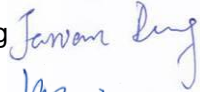



The following sample was submitted and identified on behalf of the client as:

<b>TEST REPORT</b> <b>COMMISSION REGULATION (EU) No 811/2013</b> <b>of 18 February 2013</b> <b>supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device</b>  <b>COMMISSION REGULATION (EU) No 813/2013</b> <b>of 2 August 2013</b> <b>implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters</b>	
<b>Report Reference No</b> .....	AHEE231000219051
Tested by (name + signature).....	Jarvan Deng 
Approved by (+ signature) .....	Hunter Lin 
Date of issue.....	2023-11-20
Total number of pages .....	34 pages
<b>Testing Laboratory</b> .....	SGS-CSTC Standards Technical Services Co., Ltd. Anhui Branch
Address .....	1/F&2/F, West Building C12, Gongtuo Liheng Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, 230601 Anhui, China
<b>Applicant's name</b> .....	Ningbo AUX Electric Co., Ltd.
Address .....	1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China
<b>Test specification:</b>	
Standard.....	COMMISSION REGULATION (EU) No 811/2013; (EU) No 813/2013 EN 14825: 2018
Test procedure.....	STR: EU Directive 2009/125/EC
Non-standard test method.....	None
<b>Test Report Form No.</b> .....	811/2013_01/ 813/2013_1
Test Report Form(s) Originator.....	SGS-CSTC
Master TRF.....	2015-04-27
<p><b>This test report is issued under SGS general terms of delivery (available on request and accessible at <a href="http://www.sgs.com">www.sgs.com</a>). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for three months. This document cannot be reproduced except in full, without prior approval of SGS.</b></p> <p><b>Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law</b></p>	
<b>Test item description</b> .....	Air to Water Heat pump
Trade Mark .....	AUX
Manufacturer.....	Same as applicant
Model/Type reference .....	ACHP-H10/5R2HA-M
Ratings .....	Refer to marking plates

**Summary of testing:**

**Tests performed (name of test and test clause):**




COMMISSION REGULATION (EU) No 811/2013  
 COMMISSION REGULATION (EU) No 813/2013.  
 EN 14825: 2018

**Testing location:**

Refer to p.1


**Copy of marking plate**

The marking plate is only the draft.

**Monobloc Heat Pump**

<b>Model</b>	<b>ACHP-H10/5R2HA-M</b>
<b>Rated Cooling Capacity</b>	<b>10.00kW</b>
<b>Rated Heating Capacity</b>	<b>10.00kW</b>
<b>Rated Voltage</b>	<b>380-415V-3N~</b>
<b>Rated Frequency</b>	<b>50Hz</b>
<b>Max. Input Power</b>	<b>13700W</b>
<b>Refrigerant</b>	<b>R290(GWP:3)</b>
<b>Refrigerant Quantity</b>	<b>0.85kg/0.0022tCO<sub>2</sub>eq.</b>
<b>Net Weight</b>	<b>140kg</b>
<b>Max. Discharged Pressure</b>	<b>3.2MPa</b>
<b>Max. Suction Pressure</b>	<b>1.0MPa</b>
<b>Max. Water Pressure</b>	<b>0.3MPa</b>
<b>Electric Shock Prevention</b>	<b>Class I</b>
<b>Resistance Class</b>	<b>IP24</b>
<b>Electric Heater</b>	
<b>Rated Voltage</b>	<b>380-415V-3N~</b>
<b>Input Power</b>	<b>9000W</b>
<b>Date</b>	<b>2023.09</b>
<b>No.</b>	<b>G72676002309100001</b>



Contains fluorinated greenhouse gases  
 Manufacturer: Ningbo AUX Electric Co., Ltd.  
 Postal address: 1166 Mingguang North Road,  
 Jiangshan Yinzhou District, Ningbo, 315191  
 Zhejiang, China  
 Importer: XXXXXXXXXX  
 Postal address: XXXXXXXXXX

<b>Test item particulars</b> .....	: Air to Water Heat pump
Classification of installation and use .....	: Fixed appliance
Supply Connection .....	: Connected to fixed wiring
.....	:
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing</b> .....	
Date of receipt of test item .....	: 2023-09-28
Date (s) of performance of tests .....	: 2023-09-28 to 2023-10-16
<b>General remarks:</b>	
<p>The test results presented in this report relate only to the object tested.          This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.          "(see Enclosure #)" refers to additional information appended to the report.          "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>This document is issued by the company under its General Conditions of Service accessible at <a href="http://www.sgs.com/terms_and_conditions.htm">http://www.sgs.com/terms_and_conditions.htm</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.</p> <p>Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.</p> <p>Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days. This document cannot be reproduced except in full, without prior approval of the company.</p>	
<b>General product information:</b>	
The appliances are design for space heating used and with refrigerant R290.	

COMMISSION REGULATION (EU) No 813/2013			
Cl.	Requirement-Test	Result-Remark	Verdict
	Ecodesign requirements		—
ANNEX I	Definitions applicable for Annexes II to V		P
ANNEX II	Ecodesign requirements		P
1. (a)	From 26 September 2015 the seasonal space heating energy efficiency and useful efficiencies of heaters shall not fall below the following values:		P
	Fuel boiler space heaters with rated heat output $\leq 70$ kW and fuel boiler combination heaters with rated heat output $\leq 70$ kW, with the exception of type B1 boilers with rated heat output $\leq 10$ kW and type B1 combination boilers with rated heat output $\leq 30$ kW:		—
	The seasonal space heating energy efficiency shall not fall below 86 %.		N/A
	Type B1 boilers with rated heat output $\leq 10$ kW and type B1 combination boilers with rated heat output $\leq 30$ kW:		—
	The seasonal space heating energy efficiency shall not fall below 75 %.		N/A
	Fuel boiler space heaters with rated heat output $> 70$ kW and $\leq 400$ kW and fuel boiler combination heaters with rated heat output $> 70$ kW and $\leq 400$ kW:		—
	The useful efficiency at 100 % of the rated heat output shall not fall below 86 %, and the useful efficiency at 30 % of the rated heat output shall not fall below 94 %.		N/A
	Electric boiler space heaters and electric boiler combination heaters:		—
	The seasonal space heating energy efficiency shall not fall below 30 %.		N/A
	Cogeneration space heaters:		—
	The seasonal space heating energy efficiency shall not fall below 86 %.		N/A
	Heat pump space heaters and heat pump combination heaters, with the exception of low-temperature heat pumps:		—
	The seasonal space heating energy efficiency shall not fall below 100 %.		P
	Low-temperature heat pumps:		—
	The seasonal space heating energy efficiency shall not fall below 115 %.		P
(b)	From 26 September 2017 the seasonal space heating energy efficiency of electric boiler space heaters, electric boiler combination heaters, cogeneration space heaters, heat pump space heaters and heat pump combination heaters shall not fall below the following values:		—
	Electric boiler space heaters and electric boiler combination heaters:		—
	The seasonal space heating energy efficiency shall not fall below 36 %.		N/A
	Cogeneration space heaters:		—

COMMISSION REGULATION (EU) No 813/2013												
Cl.	Requirement-Test										Result-Remark	Verdict
	The seasonal space heating energy efficiency shall not fall below 100 %.											N/A
	Heat pump space heaters and heat pump combination heaters, with the exception of low-temperature heat pumps:											—
	The seasonal space heating energy efficiency shall not fall below 110 %.											P
	Low-temperature heat pumps:											—
	The seasonal space heating energy efficiency shall not fall below 125 %.											P
2.	REQUIREMENTS FOR WATER HEATING ENERGY EFFICIENCY											N/A
(a)	From 26 September 2015 the water heating energy efficiency of combination heaters shall not fall below the following values:											—
	Declared load profile	3XS	XXS	XS	S	M	L	XL	XXL	3XL	4XL	N/A
	Water heating energy efficiency	22 %	23 %	26 %	26 %	30 %	30 %	30 %	32 %	32 %	32 %	
(b)	From 26 September 2017 the water heating energy efficiency of combination heaters shall not fall below the following values:											—
	Declared load profile	3XS	XXS	XS	S	M	L	XL	XXL	3XL	4XL	N/A
	Water heating energy efficiency	32 %	32 %	32 %	32 %	36 %	37 %	38 %	60 %	64 %	64 %	
3	REQUIREMENTS FOR SOUND POWER LEVEL											—
	From 26 September 2015 the sound power level of heat pump space heaters and heat pump combination heaters shall not exceed the following values:											—
	Rated heat output ≤ 6 kW		Rated heat output > 6 kW and ≤ 12 kW			Rated heat output > 12 kW and ≤ 30 kW			Rated heat output > 30 kW and ≤ 70 kW			P
	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors		
	60 dB	65 dB	65 dB	70 dB	70 dB	78 dB	80 dB	88 dB				
4.	REQUIREMENTS FOR EMISSIONS OF NITROGEN OXIDES											N/A
5	REQUIREMENTS FOR PRODUCT INFORMATION											—
	From 26 September 2015 the following product information on heaters shall be provided:											P
(a)	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

<b>COMMISSION REGULATION (EU) No 813/2013</b>			
Cl.	Requirement-Test	Result-Remark	Verdict
	for boiler space heaters, boiler combination heaters and cogeneration space heaters, the technical parameters set out in Table 1, measured and calculated in accordance with Annex III;		N/A
	for heat pump space heaters and heat pump combination heaters, the technical parameters set out in Table 2, measured and calculated in accordance with Annex III;		P
	any specific precautions that shall be taken when the heater is assembled, installed or maintained;		P
	for type B1 boilers and type B1 combination boilers, their characteristics and the following standard text: 'This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs;		N/A
	for heat generators designed for heaters, and heater housings to be equipped with such heat generators, their characteristics, the requirements for assembly, to ensure compliance with the ecodesign requirements for heaters and, where appropriate, the list of combinations recommended by the manufacturer;		N/A
	information relevant for disassembly, recycling and/or disposal at end-of-life;		P
(b)	the technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain the following elements:		P
	the elements specified in point (a);		P
	for heat pump space heaters and heat pump combination heaters where the information relating to a specific model comprising a combination of indoor and outdoor units has been obtained by calculation on the basis of design and/or extrapolation from other combinations, the details of such calculations and/or extrapolations, and of any tests undertaken to verify the accuracy of the calculations, including details of the mathematical model for calculating the performance of such combinations and details of the measurements taken to verify this model;		P
(c)	the following information shall be durably marked on the heater:		N/A

COMMISSION REGULATION (EU) No 813/2013			
Cl.	Requirement-Test	Result-Remark	Verdict
	if applicable, 'type B1 boiler' or 'type B1 combination boiler';		N/A
	for cogeneration space heaters, the electrical capacity.		N/A
ANNEX III	Measurements and calculations		—
1	For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published in the <b>Official Journal of European Union</b> , or other reliable, accurate and reproducible method, which takes into account the generally recognised state of the art methods, and whose results are deemed to be of low uncertainty. They shall fulfil all of the following technical parameters.	EN 14825:2018, EN 14511-2:2018, EN 14511-3:2018, EN 12102-1:2017 were used.	P
2	General conditions for measurements and calculations		P
	(a) For the purposes of the measurements set out in points 2 to 5, the indoor ambient temperature shall be set at 20 °C ± 1 °C.		P
	(b) For the purposes of the calculations set out in points 3 to 5, consumption of electricity shall be multiplied by a conversion coefficient CC of 2,5.		P
	(c) Emissions of nitrogen oxides shall be measured as the sum of nitrogen monoxide and nitrogen dioxide, and expressed in nitrogen dioxide.		N/A
	(d) For heaters equipped with supplementary heaters, the measurement and calculation of rated heat output, seasonal space heating energy efficiency, water heating energy efficiency, sound power level and emissions of nitrogen oxides shall take account of the supplementary heater.		N/A
	(e) Declared values for rated heat output, seasonal space heating energy efficiency, water heating energy efficiency, sound power level and emissions of nitrogen oxides shall be rounded to the nearest integer.		P
	(f) Any heat generator designed for a heater, and any heater housing to be equipped with such a heat generator, shall be tested with an appropriate heater housing and heat generator, respectively.		N/A
3	Seasonal space heating energy efficiency of boiler space heaters, boiler combination heaters and cogeneration space heaters		N/A
	The seasonal space heating energy efficiency $\eta_s$ shall be calculated as the seasonal space heating energy efficiency in active mode $\eta_{son}$ , corrected by contributions accounting for temperature controls, auxiliary electricity consumption, standby heat loss, ignition burner power consumption (if applicable) and, for cogeneration space heaters, corrected by adding the electrical efficiency multiplied by a conversion coefficient CC of 2,5.		N/A



COMMISSION REGULATION (EU) No 813/2013			
Cl.	Requirement-Test	Result-Remark	Verdict
4	Seasonal space heating energy efficiency of heat pump space heaters and heat pump combination heaters		P
	(a)For establishing the rated coefficient of performance COP rated or rated primary energy ratio PER rated , the sound power level or emissions of nitrogen oxides, the operating conditions shall be the standard rating conditions set out in Table 3 and the same declared capacity for heating shall be used.		P
	(b)The active mode coefficient of performance SCOP on or active mode primary energy ratio SPER on shall be calculated on the basis of the part load for heating $P_h(T_j)$ , the supplementary capacity for heating $sup(T_j)$ (if applicable) and the bin-specific coefficient of performance $COP_{bin}(T_j)$ or bin-specific primary energy ratio $PER_{bin}(T_j)$ , weighted by the bin-hours for which the bin conditions apply, using the following conditions:		P
	— the reference design conditions set out in Table 4;		P
	— the European reference heating season under average climate conditions set out in Table 5;		P
	— if applicable, the effects of any degradation of energy efficiency caused by cycling depending on the type of control of the heating capacity.		P
	(c)The reference annual heat demand $Q_H$ shall be the design load for heating $P_{designh}$ multiplied by the annual equivalent active mode hours $H_{HE}$ of 2 066.		P
	(d)The annual energy consumption $Q_{HE}$ shall be calculated as the sum of:		P
	— the ratio of the reference annual heating demand $Q_H$ and the active mode coefficient of performance SCOP on or active mode primary energy ratio SPER on and		P
	— the energy consumption for off, thermostat-off, standby, and crankcase heater mode during the heating season.		P
	(e)The seasonal coefficient of performance SCOP or seasonal primary energy ratio SPER shall be calculated as the ratio of the reference annual heat demand $Q_H$ and the annual energy consumption $Q_{HE}$ .		P
	(f)The seasonal space heating energy efficiency $\eta_s$ shall be calculated as the seasonal coefficient of performance SCOP divided by the conversion coefficient CC or the seasonal primary energy ratio SPER, corrected by contributions accounting for temperature controls and, for water-/brine-to-water heat pump space heaters and heat pump combination heaters, the electricity consumption of one or more ground water pumps.		P
5	Water heating energy efficiency of combination heaters		N/A



COMMISSION REGULATION (EU) No 813/2013																																															
Cl.	Requirement-Test		Result-Remark			Verdict																																									
	The water heating energy efficiency $\eta_{wh}$ of a combination heater shall be calculated as the ratio between the reference energy $Q_{ref}$ of the declared load profile and the energy required for its generation under the following conditions:					N/A																																									
	(a) measurements shall be carried out using the load profiles set out in Table 7;					N/A																																									
	(b) measurements shall be carried out using a 24-hour measurement cycle as follows: — 00:00 to 06:59: no water draw-off; — from 07:00: water draw-offs according to the declared load profile; — from end of last water draw-off until 24:00: no water draw-off;					N/A																																									
	(c) the declared load profile shall be the maximum load profile or the load profile one below the maximum load profile;					N/A																																									
	(d) for heat pump combination heaters, the following additional conditions apply: — heat pump combination heaters shall be tested under the conditions set out in Table 3; — heat pump combination heaters which use ventilation exhaust air as the heat source shall be tested under the conditions set out in Table 6.					N/A																																									
Table 3	<p style="text-align: center;"><i>Table 3</i> Standard rating conditions for heat pump space heaters and heat pump combination heaters</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="3">Heat source</th> <th>Outdoor heat exchanger</th> <th colspan="4">Indoor heat exchanger</th> </tr> <tr> <th rowspan="2">Inlet dry bulb (wet bulb) temperature</th> <th colspan="2">Heat pump space heaters and heat pump combination heaters, except low-temperature heat pumps</th> <th colspan="2">Low-temperature heat pumps</th> </tr> <tr> <th>Inlet temperature</th> <th>Outlet temperature</th> <th>Inlet temperature</th> <th>Outlet temperature</th> </tr> </thead> <tbody> <tr> <td>Outdoor air</td> <td>+ 7 °C (+ 6 °C)</td> <td rowspan="2">+ 47 °C</td> <td rowspan="2">+ 55 °C</td> <td rowspan="2">+ 30 °C</td> <td rowspan="2">+ 35 °C</td> </tr> <tr> <td>Exhaust air</td> <td>+ 20 °C (+ 12 °C)</td> </tr> <tr> <td></td> <td>Inlet/outlet temperature</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Water</td> <td>+ 10 °C/+ 7 °C</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Brine</td> <td>0 °C/- 3 °C</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Heat source	Outdoor heat exchanger	Indoor heat exchanger				Inlet dry bulb (wet bulb) temperature	Heat pump space heaters and heat pump combination heaters, except low-temperature heat pumps		Low-temperature heat pumps		Inlet temperature	Outlet temperature	Inlet temperature	Outlet temperature	Outdoor air	+ 7 °C (+ 6 °C)	+ 47 °C	+ 55 °C	+ 30 °C	+ 35 °C	Exhaust air	+ 20 °C (+ 12 °C)		Inlet/outlet temperature					Water	+ 10 °C/+ 7 °C					Brine	0 °C/- 3 °C					P
Heat source	Outdoor heat exchanger	Indoor heat exchanger																																													
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Brine	0 °C/- 3 °C																																														
Table 4	<p style="text-align: center;"><i>Table 4</i> Reference design conditions for heat pump space heaters and heat pump combination heaters, temperatures in dry bulb air temperature (wet bulb air temperature indicated in brackets)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Reference design temperature</th> <th>Bivalent temperature</th> <th>Operation limit temperature</th> </tr> </thead> <tbody> <tr> <td><math>T_{designh}</math></td> <td><math>T_{biv}</math></td> <td>TOL</td> </tr> <tr> <td>- 10 (- 11) °C</td> <td>maximum + 2 °C</td> <td>maximum - 7 °C</td> </tr> </tbody> </table>					Reference design temperature	Bivalent temperature	Operation limit temperature	$T_{designh}$	$T_{biv}$	TOL	- 10 (- 11) °C	maximum + 2 °C	maximum - 7 °C	P																																
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COMMISSION REGULATION (EU) No 813/2013										
Cl.	Requirement-Test						Result-Remark			Verdict
Table 5	Table 5 European reference heating season under average climate conditions for heat pump space heaters and heat pump combination heaters									P
	$bin_i$		$T_i$ [°C]				$H_i$ [h/annum]			
	1 to 20		- 30 to - 11				0			
	21		- 10				1			
	22		- 9				25			
	23		- 8				23			
	24		- 7				24			
	25		- 6				27			
	26		- 5				68			
	27		- 4				91			
	28		- 3				89			
	29		- 2				165			
	30		- 1				173			
	31		0				240			
	32		1				280			
	33		2				320			
	34		3				357			
	35		4				356			
	36		5				303			
	37		6				330			
	38		7				326			
	39		8				348			
	40		9				335			
	41		10				315			
	42		11				215			
	43		12				169			
	44		13				151			
45		14				105				
46		15				74				
Total hours:						4 910				
Table	Table 6 Maximum ventilation exhaust air available [m <sup>3</sup> /h], at humidity of 5,5 g/m <sup>3</sup>									N/A
	Declared load profile	XXS	XS	S	M	L	XL	XXL	3XL	
Maximum ventilation exhaust air available		109	128	128	159	190	870	1 021	2 943	8 830

COMMISSION REGULATION (EU) No 811/2013																									
Cl.	Requirement-Test	Result-Remark	Verdict																						
<b>ANNEX II</b>	<b>Energy efficiency classes</b>		P																						
1	<b>SEASONAL SPACE HEATING ENERGY EFFICIENCY CLASSES</b>		—																						
	The seasonal space heating energy efficiency class of a heater, with the exception of low-temperature heat pumps and heat pump space heaters for low-temperature application, shall be determined on the basis of its seasonal space heating energy efficiency as set out in Table 1.		P																						
	The seasonal space heating energy efficiency classes of a low-temperature heat pump and a heat pump space heater for low-temperature application shall be determined on the basis of its seasonal space heating energy efficiency as set out in Table 2.		N/A																						
	The seasonal space heating energy efficiency of a heater shall be calculated in accordance with points 3 and 4 of Annex VII, for heat pump space heaters, heat pump combination heaters and low-temperature heat pumps under average climate conditions.		P																						
Table1	<p style="text-align: center;"><i>Table 1</i></p> <p style="text-align: center;">Seasonal space heating energy efficiency classes of heaters, with the exception of low-temperature heat pumps and heat pump space heaters for low-temperature application</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Seasonal space heating energy efficiency class</th> <th style="width: 50%;">Seasonal space heating energy efficiency <math>\eta_s</math> in %</th> </tr> </thead> <tbody> <tr> <td>A<sup>+++</sup></td> <td><math>\eta_s \geq 150</math></td> </tr> <tr> <td>A<sup>++</sup></td> <td><math>125 \leq \eta_s &lt; 150</math></td> </tr> <tr> <td>A<sup>+</sup></td> <td><math>98 \leq \eta_s &lt; 125</math></td> </tr> <tr> <td>A</td> <td><math>90 \leq \eta_s &lt; 98</math></td> </tr> <tr> <td>B</td> <td><math>82 \leq \eta_s &lt; 90</math></td> </tr> <tr> <td>C</td> <td><math>75 \leq \eta_s &lt; 82</math></td> </tr> <tr> <td>D</td> <td><math>36 \leq \eta_s &lt; 75</math></td> </tr> <tr> <td>E</td> <td><math>34 \leq \eta_s &lt; 36</math></td> </tr> <tr> <td>F</td> <td><math>30 \leq \eta_s &lt; 34</math></td> </tr> <tr> <td>G</td> <td><math>\eta_s &lt; 30</math></td> </tr> </tbody> </table>		Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency $\eta_s$ in %	A <sup>+++</sup>	$\eta_s \geq 150$	A <sup>++</sup>	$125 \leq \eta_s < 150$	A <sup>+</sup>	$98 \leq \eta_s < 125$	A	$90 \leq \eta_s < 98$	B	$82 \leq \eta_s < 90$	C	$75 \leq \eta_s < 82$	D	$36 \leq \eta_s < 75$	E	$34 \leq \eta_s < 36$	F	$30 \leq \eta_s < 34$	G	$\eta_s < 30$	-
Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency $\eta_s$ in %																								
A <sup>+++</sup>	$\eta_s \geq 150$																								
A <sup>++</sup>	$125 \leq \eta_s < 150$																								
A <sup>+</sup>	$98 \leq \eta_s < 125$																								
A	$90 \leq \eta_s < 98$																								
B	$82 \leq \eta_s < 90$																								
C	$75 \leq \eta_s < 82$																								
D	$36 \leq \eta_s < 75$																								
E	$34 \leq \eta_s < 36$																								
F	$30 \leq \eta_s < 34$																								
G	$\eta_s < 30$																								

COMMISSION REGULATION (EU) No 811/2013																									
Cl.	Requirement-Test	Result-Remark	Verdict																						
Table 2	<p style="text-align: center;"><i>Table 2</i></p> <p style="text-align: center;">Seasonal space heating energy efficiency classes of low-temperature heat pumps and heat pump space heaters for low-temperature application</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Seasonal space heating energy efficiency class</th> <th style="width: 50%;">Seasonal space heating energy efficiency <math>\eta_s</math> in %</th> </tr> </thead> <tbody> <tr> <td>A<sup>+++</sup></td> <td><math>\eta_s \geq 175</math></td> </tr> <tr> <td>A<sup>++</sup></td> <td><math>150 \leq \eta_s &lt; 175</math></td> </tr> <tr> <td>A<sup>+</sup></td> <td><math>123 \leq \eta_s &lt; 150</math></td> </tr> <tr> <td>A</td> <td><math>115 \leq \eta_s &lt; 123</math></td> </tr> <tr> <td>B</td> <td><math>107 \leq \eta_s &lt; 115</math></td> </tr> <tr> <td>C</td> <td><math>100 \leq \eta_s &lt; 107</math></td> </tr> <tr> <td>D</td> <td><math>61 \leq \eta_s &lt; 100</math></td> </tr> <tr> <td>E</td> <td><math>59 \leq \eta_s &lt; 61</math></td> </tr> <tr> <td>F</td> <td><math>55 \leq \eta_s &lt; 59</math></td> </tr> <tr> <td>G</td> <td><math>\eta_s &lt; 55</math></td> </tr> </tbody> </table>		Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency $\eta_s$ in %	A <sup>+++</sup>	$\eta_s \geq 175$	A <sup>++</sup>	$150 \leq \eta_s < 175$	A <sup>+</sup>	$123 \leq \eta_s < 150$	A	$115 \leq \eta_s < 123$	B	$107 \leq \eta_s < 115$	C	$100 \leq \eta_s < 107$	D	$61 \leq \eta_s < 100$	E	$59 \leq \eta_s < 61$	F	$55 \leq \eta_s < 59$	G	$\eta_s < 55$	-
Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency $\eta_s$ in %																								
A <sup>+++</sup>	$\eta_s \geq 175$																								
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A <sup>+</sup>	$123 \leq \eta_s < 150$																								
A	$115 \leq \eta_s < 123$																								
B	$107 \leq \eta_s < 115$																								
C	$100 \leq \eta_s < 107$																								
D	$61 \leq \eta_s < 100$																								
E	$59 \leq \eta_s < 61$																								
F	$55 \leq \eta_s < 59$																								
G	$\eta_s < 55$																								
2	<b>WATER HEATING ENERGY EFFICIENCY CLASSES</b>		—																						
	The water heating energy efficiency class of a combination heater shall be determined on the basis of its water heating energy efficiency as set out in Table 3.		N/A																						
3	<b>ENERGY EFFICIENCY CLASSES OF SOLAR HOT WATER STORAGE TANKS, IF (PART OF) A SOLAR DEVICE</b>		—																						
	The energy efficiency class of a solar hot water storage tank, if (part of) a solar device, shall be determined on the basis of its standing loss as set out in Table 4.		N/A																						
<b>ANNEX III</b>	<b>The labels</b>		—																						
	The energy label of the product should be designed according to Annex III of REGULATION (EU) No 811/2013		P																						
<b>ANNEX IV</b>	<b>Product fiche</b>		—																						
1	<b>SPACE HEATER</b>		—																						
1.1	The information in the product fiche of the space heater shall be provided in the following order and shall be included in the product brochure or other literature provided with the product:		P																						

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	<p>(a) supplier's name or trademark;</p> <p>(b) supplier's model identifier;</p> <p>(c) the seasonal space heating energy efficiency class of the model, determined in accordance with point 1 of Annex II;</p> <p>(d) the rated heat output, including the rated heat output of any supplementary heater, in kW, rounded to the nearest integer (for heat pump space heaters under average climate conditions);</p> <p>(e) the seasonal space heating energy efficiency in %, rounded to the nearest integer and calculated in accordance with points 3 and 4 of Annex VII (for heat pump space heaters under average climate conditions);</p> <p>(f) the annual energy consumption in kWh in terms of final energy and/or in GJ in terms of GCV, rounded to the nearest integer and calculated in accordance with points 3 and 4 of Annex VII (for heat pump space heaters under average climate conditions);</p> <p>(g) the sound power level L<sub>WA</sub>, indoors, in dB, rounded to the nearest integer (for heat pump space heaters if applicable);</p> <p>(h) any specific precautions that shall be taken when the space heater is assembled, installed or maintained;</p> <p>in addition, for cogeneration space heaters:</p> <p>(i) the electrical efficiency in %, rounded to the nearest integer;</p> <p>in addition, for heat pump space heaters:</p> <p>(j) the rated heat output, including the rated heat output of any supplementary heater, in kW, under colder and warmer climate conditions, rounded to the nearest integer;</p> <p>(k) the seasonal space heating energy efficiency in %, under colder and warmer climate conditions, rounded to the nearest integer and calculated in accordance with point 4 of Annex VII;</p> <p>(l) the annual energy consumption in kWh in terms of final energy and/or in GJ in terms of GCV, under colder and warmer climate conditions, rounded to the nearest integer and calculated in accordance with point 4 of Annex VII;</p> <p>(m) the sound power level L<sub>WA</sub>, outdoors, in dB, rounded to the nearest integer.</p>		P
1.2	One fiche may cover a number of space heater models supplied by the same supplier.		P

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Cl.	Requirement-Test	Result-Remark	Verdict
1.3	The information contained in the fiche may be given in the form of a copy of the label, either in colour or in black and white. Where this is the case, the information listed in point 1.1 not already displayed on the label shall also be provided.		P
2	COMBINATION HEATERS		N/A
3	TEMPERATURE CONTROLS		N/A
4	SOLAR DEVICES		N/A
5	PACKAGES OF SPACE HEATER, TEMPERATURE CONTROL AND SOLAR DEVICE		N/A
6	PACKAGES OF COMBINATION HEATER, TEMPERATURE CONTROL AND SOLAR DEVICE		N/A
<b>ANNEX V</b>	<b>Technical documentation</b>		—
1	SPACE HEATERS		—
	For space heaters, the technical documentation referred to in Article 3(1)(c) shall include:		P
	(a) the name and address of the supplier; (b) a description of the space heater model sufficient for its unambiguous identification; (c) where appropriate, the references of the harmonised standards applied; (d) where appropriate, the other technical standards and specifications used; (e) the identification and signature of the person empowered to bind the supplier; (f) technical parameters: — for boiler space heaters and cogeneration space heaters, the technical parameters set out in Table 7, measured and calculated in accordance with Annex VII; — for heat pump space heaters, the technical parameters set out in Table 8, measured and calculated in accordance with Annex VII; — for heat pump space heaters where the information relating to a specific model comprising a combination of indoor and outdoor units has been obtained by calculation on the basis of design and/or extrapolation from other combinations, the details of such calculations and/or extrapolations, and of any tests undertaken to verify the accuracy of the calculations, including details of the mathematical model for calculating the performance of such combinations and details of the measurements taken to verify this model; (g) any specific precautions that shall be taken when the space heater is assembled, installed or maintained.		P
2	COMBINATION HEATERS		N/A
3	TEMPERATURE CONTROLS		N/A
4	SOLAR DEVICES		N/A

<b>COMMISSION REGULATION (EU) No 811/2013</b>			
Cl.	Requirement-Test	Result-Remark	Verdict
5	PACKAGES OF SPACE HEATER, TEMPERATURE CONTROL AND SOLAR DEVICE		N/A
6	PACKAGES OF COMBINATION HEATER, TEMPERATURE CONTROL AND SOLAR DEVICE		N/A



Table 1: Technical parameters/Information requirements for heat pump space heaters and heat pump combination heaters							P	
Models: refer to p.1								
Air-to-water heat pump: [yes/no]				Yes				
Water-to-water heat pump: [yes/no]				No				
Brine-to-water heat pump: [yes/no]				No				
Low-temperature heat pump: [yes/no]				No				
Equipped with a supplementary heater: [yes/no]				No				
Heat pump combination heater: [yes/no]				No				
Declared climate condition				Average				
Declared temperature application				Medium				
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.				Parameters shall be declared for average climate conditions (the parameters of colder and warmer climate conditions should be shown in final product fiche and technical documentation)				
Item	symbol	value	unit	item	symbol	value	unit	
Rated heat output (*)	Prated	7.7	kW	Seasonal space heating energy efficiency	$\eta_s$	154	%	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$				
$T_j = -7\text{ °C}$	Pdh	6.81	kW	$T_j = -7\text{ °C}$	COPd	2.43	-	
$T_j = +2\text{ °C}$	Pdh	4.15	kW	$T_j = +2\text{ °C}$	COPd	3.82	-	
$T_j = +7\text{ °C}$	Pdh	2.67	kW	$T_j = +7\text{ °C}$	COPd	5.00	-	
$T_j = +12\text{ °C}$	Pdh	3.39	kW	$T_j = +12\text{ °C}$	COPd	7.60	-	
$T_j = \text{bivalent temperature}$	Pdh	6.94	kW	$T_j = \text{bivalent temperature}$	COPd	2.43	-	
$T_j = \text{operation limit temperature}$	Pdh	5.23	kW	$T_j = \text{operation limit temperature}$	COPd	2.43	-	
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20°C)	Pdh	N/A	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20°C)	COPd	N/A	-	
Bivalent temperature	T biv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcyc	N/A	kW	Cycling interval efficiency	COPcyc	N/A	kW	
Degradation coefficient (**)	Cdh	0,9	—	Heating water operating limit temperature	W <sub>TOL</sub>	75	°C	
Power consumption in modes other than active				Supplementary heater				

mode							
Off mode	$P_{OFF}$	0.002	kW	Rated heat output (*)	$P_{sup}$	2.47	kW
Thermostat-off mode	$P_{TO}$	0.030	kW	Type of energy input	Electric		
Standby mode	$P_{SB}$	0.002	kW				
Crankcase heater mode	$P_{CK}$	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	4000	m <sup>3</sup> /h
Sound power level	$L_{WA}$	57	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	N/A	m <sup>3</sup> /h
Emissions of nitrogen oxides	$NO_x$	N/A	mg/kWh				
Annual energy consumption	$Q_{HE}$	4055	KWh				
For heat pump combination heater:							
Declared load profile	N/A			Water heating energy efficiency	$\eta_{wh}$	N/A	%
Daily electricity consumption	$Q_{elec}$	N/A	kWh	Daily fuel consumption	$Q_{fuel}$	N/A	kWh
Contact details	Ningbo AUX Electric Co., Ltd. 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output $P_{rated}$ is equal to the design load for heating $P_{designh}$ , and the rated heat output of a supplementary heater $P_{sup}$ is equal to the supplementary capacity for heating $sup(T_j)$ .							
(**) If $C_{dh}$ is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$ .							

<b>Table 2:</b> <b>Technical parameters/Information requirements for heat pump space heaters and heat pump combination heaters</b>		P
Models: refer to p.1		
Air-to-water heat pump: [yes/no]	Yes	
Water-to-water heat pump: [yes/no]	No	
Brine-to-water heat pump: [yes/no]	No	
Low-temperature heat pump: [yes/no]	Yes	
Equipped with a supplementary heater: [yes/no]	No	
Heat pump combination heater: [yes/no]	No	
Declared climate condition	Average	
Declared temperature application	Low	
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-	Parameters shall be declared for average climate conditions (the parameters of colder and warmer climate conditions should be shown in final product	

temperature application.				fiche and technical documentation)			
Item	symbol	value	unit	item	symbol	value	unit
Rated heat output (*)	Prated	9.2	kW	Seasonal space heating energy efficiency	$\eta_s$	203	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$T_j = -7\text{ °C}$	Pdh	8.14	kW	$T_j = -7\text{ °C}$	COPd	3.10	-
$T_j = +2\text{ °C}$	Pdh	4.95	kW	$T_j = +2\text{ °C}$	COPd	5.10	-
$T_j = +7\text{ °C}$	Pdh	3.18	kW	$T_j = +7\text{ °C}$	COPd	6.50	-
$T_j = +12\text{ °C}$	Pdh	2.76	kW	$T_j = +12\text{ °C}$	COPd	10.55	-
$T_j =$ bivalent temperature	Pdh	8.14	kW	$T_j =$ bivalent temperature	COPd	3.10	-
$T_j =$ operation limit temperature	Pdh	7.40	kW	$T_j =$ operation limit temperature	COPd	3.10	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < $-20\text{ °C}$ )	Pdh	N/A	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < $-20\text{ °C}$ )	COPd	N/A	-
Bivalent temperature	T biv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	N/A	kW	Cycling interval efficiency	COPcyc	N/A	kW
Degradation coefficient (**)	Cdh	0,9	—	Heating water operating limit temperature	$W_{TOL}$	75	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	$P_{OFF}$	0.002	kW	Rated heat output (*)	$P_{sup}$	1.8	kW
Thermostat-off mode	$P_{TO}$	0.030	kW	Type of energy input	Electric		
Standby mode	$P_{SB}$	0.002	kW				
Crankcase heater mode	$P_{CK}$	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	4000	m <sup>3</sup> /h
Sound power level	$L_{WA}$	—	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	N/A	m <sup>3</sup> /h
Emissions of nitrogen oxides	$NO_x$	N/A	mg/kWh				
Annual energy consumption	$Q_{HE}$	3690	KWh				

For heat pump combination heater:							
Declared load profile	N/A			Water heating energy efficiency	$\eta_{wh}$	N/A	%
Daily electricity consumption	Q elec	N/A	kWh	Daily fuel consumption	Q fuel	N/A	kWh
Contact details	Ningbo AUX Electric Co., Ltd. 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output $P_{rated}$ is equal to the design load for heating $P_{designh}$ , and the rated heat output of a supplementary heater $P_{sup}$ is equal to the supplementary capacity for heating $sup(T_j)$ .							
(**) If $C_{dh}$ is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$ .							

<b>Table 3:</b> <b>Technical parameters/Information requirements for heat pump space heaters and heat pump combination heaters</b>							P
Models: refer to p.1							
Air-to-water heat pump: [yes/no]				Yes			
Water-to-water heat pump: [yes/no]				No			
Brine-to-water heat pump: [yes/no]				No			
Low-temperature heat pump: [yes/no]				No			
Equipped with a supplementary heater: [yes/no]				No			
Heat pump combination heater: [yes/no]				No			
Declared climate condition				Warmer			
Declared temperature application				Medium			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.				Parameters shall be declared for average climate conditions (the parameters of colder and warmer climate conditions should be shown in final product fiche and technical documentation)			
<b>Item</b>	<b>symbol</b>	<b>value</b>	<b>unit</b>	<b>item</b>	<b>symbol</b>	<b>value</b>	<b>unit</b>
Rated heat output (*)	$P_{rated}$	14.1	kW	Seasonal space heating energy efficiency	$\eta_s$	161	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$T_j = -7\text{ °C}$	$P_{dh}$	—	kW	$T_j = -7\text{ °C}$	$COP_d$	—	-
$T_j = +2\text{ °C}$	$P_{dh}$	8.01	kW	$T_j = +2\text{ °C}$	$COP_d$	2.40	-
$T_j = +7\text{ °C}$	$P_{dh}$	9.11	kW	$T_j = +7\text{ °C}$	$COP_d$	3.62	-
$T_j = +12\text{ °C}$	$P_{dh}$	4.15	kW	$T_j = +12\text{ °C}$	$COP_d$	6.41	-
$T_j = \text{bivalent temperature}$	$P_{dh}$	8.01	kW	$T_j = \text{bivalent temperature}$	$COP_d$	2.40	-
$T_j = \text{operation limit temperature}$	$P_{dh}$	9.11	kW	$T_j = \text{operation limit temperature}$	$COP_d$	3.62	-

For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$ )	P <sub>dh</sub>	N/A	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$ )	COP <sub>d</sub>	N/A	-
Bivalent temperature	T <sub>biv</sub>	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P <sub>cych</sub>	N/A	kW	Cycling interval efficiency	COP <sub>cyc</sub>	N/A	kW
Degradation coefficient (**)	C <sub>dh</sub>	0.9	—	Heating water operating limit temperature	W <sub>TOL</sub>	75	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.002	kW	Rated heat output (*)	P <sub>sup</sub>	0.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.030	kW	Type of energy input	Electric		
Standby mode	P <sub>SB</sub>	0.002	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	4000	m <sup>3</sup> /h
Sound power level	L <sub>WA</sub>	—	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	N/A	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>x</sub>	N/A	mg/kWh				
Annual energy consumption	Q <sub>HE</sub>	4583	KWh				
For heat pump combination heater:							
Declared load profile	N/A			Water heating energy efficiency	η <sub>wh</sub>	N/A	%
Daily electricity consumption	Q <sub>elec</sub>	N/A	kWh	Daily fuel consumption	Q <sub>fuel</sub>	N/A	kWh
Contact details	Ningbo AUX Electric Co., Ltd. 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Table 4: Technical parameters/Information requirements for heat pump space heaters and heat pump combination heaters							P	
Models: refer to p.1								
Air-to-water heat pump: [yes/no]				Yes				
Water-to-water heat pump: [yes/no]				No				
Brine-to-water heat pump: [yes/no]				No				
Low-temperature heat pump: [yes/no]				Yes				
Equipped with a supplementary heater: [yes/no]				No				
Heat pump combination heater: [yes/no]				No				
Declared climate condition				Warmer				
Declared temperature application				Low				
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.				Parameters shall be declared for average climate conditions (the parameters of colder and warmer climate conditions should be shown in final product fiche and technical documentation)				
Item	symbol	value	unit	item	symbol	value	unit	
Rated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	$\eta_s$	267	%	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$				
$T_j = -7\text{ °C}$	Pdh	—	kW	$T_j = -7\text{ °C}$	COPd	—	-	
$T_j = +2\text{ °C}$	Pdh	8.20	kW	$T_j = +2\text{ °C}$	COPd	3.84	-	
$T_j = +7\text{ °C}$	Pdh	5.53	kW	$T_j = +7\text{ °C}$	COPd	5.85	-	
$T_j = +12\text{ °C}$	Pdh	2.76	kW	$T_j = +12\text{ °C}$	COPd	9.14	-	
$T_j =$ bivalent temperature	Pdh	5.53	kW	$T_j =$ bivalent temperature	COPd	5.85	-	
$T_j =$ operation limit temperature	Pdh	8.20	kW	$T_j =$ operation limit temperature	COPd	3.84	-	
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < $-20\text{ °C}$ )	Pdh	N/A	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < $-20\text{ °C}$ )	COPd	N/A	-	
Bivalent temperature	T biv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
Cycling interval capacity for heating	Pcyc	N/A	kW	Cycling interval efficiency	COPcyc	N/A	kW	
Degradation coefficient (**)	Cdh	0.9	—	Heating water operating limit temperature	W <sub>TOL</sub>	75	°C	
Power consumption in modes other than active				Supplementary heater				

mode							
Off mode	$P_{OFF}$	0.002	kW	Rated heat output (*)	$P_{sup}$	0.4	kW
Thermostat-off mode	$P_{TO}$	0.030	kW	Type of energy input	Electric		
Standby mode	$P_{SB}$	0.002	kW				
Crankcase heater mode	$P_{CK}$	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	4000	m <sup>3</sup> /h
Sound power level	$L_{WA}$	—	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	N/A	m <sup>3</sup> /h
Emissions of nitrogen oxides	$NO_x$	N/A	mg/kWh				
Annual energy consumption	$Q_{HE}$	1701	KWh				
For heat pump combination heater:							
Declared load profile	N/A			Water heating energy efficiency	$\eta_{wh}$	N/A	%
Daily electricity consumption	$Q_{elec}$	N/A	kWh	Daily fuel consumption	$Q_{fuel}$	N/A	kWh
Contact details	Ningbo AUX Electric Co., Ltd. 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output $P_{rated}$ is equal to the design load for heating $P_{designh}$ , and the rated heat output of a supplementary heater $P_{sup}$ is equal to the supplementary capacity for heating $sup(T_j)$ .							
(**) If $C_{dh}$ is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$ .							



**Test condition (Heating function / Average heating season in medium temperature application):**

Voltage: 400 V / frequency: 50 Hz

Indoor heat exchanger: variable outlet ;

Tj (bivalent temperature): -7 °C; operating limit (TOL): -10 °C;

**Table 10 — Part load conditions for air-to-water(brine) units in medium temperature application for the reference heating seasons “A” = average, “W” = warmer and “C” = colder**

Condition	Part Load Ratio in %				Outdoor heat exchanger		Indoor heat exchanger			
					Inlet dry (wet) bulb temperature °C		Fixed outlet °C	Variable outlet <sup>d</sup> °C		
	Formula	A	W	C	Outdoor air	Exhaust air	All climates	A	W	C
A	$\frac{-7 - 16}{(T_{designh} - 16)}$	88	n/a	61	-7(-8)	20(12)	a / 55	a / 52	n/a	a / 44
B	$\frac{+2 - 16}{(T_{designh} - 16)}$	54	100	37	2(1)	20(12)	a / 55	a / 42	a / 55	a / 37
C	$\frac{+7 - 16}{(T_{designh} - 16)}$	35	64	24	7(6)	20(12)	a / 55	a / 36	a / 46	a / 32
D	$\frac{+12 - 16}{(T_{designh} - 16)}$	15	29	11	12(11)	20(12)	a / 55	a / 30	a / 34	a / 28
E	$(TOL - 16) / (T_{designh} - 16)$				TOL	20(12)	a / 55	a / b	a / b	a / b
F	$(T_{biv} - 16) / (T_{designh} - 16)$				T <sub>biv</sub>	20(12)	a / 55	a / c	a / c	a / c
G	$\frac{-15 - 16}{(T_{designh} - 16)}$	n/a	n/a	82	-15	20(12)	a / 55	n/a	n/a	a / 49

<sup>a</sup> With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 47/55 conditions for units with a fixed flow rate, and with a fixed delta T of 8 K for units with a variable flow rate. If for any of the test conditions the resulting flow rate is below the minimum flow rate then this minimum flow rate is used as a fixed flow rate with the outlet temperature for this test condition.

<sup>b</sup> Variable outlet shall be calculated by interpolation from T<sub>designh</sub> and the temperature which is closest to the TOL.

<sup>c</sup> Variable outlet shall be calculated by interpolation between the upper and lower temperatures which are closest to the bivalent temperature.

<sup>d</sup> If the variable outlet temperature is below the minimum of the operation range of the unit, this minimum should be considered.

Remark: With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 47/55 conditions.

**Test data (Average):**

General test conditions		Heating capacity (kW)	Power input (kW)	COP
A	A(-7)/W34 (88%)	6.940	2.856	2.43
B	A2/W30 (54%)	4.328	1.131	3.83
C	A7/W27 (35%)	2.734	0.541	5.05
D	A12/W24 (15%)	3.394	0.432	7.86
E	A(-10)/W35(100%)	7.70	3.615	2.13
F	A(-7)/W34 (88%)	6.940	2.856	2.43

<b>Summary result of tested value:</b>		
	<b>Unit</b>	<b>Value</b>
SCOP <sub>on</sub> :	kWh/kWh	3.94
SCOP:	kWh/kWh	3.93
Q <sub>H</sub> :	kWh	15908
Q <sub>HE</sub> :	kWh	4047
η <sub>s,h</sub>	%	154.2

**Test condition (Heating function / Average heating season in low temperature application):**

Voltage: 400 V / frequency: 50 Hz ;

Indoor heat exchanger: variable outlet

Tj (bivalent temperature): -7 °C ; operating limit (TOL): -10 °C ;

**Table 8 — Part load conditions for air-to-water(brine) units in low temperature application for the reference heating seasons “A” = average, “W” = warmer and “C” = colder**

Condition	Part Load Ratio in %				Outdoor heat exchanger		Indoor heat exchanger			
					Inlet dry (wet) bulb temperature °C		Fixed outlet °C	Variable outlet <sup>d</sup> °C		
	Formula	A	W	C	Outdoor air	Exhaust air	All climates	A	W	C
A	$\frac{(-7 - 16)}{(T_{\text{designh}} - 16)}$	88	n/a	61	-7(-8)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 34	n/a	<sup>a</sup> / 30
B	$\frac{(+2 - 16)}{(T_{\text{designh}} - 16)}$	54	100	37	2(1)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 30	<sup>a</sup> / 35	<sup>a</sup> / 27
C	$\frac{(+7 - 16)}{(T_{\text{designh}} - 16)}$	35	64	24	7(6)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 27	<sup>a</sup> / 31	<sup>a</sup> / 25
D	$\frac{(+12 - 16)}{(T_{\text{designh}} - 16)}$	15	29	11	12(11)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 24	<sup>a</sup> / 26	<sup>a</sup> / 24
E	$(TOL - 16) / (T_{\text{designh}} - 16)$				TOL	20(12)	<sup>a</sup> / 35	<sup>a</sup> / b	<sup>a</sup> / b	<sup>a</sup> / b
F	$(T_{\text{biv}} - 16) / (T_{\text{designh}} - 16)$				T <sub>biv</sub>	20(12)	<sup>a</sup> / 35	<sup>a</sup> / c	<sup>a</sup> / c	<sup>a</sup> / c
G	$\frac{(-15 - 16)}{(T_{\text{designh}} - 16)}$	n/a	n/a	82	-15	20(12)	<sup>a</sup> / 35	n/a	n/a	<sup>a</sup> / 32

<sup>a</sup> With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 30/35 conditions for units with a fixed flow rate, and with a fixed delta T of 5 K for units with a variable flow rate. If for any of the test conditions the resulting flow rate is below the minimum flow rate then this minimum flow rate is used as a fixed flow rate with the outlet temperature for this test condition.

<sup>b</sup> Variable outlet shall be calculated by interpolation from T<sub>designh</sub> and the temperature which is closest to the TOL.

<sup>c</sup> Variable outlet shall be calculated by interpolation between the upper and lower temperatures which are closest to the bivalent temperature.

<sup>d</sup> If the variable outlet temperature is below the minimum of the operation range of the unit, this minimum should be considered.

Remark: With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 30/35 conditions.

**Test data (Average):**

General test conditions		Heating capacity (kW)	Power input (kW)	COP
A	A(-7)/W34 (88%)	8.243	2.658	3.10
B	A2/W30 (54%)	5.082	1.018	5.00
C	A7/W27 (35%)	3.338	0.488	6.84
D	A12/W24 (15%)	3.140	0.314	10.00
E	A(-10)/W35(100%)	9.119	3.286	2.74
F	A(-7)/W34 (88%)	8.243	2.658	3.10

<b>Summary result of tested value:</b>		
	<b>Unit</b>	<b>Value</b>
SCOP <sub>on</sub> :	kWh/kWh	5.17
SCOP:	kWh/kWh	5.16
Q <sub>H</sub> :	kWh	19007
Q <sub>HE</sub> :	kWh	3684
$\eta_{s,h}$	%	203.4

**Test condition (Heating function / warmer heating season in medium temperature application):**

 Voltage: 400 V / frequency: 50 Hz ;

 Indoor heat exchanger: variable outlet ;

 T<sub>j</sub> (bivalent temperature): 7 °C; operating limit (TOL): 2 °C;

**Table 10 — Part load conditions for air-to-water(brine) units in medium temperature application for the reference heating seasons “A” = average, “W” = warmer and “C” = colder**

Condition	Part Load Ratio in %				Outdoor heat exchanger		Indoor heat exchanger			
					Inlet dry (wet) bulb temperature °C		Fixed outlet °C	Variable outlet <sup>d</sup> °C		
	Formula	A	W	C	Outdoor air	Exhaust air		All climates	A	W
A	$\frac{(-7 - 16)}{(T_{\text{designh}} - 16)}$	88	n/a	61	-7(-8)	20(12)	a / 55	a / 52	n/a	a / 44
B	$\frac{(+2 - 16)}{(T_{\text{designh}} - 16)}$	54	100	37	2(1)	20(12)	a / 55	a / 42	a / 55	a / 37
C	$\frac{(+7 - 16)}{(T_{\text{designh}} - 16)}$	35	64	24	7(6)	20(12)	a / 55	a / 36	a / 46	a / 32
D	$\frac{(+12 - 16)}{(T_{\text{designh}} - 16)}$	15	29	11	12(11)	20(12)	a / 55	a / 30	a / 34	a / 28
E	$(TOL - 16) / (T_{\text{designh}} - 16)$				TOL	20(12)	a / 55	a / b	a / b	a / b
F	$(T_{\text{biv}} - 16) / (T_{\text{designh}} - 16)$				T <sub>biv</sub>	20(12)	a / 55	a / c	a / c	a / c
G	$\frac{(-15 - 16)}{(T_{\text{designh}} - 16)}$	n/a	n/a	82	-15	20(12)	a / 55	n/a	n/a	a / 49

<sup>a</sup> With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 47/55 conditions for units with a fixed flow rate, and with a fixed delta T of 8 K for units with a variable flow rate. If for any of the test conditions the resulting flow rate is below the minimum flow rate then this minimum flow rate is used as a fixed flow rate with the outlet temperature for this test condition.

<sup>b</sup> Variable outlet shall be calculated by interpolation from T<sub>designh</sub> and the temperature which is closest to the TOL.

<sup>c</sup> Variable outlet shall be calculated by interpolation between the upper and lower temperatures which are closest to the bivalent temperature.

<sup>d</sup> If the variable outlet temperature is below the minimum of the operation range of the unit, this minimum should be considered.

Remark: With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 47/55 conditions.

**Test data (Warmer):**

General test conditions		Heating capacity (kW)	Power input (kW)	COP
A	W(-7)	—	—	—
B	W2 (100%)	8.015	3.339	2.400
C	W7 (64%)	9.115	2.515	3.624
D	W12 (29%)	4.153	0.647	6.419
E	W(2)(100%)	8.015	3.339	2.400

F	W(7)(64%)	9.115	2.515	3.624
<b>Summary result of tested value:</b>				
	<b>Unit</b>	<b>Value</b>		
SCOPon:	kWh/kWh	4.13		
SCOP:	kWh/kWh	4.11		
QH:	kWh	18838		
QHE:	kWh	4583		
$\eta_{s,h}$	%	161.4		

**Test condition (Heating function / warmer heating season in Low temperature application):**

 Voltage: 400 V / frequency: 50 Hz ;

 Indoor heat exchanger: variable outlet ;

 Tj (bivalent temperature): 7 °C; operating limit (TOL): 2 °C;

**Table 8 — Part load conditions for air-to-water(brine) units in low temperature application for the reference heating seasons “A” = average, “W” = warmer and “C” = colder**

Condition	Part Load Ratio in %				Outdoor heat exchanger		Indoor heat exchanger			
					Inlet dry (wet) bulb temperature °C		Fixed outlet °C	Variable outlet <sup>d</sup> °C		
	Formula	A	W	C	Outdoor air	Exhaust air	All climates	A	W	C
A	$(-7 - 16) / (T_{\text{designh}} - 16)$	88	n/a	61	-7(-8)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 34	n/a	<sup>a</sup> / 30
B	$(+2 - 16) / (T_{\text{designh}} - 16)$	54	100	37	2(1)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 30	<sup>a</sup> / 35	<sup>a</sup> / 27
C	$(+7 - 16) / (T_{\text{designh}} - 16)$	35	64	24	7(6)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 27	<sup>a</sup> / 31	<sup>a</sup> / 25
D	$(+12 - 16) / (T_{\text{designh}} - 16)$	15	29	11	12(11)	20(12)	<sup>a</sup> / 35	<sup>a</sup> / 24	<sup>a</sup> / 26	<sup>a</sup> / 24
E	$(TOL - 16) / (T_{\text{designh}} - 16)$				TOL	20(12)	<sup>a</sup> / 35	<sup>a</sup> / <sup>b</sup>	<sup>a</sup> / <sup>b</sup>	<sup>a</sup> / <sup>b</sup>
F	$(T_{\text{biv}} - 16) / (T_{\text{designh}} - 16)$				T <sub>biv</sub>	20(12)	<sup>a</sup> / 35	<sup>a</sup> / <sup>c</sup>	<sup>a</sup> / <sup>c</sup>	<sup>a</sup> / <sup>c</sup>
G	$(-15 - 16) / (T_{\text{designh}} - 16)$	n/a	n/a	82	-15	20(12)	<sup>a</sup> / 35	n/a	n/a	<sup>a</sup> / 32

<sup>a</sup> With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 30/35 conditions for units with a fixed flow rate, and with a fixed delta T of 5 K for units with a variable flow rate. If for any of the test conditions the resulting flow rate is below the minimum flow rate then this minimum flow rate is used as a fixed flow rate with the outlet temperature for this test condition.

<sup>b</sup> Variable outlet shall be calculated by interpolation from T<sub>designh</sub> and the temperature which is closest to the TOL.

<sup>c</sup> Variable outlet shall be calculated by interpolation between the upper and lower temperatures which are closest to the bivalent temperature.

<sup>d</sup> If the variable outlet temperature is below the minimum of the operation range of the unit, this minimum should be considered.

Remark: With the flow rate as determined at the standard rating conditions given in EN 14511-2 at 47/55 conditions.

**Test data (Warmer):**

General test conditions		Heating capacity (kW)	Power input (kW)	COP
A	W(-7)	—	—	—
B	W2 (100%)	8.415	2.147	3.92
C	W7 (64%)	5.596	0.941	5.95
D	W12 (29%)	2.762	0.305	9.04
E	W(2)(100%)	8.415	2.147	3.92
F	W(7)(64%)	5.596	0.941	5.95



<b>Summary result of tested value:</b>		
	<b>Unit</b>	<b>Value</b>
SCOP <sub>on</sub> :	kWh/kWh	6.96
SCOP:	kWh/kWh	6.86
Q <sub>H</sub> :	kWh	11490
Q <sub>HE</sub> :	kWh	1674
η <sub>s,h</sub>	%	271.5

Information of efficiency class according to (EU) No 811/2013		
Climate conditions.....:	Average (mandatory)	
Declared temperature application.....:	<b>Medium-temperature</b>	<b>Low-temperature</b>
Rated heat output (kW).....:	7.7	9.2
seasonal space heating energy efficiency $\eta_s$ ; %.....:	154	203
Energy efficiency class.....:	<b>A+++</b>	<b>A+++</b>
Annual energy consumption $Q_{HE}$ ;(KWh) .....	4055	3690
Sound power level ( $L_{WA}$ ), indoor/outdoor.....:	57	57
Climate conditions.....:	Warmer	
Declared temperature application.....:	<b>Medium-temperature</b>	<b>Low-temperature</b>
Rated heat output (kW).....:	14.1	8.6
seasonal space heating energy efficiency $\eta_s$ ; %.....:	161	267
Energy efficiency class.....:	<b>A+++</b>	<b>A+++</b>

Table 1

Seasonal space heating energy efficiency classes of heaters, with the exception of low-temperature heat pumps and heat pump space heaters for low-temperature application

Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency $\eta_s$ in %
A+++	$\eta_s \geq 150$
A++	$125 \leq \eta_s < 150$
A+	$98 \leq \eta_s < 125$
A	$90 \leq \eta_s < 98$
B	$82 \leq \eta_s < 90$
C	$75 \leq \eta_s < 82$
D	$36 \leq \eta_s < 75$
E	$34 \leq \eta_s < 36$
F	$30 \leq \eta_s < 34$
G	$\eta_s < 30$

**Information of efficiency class according to (EU) No 811/2013**

Table 2

Seasonal space heating energy efficiency classes of low-temperature heat pumps and heat pump space heaters for low-temperature application

Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency $\eta_s$ in %
A <sup>+++</sup>	$\eta_s \geq 175$
A <sup>++</sup>	$150 \leq \eta_s < 175$
A <sup>+</sup>	$123 \leq \eta_s < 150$
A	$115 \leq \eta_s < 123$
B	$107 \leq \eta_s < 115$
C	$100 \leq \eta_s < 107$
D	$61 \leq \eta_s < 100$
E	$59 \leq \eta_s < 61$
F	$55 \leq \eta_s < 59$
G	$\eta_s < 55$

Ecodesign requirements according to (EU) No 813/2013							
Average (mandatory)							
Declared temperature application				Exception of low-temperature			
Items	Value	Stage 1		Stage 2		Verdict	
seasonal space heating energy efficiency $\eta_s$ ,	154	<input checked="" type="checkbox"/> $\geq 100\%$ (from 2015.09.26)		<input checked="" type="checkbox"/> $\geq 110\%$ (from 2017.09.26)		P	
Sound power level ( $L_{WA}$ ), indoor/outdoor	57	<input checked="" type="checkbox"/> $\leq 70$ dBA / 78 dBA (from 2015.09.26)				P	
Declared temperature application				Low-temperature			
Items	Value	Stage 1		Stage 2		Verdict	
seasonal space heating energy efficiency $\eta_s$	203	<input checked="" type="checkbox"/> $\geq 115\%$ (from 2015.09.26)		<input checked="" type="checkbox"/> $\geq 125\%$ (from 2017.09.26)		P	
Sound power level ( $L_{WA}$ ), indoor/outdoor	57	<input checked="" type="checkbox"/> $\leq 70$ dBA / 78 dBA (from 2015.09.26)				P	
<p>(a) From 26 September 2015 the seasonal space heating energy efficiency and useful efficiencies of heaters shall not fall below the following values:</p> <p><b>Heat pump space heaters and heat pump combination heaters, with the exception of low-temperature heat pumps:</b> The seasonal space heating energy efficiency shall not fall below 100 %.</p> <p><b>Low-temperature heat pumps:</b> The seasonal space heating energy efficiency shall not fall below 115 %.</p> <p>(b) From 26 September 2017 the seasonal space heating energy efficiency of electric boiler space heaters, electric boiler combination heaters, cogeneration space heaters, heat pump space heaters and heat pump combination heaters shall not fall below the following values:</p> <p><b>Heat pump space heaters and heat pump combination heaters, with the exception of low-temperature heat pumps:</b> The seasonal space heating energy efficiency shall not fall below 110 %.</p> <p><b>Low-temperature heat pumps:</b> The seasonal space heating energy efficiency shall not fall below 125 %.</p>							
From 26 September 2015 the sound power level of heat pump space heaters and heat pump combination heaters shall not exceed the following values:							
Rated heat output $\leq 6$ kW		Rated heat output $> 6$ kW and $\leq 12$ kW		Rated heat output $> 12$ kW and $\leq 30$ kW		Rated heat output $> 30$ kW and $\leq 70$ kW	
Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors	Sound power level ( $L_{WA}$ ), indoors	Sound power level ( $L_{WA}$ ), outdoors
60 dB	65 dB	65 dB	70 dB	70 dB	78 dB	80 dB	88 dB

Photo documents:

Products General



Compressor

<p><b>Panasonic</b>  <b>H420D7KZAAC6</b> </p> <p>COMPRESSOR          DC MOTOR 280V ---          SERIAL NO. K42AC          F9999999 7975775 R290          Panasonic Corporation          松下 万宝 (广州) 压缩机有限公司 Made in China          Panasonic Wanbao Appliances Compressor (Guangzhou) Co., Ltd.          36, Wanbao North Street, Wanbao Industry Zone, Zhongcun,          Panyu District, Guangzhou City, Guangdong Province, China</p>		 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">*H420D7KZAAC6-ZGF9999999*</p>
<p><b>WARNING/DANGER 注意 (维修, 检查时必须遵守)</b></p> <p><b>Danger of Electric Shock 有触电的危险</b>          • Earth the equipment. 须在空调主机上接入地线。          • Disconnect power before work. 操作前须切断全部电源。          • Mount the terminal cover in place. 接线端子安装之后才能通电。</p> <p><b>Danger of Explosion or Fire 有爆炸, 火灾的危险</b>          • Wear protective goggles. 操作者须戴保护眼镜。          • Let out the gas before brazing. 焊接时先将冷媒放出。          • Do not compress air into ref. cycle. 不能在系统进入空气的状态下运行。          • Do not use unprescribed ref. &amp; oils. 不能使用规定以外的冷媒、冷冻机油。</p> <p><b>Caution, Hot Surface 有烫伤的危险</b>          • Do not touch with bare hands. 运行中或刚停止时不能用手触摸。</p>		
<p>PROD. YEAR: 2023 VOLUME: 2.38L PS: 37 bar TS: -35°C - +115°C</p> <p><b>CE0035</b> Panasonic Marketing Europe GmbH          Panasonic Testing Centre          Winsbergring 15, 22525 Hamburg, Germany</p>		

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