Produkte Products					🛕 τϋν	Rheinland®
Prüfbericht-Nr.: Test Report No.:	NN20W1SU	001	Auftrags-Nr. Order No.:	.: 1	80192538	Seite 1 von 2 Page 1 of 2
Kunden-Referenz-Nr.: Client Reference No.:	N/A		Auftragsdat Order date:	t <b>um:</b> 1	1.09.2020	
Auftraggeber: Client:	No. 17, Tang	lun Electric Co., Li jmei Road, Econo iang, P. R. China		nent Zor	ne, Yuhang Di	istrict, Hangzhou,
<b>Prüfgegenstand:</b> Test item:	Local Air C	onditioner				
Bezeichnung / Typ-Nr.: Identification / Type No.:	OL-BKYR26		′26-A011D1, (	OL-BKY	R26-A011D2	, OL-BKY26-A011C2 , OL-BKY26-A011D2 -BKY26-A011F
Auftrags-Inhalt: Order content:	Type exami	nation				
Prüfgrundlage: Test specification:		ON REGULATION ON DELEGATED I			lo 626/2011	
Wareneingangsdatum: Date of receipt:	11.09.2020					
<b>Prüfmuster-Nr.:</b> Test sample No.:	A00097019 <sup>2</sup>	-002	-			
<b>Prüfzeitraum:</b> Testing period:	11.09.2020	o 30.09.2020				1
<b>Ort der Prüfung:</b> Place of testing.	TÜV Rheinla Co., Ltd.	nd /CCIC (Ningbo)	)			
Prüflaboratorium: Testing laboratory:	TÜV Rheinla Co., Ltd.	nd /CCIC (Ningbo)	)	1		
Prüfergebnis*: Test result*:	Pass					
<b>geprüft von /</b> tested by.			kontrolliert	<b>von /</b> re	eviewed by:	
26.10.2020 Kael Huar	ng /PE	Kael Huang	26.10.2020	Clyde	Chen /Revie	wer Chydo
Datum Name / Stell		Unterschrift Signature	<b>Datum</b> Date		<b>Stellung</b> Position	Unterschrift Signature
Sonstiges / Other: This report is for cooling Zustand des Prüfgegens Condition of the test item	standes bei A		Prüfmuster v	ollständ	umption test. dig und unbes and undama	-
* Legende: 1 = sehr gut P(ass) = entspricht Legend: 1 = very good	2 = gut o.g. Prüfgrundlage( 2 = good	3 = bef riedigend n) F(ail) = entspricht nic 3 = satisfactory (s) F(ail) = failed a.m tes	ht o.g. Prüfgrundlag	4 = a le(n) N/A = 4 = s	usreichend	5 = mangelhaft
Dieser Prüfbericht be auszugsweise vervi This test report only relates to be dup	<b>ielfältigt werde</b> o the a. m. test	n. Dieser Berichtbe	rechtigt nicht mission of the te	zur Verv	wendungeine r this test repo	s Prüfzeichens.

### Testing results summary

The tested EER and COP meets the requirement for single duct air conditioner of COMMISSION REGULATION (EU) 206/2012.

According to COMMISSION DELEGATED REGULATION (EU) No 626/2011 with regard to the energy labelling of single duct air conditioner, the test result which covering all models was classed as A for cooling, A for heating.

### Summary of testing

1.	The appliance was evaluated cooling and heating capacity test according to EN 14511-2:2018, EN
	14511-3:2018 and standby mode power consumption test according to EN 50564:2011.

- 2. The appliance was evaluated sound power level test according to EN 12102-1:2017.
- 3. All tests were performed on the model OL-BKYR26-A011A2.

Test sample particulars:	
Classification of installation and use	Stationary appliance
Type of the appliance	Local air conditioner
Function of the appliance	Cooling and Heating
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:	See cover page
Date (s) of performance of tests	See cover page

### General product information

- 1. The appliances are mobile air conditioners, single duct type, air to air unit, local air conditioner are intended for household use.
- 2. The appliances do not incorporate with the off mode. Standby mode:

plug in, after operation, put the power button on the touch panel or remote control panel to standby position, only power lamp on.

- 3. The main power is supplied with a single-phase and 3-pole power supply cord.
- 4. The BKYR series had both cooling and heating function while the BKY series only had cooling function.
- 5. According to the requst of client, the test was carried out with indoor air ehthalpy test method.

### Model description:

The information of compressor and fan motor are listed as below.

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
Motor- compressor	Guangdong Meizhi Compressor Ltd.	DSM155V13U CZH	AC220-240V, 50Hz, R290	EN 60335-1 EN 60335-2-34 with Annex AA	TUV R 50252512
Fan motor	Zhejiang Oulun Electric Co., Ltd.	YDK-65-4	AC220-240V, 50Hz, 65W, Class130(B)	EN 60335-1 EN 60335-2-40	Test with appliance

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	COMMISSION REGULATION (EU)	No 206/2012	
	COMMISSION DELEGATED REGULATION	N (EU) No 626/2011	
Clause	Requirement - Test	Result - Remark	Verdict

CI.	Requirement-Test			Result-Rema	rlz	Verdict					
ANNEXT	Ecodesign requirements			Tresult-Trema	IN	veruici					
	DEFINITIONS APPLICAE		_								
1	PURPOSES OF THE AN	-				P					
2	REQUIREMENTS FOR MINIMUM ENERGY										
	EFFICIENCY, MAXIMUM										
	CONSUMPTION IN OFF- MODE AND FOR MAXIM LEVEL										
	(a) From 1 January 2013,			GWP of refrig	erant ≤ 150	Р					
	duct air conditioners shall requirements as indicated			-							
	below, calculated in acco										
	Single duct and double du										
	comfort fans shall fulfil the and off mode as indicated										
	requirements on minimun										
	maximum sound power shall relate to the standard										
	rating conditions specified	rating conditions specified in Annex II, Table 2.									
	Table 1										
	Requirements for minimum energy efficiency										
		Double duct	air conditioners	Single duct a							
		EER <sub>rated</sub>	COP <sub>rated</sub>	EER <sub>rated</sub>	COP <sub>rated</sub>						
	If GWP of refrigerant > 150	2,40	2,36	2,40	1,80						
	If GWP of refrigerant $\leq 150$	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 1,00 W.	on of equipment in	any off-mode condi	tion shall not exceed						
	Standby mode	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.										
	Availability of standby and/or off mode Equipment shall, except where this is inappropriate for the intended use, 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.										

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## COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause Requirement - Test

Result - Remark

Cl.	Requirement-Test		Result	t-Remark	Verdict				
01.			Resul		Verdict				
		Table 3							
	Requiren	nents for maximum sound	d power leve	4					
		Indoor sound power level in d	lB(A)						
		65							
(b)	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 p the standard rating conditions Table 2		II,		N/A				
	Table 4 Requirements for minimum energy efficiency								
		SEER	5CO8						
	If GWP of refrigerant > 150	3,60		3,40					
	If GWP of refrigerant ≤ 150	3,24		3,06					
	Table 5       Requirements for maximum sound power level       Rated capacity ≤ 6 kW       6 < Rated capacity ≤12 kW								
		nd power level in Indoor sound IB(A) d	d power level in B(A)	Outdoor sound power level in dB(A)					
	60			70					
(c)									

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# COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause Re

Requirement - Test

Result - Remark

CI.	Requirement-Test		Result-Remark				Verdict				
	Table 6 Requirements for minimum energy efficiency										
			rs, except double t air conditioners	Double duct a	ir conditioners	Single duct a	ir conditioners				
		SEER	SCOP (heating season: Average)	EER <sub>rated</sub>	COP <sub>rated</sub>	EER <sub>rated</sub>	COP <sub>rated</sub>				
	If GWP of refrigerant > 150 for < 6 kW	4,60	3,80	2,60	2,60	2,60	2,04				
	If GWP of refrigerant ≤ 150 for < 6 kW	4,14	3,42	2,34	2,34	2,34	1,84				
	If GWP of refrigerant > 150 for 6-12 kW	4,30	3,80	2,60	2,60	2,60	2,04				
	If GWP of refrigerant ≤ 150 for 6-12 kW	3,87	3,42	2,34	2,34	2,34	1,84				
(d)	From 1 January 201 air conditioners and to requirements as in calculated in accord	comfort fandicated i	ans shall c n Table 7 b Annex II.	orrespond				P —			
	Requirements	for maxim	um power coi		off-mode an	d standby m	ode				
	Off mode	Pow 0,50		n of equipmen	t in any off-m	ode condition	shall not exceed				
	Standby mode	react		n, or providi	ng only a read	tivation func	providing only a tion and a mere 0,50 W.				
		info	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.								
	Availability of standby and mode	prov does mod	ide off mode not exceed t	and/or stand he applicable	by mode, and power consu	or another ption requ	ne intended use, condition which irements for off ted to the mains				

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### COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause Requirement - Test

Result - Remark

	COMMISSION REGULATION (EU) No 206/2012							
CI.	Requirement-Test		Result-Remark	Verdict				
	Power management	using product(s) are not dependen inappropriate for the intended use, similar function, that switches equi time appropriate for the intended — standby mode, or — off mode, or — another condition which do consumption requirements for	the main function, or when other energy- it on its functions, equipment shall, unless offer a power management function, or a ipment after the shortest possible period of use of the equipment, automatically into: oes not exceed the applicable power off mode and/or standby mode when the the mains power source. The power activated before delivery.					
3.	PRODUCT INFORMATIO	N REQUIREMENTS		Р				
	(a) From 1 January 2013, conditioners and comfort out in points below and ca with Annex II shall be prov	fans, the information set alculated in accordance <i>i</i> ided on:		Р				
	(i) the technical documen	•		Р				
	(ii) free access websites c conditioners and comfort	fans;		N/A				
	(b) The manufacturer of a comfort fans shall provide market surveillance check necessary information on applied for the establishm capacities, SEER/EER, S service values and provide obtaining such information	laboratories performing ks, upon request, the the setting of the unit as nent of declared COP/COP values and e contact information for		Ρ				
	(c) Information requirement except double duct and s			N/A				
	(d) Information requireme double duct air conditione Single duct air conditione air conditioners' in packag documentation and in any whether electronic or in pa Manufacturer shall provide in the table 2.	nts for single duct and ers. rs shall be named 'local ging, product / advertisement material, aper. e information as detailed		Ρ				
	(e) Information requirement Manufacturer shall provide in the table 3			N/A				
ANNEX II		Measurements and calcul	ations					

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# COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause Requirement - Test

Result - Remark

	COMMISSION REGULATION (EU)	No 206/2012	
CI.	Requirement-Test	Result-Remark	Verdict
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.		Ρ
2	The determination of the seasonal energy consumption and efficiency for seasonal energy efficiency ratio (SEER) and seasonal coefficient of performance (SCOP) shall take into account:		N/A
	(a) European cooling and heating season(s), as defined in Table 1 below;		N/A
	(b) reference design conditions, as defined in Table 3 below;		N/A
	(c) electric energy consumption for all relevant modes of operation, using time periods as defined in Table 4 below;		N/A
	(d) effects of the degradation of the energy efficiency caused by on/off cycling (if applicable) depending on the type of control of the cooling and/or heating capacity;		N/A
	<ul> <li>(e) corrections on the seasonal coefficients of performance in conditions where the heating load can not be met by the heating capacity;</li> </ul>		N/A
	(f) the contribution of a back-up heater (if applicable) in the calculation of the seasonal efficiency of a unit in heating mode.		N/A
3	Where the information relating to a specific model, 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).		N/A
4	The rated energy efficiency ratio (EER rated) and, 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.		P
5	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.		N/A

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## COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause Requirement - Test

Result - Remark

CI.	Requireme				TION (EU)	Result-R			Verdic		
						Nesuit-N	emark		N/A		
6	The comfort fan efficiency shall be determined on the basis of the nominal air flow rate of the unit divided by the pominal electric power input of the										
	divided by the nominal electric power input of the unit.										
	Cooling at	nd heating s	eason bins (j = b	oin index, Tj ≃ ou	ible 1 itdoor temperatu	re, hj = hours	per annum p	er bin) where	-		
		COOLING SEA	SON	ab = ary b	alb temperature	TING SEASON					
							hj				
	j	тј •с	hj	j	Tj C		h/annum				
	-	db	h/annum	*	db	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			
	6	22 23	215	13 14	- 18	0	0	19 26			
	7	23	218 197	14	- 16	0	ő	39			
	9	24	177	16	- 15	ő	ő	41			
	10	26	158	17	- 14	0	o	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	- 7	24	0	125			
	18	34	17	25	- 6	27	0	169			
	19	35	13	26	- 5	68	0	195			
	20	36	9	27	- 4	91	0	278			
	21	37	4	28	- 3	89	0	306			
	22 23	38 39	3	29 30	-2	165 173	0	454 385			
	23	40	1	30	-1	240	0	490			
	24		ľ	32	1	280	ő	533			
				33	2	320	3	380			
				34	3	357	22	228			
				35	4	356	63	261			
				36	5	303	63	279			
				37	6	330	175	229			
				38	7	326	162	269			
				39	8	348	259	233			
				40	9	335	360	230			
				41 42	10	315 215	428 430	243 191			
				42	12	169	503	191			
				45	12	151	444	146			
				45	14	105	384	97			
				46	15	74	294	61			
		Total h.	2 602		Total h.	4 910	3 590	6 446			

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## COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause Requirement - Test

Result - Remark

			SION	REGULA	FION (E	EU) No 206/2					
CI.	Requirement-Te	st				Result-F	Remark	Verdict			
		Table 2									
		Standard	rating co	n <b>ditions, temp</b> ('wet bulb' ind		'dry bulb' air tem ackets)	perature				
	Appliance		Fu	inction	Indoor	air temperature (°C)	Outdoor air temperature (°C)				
	air conditioners, exc		co	ooling		27 (19)	35 (24)				
	single duct air cond	itioners	h	eating	20	(max. 15)	7(6)				
	single duct air conditioner		co	ooling		35 (24)	35 (24) (*)				
		luonei	h	eating		20 (12)	20 (12) (*)				
	(*) In case of single du air.	ct air conditio	ners the co	ndenser (evaporate	or) when cool	ing (heating) is not su	pplied with outdoor air, but indoor				
	F	Reference d	esign cor		ble 3 eratures in	'dry bulb' air ten	iperature	-			
			-	('wet bulb' indi	cated in br	ackets)	-				
	Function/season	Indoor air te (°C)		Outdoor air te (°C)		Bivalent temperatur (°C)	e Operating limit temperature (°C)				
		Tin	l	Tdesignc/Te	designh	Tbiv	Tol				
	cooling 27		19)	Tdesignc =	35 (24)	n.a.	n.a.				
	heating/Average			Tdesignh = -	10 (- 11)	max. 2	max. – 7				
	heating/Warmer	20 (1	5)	Tdesignh :	= 2 (1)	max. 7	max. 2				
	heating/Colder			Tdesignh = -	22 (- 23)	max. – 7	max. – 15				

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# COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause

Requirement - Test

Result - Remark

COMMISSION REGULATION (EU) No 206/2012										
CI.	Requiremer	nt-Test				Re	esult-Rei	mark		Verdict
	Operational	Table 4           Operational hours per type of appliance per functional mode to be used for calculation of electricity consumption								_
	Type of applian (if appl		Unit	Heating season	On mode	Thermostat- off mode	Standby mode	Off mode	Crankcase heater mode	
	(11 app	licabley		season	cooling: H <sub>CE</sub> heating: H <sub>HE</sub>	Н <sub>то</sub>	H <sub>SB</sub>	H <sub>OFF</sub>	H <sub>CK</sub>	
	Air condition	iers, except s	single and de	l ouble duct a		er	1		<u> </u>	
	Cooling mode offers cooling	, if appliance only	h/annum		350	221	2 142	5 088	7 760	
	Cooling and	Cooling mode	h/annum		350	221	2 142	0	2 672	
	heating modes, if appliance			Average	1 400	179	0	0	179	
	offers both modes	Heating mode	h/annum	Warmer	1 400	755	0	0	755	
				Colder	2 100	131	0	0	131	
										<u> </u>
	Type of appliand (if appli		Unit	Heating season	On mode	Thermostat- off mode	Standby mode	Off mode	Crankcase heater mode	
					cooling: H <sub>CE</sub> heating: H <sub>HE</sub>	Н <sub>то</sub>	H <sub>58</sub>	H <sub>OFF</sub>	Н <sub>ск</sub>	
				Average	1 400	179	0	3 672	3 851	
	Heating mode, offers heating	if appliance only	h/annum	Warmer	1 400	755	0	4 345	4 476	
				Colder	2 100	131	0	2 1 8 9	2 944	
	Double duct a	ir condition	er							
	Cooling mode, offers cooling o	if appliance only	h/60 min		1	n/a	n/a	n/a	n/a	
	Cooling and heating modes, if	Cooling mode	h/60 min		1	n/a	n/a	n/a	n/a	
	appliance offers both modes	Heating mode	h/60 min		1	n/a	n/a	n/a	n/a	
	Heating mode, offers heating o	if appliance only	h/60 min		1	n/a	n/a	n/a	n/a	
	Single duct ai	r conditione	r							
	Cooling mode		h/60 min		1	n/a	n/a	n/a	n/a	
	Heating mode		h/60 min		1	n/a	n/a	n/a	n/a	
ANNEX	III Verification	procedur	e for mai	rketsurve	eillance p	urposes				+ -
ł	1									

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# COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011

Clause Requirement - Test

Result - Remark

<u></u>	COMMISSION REGULATION (EU)		
CI.	Requirement-Test	Result-Remark	Verdict
	When performing the market surveillance checks refe 2009/125/EC, the authorities of the Member States s verification procedure for the requirements set out in	hall apply the following	_
1	The authorities of the Member State shall test one single unit.		N/A
2	2. 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.		N/A
	The model of a single and double duct air 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 standby- mode 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.		N/A
	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.		N/A
3	If the result referred to in point 2 is not achieved, the market surveillance authority shall randomly select three additional units of the same model for testing.		N/A
4	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 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.		N/A
	The model of a single and double duct air 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.		N/A

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	COMMISSION REGULATION (EU)	No 206/2012	
	COMMISSION DELEGATED REGULATIO	N (EU) No 626/2011	
Clause	Requirement - Test	Result - Remark	

Requirement - Test

	COMMISSION REGULATION (EU)	No 206/2012	
CI.	Requirement-Test	Result-Remark	Verdict
	The air conditioner model shall be considered to 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.		N/A
5	If the results referred to in point 4 are not achieved, the model shall be considered not to comply with this Regulation.		N/A
	For the purposes of checking conformity with the 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.		N/A

	COMMISSION REGULATION (EU) No 626/2011					
Cl.	Requirement-Test	Result-Remark	Verdict			
ANNEX II	Energy efficiency classes		- T			
1	The energy efficiency of air conditioners shall be determined on the basis of measurements and calculations set out Annex VII.					
	Both the SEER and SCOP shall take into account 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.		Р			

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# COMMISSION REGULATION (EU) No 206/2012 COMMISSION DELEGATED REGULATION (EU) No 626/2011 Requirement - Test

Clause

Result - Remark

CI.	Requirement-Te	est	-	Result-Rem	nark	Verdict		
2	Table 1							
	Energy	efficiency classes for	air conditioners, exce	pt double ducts and si	ngle ducts			
	Energy Efficiency Cl	ass	SEER	5	SCOP			
	A+++	SI	EER ≥ 8,50	SCO	PP ≥ 5,10			
	A++	6,10	≤ SEER < 8,50	4,60 ≤	SCOP < 5,10			
	A+	5,60	≤ SEER < 6,10	4,00 ≤	SCOP < 4,60			
	А	5,10	≤ SEER < 5,60	3,40 ≤ 3	SCOP < 4,00			
	В	4,60	≤ SEER < 5,10	3,10 ≤ 3	SCOP < 3,40			
	С	4,10	≤ SEER < 4,60	2,80 ≤	SCOP < 3,10			
	D	3,60	≤ SEER < 4,10	2,50 ≤	SCOP < 2,80			
	Е	3,10	≤ SEER < 3,60	2,20 ≤ 3	SCOP < 2,50			
	F	2,60	≤ SEER < 3,10	1,90 ≤ 3	1,90 ≤ SCOP < 2,20			
	G	SI	EER < 2,60	R < 2,60 SCOP < 1,90				
	Energy Efficiency Class	Doubl	e ducts S		e ducts			
	Energy Efficiency							
		EER <sub>rated</sub>	EER <sub>rated</sub> COP <sub>rated</sub>		EER <sub>rated</sub> COP <sub>rated</sub>			
	A+++	≥ 4,10	≥ 4,60	≥ 4,10	≥ 3,60			
	A++	$3,60 \le \text{EER} < 4,10$	$4,10 \le \text{COP} < 4,60$	$3,60 \le \text{EER} < 4,10$	$3,10 \le \text{COP} < 3,60$			
	A+	$3,10 \le \text{EER} < 3,60$	$3,60 \leq \text{COP} < 4,10$	$3,10 \le \text{EER} < 3,60$	$2,60 \le \text{COP} < 3,10$			
	А	$2,60 \le \text{EER} < 3,10$	3,10 ≤ COP < 3,60	$2,60 \le \text{EER} < 3,10$	$2,30 \le \text{COP} < 2,60$			
	В	$2,40 \le \text{EER} \le 2,60$	2,60 ≤ COP < 3,10	$2,40 \le \text{EER} \le 2,60$	2,00 ≤ COP < 2,30			
	С	$2,10 \leq \text{EER} < 2,40$	$2,40 \le \text{COP} < 2,60$	$2,10 \le \text{EER} < 2,40$	$1,80 \le \text{COP} < 2,00$			
	D	$1,80 \leq \text{EER} < 2,10$	$ER < 2,10$ 2,00 $\leq$ COP $< 2,40$ 1,80	$1,80 \le \text{EER} \le 2,10$	1,60 ≤ COP < 1,80			
	E	$1,60 \leq \text{EER} < 1,80$	$1,80 \le \text{COP} < 2,00$	$1,60 \le \text{EER} \le 1,80$	$1,40 \le \text{COP} < 1,60$			
	F	$1,40 \leq \text{EER} < 1,60$	1,60 ≤ COP < 1,80	1,40 ≤ EER < 1,60	$1,20 \le \text{COP} < 1,40$			
	G	< 1,40	< 1,60	< 1,40	< 1,20			
ANNEX	(IV Product fiche					-		
			fiche shall be giv	<i>i</i> en		Р		
		in the order specified below: (a) supplier's name or trade mark;						
	(b) model identii the indoor and o conditioner;		air conditioner or s of the air	of		P P		

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	(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		
	standard rating conditions, on cooling and/or heating		P
	modes;		
	(e) the name and GWP of the refrigerant used and a		
	standard text as follows:		P
	'Refrigerant leakage contributes to climate change.	[www] 2 morked in Lloor	D
	Refrigerant with lower global warming potential	[xxx]=3, marked in User	P
	(GWP) would contribute less to global warming than	manual	
	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 CO <sup>2</sup> , 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.'		
2	Additionally, the following information shall be		N/A
	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		N/A
	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		N/A
	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		NI/A
	in cooling mode determined in accordance with		N/A
	definitions and test procedures in Annex I and VII,		
	respectively;		
3	Additionally, the following notes define the		N/A
	information to be included in the fiche on the heating		IN/A
	mode, when efficiency is declared on the basis of		
	seasonal coefficient of performance (SCOP):		
	(a) the SCOP and the energy efficiency class of the		N/A
	model, or combination, in heating mode determined		IN/A
	in accordance with definitions and test procedures in		
	Annex I and VII, respectively, as well as with the		
	class limits defined in Annex II;		

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	(b) the indicative annual electricity consumption for 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 energy consumption will depend on how the		N/A
	appliance is used and where it is located'; (c) other designated heating seasons for which the unit is declared fit for purpose, with options of warmer (optional) or colder (optional) seasons, as defined in Annex I;		N/A
	(d) the design load Pdesignh in kW of the appliance in heating mode determined in accordance with definitions and test procedures in Annex I and VII;		N/A
	(e) the declared capacity and an indication of the back up heating capacity assumed for the calculation of SCOP at reference design conditions.		N/A
4	Additionally, the following notes define the 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):		Р
	(a) the energy efficiency class of the model, determined in accordance with definitions and test procedures in Annex I and VII, as well as the class limits defined in Annex II;		P
	(b) for double ducts, the indicative hourly electricity 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':		N/A
	<ul> <li>(c) for single ducts, the indicative hourly electricity 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';</li> </ul>		P
	(d) the cooling capacity P rated in kW of the appliance determined in accordance with definitions and test procedures in Annex I and VII;		Р
	(e) the heating capacity P rated in kW of the appliance determined in accordance with definitions and test procedures in Annex I and VII.		Р
5	One fiche may cover a number of appliance models supplied by the same supplier.		N/A

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6	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 points 1-4 not already displayed on the label shall also be provided.		N/A
ANNEXV	Technical documentation		—
	The technical documentation referred to in Article 3 (1)(c) shall include at least the following items:		Р
	(a) the name and address of the supplier;		Р
	(b) a general description of the appliance model, sufficient for it to be unequivocally and easily identified. Single ducts shall be referred to as 'local air conditioners';		P
	(c) where appropriate, the references for the harmonised standards applied;		Р
	(d) where appropriate, the other calculation methods, measurement standards and specifications used;		N/A
	(e) identification and signature of the person empowered to bind the supplier;		Р
	(f) where appropriate the technical parameters for measurements, established in accordance with Annex VII:		Р
	(i) overall dimensions;		Р
	(ii) specification of the type of the air conditioner;		Р
	(iii) specification whether the appliance is designed for cooling or heating only or for both;		Р
	(iv) the energy efficiency class of the model as defined in Annex II;		Р
	(v) The energy efficiency ratio (EER rated) and 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;		Р
	(vi) The heating season for which the appliance is declared fit for purpose;		N/A
	(vii) Sound power levels expressed in dB(A) re1 pW, rounded to the nearest integer;		Р
	(viii) the name and GWP of refrigerant used.		Р
	(g) the results of calculations performed in accordance with Annex VII. Suppliers may include additional information at the end of the above list.		Р

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	Where the information included in the technical 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.		Ρ
ANNEXVI	Information to be provided in the cases where end-u the product displayed	sers cannot be expected to see	—
1	1. The information referred to in Article 4(b) shall be provided in the following order:		Р
	(a) The energy efficiency class of the model as defined in Annex II;		Р
	(b) for air conditioners other than single ducts and double ducts:		N/A
	(i) the seasonal energy efficiency ratio (SEER) and/or seasonal coefficient of performance (SCOP);		N/A
	(ii) the design load (in kW);		N/A
	(iii) the annual electricity consumption;		N/A
	(iv) the cooling and/or each heating ('Average, Colder, Warmer') season the appliance is declared fit for purpose;		N/A
	(c) for single duct and double duct air conditioners:		Р
	(i) the energy efficiency ratio (EER) and/or coefficient of performance (COP);		Р
	<ul><li>(ii) the rated capacity (kW);</li><li>(iii) for double ducts, the hourly electricity</li></ul>		P N/A
	consumption for cooling and/or heating; (iv) for single ducts, the hourly electricity		P
	consumption for cooling and/or heating; (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

Table 1:						N/A		
Information requair conditioners.	irements for	air conditio	oners, e	xcept double duct and	single duct			
(the number of de to which the inform			s the pre	ecision of reporting) Info	rmation to ide	ntify the mo	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		_		Average (mandatory)		_		
Heating —			Warmer (if designated	d)	—			
			Colder (if designated)		—			
Item	symbol	value	unit	item	symbol	value	unit	
Design load			Seasonal efficiency					
Cooling	Pdesignc	_	kW	Cooling	SEER	—	—	
Heating/Average	Pdesignh	—	kW	Heating/Average	SCOP/A	—	—	
Heating/Warmer	Pdesignh	—	kW	Heating/Warmer	SCOP/W	—	—	
Heating/Colder	Pdesignh	—	kW	Heating/Colder	SCOP/C	—	—	
Declared capacity temperature 27(19	(*) for cooling 9) °C and out	g, at indoor door tempera	ature Tj	Declared energy efficite temperature 27(19) °C	ency ratio (*) C and outdoo	, at indoor r temperatur	e Tj	
Function (indicate	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		_		Average (mandatory)	—			
Heating				Warmer (if designated)		—		
				Colder (if designated)		—		
ltem	symbol	value	unit	item	symbol	value	unit	
Tj = 35 °C	Pdc	—	kW	Tj = 35 °C	EERdc	—	_	
Tj = 30 °C	Pdc	—	kW	Tj = 30 °C	EERdc	—	—	
Tj = 25 °C	Pdc	—	kW	Tj = 25 °C	EERdc	—	—	
Tj = 20 °C	Pdc	—	kW	Tj = 20 °C	EERdc	—	_	
Declared capacity at indoor tempera temperature Tj			eason,	Declared coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj				
ltem	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	—	_	
Declared capacity	(*) for heating	g/Warmer se	eason,	Declared coefficient of performance (*)/Warmer				

at indoor tempera temperature Tj	ture 20 °C an	d outdoor		season, at indoor terr temperature Tj	perature 20	°C and outd	oor
ltem	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 indoor temperatur temperature Tj	r (*) for heatin e 20 °C and c	g/Colder se outdoor	ason, at	Declared coefficient of at indoor temperature Tj			
ltem	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 temperate	Bivalent temperature			Operating limit tempe	rature		
heating/Average	Tbiv	-	°C	heating/Average	Tol	-	°C
heating/Warmer	Tbiv	—	°C	heating/Warmer	Tol	—	°C
heating/Colder	Tbiv	-	°C	heating/Colder Tol		-	°C
Cycling interval ca	apacity			Cycling interval efficie	ency		
for cooling	Рсусс	—	kW	for cooling	EERcyc	—	—
for heating	Pcych	—	kW	for heating COPcyc		—	—
Degradation co- efficient cooling (**)	Cdc	-	-	Degradation co- efficient heating (**)	Cdh	-	_
Electric power inp 'active mode'	ut in power m	odes other	than	Annual electricity con	sumption		
off mode	Poff	_	kW	for cooling	QCE	_	kWh/ a
standby mode (cooling / heating)	Psb	_	W	Heating/Average QHE		_	kWh/ a
thermostat-off mode (cooling / heating)	Рто	_	W	Heating/Warmer QHE		-	kWh/ a
crankcase heater mode	Рск	—	kW	Heating/Colder	Qhe	-	kWh/ a

TRF for Air conditioner ERP

Capacity control (indicate one of three options)			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 —			Average (mandatory)		—		
Heating		—		Warmer (if designated)			
	<b>I</b>			Colder (if designated)		—	
ltem	symbol	value	unit	item	symbol	value	unit
Fixed	—		Sound power level (indoor/outdoor)	level (indoor/ outdoor) Lwa	_	dB(A)	
staged	—		Global warming potential	GWP	_	kgCO 2 eq.	
variable	_		Rated air flow (indoor/outdoor)	-	-	m3/h	
Contact details — for obtaining more information							
(*) For staged capacity units, two values divided by a slash ('/') will be declared in each box in the section 'Declared capacity of the unit' and 'declared EER/COP' of the unit. (**) 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.							
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'.							

Table 2: Information requirem conditioners	Р					
Information to identify the model(s) to which the information relates to [fill in as necessary] :						
Description	Symbol	Rated value	Measured Value	Unit		
Capacity for cooling	Pfor cooling	2.637	2.645	kW		
Capacity for heating	<i>P</i> for heating	2.051	2.058	kW		
Power input for cooling	Peer	1.003	1.002	kW		
Power input for heating	Рсор	0.834	0.832	kW		
Energy efficiency ratio	EERd	2.63	2.64	_		
Coefficient of performance	COPd	2.46	2.47	_		
Information to identify the mode	(s) to which the	information relates to	[fill in as necessary	]:		
Description	Symbol	Rated value	Measured Value	Unit		
Power consumption in off mode	Poff	-		W		
Power consumption in standby mode	Psb	0.50	0.43	W		
Electricity consumption of single/double duct appliances (indicate for cooling and heating separately)	DD: Qod SD: Qsd	SD: 1.002 for cooling SD: 0.832 for heating		DD: kWh/a SD: kWh/h		
Sound power level	Lwa	65	63.5	dB(A)		
Global warming potential	GWP	3	•	kgCO 2 eq.		
Contact details for obtaining more information						

Description for Cooling ca	Rating condition	Measured	
Test Condition	Outdoor heat exchanger Inlet dry bulb temperature (°C)/Inlet wet bulb temperature(°C)	35/24	35/24
	Indoor heat exchanger Inlet dry bulb temperature (°C)/Inlet wet bulb temperature(°C)	35/24	35/24
	Voltage (V)	220-240	230.0
	Frequency(Hz)	50	50.0
Description for Heating ca	Rating condition	Measured	
Test Condition	Outdoor heat exchanger Inlet dry bulb temperature (°C)/Inlet wet bulb temperature(°C)	20/12	20/12
	Indoor heat exchanger Inlet dry bulb temperature (°C)/Inlet wet bulb temperature(°C)	20/12	20/12
	Voltage (V)	220-240	230.0
	Frequency(Hz)	50	50.0

Sound power level (t	Sound power level (tested according to EN 12102: 2017)	
Sound power level (dB	3(A))	63.5

## Summary table:

Item	Limit	Rated value	Tested value
EER	≥2.34	2.63	2.64
COP	≥1.84	2.46	2.47
Power consumption in off mode (W)	N/A	N/A	N/A
Power consumption in standby mode (W)	≤0.50	0.50	0.43
Sound power level (indoor) dB(A)	≤65	65	63.5
Sound power level (outdoor) dB(A)	N/A	N/A	N/A

## List of test equipment used:

Measurement / testing	Testing / measuring equipment / material used	Range used/ accuracy	Calibration date until
Cooling/Heating capacity test			2021-04-11
Electric power consumption of standby mode	Air ehthalpy test room		2021-04-11

## Photos:

Picture 1





--End of report--