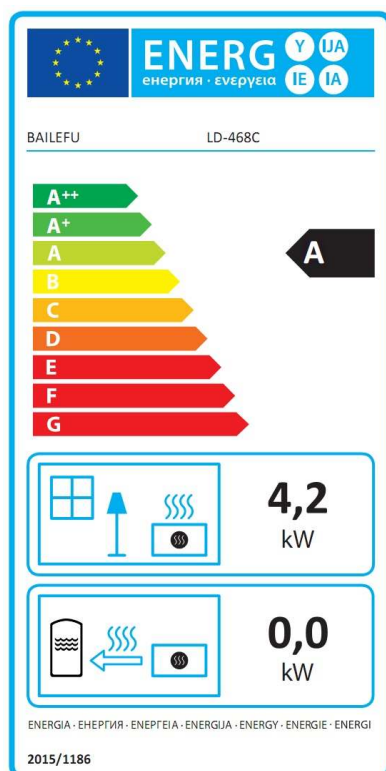
Clause	Requirement	Remark	Verdict																																																												
(d)	<p>The correction factor F(2) accounting for a positive contribution to the seasonal space heating efficiency due to adjusted contributions of controls for indoor heating comfort, the values of which are mutually exclusive or cannot be added to each other, is calculated as follows:</p> <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> <p>Table 7 Correction factor F(2)</p> <table><tr><th rowspan="3">If the product is equipped with (only one option may apply):</th><th colspan="6">F(2)</th></tr><tr><th colspan="5">for electric local space heaters</th><th rowspan="2">for local space heaters using gaseous or liquid fuels</th></tr><tr><th>Portable</th><th>Fixed</th><th>Storage</th><th>Underfloor</th><th>Radiant</th></tr><tr><td>Single stage heat output, no room temperature control</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td></tr><tr><td>Two or more manual stages, no temperature control</td><td>1,0 %</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>2,0 %</td><td>1,0 %</td></tr><tr><td>With mechanic thermostat room temperature control</td><td>6,0 %</td><td>1,0 %</td><td>0,5 %</td><td>1,0 %</td><td>1,0 %</td><td>2,0 %</td></tr><tr><td>With electronic room temperature control</td><td>7,0 %</td><td>3,0 %</td><td>1,5 %</td><td>3,0 %</td><td>2,0 %</td><td>4,0 %</td></tr><tr><td>With electronic room temperature control plus day timer</td><td>8,0 %</td><td>5,0 %</td><td>2,5 %</td><td>5,0 %</td><td>3,0 %</td><td>6,0 %</td></tr><tr><td>With electronic room temperature control plus week timer</td><td>9,0 %</td><td>7,0 %</td><td>3,5 %</td><td>7,0 %</td><td>4,0 %</td><td>7,0 %</td></tr></table>	If the product is equipped with (only one option may apply):	F(2)						for electric local space heaters					for local space heaters using gaseous or liquid fuels	Portable	Fixed	Storage	Underfloor	Radiant	Single stage heat output, no room temperature control	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	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	6,0 %	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 %	F(2)=1,0%	P
If the product is equipped with (only one option may apply):	F(2)																																																														
	for electric local space heaters					for local space heaters using gaseous or liquid fuels																																																									
	Portable	Fixed	Storage	Underfloor	Radiant																																																										
Single stage heat output, no room temperature control	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %																																																									
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	6,0 %	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.		NA																																																												

COMMISSION REGULATION (EU) 2015/1188																																																																																	
Clause	Requirement	Remark	Verdict																																																																														
(e)	<p>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> <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.</p> <p>Table 8 Correction factor F(3)</p> <table><tr><th rowspan="3">If the product is equipped with (multiple options may apply):</th><th colspan="6">F(3)</th></tr><tr><th colspan="5">for electric local space heaters</th><th rowspan="2">for local space heaters using gaseous or liquid fuels</th></tr><tr><th>Portable</th><th>Fixed</th><th>Storage</th><th>Underfloor</th><th>Radiant</th></tr><tr><td>Room temperature control with presence detection</td><td>1,0 %</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>2,0 %</td><td>1,0 %</td></tr><tr><td>Room temperature control with open window detection</td><td>0,0 %</td><td>1,0 %</td><td>0,5 %</td><td>1,0 %</td><td>1,0 %</td><td>1,0 %</td></tr><tr><td>With distance control option</td><td>0,0 %</td><td>1,0 %</td><td>0,5 %</td><td>1,0 %</td><td>1,0 %</td><td>1,0 %</td></tr></table> <table><tr><th rowspan="3">If the product is equipped with (multiple options may apply):</th><th colspan="6">F(3)</th></tr><tr><th colspan="5">for electric local space heaters</th><th rowspan="2">for local space heaters using gaseous or liquid fuels</th></tr><tr><th>Portable</th><th>Fixed</th><th>Storage</th><th>Underfloor</th><th>Radiant</th></tr><tr><td>With adaptive start control</td><td>0,0 %</td><td>1,0 %</td><td>0,5 %</td><td>1,0 %</td><td>0,0 %</td><td>0,0 %</td></tr><tr><td>With working time limitation</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>1,0 %</td><td>0,0 %</td></tr><tr><td>With black bulb sensor</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>0,0 %</td><td>1,0 %</td><td>0,0 %</td></tr></table>	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	Portable	Fixed	Storage	Underfloor	Radiant	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	0,0 %	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 %	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	Portable	Fixed	Storage	Underfloor	Radiant	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(3)=0	NA
	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																																																																									
		Portable	Fixed	Storage	Underfloor	Radiant																																																																											
	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	0,0 %	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 %																																																																										
	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																																																																										
		Portable	Fixed	Storage	Underfloor	Radiant																																																																											
	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:	F(4)=0	NA																																																																														
(g)	The correction factor F(5) related to the energy consumption of a permanent pilot flame is calculated as follows:																																																																																
	<p>This correction factor takes into account the permanent pilot flame power requirement.</p> <p>For local space heaters using gaseous or liquid fuels it is calculated as:</p> $F(5) = 0,5 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100[\%]$ <p>Where:</p> <ul style="list-style-type: none">— P_{pilot} is the pilot flame consumption, expressed in kW;— P_{nom} is the nominal heat output of the product, expressed in kW.		P																																																																														
	<p>For commercial local space heaters the correction factor is calculated as:</p> $F(5) = 4 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100[\%]$		NA																																																																														

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Clause	Requirement	Remark	Verdict
ANNEX IV	Verification procedure for market surveillance purposes		NA
ANNEX V	Indicative benchmarks referred to in Article 6		
	<p>At the time of entry into force of this Regulation, the best available technology on the market for local space heaters in terms of seasonal space heating energy efficiency and emissions of nitrogen oxides was identified as follows:</p> <ol style="list-style-type: none"> 1. Specific benchmarks for seasonal space heating energy efficiency of local space heaters <ol style="list-style-type: none"> a) benchmark for seasonal space heating energy efficiency of open fronted local space heaters using gaseous or liquid fuel: 65 %; b) benchmark for seasonal space heating energy efficiency of closed fronted local space heaters using gaseous or liquid fuel: 88 %; c) benchmark for seasonal space heating energy efficiency of electric local space heaters: more than 39 %; d) benchmark for seasonal space heating energy efficiency of luminous local space heaters: 92 %; e) benchmark for seasonal space heating energy efficiency of tube local space heaters: 88 %; 2. Specific benchmarks for emissions of nitrogen oxides (NO_x) by local space heaters <ol style="list-style-type: none"> a) benchmark for emissions of NO_x by local space heaters using gaseous or liquid fuel: 50 mg/kWh_{input} based on GCV; b) benchmark for emissions of NO_x by luminous local space heaters and tube local space heaters: 50 mg/kWh_{input} based on GCV. <p>The benchmarks specified in the points 1 and 2 do not necessarily imply that a combination of those values is achievable for a single local space heater.</p>		P

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Clause	Requirement – Test	Result - Remark	Verdict																				
ANNEX II	Energy efficiency classes																						
	The energy ffficiency class of a local space heater shall be determined on the basis of its energy efficiency index as set out in Table 1.																						
	<div> <div>Table 1</div> <div>Energy efficiency classes of local space heaters</div> <table> <tr> <th>Energy efficiency class</th> <th>Energy efficiency index (EEI)</th> </tr> <tr> <td>A++</td> <td>$EEI \geq 130$</td> </tr> <tr> <td>A+</td> <td>$107 \leq EEI < 130$</td> </tr> <tr> <td>A</td> <td>$88 \leq EEI < 107$</td> </tr> <tr> <td>B</td> <td>$82 \leq EEI < 88$</td> </tr> <tr> <td>C</td> <td>$77 \leq EEI < 82$</td> </tr> <tr> <td>D</td> <td>$72 \leq EEI < 77$</td> </tr> <tr> <td>E</td> <td>$62 \leq EEI < 72$</td> </tr> <tr> <td>F</td> <td>$42 \leq EEI < 62$</td> </tr> <tr> <td>G</td> <td>$EEI < 42$</td> </tr> </table> </div> <div> <p>The energy efficiency index of a local space heater shall be calculated in accordance with Annex VIII.</p> </div>	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	$EEI < 42$	Class A	P
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	$EEI < 42$																						
ANNEX III	The label																						
1	Local space heaters	See below labels	P																				



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Clause	Requirement – Test	Result - Remark	Verdict
ANNEX IV	Product fiche		
1	<p>The information in the product fiche of the local space heater shall be provided in the following order and shall be included in the product brochure or other literature provided with the product:</p> <ul style="list-style-type: none"> a) supplier's name or trademark; b) supplier's model identifier; c) the energy efficiency class of the model, determined in accordance with point 1 of Annex II; d) the direct heat output in kW, rounded to the nearest one decimal place; e) the indirect heat output in kW, rounded to the nearest one decimal place; f) the energy efficiency index, rounded to the nearest integer and calculated in accordance with Annex VIII; g) the useful energy efficiency at nominal heat output, and at minimum load if applicable, rounded to the nearest one decimal place and calculated in accordance with Annex VIII; h) any specific precautions that shall be taken when the local space heater is assembled, installed or maintained. 		P
2	One fiche may cover a number of local space heater models supplied by the same supplier.		P
3	The information contained in the fiche may be given in the form of a copy of the label, either in colour or in black and white. Where this is the case, the information listed in point 1 not already displayed on the label shall also be provided.		P
ANNEX V	Technical documentation		
	For local space heaters, the technical documentation referred to in Article 3(1)(e) and Article 3(2)(e) shall include:		
	<ul style="list-style-type: none"> a) the name and address of the supplier; b) the model identifier; c) where appropriate, the references of the harmonised standards applied; d) where the preferred fuel is other woody biomass, non-woody biomass, other fossil fuel or other blend of biomass and fossil fuel as referred to in Table 2, a description of the fuel sufficient for its unambiguous identification and the technical standard or specification of the fuel, including the measured moisture content and the measured ash content, and for other fossil fuel also the measured volatile content of the fuel; e) where appropriate, the other technical standards and 	See annex table 1	P

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Clause	Requirement – Test	Result - Remark	Verdict
	<p>specifications used;</p> <p>f) the identification and signature of the person empowered to bind the supplier;</p> <p>g) the information included in Table 2 (for solid fuel local space heaters) and Table 3 (for gaseous/liquid fuel local space heaters), measured and calculated in accordance with Annex VIII;</p> <p>h) reports of tests undertaken by suppliers or on their behalf, including the name and address of the body that conducted the tests;</p> <p>i) any specific precautions that shall be taken when the local space heater is assembled, installed or maintained;</p> <p>j) a list of equivalent models, if applicable.</p> <p>This information may be merged with the technical documentation provided in accordance with measures under Directive 2009/125/EC of the European Parliament and of the Council.</p>		
ANNEX VI	Information to be provided in cases where end-users cannot be expected to see the product displayed, except on the internet		
1	<p>The information referred to in Article 4(1)(b) shall be provided in the following order:</p> <p>a) the energy efficiency class of the model, determined in accordance with point 1 of Annex II;</p> <p>b) the direct heat output in kW, rounded to the nearest one decimal place;</p> <p>c) the indirect heat output in kW, rounded to the nearest one decimal place.</p>		P
2	The size and font in which the information referred in point 1 is printed or shown shall be legible.		P

Annex table 1-1 : Information requirements for gaseous/ liquid fuel local space heaters – $I_{3B/P(30)}$, $I_{3+}(28-30/37)$

Model identifier(s): LD-468C							
Indirect heating functionality: [no]							
Direct heat output: 4.2 (kW)							
Indirect heat output: NA (kW)							
Fuel						Space heating emissions (*)	
						NOx	
Select fuel type		[gaseous]		[specify]		22.5 [mg/ kWh _{input}] (GCV)	
Item	Symbol	Value	Unit		Item	Symbol	Value
Heat output				Useful efficiency (NCV)			
Nominal heat output	P _{nom}	4.2	kW		Useful efficiency at nominal heat output	$\eta_{th,nom}$	100
Minimum heat output (indicative)	P _{min}	1.54	kW		Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	100
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)			
At nominal heat output	eI _{max}	NA	kW		Single stage heat output, no room temperature control	[no]	
At minimum heat output	eI _{min}	NA	kW		two or more manual stages, no room temperature control	[yes]	
In standby mode	eI _{SB}	NA	kW		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]	
				Other control options (multiple selections possible)			
				room temperature control, with presence detection			
				Room temperature control, with open window detection			
				with distance control option			
				with adaptive start control			
				with working time limitation			
				with black bulb sensor			
Permanent pilot flame power requirement							
Pilot flame power requirement (if applicable)	P _{pilot}	0.19	kW				
Contact details	Jiasheng (Zhongshan) Electrical Appliance Co., Ltd No. 19, 3 rd Road, Aiguo Gongye Qu, Sanjiao Town, Zhongshan City, Guangdong Province, China						
(*) NOx = nitrogen oxides							

Annex table 1-2 : Information requirements for gaseous/ liquid fuel local space heaters – I_{3B/P}(37)

Model identifier(s): LD-468A							
Indirect heating functionality: [no]							
Direct heat output: 4.2 (kW)							
Indirect heat output: NA (kW)							
Fuel						Space heating emissions (*)	
						NOx	
Select fuel type		[gaseous]		[specify]		25.27 [mg/ kWh _{input}] (GCV)	
Item	Symbol	Value	Unit		Item	Symbol	Value
Heat output				Useful efficiency (NCV)			
Nominal heat output	P _{nom}	4.2	kW		Useful efficiency at nominal heat output	η _{th, nom}	100
Minimum heat output (indicative)	P _{min}	1.56	kW		Useful efficiency at minimum heat output (indicative)	η _{th, min}	100
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)			
At nominal heat output	e _{l max}	NA	kW		Single stage heat output, no room temperature control	[no]	
At minimum heat output	e _{l min}	NA	kW		two or more manual stages, no room temperature control	[yes]	
In standby mode	e _{l SB}	NA	kW		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]	
				Other control options (multiple selections possible)			
				room temperature control, with presence detection			
				Room temperature control, with open window detection			
				with distance control option			
				with adaptive start control			
				with working time limitation			
				with black bulb sensor			
Permanent pilot flame power requirement							
Pilot flame power requirement (if applicable)	P _{pilot}	0.19	kW				
Contact details	Jiasheng (Zhongshan) Electrical Appliance Co., Ltd No. 19, 3 rd Road, Aiguo Gongye Qu, Sanjiao Town, Zhongshan City, Guangdong Province, China						
(*) NOx = nitrogen oxides							

Annex table 1-3 : Information requirements for gaseous/ liquid fuel local space heaters – I_{3B/P(50)}

Model identifier(s): LD-468A							
Indirect heating functionality: [no]							
Direct heat output: 4.2 (kW)							
Indirect heat output: NA (kW)							
Fuel						Space heating emissions (*)	
						NOx	
Select fuel type		[gaseous]		[specify]		18.67 [mg/ kWh _{input}] (GCV)	
Item	Symbol	Value	Unit		Item	Symbol	Value
Heat output				Useful efficiency (NCV)			
Nominal heat output	P _{nom}	4.2	kW		Useful efficiency at nominal heat output	η _{th, nom}	100
Minimum heat output (indicative)	P _{min}	1.56	kW		Useful efficiency at minimum heat output (indicative)	η _{th, min}	100
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)			
At nominal heat output	e _{l max}	NA	kW		Single stage heat output, no room temperature control	[no]	
At minimum heat output	e _{l min}	NA	kW		two or more manual stages, no room temperature control	[yes]	
In standby mode	e _{l SB}	NA	kW		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]	
				Other control options (multiple selections possible)			
				room temperature control, with presence detection			
				Room temperature control, with open window detection			
				with distance control option			
				with adaptive start control			
				with working time limitation			
				with black bulb sensor			
Permanent pilot flame power requirement							
Pilot flame power requirement (if applicable)	P _{pilot}	0.19	kW				
Contact details	Jiasheng (Zhongshan) Electrical Appliance Co., Ltd No. 19, 3 rd Road, Aiguo Gongye Qu, Sanjiao Town, Zhongshan City, Guangdong Province, China						
(*) NOx = nitrogen oxides							

The photo documents:



LD-468C Front view



LD-468C Side view



LD-468C Side view



LD-468C Back view



LD-468A Front view



LD-468A Side view



LD-468A Side view



LD-468A Back view

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