

# TEST REPORT

**SCOPE OF WORK**

ErP - electric fixed local space heater -

Refer to annex model list.

**REPORT NUMBER**

2502B0394SHA-001

**ISSUE DATE**

18/03/2025

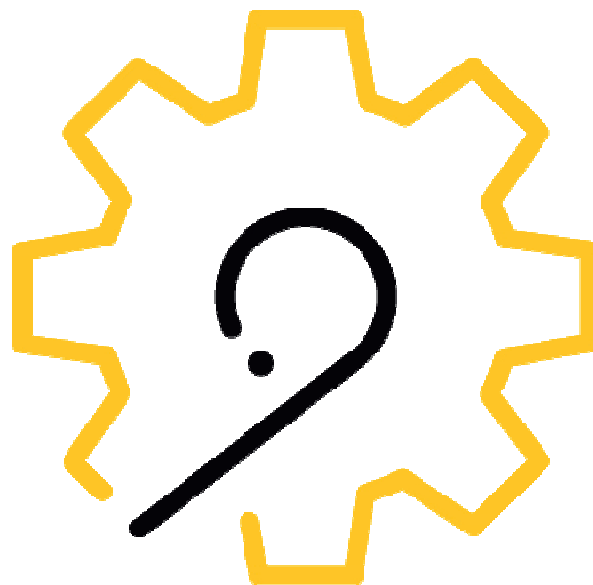
**PAGES**

16 pages

**DOCUMENT CONTROL NUMBER**

TTRF\_EU1103\_C(Jan-2025)

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## Local Space Heater ErP Test Report

<b>Report Number</b>	2502B0394SHA-001
<b>Test Laboratory:</b>	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No.1198, Qinzhou North Road, Shanghai, China
Date of issue:	18/03/2025
<b>Applicant Name:</b>	
Address:	
<b>Manufacturing Name:</b>	Same as applicant.
Address:	Same as applicant.
<b>Product:</b>	electric fixed local space heater
Brand Name:	<b>NA</b>
Description:	The product covered by this report is an Electric Fixed Local Space Heater for indoor use only.
Model(s) (if applicable):	Refer to annex model list.
Model Similarity:	Refer to annex model list.
Rated voltage (V):	220-240
Rated input frequency (Hz):	50/60
Rated input power (kW):	1,8
Heat output (kW):	1,8
Date of receipt of sample(s):	7/Mar/2025
Date of test:	7/Mar/2025
<b>Test standard(s) or criteria(s):</b>	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



**Product Information**

Model number of Unit Under Tested		EFW-20
Product Type		Fixed
With Thermostat		Yes
Thermostat Type		Electronic
With Daily or Weekly Timer		Yes
Timer Type		Weekly
Number of Heating Stages		2
Type of Control		Push button&Remote control
Oscillation	Type	NA
	Style	NA
Digital panel		No
<b>Other automatic controls:</b>		
<input type="checkbox"/>	Presence detection	<input type="checkbox"/> Adaptive start control
<input checked="" type="checkbox"/>	Open window detection	<input checked="" 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
<b>1. Specific ecodesign requirements for seasonal space heating energy efficiency</b>		
(d) seasonal space heating energy efficiency of electric portable local space heaters shall not be less than 44,7%;		N/A
(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%;	48,4%	P
(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	0,00	P
off-mode (Po) shall not exceed 0,30 W from 9 May 2027	0,00	P
Local space heaters have an standby mode and the power consumption in standby mode (Psm) shall not exceed 0,50 W	0,44	P
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	0,16	P
(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:		
(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.		N/A
(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): EFW-20					
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 <sub>nom</sub>	1,800	kW	single stage heat output and no room temperature control	No
Minimum heat output (indicative)	P <sub>min</sub>	0,900	kW	two or more manual stages, no room temperature control	No
Maximum continuous heat output	P <sub>max,c</sub>	1,800	kW	with mechanic thermostat room temperature control	No
<b>Power consumption</b>				with electronic room temperature control	
In off mode	P <sub>o</sub>	0,00	W	electronic room temperature control plus day timer	No
In standby mode	P <sub>sm</sub>	0,44	W	electronic room temperature control plus week timer	Yes
In idle mode	P <sub>idle</sub>	0,16	W	<b>Other control options (multiple selections possible)</b>	
In network standby	P <sub>nsm</sub>	N.A.	W	room temperature control, with presence detection	No
Standby mode with display information or status			No	room temperature control, with open window detection	Yes
Seasonal space heating energy efficiency in active mode	$\eta_{S,on}$	92,0	%	distance control option	No
				adaptive start control	No
				working time limitation	Yes
				black bulb sensor	No
				self-learning functionality	No
				control accuracy	No

**Test Data for EFW-20**

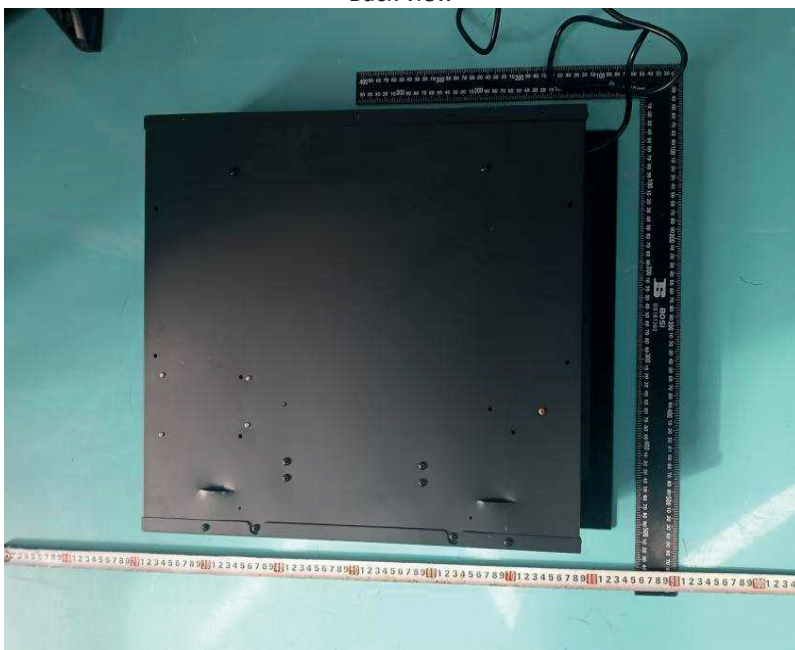
Description	Value
For electric local space heaters- $\eta_{th,nom}$	100%
The electric to primary energy 'conversion coefficient-CC	1.9
correction factor accounting for a positive contribution to the seasonal space heating energy efficiency due to adjusted contributions of controls of indoor heating comfort, the values of which are mutually exclusive, cannot be added to each other-F(2)	0.150
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)	0.020
Seasonal space heating energy efficiency in active mode- $\eta_{s,on}$ $\eta_{s,on} = \eta_{th,nom} \cdot [0.75+F(2)+F(3)]$	92.0%
Seasonal space heating energy efficiency - $\eta_s$ , for electric local space heaters $\eta_s = \eta_{s,on} / CC$	48.4%
Verdict	Pass

Photos (representative for EFW-20) :

Front view



Back view



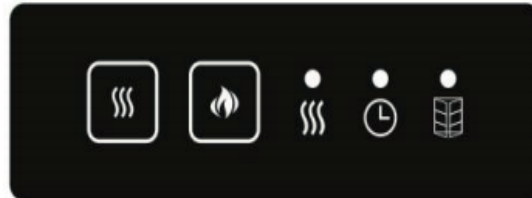
Control panel view



## OPERATION INSTRUCTIONS

Turn on the main power switch, the buzzer beeps once to indicate that the machine is powering on, then the machine is on standby.

### Manual operations



Press once for the heater to operate at 1800W



Indicates red. Press again for heater to operate at 900W

Press for the third time, the heating element turns off

**Note: after the heating elements are turned on manually, the heating elements work but are not controlled by the temperature sensor.**



Press once for the brightest setting


Press for the second time, for medium brightness option

Press for the third time for low brightness



Press for the fourth time to turn off.


**Note: If the heating elements are turned on by remote control, whether the heating elements switch on or not depends on the temperature setting and ambient temperature. They work only when the temperature setting is above the ambient temperature.**


**REMOTE CONTROL**






**ON/OFF**  
flame icon appears on the LCD screen of the remote control. Week, time (24h system), and temperature setting are displayed normally.



**Flame control switch.** In case of ON, press once, the flame and under bed lighting go out, the LCD screen does not display . Press again and the flame and under bed lighting turn on, the LCD screen displays .








Press  to adjust the brightness of flame.


 to adjust levels of under bed lighting.


  to adjust temperature setting between 7 and 30 °C.

 Shift key, the corresponding figure flashes.

Press   to then set current time and week on the stove.






 Setting key press for the first time and the LCD screen displays  to indicate Monday. Now the temperature setting flashes, press   to set the firing temperature for Monday, press key  to confirm and then press   the time setting for firing.

The displayed time parameter is "00-23."  to set the current operating state of firing function.

 Indicates that the timing is on currently and the control temperature is the temperature setting. No display indicates timing is off and so the heating elements will not function.

Press for the second time, it displays  , set the parameters for Tuesday.



Press for the 7th time and it displays  . Press for the 8th time and it exits and recovers to the current week day;

 Timing function turns on, the LCD screen displays  the indicator  lights green. Press again to turn off, icon  on the LCD screen  turns off.

After the timing function is turned on, The LCD screen lights up according to the corresponding parameter settings:










**Note: when the time, week and timing parameters are changed, you need to switch on-off the timing key to transfer the timing parameters to the stove.**

 Open Window function, the indicator lights yellow. Press again to turn off, the LCD screen does not display icon  and the indicator on the stove turns off.

After the Open Window function is turned on, the program firstly detects if the heating function is turned on. If it is turned on, the program will save the current ambient temperature value and detects the ambient temperature change once per 12 minutes. When the decrease in the ambient temperature detected within 30 minutes exceeds 4 °C ,the program will deem that the window is open and stop heating, the Open Window indicator on the stove will flash rapidly. After it has stopped heating for 70 minutes, the program starts to detect if the window is closed, and the indicator flashes slowly. It heats for 6 minutes every 30 minutes. If the temperature rise is more than 2 °C, the window is considered as closed, and the indicator stops flashing.

Labels (representative):

ELECTRIC FIREPLACE		    
MODEL	EFW-20	
VOLTAGE	220-240V~	 
FREQUENCY	50/60Hz	
AMPERAGE	8.2A	
WATTS	1800W	
DATE CODE	MM/YY	
		MADE IN CHINA
<b>Ningbo Hanks Heating Appliance Technology Co.,Ltd</b>		

**Annex Model List:**

Model(s)	Rated voltage (V AC)	Rated input frequency (Hz)	Number of Heating Stages	Nominal heat output, P <sub>nom</sub> (kW)	Maximum continuous heat output, P <sub>max,c</sub> (kW)	Minimum heat output, P <sub>min</sub> (kW)	Product Type	Thermostat Type	Type of Control	With Daily or Weekly Timer (Timer Type)	Remark (Verdict)
EFW-20, EFW-24, EFW-36, EFW-42, HKW-20, HKW-24, HKW-36, HKW-42, EFI-42, HKW-50, HKI-50, HKW-54, HKI-54, HKW-60, HKW-72	220-240	50/60	2	1.80	1.80	0.90	Fixed	Electronic	Push button & Remote control	Yes (Weekly)	Refer to the equivalent model EFW-20.

Model Similarity: Only the size is different, for EFW-20, EFW-24, EFW-36, EFW-42 the air outlet is at the bottom side; for HKW-20, HKW-24, HKW-36, HKW-42, HKW-50, HKI-50, HKW-54, HKI-54, HKW-60, HKW-72 the air outlet is at the top side

END