




<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	CN25V225 001	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	180324271	Seite 1 von 21 Page 1 of 21
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2025-02-19	
<b>Auftraggeber:</b> <i>Client:</i>	Ningbo Meina Electrical Appliances Co., Ltd No. 1366, The South Rixian Road, Binhai Economical Development Zone, Cixi, 315311 Zhejiang P.R. China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Fan Heater			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	SF-2101, SF-1816B, EF-22MQ, SF-1415, SF-1418, SF-1516, GYN-20, GYN-31, SF-2101Y, TFP-15C, TFP-15A, SF-2213B, SF-2301, SF-2306, SF-1519, SF-1818			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Type test			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	COMMISSION REGULATION (EU) 2024/1103 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			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2025-02-19			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003777910			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2025-02-25 - 2025-02-28			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland /CCIC (Ningbo) Co., Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland /CCIC (Ningbo) Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von:</b> <i>tested by:</i> Weimin Zhang	<input checked="" type="checkbox"/> 	<b>genehmigt von:</b> <i>authorized by:</i> Liwei Lang	<input checked="" type="checkbox"/> 	
<b>Datum:</b> <i>Date:</i> 2025-03-10		<b>Ausstellungsdatum:</b> <i>Issue date:</i> 2025-03-10		
<b>Stellung / Position:</b>	PE	<b>Stellung / Position:</b>	Authorizer	
<b>Sonstiges /</b> <i>Other:</i>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
<b>* Legende:</b> <i>* Legend:</i>	P(ass) = entspricht o.g. Prüfgrundlage(n) P(ass) = passed a.m. test specification(s)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n) F(ail) = failed a.m. test specification(s)	N/A = nicht anwendbar N/A = not applicable	N/T = nicht getestet N/T = not tested
<b>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.</b> <i>This test report only relates to the above mentioned 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 test mark.</i>				

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**Anmerkungen**  
*Remarks*

- |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>2</b> | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| <b>3</b> | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>4</b> | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>                                                                                                                                                                                                                                                                                       |


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**Anmerkungen**  
Remarks

1	Test item description .....	Fan heater
2	Trade Mark .....	N/A
3	Model/Type reference .....	SF-2101, SF-1816B, EF-22MQ, SF-1415, SF-1418, SF-1516, GYN-20, GYN-31, SF-2101Y, TFP-15C, TFP-15A, SF-2213B, SF-2301, SF-2306, SF-1519, SF-1818
4	Rated Voltage/Frequency/power .....	AC 220-240V; 50-60Hz; 1500W for TFP-15A, SF-2101Y, TFP-15C, SF-2306 1800W for SF-2213B 1900W for SF-2301 2000W for GYN-20; 3000W for GYN-31 1400-1600W: SF-2101; SF-1816B 1750-1950W: EF-22MQ, SF-1415, SF-1418, SF-1516, SF-1519, SF-1818

**Copy of Nameplate - (according to the separate submitted document): gg**

SF-2101  
(1) AC 220-240V, 50-60Hz, 1400-1600W  
  
Ningbo Meina Electrical Appliances Co., Ltd  
No. 1366, The South Rixian Road, Binhai Economical  
Development Zone, Cixi, 315311 Zhejiang P.R. China  


Marking plate of other models are the same except model name and rated power input

**Summary of testing**

Seasonal space heating energy efficiency	Limit	requirements
48.2 % for SF-2101Y	≥44.7 %	<input checked="" type="checkbox"/> COMMISSION REGULATION (EU) 2024/1103
44.7 % for other models	≥44.7 %	<input checked="" type="checkbox"/> COMMISSION REGULATION (EU) 2024/1103

All test items: **Pass**

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**General product information:**

Product is portable fan heater with adjustable thermostat for household indoor use only.

They have similar appearance, the difference between them are as below table.

Model	In idle mode ( $P_{idle}$ ) (W)	Nominal heat output/ ( $P_{nom}$ ) (kW)	Minimum heat output (indicative) ( $P_{min}$ ) (kW)	Maximum continuous heat output ( $P_{max,c}$ ) (kW)	In standby mode ( $e_{SB}$ ) (W)
EF-22MQ	0.00	1.900	0.900	1.850	N/A
SF-1415	0.00	1.900	0.900	1.850	N/A
SF-1418	0.00	1.900	0.900	1.850	N/A
SF-1516	0.00	1.900	0.900	1.850	N/A
SF-2101	0.00	1.600	0.700	1.500	N/A
SF-1816B	0.00	1.900	1.000	1.870	N/A
SF-2101Y	0.26	1.500	0.745	1.475	0.26
TFP-15C	0.00	1.500	0.700	1.400	N/A
TFP-15A	0.00	1.500	1.000	1.500	N/A
SF-2213B	0.00	1.800	1.200	1.800	N/A
SF-2301	0.00	1.900	1.300	1.800	N/A
SF-2306	0.00	1.800	1.200	1.700	N/A
SF-1519	0.00	2.000	0.900	1.700	N/A
SF-1818	0.00	2.000	N/A	2.000	N/A
GYN-20	0.00	2.000	1.000	1.800	N/A
GYN-31	0.00	3.000	1.600	3.000	N/A

**Test standards:**

EN 60675:1995+A1:1998+A2:2018+A11:2019, Household electric direct-acting room heaters - Methods for measuring performance  
EN 50564:2011, Electrical and electronic household and office equipment – Measurement of low power consumption

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
	<b>ANNEX II</b> <b>Ecodesign requirements referred to in Article 3</b>		
<b>1</b>	<b>REQUIREMENTS FOR SEASONAL SPACE HEATING ENERGY EFFICIENCY</b>		
	(1) Local space heaters shall meet the following requirements:		P
	(a) seasonal space heating energy efficiency of open fronted local space heaters and open to chimney local space heaters shall not be less than 40,3%;		N/A
	(b) seasonal space heating energy efficiency of closed fronted open combustion local space heaters shall not be less than 63,6%;		N/A
	(c) seasonal space heating energy efficiency of balanced flue local space heaters shall not be less than 63,6%;		N/A
	(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

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
	(k) seasonal space heating energy efficiency of electric visibly glowing radiant portable local space heaters shall not be less than 39,5%;		N/A
	(l) seasonal space heating energy efficiency of luminous local space heaters shall not be less than 90,0%;		N/A
	(m) seasonal space heating energy efficiency of tube local space heaters shall not be less than 80,0%.		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
	(4) Electric local space heaters placed on the market without control shall not be able to provide heat output without control.		N/A
<b>2</b>	<b>REQUIREMENTS FOR EMISSIONS</b>		
	Emissions of nitrogen oxides (NO <sub>x</sub> ) from liquid and gaseous fuel local space heaters shall not exceed the following values, based on GCV:  (1) emissions of NO <sub>x</sub> by open fronted local space heaters, open to chimney local space heaters, closed fronted open combustion local space heaters, balanced flue local space heaters and flueless local space heaters shall not exceed 120 mg/kWhinput;		N/A
	(2) emissions of NO <sub>x</sub> by luminous local space heaters and tube local space heaters shall not exceed 180 mg/ kWhinput.		N/A
<b>3</b>	<b>REQUIREMENTS FOR LOW POWER MODES</b>		
	Local space heaters with controls, and separate related controls, shall meet the following requirements:		P

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
	Local space heaters with controls, and separate related controls, shall meet the following requirements:  (1) they shall have an off-mode or a standby mode or both. The power consumption in off-mode ( $P_o$ ) shall not exceed 0,50 W and the power consumption in standby mode ( $P_{sm}$ ) shall not exceed 0,50 W; as from 9 May 2027, the power consumption in off-mode shall not exceed 0,30 W;		P
	(2) if the standby mode includes the display of information or status, the power consumption of that mode shall not exceed 1,00 W;		P
	(3) if the standby mode provides for a connection to a network and provides networked standby as defined in Article 2, point (10) of Regulation (EU) 2023/826, the power consumption of this mode ( $P_{nsm}$ ) shall not exceed 2,00 W; if the communication between the heat generator and the control is wireless or through powerline carrier the power consumption of this mode shall not exceed 3,00 W;		N/A
	(4) if they provide for an idle mode, the power consumption of the idle mode ( $P_{idle}$ ) shall not exceed 1,00 W as average over 1 hour, except if the idle mode depends on the input from a network connection to automatically provide heat to the room, in which case the power consumption shall not exceed 3,00 W as average over 1 hour.		P
<b>4</b>	<b>PRODUCT INFORMATION REQUIREMENTS</b>		
	(1) The instruction manuals for installers and users, and free access websites of manufacturers, their authorised representatives and importers, shall contain the following elements:		P
	(a) for gaseous fuel local space heaters or liquid fuel local space heaters, including flueless local space heaters and excluding commercial local space heaters, the information set out in Table 1 or, in case of 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 and showing the significant figures indicated in those tables;		N/A
	(b) for electric local space heaters, the information set out in Table 3 or, 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 and		P



COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
	showing the significant figures indicated in those tables;		
	(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 and showing the significant figures indicated in that Table;		N/A
	(e) any specific precautions that shall be taken when the local space heater is assembled, installed or maintained;		N/A
	(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
	<p>(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 in such a way to ensure clear visibility and legibility and in a language easily understood by the users of the Member State where the product is marketed:</p> <p>(a) for local space heaters placed on the market without control:</p> <p>‘This product is a [insert product category in accordance with point 1(1) of this Annex] and, in order to be compliant with the mandatory ecodesign requirements set out in Commission Regulation (EU) 2024/1103, needs to be complemented with a control providing at least the following control functions:</p> <p>[list of control function codes in accordance with the format according to Table 7. When several combinations of control functions are provided, each combination shall be placed in a different row. The format of the code is TC (f1/f2/f3/f4/f5/f6/f7/f8), where</p>		N/A



COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
	TC is the code for the F(2) function and f1 to f8 are the codes of the respective F(3) function if this function is present, or otherwise a "0";		
	<p>(b) for flueless local space heaters and open to chimney local space heaters only:</p> <p>'This product is not suitable for primary heating purposes';</p> <p>(i) for the instruction manual for users this sentence shall be on the cover page of the manual;</p> <p>(ii) for free-access websites of manufacturers this sentence shall be displayed together with the other characteristics of the product;</p> <p>(iii) for the product packaging the sentence shall be placed in a prominent position on the packaging;</p>		N/A
	<p>(c) for electric portable local space heaters and electric visibly glowing radiant portable local space heaters:</p> <p>'This product is only suitable for well insulated spaces or occasional use.';</p> <p>(i) for the instruction manual for users this sentence shall be on the cover page of the manual;</p> <p>(ii) for free-access websites of manufacturers this sentence shall be displayed together with the other characteristics of the product;</p> <p>(iii) for the product packaging the sentence shall be placed in a prominent position on the packaging.</p>		P
	<p>(3) For separate related controls the instruction manuals for installers and users free access websites of manufacturers, their authorised representatives and importers, and the product packaging shall incorporate the following product information in such a way to ensure clear visibility and legibility and in a language easily understood by the users of the Member State where the product is marketed:</p> <p>'This control has the following control functions': [list of control function codes in accordance with the format according to Table 7. The format of the code is TC (f1/ f2/f3/f4/f5/f6/f7/f8), where TC is the code for the F(2) function and f1 to f8 are the codes of the respective F(3) function if this function is present, or otherwise a '0'.</p>		N/A
	(4) The instructions manuals for installers and users, the free access websites of manufacturers, their authorised representatives and importers, and the product packaging may contain additional information about the characteristics of the product		P

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
	that may be useful to installers and users, including information about the compatibility of heaters and controls to fulfil the requirements in points 1 and 3 of this Annex.		
	<b>ANNEX III</b> <b>Measurement methods and calculations referred to in Article 3</b>		
<b>4</b>	<b>SPECIFIC CONDITIONS FOR SEASONAL SPACE HEATING ENERGY EFFICIENCY</b>		
	<p>(1) The seasonal space heating energy efficiency of local space heaters is defined as</p> <p>(b) for electric local space heaters  <math>\eta_S = \eta_{s,on} / CC</math></p> <p>where:</p> <ul style="list-style-type: none"> <li>— <math>\eta_S</math> is the seasonal space heating energy efficiency, expressed in %;</li> <li>— <math>\eta_{s,on}</math> is the seasonal space heating energy efficiency in active mode, expressed in %;</li> <li>— CC is the conversion coefficient;</li> </ul>		P
	<p>(2) the seasonal space heating energy efficiency in active mode (<math>\eta_{s,on}</math>) calculated as:</p> <p>(a) for all local space heaters except commercial local space heaters:</p> $\eta_{s,on} = \eta_{th,nom} \cdot (0,75 + F(2) + F(3)) \cdot F(4) \cdot F(5)$ <p>where:</p> <ul style="list-style-type: none"> <li>— <math>\eta_{th,nom}</math> is the useful efficiency at nominal heat output, expressed in %.</li> <li>— for electric local space heaters, <math>\eta_{th,nom} = 100\%</math>;</li> <li>— for gaseous fuel local space heaters and liquid fuel local space heaters, <math>\eta_{th,nom}</math> is the useful efficiency at nominal heat output based on NCV;</li> </ul>		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;		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;		P
	— F(4) is a correction factor accounting for a negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption;		N/A
	— F(5) is a correction factor accounting for a negative contribution to the seasonal space heating		N/A

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
	energy efficiency by energy consumption of a permanent pilot flame;		
<b>5</b>	<b>LOW POWER MODES</b>		
	<p>(1) The power consumption of the off mode (<math>P_o</math>), standby mode (<math>P_{sm}</math>), and where applicable the idle mode (<math>P_{idle}</math>) and the networked standby mode (<math>P_{nsm}</math>) are measured, expressed in W and rounded to two decimal places.</p> <p>During measurements of the power consumption in low power modes, the following functions shall be checked and recorded:</p> <p>(a) the display or not of information;</p> <p>(b) the activation or not of a network connection.</p> <p>If the standby mode includes the display of information or status, this function shall also be provided when the networked standby is provided.</p>		P
	<p>(2) For separate related controls, the power consumption of the low power modes shall be measured at the mains voltage. If the power consumption of the low power modes can only be measured at a DC voltage level, the results of these measurements for each low power mode shall be multiplied with a factor 1,5, representing an average AC-DC power conversion of 67%, to arrive at the values that shall comply with the requirements for low power modes.</p>		N/A
<b>6</b>	<b>CONTROL ACCURACY AND CONTROL TO SETPOINT DEVIATION</b>		
	For local space heaters and for separate related controls, CA and CSD shall be measured whenever the manufacturer declares a $CA < 2K$ and a $CSD < 2K$ .		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
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**Test data, EN 60675**

EN 60675				
Clause	Requirement + Test	Result - Remark		Verdict
<b>4</b>	<b>CLASSIFICATION</b>			
<b>4.1</b>	<b>According to type</b>	Recorded by the laboratory	Stated by the manufacturer	—
	Local space heater .....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Direct acting room heater .....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Panel heater.....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Convactor heater .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Fan heater.....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Radiant heater .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	o category 1 .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	o category 1 .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	o category 3 .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Fixed local space heater .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Portable local space heater.....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Slave heater.....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Towel warmer.....	<input type="checkbox"/>	<input type="checkbox"/>	—
<b>4.2</b>	<b>According to regulating features</b>	Recorded by the laboratory	Stated by the manufacturer	—
	Heater without regulation .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with single stage heat output	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with adjustable power input.....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Heater with regulated air flow (fan heaters only) .....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Heater with a room temperature control .....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Heater with a programmer.....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Heater with a mechanical room temperature control :	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Heater with an electronic room temperature control :	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
	Heater with an electronic room temperature control plus day timer.....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with an electronic room temperature control plus week timer .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with a set-back function .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with a presence detection .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with an open window detection .....	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with an adaptive start control .....	<input type="checkbox"/>	<input type="checkbox"/>	—

COMMISSION REGULATION (EU) 2024/1103				
Clause	Requirement - Test	Result - Remark		Verdict
	Heater with a distance control option..... :	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with frost protection means ..... :	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with a black bulb sensor ..... :	<input type="checkbox"/>	<input type="checkbox"/>	—
	Heater with working time limitation ..... :	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—
6	GENERAL CONDITIONS FOR MEASUREMENTS			
	The heater is supplied at a voltage which gives the rated power input under steady conditions	Test voltage: 230V ~ 50Hz Ambient temperature: 23+/-2 °C		P
	Heaters is placed as described			P
16	MEASUREMENT OF THE USABLE POWER			
	Usable power (kW) ..... :	See page 4		—

If the product is placed on the market with (only one option may apply)	F(2)						for gaseous and liquid fuel local space eaters
	for electric local space heaters						
	Portable	Fixed	Storage	Under floor	Visibly glowing radiant	Towel rails	
Single stage heat output, no room temperature control	0	0	0	0	0	0	0
Two or more manual stages, no temperature control	0,025	0	0	0	0,050	0,030	0,025
With mechanic thermostat room temperature control	<u>0,100</u>	0,025	0,025	0,025	0,025	0,030	0,050
With electronic room temperature control	<u>0,160</u>	0,050	0,050	0,050	0,080	0,030	0,100
with electronic room temperature control plus day timer	0,170	0,095	0,095	0,095	0,100	0,095	0,125
with electronic room temperature control plus week timer	0,190	0,150	0,150	0,150	0,120	0,150	0,150
Table 10 Correction factor F(2)				F(2)=0.160 % for SF-2101Y F(2)=0.100 % for other models			
If the product is placed on the market with (multiple options may apply):	F(3)						for gaseous and liquid fuel local space eaters
	for electric local space heaters						
	Portable	Fixed	Storage	Underflo or	Visibly glowing radiant	Towel rails	
room temperature control with presence detection	0,005	0	0	0	0,040	0	0,025
room temperature control with open window detection	0,005	0,020	0,020	0,020	0,020	0,020	0,025
with distance control option	0	0,020	0,020	0,020	0	0	0,025
with adaptive start	0,005	0,020	0,020	0,020	0	0,020	0

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Clause	Requirement - Test				Result - Remark		Verdict
control							
with working time limitation	0,005	0	0	0	0,020	0,020	0
with black bulb sensor	0	0	0	0	0,040	0	0
with self-learning functionality	0	0,020	0,020	0,020	0,010	0,020	0,0125
Control accuracy with CA < 2 Kelvin and CSD < 2 Kelvin	0,020	0,020	0,020	0,020	0	0,020	0,0125
Table 11				F(3)=0.005 % for SF-2101Y			
Correction factor F(3)				F(3)=0 % for other models			

Open window detection testing					
Room temperature °C	Start time t1	Cabinet temperature(t1) °C	Cabinet temperature(t1+10min)	Operating time t2	Duration of the state t3
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COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict

### Attachment 1

Recommend manufacturer to list the information in table 3 with its technical parameters measured and calculated in accordance with Annex III and showing the significant figures indicated in the table

**Table 3 Information requirements for electric local space heaters**

Contact details	Ningbo Meina Electrical Appliances Co., Ltd No. 1366, The South Rixian Road, Binhai Economical Development Zone, Cixi, 315311 Zhejiang P.R. China				
Model identifier(s):	for SF-2101Y				
Item	Symbol	Value	Unit	Item	Unit
<b>Heat output</b>				<b>Type of heat output / room temperature control (select one)</b>	
Nominal heat output	$P_{nom}$	See page 4	kW	single stage heat output and no room temperature control	[no]
Minimum heat output (indicative)	$P_{min}$	See page 4	kW	two or more manual stages, no room temperature control	[no]
Maximum continuous heat output	$P_{max,c}$	See page 4	kW	with mechanic thermostat room temperature	[no]
<b>Power consumption</b>				with electronic thermostat room temperature	[yes]
In off mode	$P_o$	N/A	W	electronic room temperature control plus day timer	[no]
In standby mode	$P_{sm}$	0.26	W	electronic room temperature control plus week timer	[no]
In idle mode	$P_{idle}$	0.26	W	<b>Other control options (multiple selections possible)</b>	room temperature control, with presence detection
In network standby	$P_{nsm}$	N/A	W		
Standby mode with display of information or status			[yes]	room temperature control, with open window detection	[no]
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	91.5	%	distance control option	[no]
				adaptive start control	[no]
				working time limitation	[yes]
				black bulb sensor	[no]
				self-learning functionality	[no]
				control accuracy	[no]



COMMISSION REGULATION (EU) 2024/1103					
Clause	Requirement - Test			Result - Remark	Verdict
Contact details	Ningbo Meina Electrical Appliances Co., Ltd No. 1366, The South Rixian Road, Binhai Economical Development Zone, Cixi, 315311 Zhejiang P.R. China				
Model identifier(s):	for other models				
Item	Symbol	Value	Unit	Item	Unit
<b>Heat output</b>				<b>Type of heat output / room temperature control (select one)</b>	
Nominal heat output	$P_{nom}$	See page 4	kW	single stage heat output and no room temperature control	[no]
Minimum heat output (indicative)	$P_{min}$	See page 4	kW	two or more manual stages, no room temperature control	[no]
Maximum continuous heat output	$P_{max,c}$	See page 4	kW	with mechanic thermostat room temperature	[yes]
<b>Power consumption</b>				with electronic thermostat room temperature	[no]
In off mode	$P_o$	0.00	W	electronic room temperature control plus day timer	[no]
In standby mode	$P_{sm}$	N/A	W	electronic room temperature control plus week timer	[no]
In idle mode	$P_{idle}$	0.00	W	<b>Other control options (multiple selections possible)</b> room temperature control, with presence detection	[no]
In network standby	$P_{nsm}$	N/A	W		[no]
Standby mode with display of information or status			[no]	room temperature control, with open window detection	[no]
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	85.0	%	distance control option	[no]
				adaptive start control	[no]
				working time limitation	[no]
				black bulb sensor	[no]
				self-learning functionality	[no]
				control accuracy	[no]

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict

Photos of Test Samples



SF-2101



SF-1816B



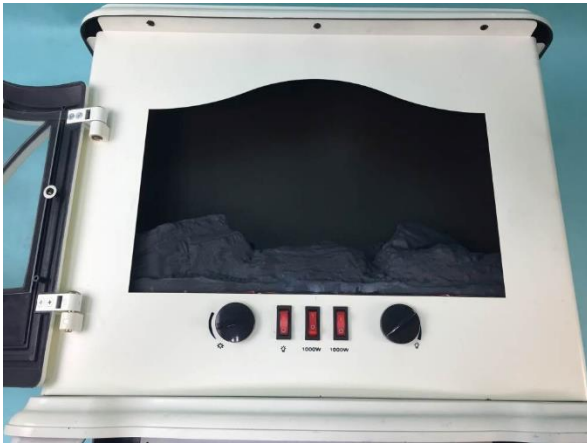
EF-22MQ









EF-22MQ



SF-1415



SF-1415

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
			
	SF-1418	SF-1418	
			
	SF-1516	SF-1516	
			
	GYN-31	GYN-20	

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Clause	Requirement - Test	Result - Remark	Verdict
			
			
			



COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
<div data-bbox="180 360 464 853"></div> <div data-bbox="150 896 253 925">TFP-15C</div>		<div data-bbox="949 351 1331 855"></div> <div data-bbox="1090 922 1193 952">TFP-15C</div>	
<div data-bbox="210 1041 430 1321"></div> <div data-bbox="150 1382 253 1411">SF-2306</div>		<div data-bbox="957 981 1323 1382"></div> <div data-bbox="1090 1402 1193 1431">SF-1519</div>	
<div data-bbox="150 1480 499 1890"></div> <div data-bbox="150 1895 253 1924">SF-1519</div>		<div data-bbox="1005 1534 1268 1843"></div> <div data-bbox="1090 1910 1193 1939">SF-1818</div>	

COMMISSION REGULATION (EU) 2024/1103			
Clause	Requirement - Test	Result - Remark	Verdict
 <p>SF-1818</p>			

#### Equipment used for measurements

Equipment	Manufacturer	Type	ID	Calibration valid till
Power Meter	ZIMMER	LMG95	G1809803	2025-08-27
Power Source	YOKOGAWA	WT310E	9020776	2025-08-27
Temp. & Humidity recorder	Testo	175HI	G1809691	2025-12-05
Stopwatch	EXTECH	HW30	G1809516	2025-04-28
Walk-in Climate chamber	ESPEC	SETH-Z-130L	G1809770	2026-03-05
Wind speed meter	Testo	Testo405-V1	G1826396	2025-05-16

---End of test report---