

TEST REPORT COMMISSION REGULATION (EU) No 206/2012 of 6 March 2012

implementing REGULATION (EU) 2024/1781 of the European Parliament and of the Council with regard to ecodesign requirements for air conditioners and comfort fans COMMISSION REGULATION (EU) No 626/2011 of 4 May 2011

supplementing Regulation(EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of air conditioners

Report Reference No...... AHEE250200080951

Tested by (name + signature): Jarvan Deng

Approved by (+ signature): Hunter Lin

Testing Laboratory.....: SGS-CSTC standards Technical Services Co., Ltd. Anhui Branch

Fanhua Road, Economic & Technological Development Area,

Janon lug

Hefei, 230601 Anhui, China

Cixi, Ningbo, Zhejiang, 315300, P. R. China

Test specification:

626/2011, (EU) 2023/2048

Test procedure STR: Regulation(EU) 2017/1369, (EU) 2024/1781

Non-standard test method.....: None

Test Report Form No. EEC_(EU) No 206/2012&626/2011 C

Test Report Form(s) Originator: SGS-CSTC

Master TRF 2024-11-01

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



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Test item description Split-Type Air Conditioner

Trade Mark: Deye

Manufacturer Same as applicant

Model/Type reference: Outdoor unit: DW3B1-ACDC-27KR2(EU)

Indoor unit:

DMGA1-ACDC-07KR2(EU) DMGA1-ACDC-09KR2(EU) DMGA1-ACDC-12KR2(EU) DMGA1-ACDC-18KR2(EU)

Ratings Refer to marking plates

Factory...... Same as applicant



SGS

Report No.: AHEE250200080951

Summary of testing:

Tests performed (name of test and test clause):

COMMISSION REGULATION (EU) No 206/2012, COMMISSION REGULATION (EU) No 626/2011, COMMISSION REGULATION (EU) 2023/2048

According to requirement of COMMISSION REGULATION (EU) No 206/2012, below combination with capacity ratio of 1 was selected for testing:

Indoor unit: DMGA1-ACDC-09KR2(EU) x 3 Outdoor unit: DW3B1-ACDC-27KR2(EU)

The length of refrigerant lines between indoor unit and outdoor unit was 5 m.

The test result which covering test matching models was classed as A++ of cooling, A+ for heating (average).

Testing location:

See page 1

Copy of marking plate The artworks below maybe only a draft.

Solar Air Conditioner					
Outdoor Unit	DW3B1-ACDC-27KR2 (EU)				
Electric Shock Prevention	Class I				
Rated Voltage	AC:220-240V; DC:150-410V				
Rated Frequency	AC:50Hz				
Rated Cooling Capacity	7.9 kW				
Rated Heatling Capacity	8.2 kW				
Rated Cooling Current	10.72 A				
Rated Heating Current	9.71 A				
Rated Cooling Input	2.44kW				
Rated Heating Input	2.21kW				
Max.Input Power	3.2kW				
Max.Discharge Pressure	4.3Mpa				
Max.Suction Pressure	1.5Mpa				
Maximum allowable pressure	4.3Mpa				
Outdoor Unit Noise	58dB (A)				
Refrigerant A2L	R32				
Refrigerant Quantity	1.59kg/1.073tCO ² eq				
GWP	675				
Water-proof Class	IPX4				
Outdoor Unit Net Weight	52.5kg				
the product or equipment contains fluorinate	d greenhousegases				

the product or equipment contains fluorinated greenhousegases

Ningbo Deye Domestic Electrical Appliance Technology Co., Ltd.

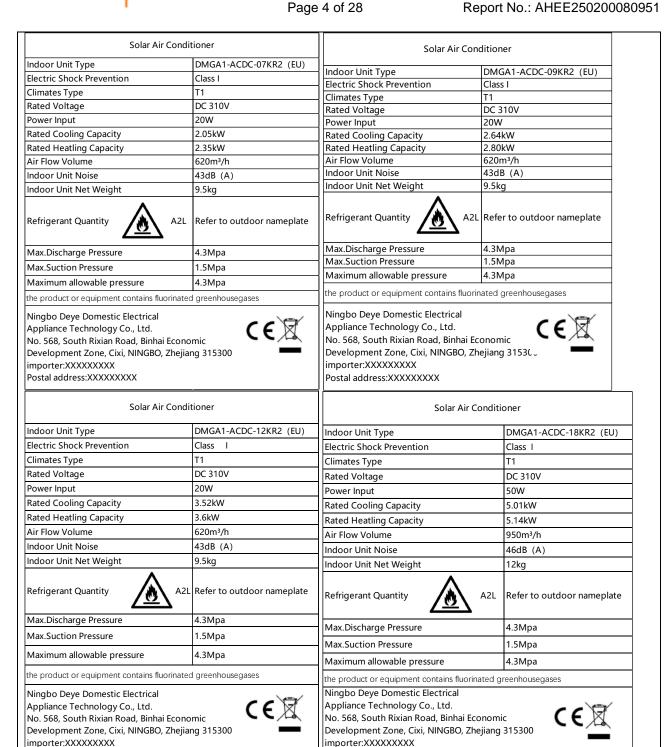
No. 568, South Rixian Road, Binhai Economic

Development Zone, Cixi, NINGBO, Zhejiang 315300

importer:XXXXXXXXX Postal address:XXXXXXXXX







Postal address:XXXXXXXXX

Postal address:XXXXXXXXX



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Test item particulars:	Split-Type Air Conditioner
Classification of installation and use:	Fixed appliance
Supply Connection:	Terminal
:	
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	2025-02-05
Date (s) of performance of tests	From 2025-02-05 to 2025-03-05

General remarks:

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.

Throughout this report a comma is used as the decimal separator.

General product information:

The multi-split system air conditioner is intended for household and similar use, the refrigerant was R32, It was installed as one outdoor unit assembled with one or more indoor units based on the capacity matching. The appliances have cooling and heating functions.

[&]quot;(see appended table)" refers to a table appended to the report.





COMMISSION REGULATION (EU) No 206/2012 CI. Requirement-Test Result-Remark Verdict ANNEX I Ecodesign requirements **DEFINITIONS APPLICABLE FOR THE** 1 Ρ PURPOSES OF THE ANNEXES 2 REQUIREMENTS FOR MINIMUM ENERGY Р EFFICIENCY, MAXIMUM POWER CONSUMPTION IN OFF-MODE AND STANDBY MODE AND FOR MAXIMUM SOUND POWER **LEVEL** (a) From 1 January 2013, single duct and double N/A duct air conditioners shall correspond to requirements as indicated in Tables 1, 2 and 3 below, calculated in accordance with Annex II. Single duct and double duct air conditioners and comfort fans shall fulfil the requirements on standby and off mode as indicated in Table 2 below. The requirements on minimum energy efficiency and maximum sound power shall relate to the standard rating conditions specified in Annex II, Table 2. Table 1 Requirements for minimum energy efficiency Double duct air conditioners Single duct air conditioners EER_{rated} COPrated EER_{rated} COP_{rated} If GWP of refrigerant > 150 2.40 2.36 2.40 1.80 If GWP of refrigerant ≤ 150 2,16 2,12 2,16 1,62 Table 2 Requirements for maximum power consumption in off-mode and standby mode for single duct and double duct air conditioners and comfort fans Off mode Power consumption of equipment in any off-mode condition shall not exceed Standby mode The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 1,00 W. The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 2,00 W. Equipment shall, except where this is inappropriate for the intended use, Availability of standby and/or off provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. Table 3 Requirements for maximum sound power level Indoor sound power level in dB(A) 65





COMMISSION REGULATION (EU) No 206/2012 CI. Requirement-Test Result-Remark Verdict From 1 January 2013, air conditioners, except Р (b) GWP of refrigerant > 150 single and double duct air conditioners, shall correspond to minimum energy efficiency and maximum sound power level requirements as indicated in Tables 4 and 5 below, calculated in accordance with Annex II. The requirements on energy efficiency shall take into account the reference design conditions specified in Annex II. Table 3 using the 'Average' heating season where applicable. The requirements on sound power shall relate to Р 6 kW< Rated capacity ≤12 kW the standard rating conditions specified in Annex II, Table 2 Table 4 Requirements for minimum energy efficiency SCOP SEER (Average heating season) If GWP of refrigerant > 150 3.60 3.40 3.24 3.06 If GWP of refrigerant ≤ 150 Table 5 Requirements for maximum sound power level Rated capacity ≤ 6 kW 6 < Rated capacity ≤12 kW Outdoor sound power level in Indoor sound power level in Outdoor sound power level in Indoor sound power level in dB(A) dB(A) dB(A) 60 65 65 70 From 1 January 2014, air conditioners shall Ρ (c) correspond to requirements as indicated in the table below, calculated in accordance with Annex II. The requirements on energy efficiency for air conditioners, excluding single and double duct air conditioners, shall relate to the reference design conditions specified in Annex II, Table 3 using the 'Average' heating season where applicable. The requirements on energy efficiency for single and double duct air conditioners shall relate to the standard rating conditions specified in Annex II, Table 2.





COMMISSION REGULATION (EU) No 206/2012 CI. Requirement-Test Result-Remark Verdict Table 6 Requirements for minimum energy efficiency Air conditioners, except double and single duct air conditioners Double duct air conditioners Single duct air conditioners SCOP (heating SEER EER_{rated} COP_{rated} EER_{rated} COPrated season: Average) If GWP of refrigerant 4,60 3,80 2,60 2,60 2,60 2,04 > 150 for < 6 kW If GWP of refrigerant 3,42 2,34 2,34 2,34 1,84 4.14 ≤ 150 for < 6 kW If GWP of refrigerant 4.30 3.80 2.60 2.60 2.60 2.04 > 150 for 6-12 kW If GWP of refrigerant 3,87 3,42 2.34 2.34 2,34 1,84 ≤ 150 for 6-12 kW From 1 January 2014, single duct and double duct (d) N/A air conditioners and comfort fans shall correspond to requirements as indicated in Table 7 below, calculated in accordance with Annex II. Table 7 Requirements for maximum power consumption in off-mode and standby mode Off mode Power consumption of equipment in any off-mode condition shall not exceed 0.50 W Standby mode The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0,50 W. The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display shall not exceed 1,00 W. Equipment shall, except where this is inappropriate for the intended use, Availability of standby and/or off provide off mode and/or standby mode, and/or another condition which mode does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.





COMMISSION REGULATION (EU) No 206/2012 CI. Requirement-Test Result-Remark Verdict When equipment is not providing the main function, or when other energy-Power management using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: standby mode, or - off mode, or - another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. The power management function shall be activated before delivery. PRODUCT INFORMATION REQUIREMENTS 3. Ρ (a) From 1 January 2013, as regards air Р conditioners and comfort fans, the information set out in points below and calculated in accordance with Annex II shall be provided on: (i) the technical documentation of the product; Ρ (ii) free access websites of manufacturers of air conditioners and comfort fans; (b) The manufacturer of air conditioners and Ρ comfort fans shall provide laboratories performing market surveillance checks, upon request, the necessary information on the setting of the unit as applied for the establishment of declared capacities, SEER/EER, SCOP/COP values and service values and provide contact information for obtaining such information. (c) Information requirements for air conditioners, See attached table 1 Ρ except double duct and single duct air conditioners. (d) Information requirements for single duct and N/A double duct air conditioners. Single duct air conditioners shall be named 'local air conditioners' in packaging, product documentation and in any advertisement material, whether electronic or in paper. Manufacturer shall provide information as detailed in the table 2. (e) Information requirements for comfort fans. N/A Manufacturer shall provide information as detailed in the table 3 ANNEX II Measurements and calculations





COMMISSION REGULATION (EU) No 206/2012 CI. Requirement-Test Result-Remark Verdict For the purposes of compliance and verification of EN 14825: 2022: Р compliance with the requirements of this EN14511-2: 2022; Regulation, measurements and calculations shall EN14511-3: 2022; be made using harmonised standards the reference EN 12102-1: 2022 used numbers of which have been published in the Official Journal of European Union, 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. The determination of the seasonal energy 2 Р consumption and efficiency for seasonal energy efficiency ratio (SEER) and seasonal coefficient of performance (SCOP) shall take into account: (a) European cooling and heating season(s), as defined in Table 1 below; (b) reference design conditions, as defined in Table Ρ (c) electric energy consumption for all relevant Р modes of operation, using time periods as defined in Table 4 below: (d) effects of the degradation of the energy Р efficiency caused by on/off cycling (if applicable) depending on the type of control of the cooling and/or heating capacity; (e) corrections on the seasonal coefficients of Ρ performance in conditions where the heating load can not be met by the heating capacity; (f) the contribution of a back-up heater (if Ρ applicable) in the calculation of the seasonal efficiency of a unit in heating mode. Where the information relating to a specific model, 3 Р being a combination of indoor and outdoor unit(s). has been obtained by calculation on the basis of design, and/or extrapolation from other combinations, the documentation should include details of such calculations and/or extrapolations. and of tests undertaken to verify the accuracy of the calculations undertaken (including details of the mathematical model for calculating performance of such combinations, and of measurements taken to verify this model). The rated energy efficiency ratio (EER rated) and, N/A when applicable, rated coefficient of performance (COP rated) for single and double duct air conditioners shall be established at the standard rating conditions as defined in Table 2 below. The calculation of seasonal electricity consumption for cooling (and/or heating) shall take into account electric energy consumption of all relevant modes of operation, as defined in Table 3 below, using operational hours, as defined in Table 4 below.





CI.	Requireme	Requirement-Test Result-Remark							Verdic
6	The comfo	The comfort fan efficiency shall be determined on the basis of the nominal air flow rate of the unit divided by the nominal electric power input of the							N/A
	Cooling as	nd heating s	eason bins (j = b	oin index, Ti = o	able 1 utdoor temperatu ulb temperature	re, hj = hours	per annum p	er bin) where	_
		COOLING SEA	KSON		HE.	ATING SEASON			
		Tj	hj	i			hj h/annum		
	÷	*c	h/annum	*	db c	Average	Warmer	Colder	
	1	17	205	1 to 8	- 30 to - 23	0	0	0	
	2	18	227	9	- 22	0	0	1	
	3	19	225	10	- 21	0	0	6	
	4	20	225	11	- 20	0	0	13	
	5	21	216	12	-19	0	0	17 19	
	7	22	215 218	13 14	-18 -17	0	0	26	
	8	24	197	15	-16	0	٥	39	
	9	25	178	16	- 15	0	0	41	
	10	26	158	17	-14	0	0	35	
	11	27	137	18	-13	0	0	52	
	12	28	109	19	-12	0	0	37	
	13	29	88	20	-11	0	0	41	
	14	30	63	21	- 10	1	0	43	
	15	31	39	22	- 9	25	0	54	
	16	32	31	23	- 8	23	0	90	
	17	33	24	24 25	-7 -6	24 27	0	125 169	
	18 19	34 35	17 13	26	-5	68	0	195	
	20	36	9	27	-4	91	0	278	
	21	37	4	28	- 3	89	0	306	
	22	38	3	29	-2	165	0	454	
	23	39	1	30	- 1	173	0	385	
	24	40	0	31	0	240	0	490	
				32	1	280	0	533	
				33	2	320	3	380	
				34	3	357	22	228	
				35 36	4 5	356 303	63 63	261 279	
				37	6	330	175	229	
				38	7	326	162	269	
				39	8	348	259	233	
				40	9	335	360	230	
				41	10	315	428	243	
				42	11	215	430	191	
				43	12	169	503	146	
				44	13	151	444	150	
				45	14	105	384	97	
	1	I	1	46	15	74	294	61	





COMMISSION REGULATION (EU) No 206/2012 Result-Remark CI. Requirement-Test Verdict Table 2 Standard rating conditions, temperatures in 'dry bulb' air temperature ('wet bulb' indicated in brackets) Indoor air temperature Outdoor air temperature Appliance Function (°C) (°C) 27 (19) 35 (24) cooling air conditioners, excluding single duct air conditioners heating 20 (max. 15) 7(6) cooling 35 (24) 35 (24) (*) single duct air conditioner 20 (12) 20 (12) (*) heating (*) In case of single duct air conditioners the condenser (evaporator) when cooling (heating) is not supplied with outdoor air, but indoor Reference design conditions, temperatures in 'dry bulb' air temperature ('wet bulb' indicated in brackets) Indoor air temperature Outdoor air temperature Bivalent temperature Operating limit temperature Function/season Tdesignc/Tdesignh Tin Tbiv Tol Tdesignc = 35 (24) cooling 27 (19) n.a. n.a. max. - 7 Tdesignh = - 10 (- 11) heating/Average max. 2 heating/Warmer Tdesignh = 2 (1)max. 7 max. 2 20 (15) max. - 15 heating/Colder Tdesignh = - 22 (- 23) Table 4 Operational hours per type of appliance per functional mode to be used for calculation of electricity consumption Type of appliance/functionality Heating Standby Crankcase Thermostat-Off mode Unit On mode (if applicable) season off mode mode heater mode cooling: H_{CE} heating: H_{HE} \mathbf{H}_{TO} $\mathbf{H}_{\mathtt{SB}}$ H_{OFF} \mathbf{H}_{CK} Air conditioners, except single and double duct air conditioner Cooling mode, if appliance 350 221 2 142 5 088 7 760 h/annum offers cooling only Cooling h/annum 350 221 2 142 0 2 672 mode Cooling and heating modes, if 1 400 0 0 179 Average 179 appliance offers both Heating h/annum Warmer 1 400 755 0 0 755 modes mode Colder 2 100 131 0 0 131





COMMISSION REGULATION (EU) No 206/2012 CI. Requirement-Test Result-Remark Verdict Type of appliance/functionality (if applicable) Heating Standby Crankcase Thermostat-Unit Off mode off mode mode eater mode cooling: H_{CE} H_{SB} H_{TO} H_{OFF} H_{cv} heating: H_H 1 400 179 0 3 672 3 851 Average Heating mode, if appliance Warmer 1 400 755 0 4 3 4 5 4 476 h/annum offers heating only Colder 0 2 100 131 2 189 2 944 Double duct air conditioner Cooling mode, if appliance h/60 min 1 n/a n/a n/a n/a offers cooling only Cooling Cooling and h/60 min 1 n/a n/a n/a n/a heating modes, if mode appliance Heating offers both h/60 min 1 n/a n/a n/a n/a mode modes Heating mode, if appliance h/60 min 1 n/a n/a n/a n/a offers heating only Single duct air conditioner Cooling mode h/60 min 1 n/a n/a Heating mode h/60 min n/a n/a n/a n/a ANNEX III Verification procedure for market surveillance purposes When performing the market surveillance checks referred to in Article 3(2) of Directive 2009/125/EC, the authorities of the Member States shall apply the following verification procedure for the requirements set out in Annex I. The authorities of the Member State shall test one N/A single unit. 2. The air conditioner model, except single and 2 N/A double duct air conditioners, shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if its seasonal energy efficiency ratio (SEER), or seasonal coefficient for performance (SCOP), if applicable, is not less than the declared value minus 8 % at the declared capacity of the unit. The SEER and SCOP values shall be established in accordance with Annex II. The model of a single and double duct air N/A conditioner shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if the results for off-mode and standbymode conditions do not exceed the limit values by more than 10 %, and if the energy efficiency ratio (EER rated), or coefficient for performance (COP rated), if applicable, is not less than the declared value minus 10 %. The EER and COP values shall be established in accordance with Annex II.





COMMISSION REGULATION (EU) No 206/2012 CI. Requirement-Test Result-Remark Verdict The air conditioner model shall be considered to N/A comply with the requirements set out in this Regulation, as applicable, if the maximum sound power level does not exceed more than 2 dB(A) of the declared value. If the result referred to in point 2 is not achieved, the 3 N/A market surveillance authority shall randomly select three additional units of the same model for testing. 4 The air conditioner model, except single and double N/A duct air conditioners, shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if the average of the three units for the seasonal energy efficiency ratio (SEER), or seasonal coefficient of performance (SCOP), if applicable, is not less than the declared value minus 8 % at the declared capacity of the unit. The SEER and SCOP values shall be established in accordance with Annex II. The model of a single and double duct air N/A conditioner shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if the average of the results of the three units for off-mode and standby- mode conditions do not exceed the limit values by more than 10 %, and if the average of the energy efficiency ratio (EER rated), or coefficient of performance (COP rated), if applicable, is not less than the declared value minus 10 %. The EER and COP values shall be established in accordance with Annex II. The air conditioner model shall be considered to N/A comply with the requirements set out in this Regulation, as applicable, if the average of the maximum sound power level does not exceed more than 2 dB(A) of the declared value. If the results referred to in point 4 are not achieved, 5 N/A the model shall be considered not to comply with this Regulation. For the purposes of checking conformity with the N/A requirements of this Regulation, Member States shall apply the procedures referred to in Annex II, and harmonised standards the reference numbers of which have been published in the Official Journal of the European Union, or other reliable, accurate and reproducible calculation and measurement methods. which take into account the generally recognised state-of-the-art.

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Table 1:

P

Information requirements for air conditioners, except double dust and single dust

Table 1: Information requirements for air conditioners, except double duct and single duct air conditioners.						P		
(the number of dec			the pre	cision of reporting) Infor	mation to ider	ntify the mod	del(s)	
Function (indicate	if present)			If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.				
Cooling		Y		Average (mandatory)		Υ		
Heating		Y		Warmer (if designated)	Y		
		•		Colder (if designated)		N		
Item	symbol	value	unit	item	symbol	value	unit	
Design load		l		Seasonal efficiency		l	ı	
Cooling	Pdesignc	7,9	kW	Cooling	SEER	6,1	_	
Heating/Average	Pdesignh	6,4	kW	Heating/Average	SCOP/A	4,0	_	
Heating/Warmer	Pdesignh	_	kW	Heating/Warmer	SCOP/W	_	_	
Heating/Colder	Pdesignh	_	kW	Heating/Colder	SCOP/C	_	_	
Declared capacity temperature 27(19			ture Tj	Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj				
Function (indicate	if present)			If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.				
Cooling		Y		Average (mandatory)		Y		
Heating		Υ		Warmer (if designated)		N		
				Colder (if designated)		N		
Item	symbol	value	unit	item	symbol	value	unit	
Tj = 35 °C	Pdc	8,30	kW	Tj = 35 °C	EERdc	3,42	_	
Tj = 30 °C	Pdc	6,10	kW	Tj = 30 °C	EERdc	5,36	_	
Tj = 25 °C	Pdc	3,89	kW	Tj = 25 °C	EERdc	8,40	_	
Tj = 20 °C	Pdc	2,86	kW	Tj = 20 °C	EERdc	12,77	_	
Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj		Declared coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj						
Item	symbol	value	unit	item symbol		value	unit	
Tj = - 7 °C	Pdh	5,77	kW	Tj = - 7 °C COPdc		2,85	_	
Tj = 2 °C	Pdh	3,38	kW	Tj = 2 °C COPdc		4,44	_	
Tj = 7 °C	Pdh	2,41	kW	Tj = 7 °C	COPdc	6,31	_	
Tj = 12 °C	Pdh	2,24	kW	Tj = 12 °C	COPdc	7,76	_	
Tj = operating limit	Pdh	5,20	kW	Tj = operating limit	COPdc	2,97	_	



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Tj = bivalent temperature	Pdh	5,77	kW	Tj = bivalent temperature	COPdc	2,85	_	
Declared capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj		Declared coefficient of performance (*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj						
Item	symbol	value	unit	item	symbol	value	unit	
Tj = 2 °C	Pdh	_	kW	Tj = 2 °C	COPdc	_	_	
Tj = 7 °C	Pdh	_	kW	Tj = 7 °C	COPdc	_	_	
Tj = 12 °C	Pdh	_	kW	Tj = 12 °C	COPdc	_	_	
Tj = bivalent temperature	Pdh	_	kW	Tj = bivalent temperature	COPdc	_	_	
Tj = operating limit	Pdh	_	kW	Tj = operating limit	COPdc	_	_	
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			Declared coefficient of at indoor temperature Tj					
Item	symbol	value	unit	item	symbol	value	unit	
Tj = - 7 °C	Pdh	_	kW	Tj = - 7 °C	COPdc	_	_	
Tj = 2 °C	Pdh	_	kW	Tj = 2 °C	COPdc	_	_	
Tj = 7 °C	Pdh	_	kW	Tj = 7 °C	COPdc	_	_	
Tj = 12 °C	Pdh	_	kW	Tj = 12 °C	COPdc	_	_	
Tj = bivalent temperature	Pdh	_	kW	Tj = bivalent temperature	COPdc	_	_	
Tj = operating limit	Pdh	_	kW	Tj = operating limit	COPdc	_	_	
Tj = -15 °C	Pdh	_	kW	Tj = -15 °C	COPdc	_	_	
Bivalent temperatu	ıre			Operating limit temperature				
heating/Average	Tbiv	-7	°C	heating/Average	Tol	-10	°C	
heating/Warmer	Tbiv	2	°C	heating/Warmer	Tol	2	°C	
heating/Colder	Tbiv	_	°C	heating/Colder	Tol	_	°C	
Cycling interval ca	pacity		1	Cycling interval efficiency				
for cooling	Pcycc	_	kW	for cooling	EERcyc	_	_	
for heating	Pcych	_	kW	for heating	COPcyc	_	_	
Degradation coefficient cooling	Cdc	0,25	_	Degradation co- efficient heating (**)	Cdh	0,25	_	
	Electric power input in power modes other than		Annual electricity consumption			l		
off mode	Poff	_	kW	for cooling	QCE	428	kWh/ a	
standby mode (cooling / heating)	PsB	14,9 / 18,1	W	Heating/Average	QHE	1961	kWh/ a	



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thermostat-off mode (cooling / heating)	Рто	72,4 / 71,3	W	Heating/Warmer	QHE	_	kWh/ a
crankcase heater mode	Рск	_	kW	Heating/Colder	QHE	_	kWh/ a
Capacity control (ir	ndicate one o	f three option	ns)	Other items			
Function (indicate if present)			If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.				
Cooling		Υ		Average (mandatory)	Y		
Heating	Υ		Warmer (if designated	N			
				Colder (if designated)	N		
Item	symbol	value	unit	item	symbol	value	unit
Fixed		N		Sound power level (indoor/outdoor)	level (indoor/ outdoor) Lwa	56 / 68	dB(A)
staged	N		Global warming potential	GWP	675	kgCO 2 eq.	
variable	Y		Rated air flow (indoor/outdoor)	_	620/300 0	m₃/h	
Contact details for obtaining more information	No.568, South Rixian Road, Binhai Economic Development Zone, Cixi, Ningbo,						

^(*) For staged capacity units, two values divided by a slash ('l') will be declared in each box in the section 'Declared capacity of the unit' and 'declared EER/COP' of the unit.

In as much as is relevant in view of the functionality, the manufacturer shall supply the information as requested in the above Table 1 in the technical documentation of the product. For units with capacity control marked 'staged', two values for the highest and lowest, noted 'hi/lo' divided by a slash ('/') will be declared in each box under 'Declared capacity'.

^(**) If default Cd = 0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.





Table 2: Information requirement conditioners	N/A		
Information to identify the model	(s) to which the info	ormation relates to [fill in as nec	essary] :
Description	Symbol	Value	Unit
Rated capacity for cooling	Prated for cooling		kW
Rated capacity for heating	Prated for heating		kW
Rated power input for cooling	PEER		kW
Rated power input for heating	PCOP		kW
Rated Energy efficiency ratio	EERd		_
Rated Coefficient of performance	COPd		_
Information to identify the model	(s) to which the info	ormation relates to [fill in as nec	essary]:
Description	Symbol	Value	Unit
Power consumption in thermostat-off mode	Рто		W
Power consumption in standby mode	PsB		W
Electricity consumption of single/double duct appliances (indicate for cooling and heating separately)	DD: QDD SD: QSD		DD: kWh/a SD: kWh/h
Sound power level	LWA		dB(A)
Global warming potential	GWP		kgCO 2 eq.
Contact details for obtaining more information			





Test data according to EN 14825:2022

Test condition (Cooling function):

Voltage: 230 V / Frequency: 50 Hz / Harmonic distortion: 1,0 %,

Table 2 — Part load conditions for reference SEER and reference SEER_{on} calculation of air-to-air units

	Part load ratio	Part load ratio	Outdoor air dry bulb temperature	Indoor air dry bulb (wet bulb) temperatures
		%	°C	°C
Α	(35-16)/(Tdesignc -16)	100	35	27(19)
В	(30-16)/(Tdesignc -16)	74	30	27(19)
С	(25-16)/(Tdesignc -16)	47	25	27(19)
D	(20-16)/(Tdesignc -16)	21	20	27(19)

Test condition	Cooling capacity(W)	Cooling power input(W)	EER	Remark(For variable capacity units, the frequency settings for the same part load conditions.)
Α	8300	2426,9	3,420	66,0 Hz
В	6100	1138,1	5,360	40,0 Hz
С	3890	463,1	8,400	22,0 Hz
D	2860	224,0	12,768	15,0 Hz

Test condition (Heating function(Average)):

Voltage: 230 V / Frequency: 50 Hz / Harmonic distortion: 1,0 %;

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

Table 6 — Part load conditions for reference SCOP, reference SCOP_{on} and reference SCOP_{net} calculation of air-to-air units for the reference heating season "A" = average

	A		Outdoor air dry bulb	Indoor air dry bulb		
	Part load ratio	Part load ratio	(wet bulb) temperatures	temperature		
		%	°C	°C		
Α	(-7-16)/(Tdesignh -16)	88	-7(-8)	20		
В	(+2-16)/(Tdesignh -16)	54	2(1)	20		
С	(+7-16)/(Tdesignh -16)	35	7(6)	20		
D	(+12-16)/(Tdesignh -16)	15	12(11)	20		
E	(TOL-16)/(Tdesignh	(TOL-16)/(Tdesignh -16)		(TOL-16)/(Tdesignh -16) TOL		20
F	(Tbivalent-16)/(Tdesign	(Tbivalent-16)/(Tdesignh -16)		20		

Test condition	Heating capacity(W)	heating power input(W)	СОР	Remark(For variable capacity units, the frequency settings for the same part load conditions,)
Α	5770,0	2024,5	2,850	82,0 Hz
В	3380,0	761,6	4,438	32,0 Hz



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С	2410,0	381,9	6,311	19,0 Hz
D	2240,0	288,8	7,756	15,0 Hz
E	5200,0	1750,8	2,970	82,0 Hz
F	5770,0	2024,5	2,850	82,0 Hz

The SEER ,SCOP and Sound power level:						
SEER on	SCOP on (Average)	SCOP on (Warmer)	Sound power level (dB(A))			
7,27	4,60	1	56.3 / 68.2 (IU / OU)			
SEER	SCOP (Average)	SCOP (Warmer)	1			
6,46	4,57	1	/			
QCE	QHE (Average)	QHE (Warmer)	/			
428	1961	1	/			

Information of efficiency for Declared value and Measured value						
Item	Declared value	Measured value				
SEER	6,1	6,46				
QCE	428	428				
Average (mandatory)						
SCOP	4,0	4,57				
QHE	1961	1961				



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Requirements for minimum energy efficiency and maximum sound power level From 1 January 2013, air conditioners, except single and double duct air conditioners, shall correspond to minimum energy efficiency and maximum sound power level requirements as indicated in Tables 4 and 5 below, calculated in accordance with Annex II. The requirements on energy efficiency shall take into account the reference design conditions specified in Annex II, Table 3 using the 'Average' heating season where applicable. The requirements on sound power shall relate to the standard rating conditions specified in Annex II, Table 2: **SEER** SCOP Sound power level (dB(A)) 3,60 3,40 65 / 70 (IU / OU) Requirements for minimum energy efficiency and maximum sound power level From 1 January 2014, air conditioners shall correspond to requirements as indicated in the table below, calculated in accordance with Annex II. The requirements on energy efficiency for air conditioners, excluding single and double duct air conditioners, shall relate to the reference design conditions specified in Annex II, Table 3 using the 'Average' heating season where applicable.

N/A
N

Sound power level (dB(A))

65 / 70 (IU / OU)

SCOP

3,80

- 1. The air conditioner model, except single and double duct air conditioners, shall be considered to comply with the requirements set out in Annex I, as applicable, to this Regulation, if its seasonal energy efficiency ratio (SEER), or seasonal coefficient for performance (SCOP), if applicable, is not less than the declared value minus 8 % at the declared capacity of the unit. The SEER and SCOP values shall be established in accordance with Annex II.
- 2. The air conditioner model shall be considered to comply with the requirements set out in this Regulation, as applicable, if the maximum sound power level does not exceed more than 2 dB(A) of the declared value.

	i e e e e e e e e e e e e e e e e e e e				
Tested SEER	Declared SEER	Verification			
_	_	Tested SEER > Declared SEER x 92%			
Tested SCOP	Declared SCOP	Verification			
_	_	Tested SCOP > Declared SCOP x 92%			
Tested sound power level (dB(A))	Declared Sound power level (dB(A))	Verification			
_	_	Tested sound power level < Declared Sound power level + 2 dB(A)			

SEER

4,30





COMMISSION REGULATION (EU) No 626/2011 Requirement-Test Result-Remark CI. Verdict ANNEX II Energy efficiency classes The energy efficiency of air conditioners shall be 1 Ρ determined on the basis of measurements and calculations set out Annex VII. Both the SEER and SCOP shall take into account Ρ the reference design conditions and the operational hours per relevant mode of operation, and the SCOP shall relate to the heating season 'average', as laid down in Annex VII. The rated energy efficiency ratio (EER rated) and the rated coefficient of performance (COP rated) shall relate to standard rating conditions, as laid down in Annex VII. 2 Ρ Energy efficiency classes for air conditioners, except double ducts and single ducts Energy Efficiency Class SEER SCOP A+++ SEER ≥ 8,50 $SCOP \ge 5,10$ A++ $6,10 \le SEER < 8,50$ $4,60 \le SCOP < 5,10$ A+ $5,60 \le SEER < 6,10$ $4,00 \le SCOP < 4,60$ $5,10 \le SEER < 5,60$ $3,40 \le SCOP < 4,00$ В $4,60 \le SEER < 5,10$ $3,10 \le SCOP < 3,40$ C $4,10 \le SEER < 4,60$ $2,80 \le SCOP < 3,10$ D $3,60 \le SEER < 4,10$ $2,50 \le SCOP < 2,80$ Е $3,10 \le SEER < 3,60$ $2,20 \leq SCOP < 2,50$ F $2,60 \le SEER < 3,10$ $1,90 \leq SCOP < 2,20$ G SEER < 2.60 SCOP < 1.90





COMMISSION REGULATION (EU) No 626/2011 CI. Requirement-Test Result-Remark Verdict N/A Table 2 Energy efficiency classes for double ducts and single ducts Energy Efficiency Double ducts Single ducts EER_{rated} COP_{rated} EER_{rated} COP_{rated} A+++ $\geq 4,10$ ≥ 4,60 ≥ 4,10 ≥ 3.60 $4.10 \le COP < 4.60$ A++ $3,60 \le EER < 4,10$ $3,60 \le EER < 4,10$ $3.10 \le COP < 3.60$ $3.10 \le EER < 3.60$ $3,60 \le COP < 4,10$ $3,10 \le EER < 3,60$ $2,60 \le COP < 3,10$ A+ $2.60 \le EER < 3,10$ $2.60 \le EER < 3,10$ Α $3,10 \le COP < 3,60$ $2,30 \le COP < 2,60$ $2,40 \le EER < 2,60$ В $2,60 \le COP < 3,10$ $2,40 \le EER < 2,60$ $2.00 \le COP < 2.30$ C $2,10 \le EER < 2,40$ $2,40 \le COP < 2,60$ $2,10 \le EER < 2,40$ $1,80 \le COP < 2,00$ D $1,80 \le EER < 2,10$ $2,00 \le COP < 2,40$ $1,80 \le EER < 2,10$ $1,60 \le COP < 1,80$ $1,60 \le EER < 1,80$ $1.80 \le COP < 2.00$ $1,60 \le EER < 1,80$ Е $1,40 \le COP < 1,60$ F $1,40 \le EER < 1,60$ $1.60 \le COP < 1.80$ $1.40 \le EER < 1.60$ $1.20 \le COP < 1.40$ G < 1.40 < 1.60 < 1.40 < 1.20 **ANNEX IV** Product fiche 1. The information in the product fiche shall be given Ρ in the order specified below: (a) supplier's name or trade mark; Р (b) model identifier of the indoor air conditioner or of Ρ the indoor and outdoor elements of the air conditioner; (c) without prejudice to any requirements under the N/A Union eco-label scheme, where a model has been granted a 'European Union eco-label' under Regulation (EC) No 66/2010, a copy of the eco-label may be added; (d) inside and outside sound power levels at Ρ On cooling mode standard rating conditions, on cooling and/or heating modes: (e) the name and GWP of the refrigerant used and a Ρ standard text as follows: 'Refrigerant leakage contributes to climate change. Ρ Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [xxx]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [xxx] times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.'





COMMISSION REGULATION (EU) No 626/2011 CI. Requirement-Test Result-Remark Verdict Additionally, the following information shall be 2 Р included in the product fiche on air conditioners on the cooling mode, when efficiency is declared on the basis of the seasonal energy efficiency ratio (SEER): (a) the SEER and the energy efficiency class of the Р model (model of a unit or of a combination of units) determined in accordance with definitions and test procedures in Annex I and VII for the cooling mode as well as with the class limits defined in Annex II; (b) the indicative annual electricity consumption Q Ρ CE in kWh/a during the cooling season, determined in accordance with definitions and test procedures in Annex I and VII, respectively. It shall be described as: 'Energy consumption "XYZ" kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located'; (c) the design load Pdesignc in kW of the appliance Р in cooling mode determined in accordance with definitions and test procedures in Annex I and VII, respectively; Additionally, the following notes define the 3 Ρ information to be included in the fiche on the heating mode, when efficiency is declared on the basis of seasonal coefficient of performance (SCOP): (a) the SCOP and the energy efficiency class of the Ρ model, or combination, in heating mode determined in accordance with definitions and test procedures in Annex I and VII, respectively, as well as with the class limits defined in Annex II; (b) the indicative annual electricity consumption for Р an average heating season Q HE in kWh/a, determined in accordance with definitions and test procedures in Annex I and VII, respectively. It shall be described as: 'Energy consumption "XYZ" kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located'; (c) other designated heating seasons for which the N/A unit is declared fit for purpose, with options of warmer (optional) or colder (optional) seasons, as defined in Annex I; (d) the design load Pdesignh in kW of the appliance Ρ in heating mode determined in accordance with definitions and test procedures in Annex I and VII; (e) the declared capacity and an indication of the Ρ back up heating capacity assumed for the calculation of SCOP at reference design conditions. Additionally, the following notes define the N/A information to be included in the fiche of air conditioners, when efficiency is declared on the basis of energy efficiency ratio (EER rated) or coefficient of performance (COP rated):





COMMISSION REGULATION (EU) No 626/2011 CI. Requirement-Test Result-Remark Verdict (a) the energy efficiency class of the model, N/A determined in accordance with definitions and test procedures in Annex I and VII, as well as the class limits defined in Annex II; (b) for double ducts, the indicative hourly electricity N/A consumption Q DD in kWh/60 minutes determined in accordance with definitions and test procedures in Annex I and VII. It shall be described as: 'Energy consumption "X,Y" kWh per 60 minutes, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located'; (c) for single ducts, the indicative hourly electricity N/A consumption Q SD in kWh/60 minutes determined in accordance with definitions and test procedures in Annex I and VII. It shall be described as: 'Energy consumption "X,Y" kWh per 60 minutes, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located'; (d) the cooling capacity P rated in kW of the N/A appliance determined in accordance with definitions and test procedures in Annex I and VII; (e) the heating capacity P rated in kW of the N/A appliance determined in accordance with definitions and test procedures in Annex I and VII. 5 One fiche may cover a number of appliance models N/A supplied by the same supplier. The information contained in the fiche may be given 6 N/A 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 points 1-4 not already displayed on the label shall also be provided. ANNEX V Technical documentation The technical documentation referred to in Article 3 Р (1)(c) shall include at least the following items: (a) the name and address of the supplier; Ρ (b) a general description of the appliance model, Р sufficient for it to be unequivocally and easily identified. Single ducts shall be referred to as 'local air conditioners': (c) where appropriate, the references for the Ρ harmonised standards applied; (d) where appropriate, the other calculation methods, N/A measurement standards and specifications used; (e) identification and signature of the person Ρ empowered to bind the supplier; (f) where appropriate the technical parameters for Ρ measurements, established in accordance with Annex VII: (i) overall dimensions; Р (ii) specification of the type of the air conditioner; Ρ





COMMISSION REGULATION (EU) No 626/2011 CI. Requirement-Test Result-Remark Verdict (iii) specification whether the appliance is designed Ρ for cooling or heating only or for both; (iv) the energy efficiency class of the model as Р defined in Annex II; (v) The energy efficiency ratio (EER rated) and Р coefficient of performance (COP rated) for single and double duct air conditioners or seasonal energy efficiency ratio (SEER) and seasonal coefficient of performance (SCOP) for other air conditioners; (vi) The heating season for which the appliance is Ρ declared fit for purpose; (vii) Sound power levels expressed in dB(A) re1 pW, Ρ rounded to the nearest integer; (viii) the name and GWP of refrigerant used. Ρ (g) the results of calculations performed in Ρ accordance with Annex VII. Suppliers may include additional information at the end of the above list. Where the information included in the technical Ρ documentation file for a particular air conditioner model has been obtained by calculation on the basis of design, or extrapolation from other equivalent appliances, or both, the documentation shall include details of such calculations or extrapolations, or both, and of tests undertaken by suppliers to verify the accuracy of the calculations undertaken. The information shall also include a list of all other equivalent appliance models where the information was obtained on the same basis. ANNEX VI Information to be provided in the cases where end-users cannot be expected to see the product displayed 1. The information referred to in Article 4(b) shall be Р provided in the following order: (a) The energy efficiency class of the model as Ρ defined in Annex II; (b) for air conditioners other than single ducts and Р double ducts: (i) the seasonal energy efficiency ratio (SEER) Ρ and/or seasonal coefficient of performance (SCOP); (ii) the design load (in kW); Ρ (iii) the annual electricity consumption; Ρ (iv) the cooling and/or each heating ('Average, Р Colder, Warmer') season the appliance is declared fit for purpose: (c) for single duct and double duct air conditioners: N/A (i) the energy efficiency ratio (EER) and/or coefficient N/A of performance (COP); (ii) the rated capacity (kW); N/A (iii) for double ducts, the hourly electricity N/A consumption for cooling and/or heating; (iv) for single ducts, the hourly electricity N/A consumption for cooling and/or heating:



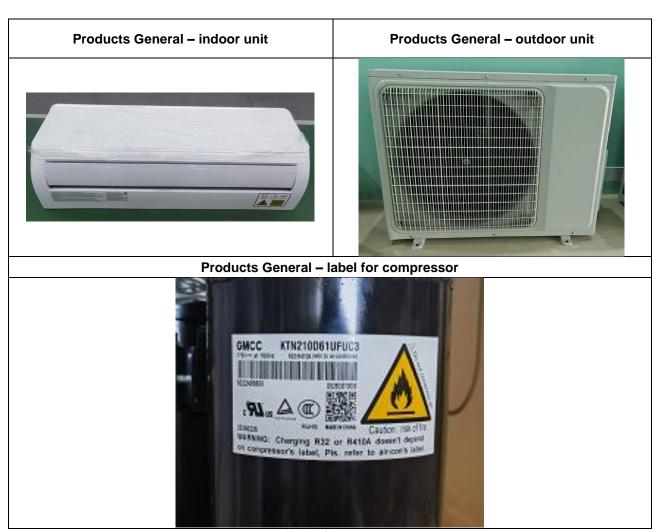


COMMISSION REGULATION (EU) No 626/2011					
CI.	Requirement-Test	Result-Remark	Verdict		
	(d) Sound power levels expressed in dB(A) re1 pW, rounded to the nearest integer;		Р		
	(e) Name and GWP of refrigerant used.		Р		
2	Where other information contained in the product information fiche is also provided, it shall be in the form and order specified in Annex IV.		Р		
3	The size and font in which all the information referred in this Annex is printed or shown shall be legible.		Р		





Photo documents:



--- End of Report ---