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TEST REPORT

Commission Regulation (EU) 2015/1188 implementing Directive 2009/125/EC with regard to ecodesign requirement for local space heater Annex II.1&III

Report reference No:	AOC250514003ER				
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Approved by (+ signature):	Robin Liu	Robin. Lin			
Date of issue	2025-05-22				
Contents::	14 pages				
Testing Laboratory	Shenzhen AOCE Electronic Te	chnology Service Co., Ltd			
Address:	Room 202, 2nd Floor, No.12th	Building of Xinhe Tongfuyu			
	Industrial Park, Fuhai Street, Ba	aoan District, Shenzhen,			
	Guangdong, China				
Testing location	Same as above				
Applicant's name	Ningbo Evinom Tech Co., Ltd				
Address:	No. 3 Tongji Road, Simen Industrial Zone, Yuyao City,				
	Ningbo City, Zhejiang Province	. P.R. China			
Test specification					
Standard:	Commission Regulation (EU) 20	015/1188 and (EU) 2015/1186			
Test procedure	Commission Regulation (EU) 2	015/1188 implementing Directive			
	2009/125/EC and (EU) 2015/11	86 supplementing Directive			
	2010/30/EU of the European Pa	arliament and of the Council with			
	2010/30/EU of the European Paregard to ecodesign requirement	arliament and of the Council with			
Non-standard test method:	•	arliament and of the Council with			
Non-standard test method: Test item description:	regard to ecodesign requirement	arliament and of the Council with			
	regard to ecodesign requirement	arliament and of the Council with			
Test item description:	regard to ecodesign requirement N/A Infrared panel heater	arliament and of the Council with			
Test item description: Trade Mark:	regard to ecodesign requirement N/A Infrared panel heater N/A	arliament and of the Council with hts for local space heaters			
Test item description: Trade Mark:	regard to ecodesign requirement N/A Infrared panel heater N/A Ningbo Evinom Tech Co., Ltd	arliament and of the Council with onts for local space heaters strial Zone, Yuyao City,			
Test item description: Trade Mark:	regard to ecodesign requirement N/A Infrared panel heater N/A Ningbo Evinom Tech Co., Ltd No. 3 Tongji Road, Simen Indus	arliament and of the Council with onts for local space heaters strial Zone, Yuyao City,			
Test item description: Trade Mark: Manufacturer:	regard to ecodesign requirement N/A Infrared panel heater N/A Ningbo Evinom Tech Co., Ltd No. 3 Tongji Road, Simen Indus Ningbo City, Zhejiang Province Same as manufacturer P1200ST-B, P300ST, P450ST,	arliament and of the Council with hts for local space heaters strial Zone, Yuyao City, P.R. China			

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Test item particulars:
Classification of installation and use Portable appliance
Supply Connection: Non-detachable power cord with a plug
Possible test case verdicts:
- test case does not apply to the test object: N/A
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F(Fail)
Testing::
Date of receipt of test item: 2025-04-25
Date (s) of performance of tests: 2025-04-25 to 2025-05-13
General remarks:
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.
Throughout this report a $\ \ \ \ \ \ \ \ \ \ \ \ \ $
General product information:
The whole testes are performed on model P1200ST-B.
All models are the same except for the model names.

Item	Symbol	Value	Unit	Item	Unit
Heatoutput				Type of heat input, for electric storage	local space
	T	1		heaters only (selectone)	T
Nominal heat	Prom	1,2	KW	manual heat charge control, with	Not applicable
output				integrated thermostat	
Minimum	Pmin	0,35	KW	manual heat charge control with room	Not applicable
heat output				and/or outdoor temperature feedback	
(indicative)					
Maximum	P _{mexc}	1,261	KW	electronic heat charge control with room	Not applicable
continuous				and/or outdoor temperature feedback	
heat output					
Auxiliary elec				fan assisted heat output	Not applicable
At nominal	el _{max}	1,106	KW	Type of heat output/room temperature	control (select
heat output			1.01/	one)	Γ
At minimum	elmin	0,297	KW	single stage heat output and no room	[no]
heat output			1.01/	temperature control	
In standby	elsa	0,25	KW	Two or more manual stages, no room	[no]
mode				temperature control	
				with mechanic thermostat room	[no]
				temperature control	
				with electronic room temperature control	[yes]
				electronic room temperature control plus	[yes]
				day timer	
				electronic room temperature control plus	[yes]
				week timer	
				Other control options (multiple selection	
				room temperature control, with	[yes]
				presence detection	
				room temperature control, with open	[yes]
				window detection	
				with distance control option	[yes]
				with adaptive start control	[yes]
				with working time limitation	[no]
				with black bulb sensor	[no]

Above information declared by client.

Copy of marking plate:

Rating Label

Infrared panel heater Model: P1200ST-B 220-240V~, 50Hz, 1200W



MADE IN CHINA

All labels are the same except their model name.

Remarks: The height dimension of WEEE symbol should not less than 7mm.

Summary of testing

Seasonal space heating energy efficiency	Limit	requirements
42%	≥38%	

All test items: Pass

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

ANNEX II of (EU) 2015/1188		
Ecodesign requirements		
Specific ecodesign requirements for seasonal space heating energy efficiency		Р
(a) Local space heaters shall comply with the following requirements from 1 January 2018		Р
(i) seasonal space heating energy efficiency of open fronted local space heaters using gaseous or liquid fuel shall not be less than 42 %;		N/A
(ii) seasonal space heating energy efficiency of closed fronted local space heaters using gaseous or liquid fuel shall not be less than 72 %;		N/A
(iii)seasonal space heating energy efficiency of electric portable local space heaters shall not be less than 36%;		Р
(iv)seasonal space heating energy efficiency of electric fixed local space heaters with a nominal heat output above 250 W shall not be less than 38 %;		N/A
(v)seasonal space heating energy efficiency of electric fixed local space heaters with a nominal heat output equal or below 250 W shall not be less than 34 %;		N/A
(vi) seasonal space heating energy efficiency of electric storage local space heaters shall not be less than 38,5 %;		N/A
seasonal space heating energy efficiency of electric underfloor		N/A
local space heaters shall not be less than 38 %; seasonal space heating energy efficiency of electric radiant		N/A
local space heaters shall not be less than 35 %; seasonal space heating energy efficiency of electric visibly glowing radiant local space heaters with a nominal heat output		N/A
above 1,2 kW shall not be less than 35 %; seasonal space heating energy efficiency of electric visibly glowing radiant local space heaters with a nominal heat output		N/A
equal or below 1,2 kW shall not be less than 31 %; seasonal space heating energy efficiency of luminous local		N/A
space heaters shall not be less than 85 %; seasonal space heating energy efficiency of tube local space		N/A
heaters shall not be less than 74 %.		NI/A
Specific ecodesign requirements for emissions From 1 January 2018 emissions of nitrogen oxides (NOx) from liquid and gaseous fuel local space heaters shall not exceed the following values:		N/A N/A
(i)emissions of NOx by open fronted local space heaters and closed fronted local space heaters using gaseous or liquid fuels shall not exceed 130 mg/kWhinput based on GCV;		N/A
(ii)emissions of NOx by luminous local space heaters and tube local space heaters shall not exceed 200 mg/kWhinput based on GCV.		N/A
ANNEX III of (EU) 2015/1188		
1 Measurements and calculations	Remark	verdict
For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published for this purpose in the <i>Official Journal of the European Union</i> , or using other reliable, accurate and reproducible methods that take into account the generally recognised state-of-the-art methods		P
account the generally recognised state-of-the-art methods. They shall meet the conditions set out in points 2 to 5.		

	(EU) 2015/1188		
Clause	Requirement - Test	Result - Remark	Verdict
2	General conditions for measurements and calculations		
(a)			P
(a)	Declared values for nominal heat output and seasonal space heating energy efficiency shall be rounded to the nearest one decimal place.		
(b)	Declared values for emissions shall be rounded to the nearest integer.		Р
3	General conditions for seasonal space heating energy efficiency		-
(a)	The seasonal space heating energy efficiency (ηS) shall be calculated as the seasonal space heating energy efficiency in active mode (ηS ,on), corrected by contributions accounting for heat storage and heat output control, auxiliary electricity consumption and permanent pilot flame energy consumption.		Р
(b)	The consumption of electricity shall be multiplied by a conversion coefficient (CQ) of 2,5.	2.5	Р
4	General conditions for emissions		-
(a)	For gaseous and liquid fuel local space heaters the measurement shall take account of emissions of nitrogen oxides (NOx). Emissions of nitrogen oxides shall be calculated as the sum of nitrogen monoxide and nitrogen dioxide, and expressed in nitrogen dioxide.		N/A
5	Specific conditions for seasonal space heating energy efficiency		-
(a)	The seasonal space heating energy efficiency of all local space heaters except commercial local space heaters is defined as: $\eta_S = \eta_{S,on} - 10 \% + F(1) + F(2) + F(3) - F(4) - F(5)$		Р
	The seasonal space heating energy efficiency of commercial local space heaters is defined as: $\eta_S = \eta_{S,on} - F(1) - F(4) - F(5)$		N/A
	Where:		_
	 —ηS,on is the seasonal space heating energy efficiency in active mode, expressed in %, calculated as set out in point 5(b); 		Р
	— <i>F</i> (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 %;		P
	— F(2) is a correction factor accounting for a positive contribution to the seasonal space heating energy efficiency due to adjusted contributions of controls of indoor heating comfort, the values of which are mutually exclusive, cannot be added to each other, expressed in %;		Р
	— F(3) is a correction factor accounting for a positive contribution to the seasonal space heating energy efficiency due to adjusted contributions of controls for indoor heating comfort the values of which can be added to each other, expressed in %;		P
	 — F(4) is a correction factor accounting for a negative contribution to the seasonal space heating energy efficiency by 		Р

		(EU) 2015/1188				
Clause	Requirement - Test		Result - Remark	Verdict		
	auxiliary electricity consumption, exp	rossed in %:				
	 auxiliary electricity consumption, expl — F(5) is a correction factor accounting contribution to the seasonal space he energy consumption of a permanent in %. 	ng for a negative eating energy efficiency by		Р		
(b)	The seasonal space heating energy of calculated as:	efficiency in active mode is		Р		
		For all local space heaters except electric local space heaters				
	$\eta_{S,on} = \eta_{th,nom}$					
	For electric local space heaters:			Р		
	$\eta_{S,on} = \frac{1}{CC} \cdot \eta_{th,on}$					
	For commercial local space heaters:			N/A		
	$\eta_{S,on} = \eta_{S,th} \cdot \eta_{S,RF}$					
	For tube local space heaters:			N/A		
	$\eta_{S,th} = (0.15 \cdot \eta_{th,nom} + 0.85 \cdot \eta_{th,min}$	$_{\rm n}$) $-F_{\rm env}$				
	Table 4 Envelope loss factor of the he			-		
	Thermal transmittance of envelope			N/A		
	(U) U ≤ 0,5	2,2 %				
	0,5 < U ≤ 1,0	2,4 %				
	1,0 < U ≤ 1,4	3,2 %				
	1,4 < U ≤ 2,0	3,6 %				
	U > 2,0	6,0 %	D "	N1/A		
	The emission efficiency of commercial calculated as follows: $\eta_{S,RF} = \frac{(0.94 \cdot RF_s) + 0.19}{(0.46 \cdot RF_s) + 0.45}$	ai local space neaters is	Domestic use only	N/A		
	Where:			N/A		
	—RFS is the radiant factor of the con heater, expressed in %.	nmercial local space		N/A		
	For all commercial local space heaters	s except tube systems:		N/A		
	$RF_s = 0.15 \cdot RF_{nom} + 0.85 \cdot RF_{min}$			N/A		
	Where: — RFnom, is the radiant factor at nor expressed in %; — RFmin, is the radiant factor at mini expressed in %.	·		N/A		
	For tube systems:		Not tube type	N/A		
	$RF_S = \sum_{i=1}^{n} (0.15 \cdot RF_{nom,i} + 0.85 \cdot RF_n)$	$\frac{P_{heater,i}}{P_{system}}$		N/A		
	Where: — RFnom,i, is the radiant factor per to heat output, expressed in %; — RFmin,i, is the radiant factor per to heat output, expressed in %; — Pheater,i, is the heat output per to kW, based on GCV; — Psystem, is the heat output of the expressed in kW, based on GCV.	ube segment at minimum be segment, expressed in		N/A		

		(EU)	2015/1188			
Clause	Requirement - Test			Result - Remark	Verdict	
	The above equation only appurer, tubes and reflectors the tube system is identical tand the settings that determ segment are identical to those	of the tube se to a single tub- ine the perforr	gment as applied in e local space heater mance of a the tube		N/A	
(c)	heater. The correction factor <i>F</i> (1) acc to the seasonal space heating contributions of controls for list distributed through natural electric storage local space for commercial local space the product of regulating its		P			
	For electric storage local spa	ace heaters th			N/A	
	In case the product is equippexclusive) options shown in shall be increased with the control of	oed with one c	of the (mutually brrection factor F(1)		N/A	
	Table 5				N/A	
	Correction factor F(1) for election factor F(1) for election factor F(1) for election factor F(1) for election factor for election factor fact	th (only one	F(1) is increased by		N/A	
	integrated thermostat Manual heat charge control and/or outdoor temperature Electronic heat charge control	feedback ol with room	2,0 %			
	and/or outdoor temperature controlled by energy supplie In case the heat output of the heater is assisted by a fan, a	r e electric stora			N/A	
	to F(1). For commercial local space		eat output correction		N/A	
	Factor is calculated as follows Table 6 Correction factor F(1) for con		space heaters		N/A	
	If the heat output control type of the products is:	F(1) is calcu			N/A	
	Single stage Two stage	$F(1) = 5 \%$ $F(1) = 5 \% - \left(2,5 \%\right)$	$-\frac{P_{\text{nom}} - P_{\text{min}}}{30 \% \cdot P_{\text{nom}}}$		N/A N/A	
	Modulating	$F(1) = 5\% - \left(5.0\% \cdot \frac{F}{4}\right)$	$\frac{P_{\text{nom}} - P_{\text{min}}}{O \% \cdot P_{\text{nom}}}$		N/A	
	The minimum value of the correction factor F(1) for two stage commercial local space heaters is 2,5 %, and for modulating commercial local space heaters is 5 %.					
	For local space heaters not commercial local space heat be 0 (zero).	being electric		F(1)=0%	Р	
(d)	The correction factor F(2) acc to the seasonal space heatir contributions of controls for i of which are mutually exclus	ng efficiency d ndoor heating	ue to adjusted comfort, the values		Р	

			(EU)	2015/1188	3			
Clause	Requirement - Test					Result	t -Remark	Verdict
	other, is calculated as f For all local space hea one of the factors acco control characteristic a	ters the co	able 7, de	pending o	n which			P
	Table 7 Correction factor F(2)	ррисо. Оп	ny one var	de dan be	ocicotca.	F(2)=	3,0%	Р
	If the product is equipped with (only one option may apply):	for elec Portab	ctric local le Fixed		iters	fl Radia	for local space heaters using gaseous or liquid fuels	-
	Single stage heat output, no room temperature control	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %		-
	Two or more manual stages, no temperature control		0,0 %		0,0 %	·		
	With mechanic thermostat room temperature control	6,0 %	1,0 %		1,0 %	1,0 %		
	With electronic room temperature control	7,0 %	3,0 %		3,0 %	2,0 %		-
	With electronic room temperature control plus day timer	8,0 %	5,0 %		5,0 %	3,0 %		
	With electronic room temperature control plus week timer	9,0 %	7,0 %	3,5 %	7,0 %	4,0 %	7,0 %	
	The <i>F</i> (2) correction fact space heaters.	or does n	ot apply to	commerc	cial local			N/A
(e)	The correction factor <i>F</i> to the seasonal space contributions of control of which can be added	heating ef s for indo	ficiency di or heating	ue to adjus comfort, t	sted he values			Р
	For all local space hea summation of the value which control characte	ters the co es accordi	orrection fang to Tabl	actor <i>F</i> (3) i	s the	None table	of function in 2	Р
	Table 8 Correction factor F(3)		•			F(3)=	0,0%	Р
	If the product is equipped with (multiple options may apply):	for electr Portabl e	ic local sp Fixed	ace heate Storag e	F(3) ers Underfl oor	Radian t	for local space heaters using gaseous or liquid fuels	-
	Room temperature control with presence detection	1,0 %	0,0 %	0,0 %	0,0 %	2,0 %	1,0 %	
	Room temperature control with open window detection	1,0 %	1,0 %	0,5 %	1,0 %	1,0 %	1,0 %	
	With distance control option	0,0 %	1,0 %	0,5 %	1,0 %	1,0 %	1,0 %	
	With adaptive start control	0,0 %	1,0 %	0,5 %	1,0 %	0,0 %	0,0 %	

			(EU)	2015/1188	3			
Clause	Requirement - Test					Resul	t - Remark	Verdict
			T = = = .	1	1	T		1
	With working time limitation	0,0 %	0,0 %	0,0 %	0,0 %	1,0 %	0,0 %	
	With black bulb	0,0 %	0,0 %	0,0 %	0,0 %	1,0 %	0,0 %	
(f)	sensor The auxiliary electricity	use corre	l ection fact	l or <i>F</i> (4) is c	l alculated			P
	as:							
	This correction factor to use during on-mode ar			•	electricity/	′		Р
	For electric local space				ulated as			Р
	follows: The auxiliary electricity	LISE COTT	ection fact	or <i>F</i> (4) is c	alculated			P
	as:	450 0011	collor rack	31 7 (1) 13 0	aloulatou			•
	$F(4) = CC \cdot \frac{\alpha \cdot el_{zb}}{P_{nom}} \cdot 100$	[%]						
	Where:				1	F(4)	00/	Р
	— <i>elst</i> isthe standby election					F(4)=	:0% dby mode:	
	expressed in kW; — αi	s a factor	taking into	account	whether	0.25V	V	
	the product complies w 1275/2008 (1):	ith Comn	nission Re	gulation (E	EC) No		ode: 0.13W er Management	
	— if the product compl	ies with th	ne limit val	ues set in	Regulation		on: N/A	
	(EC) No 1275/2008, α						uct comply with	
	if the product does rRegulation (EC) No 12				s set in	No 12	275/2008	
	For local space heaters	s using ga	aseous or	liquid fuels				N/A
	auxiliary electricity use	correctio	n is calcula	ated as fol	lows:			
	$F(4) = CC \cdot \frac{0.2 \cdot el_{max} + 0}{2}$	P_{nom}	1,3 · el _{2b} · 10	0[%]				
	Where: — elmax is the electric	nower co	ncumption	at nomin	al boat			-
	output, expressed in k		nsumption	i at Hollill	ai neat			
	— elmin is the electric							
	output, expressed in k\ minimum heat output tl							
	consumption at nomina	al heat ou	tput shall b	oe used;				
	 — elsb is the electric p standby mode, express 			of the proc	luct while	in		
	— <i>Pnom</i> is the nomina			product, e	xpressed	in		
	kW.				•			h1/A
	For commercial local s correction factor is calc			ixiliary ele	ctricity use	•		N/A
	per transfer de la companya del companya de la companya del companya de la compan			100[%]				
()	$F(4) = CC \cdot \frac{0.15 \cdot el_{max} + 1}{1}$						00/	
(g)	The correction factor F a permanent pilot flam	è is calcu	lated as fo	llows:		` '		P
	This correction factor to flame power requirement		account th	e perman	ent pilot	No pi	lotflame	N/A
	For local space heaters		aseous or	liquid fuels	s it is			N/A
	calculated as:							
	$F(5) = 0.5 \cdot \frac{P_{\text{pilot}}}{P_{\text{norm}}} \cdot 100[\%]$							
	Where:		ontice -	*****	L\\/.			N/A
	Ppilot is the pilot flamPnom is the nominal					,		
	kW.		2o p		,			

	(EU) 2015/1188								
Clause	e Requirement - Test Result - Remark								
	For commercial local space heaters the correction factor is calculated as: $F(5) = 4 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100 [\%]$		N/A						
	In case the product has no permanent pilot light (flame) Ppilot is 0 (zero).		N/A						
	Where: — Ppilot is the pilot flame consumption, expressed in kW; — Pnom is the nominal heat output of the product, expressed in kW.		N/A						

Attachment No. 1: Photo documents





Fig.2





Fig.4

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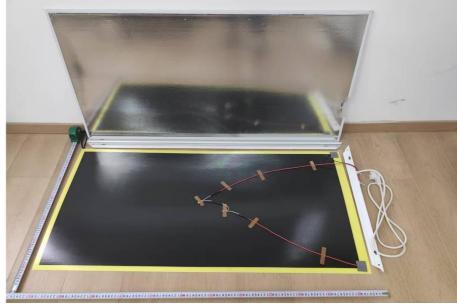


Fig.5

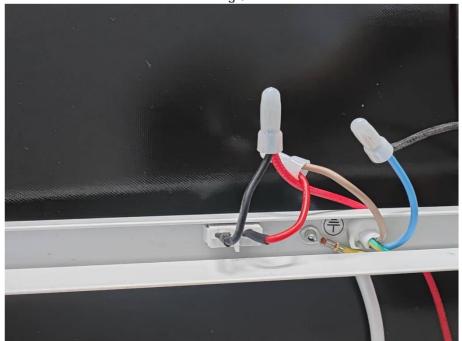


Fig.6

*** End of Report ***

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