

CUSTOMER NAME

<Ningbo Singfun Central Heating Technology Co., Ltd.>

TEST REPORT

SCOPE OF WORK

ErP - electric portable local space heater -

Refer to annex model list.

REPORT NUMBER

250100699HZH-001

ISSUE DATE

6/Mar/2025

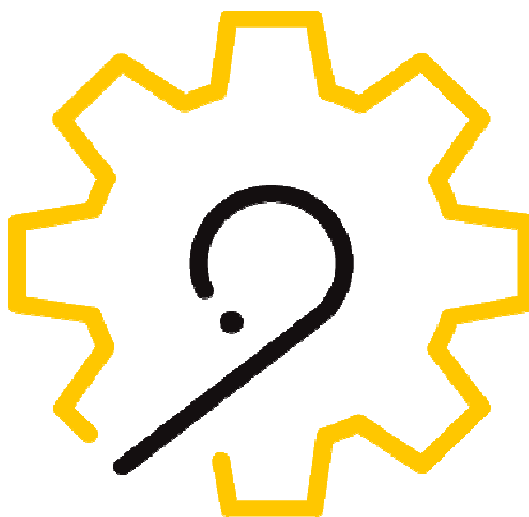
PAGES

13 pages

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TTRF_EU1103_C(Jan-2025)

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Local Space Heater ErP Test Report

Report Number	250100699HZH-001
Test Laboratory:	Intertek Testing Services Zhejiang Ltd., Hangzhou Branch
Address:	4th Floor, Building 4#, No. 22, 22nd Street, Qiantang District Hangzhou, China 310018
Date of issue:	6/Mar/2025
Applicant Name:	Ningbo Singfun Central Heating Technology Co., Ltd.
Address:	Fuhai Develop Area, Cixi, Zhejiang, P. R. China
Manufacturing Name:	Same as applicant.
Address:	Same as applicant.
Product:	electric portable local space heater
Brand Name:	NA
Description:	The products covered by this report are electric portable local space heaters for indoor use only.
Model(s) (if applicable):	Refer to annex model list.
Model Similarity:	All of these models have similar construction, with different appearance and heating elements.
Rated voltage (V):	Refer to annex model list.
Rated input frequency (Hz):	Refer to annex model list.
Rated input power (kW):	Refer to annex model list.
Heat output (kW):	Refer to annex model list.
Date of receipt of sample(s):	13/Jan/2025
Date of test:	15/Feb/2025
Test standard(s) or criteria(s):	COMMISSION REGULATION (EU) 2024/1103 of 18 April 2024 implementing Directive 2009/125/EC of the European Parliament and of the Council as regards ecodesign requirements for local space heaters and separate related controls and repealing Commission Regulation (EU) 2015/1188 2024/90295 Corrigendum to Commission Regulation (EU) 2024/1103 of 18 April 2024 implementing Directive 2009/125/EC of the European Parliament and of the Council as regards ecodesign requirements for local space heaters and separate related controls and repealing Commission Regulation (EU) 2015/1188 EN 60675:1995+A1:1998+A2:2018+A11:2019 EN 50564:2011

Conclusion These results are in compliance with the cited requirement of COMMISSION REGULATION (EU)2024/1103 in this report.

Test report form No.: TTRF_EU1103_C

TRF originator: Intertek

Master TRF: Dated 2025.01

Prepared by:



Jeff Liu
Project Engineer



Cloud Huang
Reviewer

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The test report only allows to be revised within three years from its original issued date unless further standard or the requirement was noticed.

When determining the test result, measurement uncertainty has been considered.

Product Information

Model number of Unit Under Tested		SFG5-22B								
Product Type		Portable								
With Thermostat		No								
Thermostat Type		Mechanical								
With Daily or Weekly Timer		No								
Timer Type		NA								
Number of Heating Stages		2								
Type of Control		Mechanical knob								
Oscillation	Type	NA								
	Style	NA								
Digital panel		No								
Other automatic controls: <table border="0" style="width: 100%;"> <tr> <td><input type="checkbox"/> Presence detection</td> <td><input type="checkbox"/> Adaptive start control</td> </tr> <tr> <td><input type="checkbox"/> Open window detection</td> <td><input type="checkbox"/> Working time limitation</td> </tr> <tr> <td><input type="checkbox"/> Distance control option</td> <td><input type="checkbox"/> Black bulb sensor</td> </tr> <tr> <td><input type="checkbox"/> Self-learning functionality</td> <td><input type="checkbox"/> Control accuracy</td> </tr> </table>			<input type="checkbox"/> Presence detection	<input type="checkbox"/> Adaptive start control	<input type="checkbox"/> Open window detection	<input type="checkbox"/> Working time limitation	<input type="checkbox"/> Distance control option	<input type="checkbox"/> Black bulb sensor	<input type="checkbox"/> Self-learning functionality	<input type="checkbox"/> Control accuracy
<input type="checkbox"/> Presence detection	<input type="checkbox"/> Adaptive start control									
<input type="checkbox"/> Open window detection	<input type="checkbox"/> Working time limitation									
<input type="checkbox"/> Distance control option	<input type="checkbox"/> Black bulb sensor									
<input type="checkbox"/> Self-learning functionality	<input type="checkbox"/> Control accuracy									

Ecodesign requirements of (EU) 2024/1103

Item	Result - Remark	Verdict
1. Specific ecodesign requirements for seasonal space heating energy efficiency		
(d) seasonal space heating energy efficiency of electric portable local space heaters shall not be less than 44,7%;		P
(e) seasonal space heating energy efficiency of electric fixed local space heaters with a nominal heat output above 250 W, except towel rails, shall not be less than 47,5%;		N/A
(f) seasonal space heating energy efficiency of electric fixed local space heaters with a nominal heat output equal or below 250 W, except towel rails, shall not be less than 43,1%;		N/A
(g) seasonal space heating energy efficiency of electric storage local space heaters shall not be less than 47,3%;		N/A
(h) seasonal space heating energy efficiency of electric underfloor local space heaters shall not be less than 47,5%;		N/A
(i) seasonal space heating energy efficiency of electric visibly glowing radiant local space heaters with a nominal heat output above 1,2 kW, except electric visibly glowing radiant portable local space heaters, shall not be less than 46,8%;		N/A
(j) seasonal space heating energy efficiency of electric visibly glowing radiant local space heaters with a nominal heat output equal or below 1,2 kW, except electric visibly glowing radiant portable local space heaters, shall not be less than 40,5%;		N/A
(k) seasonal space heating energy efficiency of electric visibly glowing radiant portable local space heaters shall not be less than 39,5%;		N/A
(n) seasonal space heating energy efficiency of towel rails with a nominal heat output above 250 W shall not be less than 46,0%;		N/A
(o) seasonal space heating energy efficiency of towel rails with a nominal heat output above 60 W and equal or below 250 W shall not be less than 42,1%.		N/A
(2) Electric storage local space heaters shall be equipped with electronic heat charge control with room and/or outdoor temperature feedback and fan assisted heat output.		N/A
(3) Towel rails with a nominal heat output equal or below 60 W shall only be operable through a working time limitation with a maximum pre-set period of time no longer than 6 hours.		N/A

2. Requirements for low power		
Local space heaters have an off-mode and the power consumption in off-mode (Po) shall not exceed 0,50 W	0.00W	P
off-mode (Po) shall not exceed 0,30 W from 9 May 2027		P
Local space heaters have an standby mode and the power consumption in standby mode (Psm) shall not exceed 0,50 W		N/A
if the standby mode includes the display of information or status, the power consumption of that mode shall not exceed 1,00 W		N/A
The power consumption of networked standby mode (Pnsm) shall not exceed 2,00 W		N/A
(Pnsm) shall not exceed 3,00 W if the communication between the heat generator and the control is wireless or through powerline		N/A
The power consumption of the idle mode (Pidle) shall not exceed 1,00 W as average over 1 hour, or		N/A
(Pidle) shall not exceed 3,00 W if the idle mode depends on the input from a network connection to automatically provide heat to the room		N/A

3. Requirements for product information		
(1) the instruction manuals for installers and end-users, and free access websites of manufacturers, their authorised representatives and importers shall contain the following elements:		P
(a) 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; or		N/A
for local space heaters placed on the market without control in Table 2 of this Annex, with the technical parameters measured and calculated in accordance with Annex III		N/A
(b) for electric 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; or		P
in case of local space heaters placed on the market without control, in Table 4 of this Annex, with its technical parameters measured and calculated in accordance with Annex III		N/A
(c) for domestic local space heaters placed on the market without control, Table 7 as displayed in this Annex and without any modification;		N/A
(d) for commercial local space heaters, the information set out in Table 5 of this Annex, with its technical parameters measured and calculated in accordance with Annex III		N/A
(e) any specific precautions that shall be taken when the local space heater is assembled, installed or maintained;		P
(f) information relevant to disassembly, recycling and/or disposal at end-of-life;		P
(g) for local space heaters placed on the market without control, the information in Tables 2 and Table 4 shall be drawn up for at least one combination of local space heater and control functions that make the product compliant with this Regulation;		N/A
(h) for separate related controls, Table 7 as displayed in this Annex and without any modification, and the information in Table 6.		N/A
(2) The instruction manual for installers and users, free access websites of manufacturers, their authorised representatives and importers, and the product packaging shall incorporate the following product information		
(c) for electric portable local space heaters and electric visibly glowing radiant portable local space heaters: 'This product is only suitable for well insulated spaces or occasional use.'; (i) for the instruction manual for users this sentence shall be on the cover page of the manual; (ii) for free-access websites of manufacturers this sentence shall be displayed together with the other characteristics of the product; (iii) for the product packaging the sentence shall be placed in a prominent position on the packaging.		P
(4) The instructions manuals and the product packaging may contain additional information about the characteristics of the product that may be useful to installers and users.		P

Remark: 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)

Information requirement for the electric local space heaters

Contact details	refer to the name and address of the importer or authorized representative within the EEA				
Model identifier(s): SFG5-22B					
Item	Symbol	Value	Unit	Item	Unit
Heat output				Type of heat output/room temperature control (select one)	
Nominal heat output	P _{nom}	5.000	kW	single stage heat output and no room temperature control	No
Minimum heat output (indicative)	P _{min}	2.500	kW	two or more manual stages, no room temperature control	Yes
Maximum continuous heat output	P _{max,c}	5.000	kW	with mechanic thermostat room temperature control	No
Power consumption				with electronic room temperature control	
In off mode	P _o	0.00	W	electronic room temperature control plus day timer	No
In standby mode	P _{sm}	0.00	W	electronic room temperature control plus week timer	No
In idle mode	P _{idle}	0.00	W	Other control options (multiple selections possible)	
In network standby	P _{nsm}	0.00	W	room temperature control, with presence detection	No
Standby mode with display information or status			No	room temperature control, with open window detection	No
Seasonal space heating energy efficiency in active mode	$\eta_{S,on}$	80.0	%	distance control option	No
				adaptive start control	No
				working time limitation	No
				black bulb sensor	No
				self-learning functionality	No
				control accuracy	No

Test Data for SFG5-22B

Description	Value
For electric local space heaters- $\eta_{th,nom}$	100%
The electric to primary energy 'conversion coefficient-CC	1.9
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-F(2)	0.100
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-F(3)	0.000
Seasonal space heating energy efficiency in active mode- $\eta_{s,on}$ $\eta_{s,on} = \eta_{th,nom} \cdot [0.75+F(2)+F(3)]$	85.0%
Seasonal space heating energy efficiency - η_s , for electric local space heaters $\eta_s = \eta_{s,on} / CC$	44.7%
Verdict	Pass

Photos for SFG5-22B



Photos for SFG15-20A






Photos for SFG3-25W





Photos for SFP3-19A



Labels (representative) :

 SINGFUN ELECTRIC FAN HEATER		
Model No.	SFG5-22B	  IPX2
Rating voltage	AC220-240V	
Frequency	50Hz	
Power	5000W	
Ningbo SingFun Central Heating Technology Co., Ltd.		

 SINGFUN ELECTRIC FAN HEATER		
Model No.	SFG15-20A	 IPX4
Rating voltage	AC400V 3~	
Frequency	50Hz	
Power	15000W	
Ningbo SingFun Central Heating Technology Co., Ltd.		

Annex Model List:

Model(s)	Rated voltage (V AC)	Rated input frequency (Hz)	Number of Heating Stages	Nominal heat output, P _{nom} (kW)	Maximum continuous heat output, P _{max,c} (kW)	Minimum heat output, P _{min} (kW)	Product Type	Thermostat Type	Type of Control	With Daily or Weekly Timer (Timer Type)	Remark (Verdict)
SFP2-21A, SFP2-21B, SFP2-22C, SFP2-22B, SFP2-25A, SFP2-25B	220-240	50	2	2.00	2.00	1.20	Portable	Mechanical	Mechanical knob	No	Refer to model SFG5-22B
SFG2-23B	220-240	50	1	2.00	2.00	2.00	Portable	Mechanical	Mechanical knob	No	
SFG2-25W	220-240	50	2	2.00	2.00	1.00	Portable	Mechanical	Mechanical knob	No	
SFG2.7-25W	220-240	50	3	2.70	2.70	0.90	Portable	Mechanical	Mechanical knob	No	
SFG2.8-25W	220-240	50	3	2.80	2.80	0.93	Portable	Mechanical	Mechanical knob	No	
SFP3-19A, SFP3-22B, SFP3-23A, SFP3-23B, SFP3-25A, SFP3-25B, SFP3-25C, SFP3-25D	220-240	50	2	3.00	3.00	2.00	Portable	Mechanical	Mechanical knob	No	
SFG3-19B, SFG3-24B, SFG3-25A	220-240	50	2	3.00	3.00	1.50	Portable	Mechanical	Mechanical knob	No	
SFG3-25W, SFG3-25E	220-240	50	3	3.00	3.00	1.00	Portable	Mechanical	Mechanical knob	No	
SFG3-23B	220-240	50	1	3.00	3.00	3.00	Portable	Mechanical	Mechanical knob	No	

Model(s)	Rated voltage (V AC)	Rated input frequency (Hz)	Number of Heating Stages	Nominal heat output, P _{nom} (kW)	Maximum continuous heat output, P _{max,c} (kW)	Minimum heat output, P _{min} (kW)	Product Type	Thermostat Type	Type of Control	With Daily or Weekly Timer (Timer Type)	Remark (Verdict)
SFG3.3-25W	220-240	50	2	3.30	3.30	1.65	Portable	Mechanical	Mechanical knob	No	Refer to model SFG5-22B
SFP5-25A	220-240	50	2	5.00	5.00	3.20	Portable	Mechanical	Mechanical knob	No	
SFG5-22B, SFG5-24C	220-240	50	2	5.00	5.00	2.50	Portable	Mechanical	Mechanical knob	No	
SFP5-25B	400	50	2	5.00	5.00	3.20	Portable	Mechanical	Mechanical knob	No	
SFG5-19B, SFG5-24B, SFG5-25W, SFG5-25C, SFG5-25E	400	50	2	5.00	5.00	2.50	Portable	Mechanical	Mechanical knob	No	
SFG9-20B, SFG9-24B, SFG9-25W, SFG9-25C, SFG9-25E	400	50	2	9.00	9.00	4.50	Portable	Mechanical	Mechanical knob	No	
SFG15-20A, SFG15-20B	400	50	2	15.00	15.00	7.50	Portable	Mechanical	Mechanical knob	No	

END