

	Air Conditioner ERP Test Report
Report Number	4925118.50
Tested by (name + signature)	4925118.50 Linda Li
Approved by (name + signature):	Jacky Zhang Taday Thomas
Date of issue:	
Total number of pages	20 Pages
	DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch
Address:	Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China
Applicant's name	TCL Air conditioner (Zhong Shan) Co.,Ltd.
Address:	No.59.Nantou Road West, Nantou Town Zhongshan City, Guangdong P.R. China
Test specification:	
Standard:	EN 14511-1:2022, EN 14511-2:2022, EN 14511-3:2022, EN 14511-4:2022, EN 14825:2022, EN 12102-1:2022
Test procedure:	(EU) No 206/2012, (EU) No 626/2011, EU 2017/254, EU 2016/2282, (EU) 2023/2048
Non-standard test method:	N/A
Test Report Form No:	EU AC 206 VERSION1.0
Test Report Form(s) Originator	DEKRA
Test item description:	Air conditioner
Trade Mark:	TCL
Manufacturer:	TCL Air Conditioner (Zhong Shan) Co., Ltd.
Factory:	TCL Air Conditioner (Zhong Shan) Co., Ltd.
Model/Type reference:	

(*=HA/IA/KA/HC/KC/HD/KD/JE/KE/LF/IF/KF/XA11/XA21/XA31/XA41/XA51/XA6 1/XA71/XA81/XA91/XAA1/XAB1/XAC1/XAD1/YA11/YA21/YA31/TP11/TP21/TP3

TAC-09CHSD/*I

Ratings 220-240 V_{\sim} ,50 Hz, see rating label

1/TP41/TP51/TP61/TPG1)

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Summary of testing:

Tests performed (Test items):

Cooling capacity

Heating capacity

Standby/off, thermostat off mode power consumption

Testing location:

TCL Air conditioner (Zhong Shan) Co.,Ltd.

No.59.Nantou Road West, Nantou Town Zhongshan City, Guangdong P.R. China

TAC-09CHSD/*I

* can be

HA/IA/KA/HC/KC/HD/KD/JE/KE/LF/IF/KF/XA11/XA21/XA31/XA41/XA51/XA61/XA71/XA81/XA91/XAA1/X AB1/XAC1/XAD1/YA11/YA21/YA31/TP11/TP21/TP31/TP41/TP51/TP61/TPG1 means different appearance and colour.

This report is based on the original report No. 4382253.52,they are same except the version number of standard. After reviewed, there's no test should be added.

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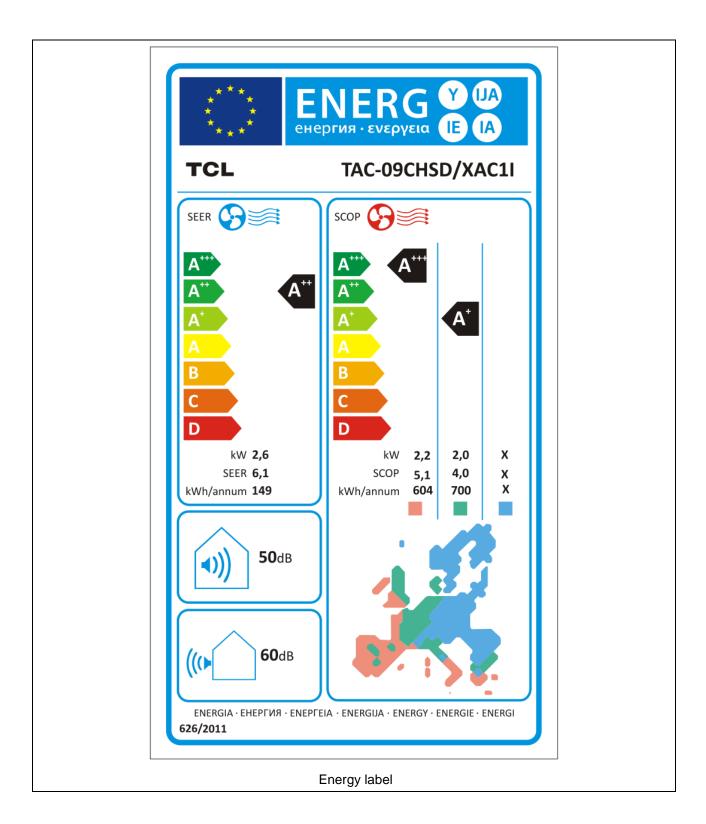
Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

SPLIT T	YPE AIR IONER	₹ (€	· <u>/ </u>			
		-09CHSD/X				
Model	Indoor	TAC-09CHS				
	Outdoor	TAC-09CH	SD/XAC1I			
		Cooling	Heating			
Capacity		2600W (940~3300)	2610W (940~3360)			
Current		4.0A (1.2~8.0)	3.8A (1.2~9.0)			
Rated Co		8.0A	9.0A			
Power In	put	825W (240~1380)	767W (240~1552			
Rated Po	ower Input 60335)	1380W	1552W			
Indoor Ai	r Volume	420m³h	420m³h			
Maximu	m Allowah	le Pressure	3.7MPa			
		Discharge	3.7MPa			
Max.Pre	ssure	Suction	1.2MPa			
Sound F	ower	Indoor	50dB(A)			
Souria i	OWEI	Outdoor	60dB(A)			
Weight		Indoor	7.5kg			
		Outdoor	22kg			
Rated V			220-240V~			
	requency		50Hz			
	nt/Charge/G	SWP R3	2/0.490kg/675			
CO ₂ equivalent 0.331 tonnes						
Contains fluorinated greenhouse gases						
Outdoor	Unit Water	r Proof Protec	ction IPX4			

Rating label

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Test item particulars	
Classification of installation and use:	Fixed appliance
Supply Connection:	Non-detachable power supply cord with plug

Possible test case verdicts: - test case does not apply to the test object......: N/A - test object does meet the requirement: P (Pass) - test object does not meet the requirement: F (Fail) Testing.......: Date of receipt of test item......: 2024-07-15 Date (s) of performance of tests.....: 2024-07-15 to 2024-08-19

General remarks:

The test results presented in this report relate only to the object tested.

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"(see Enclosure #)" refers to additional information appended to the report.

Throughout this report, a dot is used as the decimal separator.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.

The test results presented in this report relate only to the object tested.

The information provided by the customer in this report may affect the validity of the results, the test lab is not responsible for it.

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General product information:	
Model number of Unit Under Test	TAC-09CHSD/XAC1I
Type of System	Split type air conditioner
Air-conditioner Type	Cooling and heating
Power Supply	Single Phase
Refrigerant	R32
Unit Mounting (applicable to non ducted indoor units only)	Wall mounted
Heat Source (Heating Mode)	Air
Heat Sink (Cooling Mode)	Air-cooled
Does this air conditioner have a variable output compressor?	Yes
Type of compressor	inverter
Maximum continuous frequency for cooling (applicable to inverter driven compressor only) (Hz)	65
Maximum continuous frequency for heating (applicable to inverter driven compressor only) (Hz)	91

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

Test and	verification results		
Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
2a)			N/A
	From 1 January 2013: Single duct and double duct air conditioners shall correspond to requirements as indicated in Tables 1, 2 and 3		
Table 1	Requirements for minimum energy efficiency		N/A
Table 2	Off mode: Power consumption of equipment in any off-mode condition shall not exceed 1,00 W		N/A
	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.		N/A
			N/A
	Standby mode: 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.		N/A
Table 3	Indoor sound power level no more than 65 dB(A)		N/A
2b)	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		N/A
Table 4	Requirements for minimum energy efficiency		Р
Table 5	Requirements for maximum sound power level		Р
2c)	From 1 January 2014, air conditioners shall correspond to requirements as indicated in the table 6		Р
2d)	From 1 January 2014, single duct and double duct air conditioners and comfort fans shall correspond to requirements as indicated in Table 7		N/A
Table 7	Off mode: Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.		N/A

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Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
	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.		N/A
	Standby mode: 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.		N/A
	Availability of standby and/or off modeEquipment 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.		N/A
	Power management When equipment is not providing the main function, or when other energy- 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.		N/A

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Information requ	irements fo	or air conditio	oners, exc	ept double duct an	d single duc	t air conditie	oners
Functi	ion (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)		Υ	
heating		Υ		Warmer (if designated)		Υ	
				Colder (if designated)		N	
Item	symbol value unit			Item	symbol	value	unit
	Design lo	ad	•	Se	asonal efficie	ency	
cooling	Pdesignc	2.6	kW	cooling	SEER	6.1	_
heating/Average	Pdesignh	2.0	kW	heating/Average	SCOP/A	4.0	_
heating/Warmer	Pdesignh	2.2	kW	heating/Warmer	SCOP/W	5.1	_
heating/Colder	Pdesignh	-	kW	heating/Colder	SCOP/C	-	_
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj			
Tj = 35 °C	Pdc	2.60	kW	Tj = 35 °C	EERd	3.04	
Tj = 30 °C	Pdc	1.94	kW	Tj = 30 °C	EERd	5.22	_
Tj = 25 °C	Pdc	1.24	kW	Tj = 25 °C	EERd	8.19	_
Tj = 20 °C	Pdc	0.72	kW	Tj = 20 °C	EERd	10.53	
Declared capacit at indoor te		0°C and outdo		Declared coefficient of performance (*)/Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	1.77	kW	Tj = − 7 °C	COPd	2.66	_
Tj = 2 °C	Pdh	1.16	kW	Tj = 2 °C	COPd	4.13	_
Tj = 7 °C	Pdh	0.76	kW	Tj = 7 °C	COPd	4.80	_
Tj = 12 °C	Pdh	0.82	kW	Tj = 12 °C	COPd	6.22	_
Tj = bivalent temperature,- 7 °C	Pdh	1.77	kW	Tj = bivalent temperature	COPd	2.66	_
Tj = operating limit, -15°C	Pdh	1.99	kW	Tj = operating limit	COPd	2.51	_
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				
Tj = 2 °C	Pdh	2.20	kW	Tj = 2 °C	COPd	2.82	_
Tj = 7 °C	Pdh	1.55	kW	Tj = 7 °C	COPd	5.29	
Tj = 12 °C	Pdh	0.77	kW	Tj = 12 °C	COPd	5.94	
Tj = bivalent temperature	Pdh	2.20	kW	Tj = bivalent temperature	COPd	2.82	

Tj = operating limit	Pdh	2.20	EN 14511: 2013+ EN 14825: 2016	Tj = operating limit	COPd	2.82	_
Declared capacity indoor temperatu				Declared coefficient of performance (*)/Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	N/A	kW	Tj = − 7 °C	COPd	N/A	_
Tj = 2 °C	Pdh	N/A	kW	Tj = 2 °C	COPd	N/A	_
Tj = 7 °C	Pdh	N/A	kW	Tj = 7 °C	COPd	N/A	_
Tj = 12 °C	Pdh	N/A	kW	Tj = 12 °C	COPd	N/A	_
Tj = bivalent temperature	Pdh	N/A	kW	Tj = bivalent temperature	COPd	N/A	_
Tj = operating limit	Pdh	N/A	kW	Tj = operating limit	COPd	N/A	_
Tj = − 15 °C	Pdh	N/A	kW	Tj = – 15 °C	COPd	N/A	_
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	°C	heating/Average	Tol	-15	°C
heating/Warmer	Tbiv	2	°C	heating/Warmer	Tol	2	°C
heating/Colder	Tbiv	N/A	°C	heating/Colder	Tol	N/A	°C
Сус	ling interval	capacity		Cycling interval efficiency			
for cooling	Pcycc	N/A	kW	for cooling	EERcyc	N/A	_
for heating	Pcych	N/A	kW	for heating	COPcyc	N/A	_
Degradation co- efficient cooling (**)	Cdc	0.25	_	Degradation co- efficient heating (**)	Cdh	0.25	_
Electric power i	nput in pow 'active mo		er than	Annual electricity consumption			
off mode	POFF	_	kW	cooling	QCE	149	kWh/a
standby mode	PSB	0.005	kW	heating/Average	QHE	700	kWh/a
thermostat-off mode	РТО	0.020	kW	heating/Warmer	QHE	604	kWh/a
crankcase heater mode	PCK		kW	heating/Colder	QHE	_	kWh/a
Capacity contro	Capacity control (indicate one of three options)				Other items	3	
fixed	N		Sound power level (indoor/outdoor)	LWA	50/60	dB(A)	
staged		N		Global warming potential	GWP	675	kgCO ₂ eq.
variable		Υ		Rated air flow (indoor/outdoor)	_	550/170 0	m³/h

Information to identify the model(s) t		elates to	
[fill in as ne	cessary]		
Description	Symbol	Value	Unit
Rated output power for cooling	P _{rated} for cooling	N/A	kW
Rated output power for heating	P _{rated} for heating	N/A	kW
Rated power input for cooling	P _{EER}	N/A	kW
Rated power input for heating	P _{COP}	N/A	kW
Rated Energy efficiency ratio	EER _{rated}	N/A	_
Rated Coefficient of performance	COP _{rated}	N/A	_
Thermostat-off mode power consumption	P _{TO}	N/A	W
Standby mode power consumption	P _{SB}	N/A	W
Off mode power consumption	P _{OFF}	N/A	W
Seasonal electricity consumption for double ducts (DD): hourly electricity consumption for single ducts (SD): hourly electricity consumption	Q	N/A	kWh/60min.
Sound power level (indoor only)	Lwa	N/A	dB(A)
Global warming potential of refrigerant	GWP	N/A	kgCO2eq.

Table for cooling test data

lable for cooling test da	ata				
General test	unit	A35/A27(100%)	A30/A27(74%)	A25/A27(47%)	A20/A27(21%)
conditions/part load					
-	-	Α	В	С	D
Barometric	kPa	100.99	100.84	101.46	100.90
Voltage	V	230.6	229.6	230.3	229.69
Current input	Α	3.78	2.53	1.06	0.40
Power input	kW	0.856	0.372	0.151	0.068
Test conditions indoor	unit				
Air inlet temperature, DB/WB	$^{\circ}$	27.08/19.07	26.99/18.97	26.95/19.03	26.96/19.05
Air outlet	$^{\circ}$ C	N/A	N/A	N/A	N/A
temperature, DB/WB					
Test conditions outdoo	r unit				
Air inlet temperature, DB/WB	\mathbb{C}	35.05/23.95	29.94/24.94	24.95/15.03	19.99/13.98
Total cooling	kW	2.603	1.943	1.237	0.716
capacity					
Power input	kW	0.856	0.372	0.151	0.068
Energy efficiency ratio	-	3.04	5.22	8.19	10.53
Compressor frequency	Hz	65	36	19	10

Table for heating test data (Average)

	ting te	est data (Averag					
General	uni	A-10/A20	A-7/A20	A-7/A20	A2/A20	A7/A20	A12/A20
test	t	(100%)	(88%)	(88%)	(54%)	(35%)	(15%)
conditions/							
part load							
-	-	E	F	Α	В	С	D
Barometric	kP	101.68	101.65	101.65	101.657	100.93	102.14
	а						
Voltage	V	230.25	230.45	230.45	230.20	230.01	229.82
Current	Α	3.50	2.92	2.92	1.84	1.13	0.92
input							
Power	k	0.796	0.667	0.667	0.280	0.159	0.131
input	W						
Test condition	ons in	door unit	•	•	•	•	•
Air inlet	$^{\circ}\!\mathbb{C}$	20.00/15.01	20.00/15.00	20.00/15.00	20.01/15.00	20.04/14.99	19.96/
temperatur							15.01
e, DB/WB							
Air outlet	$^{\circ}$ C	32.67/17.25	32.45/16.58	32.45/16.58	27.31/15.28	N/A	N/A
temperatur							
e, DB/WB							
Test condition			1	т	1	1	T
Air inlet	$^{\circ}\mathbb{C}$	-10.00/	-7.00/-8.01	-7.00/-8.01	2.00/1.00	7.00/6.01	12.04/
temperatur		-10.99					11.01
e, DB/WB							
Summary	-	A-10/A20	A-7/A20	A-7/A20	A2/A20	A7/A20	A12/A20
of the test		(100%)	(88%)	(88%)	(54%)	(35%)	(15%)
results							
Total	k	1.998	1.774	1.774	1.156	0.763	0.815
heating	W						
capacity							
Power	k	0.796	0.667	0.667	0.280	0.159	0.131
input	W						
Co-	-	2.51	2.66	2.66	4.13	4.80	6.22
efficiency							
of							
performan							
ce							
Compress	Hz	91	72	72	31	20	16
or	1 12		12	' -		20	'
frequency							
nequency		1			1		

Table for heatin	g test da	ita (Warmer)					
General test conditions/part	unit				A2/A20 (100%)	A7/A20 (64%)	A12/A20 (29%)
load		<u> </u>					_
-	-	E	F	Α	В	С	D
Barometric	kPa	101.55	101.55		101.55	101.35	102.05
Voltage	V	230.48	230.48		230.48	229.52	229.87
Current input	Α	3.43	3.43		3.43	2.00	0.91
Power input	kW	0.780	0.780		0.780	0.293	0.129
Test conditions	indoor u	nit					
Air inlet	$^{\circ}$ C	19.99/14.99	19.99/14.99		19.99/14.99	20.02/14.99	20.04/
temperature, DB/WB							15.03
Air outlet	$^{\circ}\!\mathbb{C}$	34.11/19.71	34.11/19.71		34.11/19.71	N/A	N/A
temperature,							
DB/WB							
Test conditions	outdoor	unit					
Air inlet	$^{\circ}$	2.00/1.00	2.00/1.00		2.00/1.00	7.01/6.01	12.01/
temperature,							10.97
DB/WB							
Summary of	-	A2/A20	A2/A20		A2/A20	A7/A20	A12/A20
the test results		(100%)	(100%)		(100%)	(64%)	(29%)
Total heating capacity	kW	2.201	2.201		2.201	1.549	0.766
. ,							
Power input	kW	0.780	0.780		0.780	0.293	0.129
Co-efficiency	-	2.82	2.82		2.82	5.29	5.94
of performance							
Compressor	Hz	72	72		72	36	16
frequency							

SEER calculation:

	Outdoor air	measured Cooling Capacity	Input Power	EER _{DC/meas}	Cd	EER _{PL}
	°C	kW	kW			
Α	35	2.603	0.856	3.04	0.25	3.04
В	30	1.943	0.372	5.22	0.25	5.22
С	25	1.237	0.151	8.19	0.25	8.19
D	20	0.716	0.068	10.53	0.25	10.53

			Cooling	Bin	Measured			Correcte			hj x
		Part load	demand	hours	Cooling	Capacity	Measured	d	EER(Tj)		Pc(Tj) /
	Tj	ratio	Pc(Tj)	hj	capacity	ratio	EER	EERPL	Cd=0,25	hj x Pc(Tj)	EERbin(Tj
	17	5.3%	0.137	205					9.91	28	3
	18	10.5%	0.274	227					9.91	62	6
	19	15.8%	0.411	225					9.91	92	9
D	20	21.1%	0.548	225	0.716	0.765	10.53	9.91	9.91	123	12
	21	26.3%	0.685	216					9.57	148	15
	22	31.6%	0.822	215					9.22	177	19
	23	36.8%	0.959	218					8.88	209	24
	24	42.1%	1.096	197					8.54	216	25
C	25	47.4%	1.233	178	1.237	0.997	8.19	8.19	8.19	219	27
	26	52.6%	1.370	158					7.60	216	28
	27	57.9%	1.507	137					7.00	206	29
	28	63.2%	1.644	109					6.41	179	28
	29	68.4%	1.781	88					5.82	157	27
В	30	73.7%	1.918	63	1.943	0.987	5.22	5.22	5.22	121	23
	31	78.9%	2.055	39					4.79	80	17
	32	84.2%	2.192	31					4.35	68	16
	33	89.5%	2.329	24					3.91	56	14
	34	94.7%	2.466	17					3.48	42	12
Α	35	100.0%	2.603	13	2.603	1.000	3.04	3.04	3.04	34	11
	36	105.3%	2.740	9					3.04	25	8
	37	110.5%	2.877	4					3.04	12	4
	38	115.8%	3.014	3					3.04	9	3
	39	121.1%	3.151	1					3.04	3	1
	40	126.3%	3.288	0					3.04	0	0
										2483	363
										SEERon	6.84
										SEER	6.14

Equiv. Hce	350	h				Q _c /SEER _{on}	133.1387	7
H _{TO}	221	h	P _{TO}	0.02	kW	HTO*PTO	4.42	kwh
H _{SB}	2142	h	P_{SB}	0.005	kW	HSB*PSB	10.71	kwh
H _{CK}	2672	h	P _{CK}	0	kW	HCK*PCK	0	kwh
H _{OFF}	0	h	P_{OFF}	0	kW	HOFF*POFF	0	kwh
						Q _{ce}	148.268	7
Pdesigno	2.603	kW						
Q_c	911.05	kWh						

SCOP calculation (Average):

	oaloalatioi	i (Average).				
	Outdoor	measure	Input	COP _{DC/meas}	Cd	COP _{PL}
	air	d Cooling	Power			(COP bin
		Capacity				(T j) >
	°C	kW	kW			
Α	-7	1.774	0.667	2.66	0.25	2.66
В	2	1.156	0.280	4.13	0.25	4.13
С	7	0.763	0.159	4.80	0.25	4.80
D	12	0.815	0.131	6.22	0.25	6.22
Е	-10	1.998	0.796	2.51	0.25	2.51
F	-7	1.774	0.667	2.66	0.25	2.66

											nj		hj*{Ph(Tj
				Heat load							h(Tj)- COP)-
		Heating	Bin	covered by							(Tj)}/ (includin	,	elbu(Tj)}
	Part load	demand	hours	the heat		Capacity					nn(Tj) backup	_	
T		Ph(Tj)	hj	pump	elbu(Tj)	ratio	COPPL	. COPbin(Tj)	hix		u(Tj)] heater)	elbu(Tj)}	Tj)
-1		2.005	1 1	1.998	0.007	1.00	2.51	2.51			1 2.50	2	0.80
		1,928	25	1,923	0.005	1.00		2.56			9 2.55	48	18.78
-	92.3%	1.851	23	1.849	0.002	1.00		2.61		13 1	6 2.60	43	16.29
Α -	7 88.5%	1.774	24	1.774	0.000	1.00	2.66	2.66		13 1	6 2.66	43	16.01
	6 84.6%	1.697	27	1.697	0.000	1.00		2.82		16 1	6 2.82	46	16.23
-!	5 80.8%	1.620	68	1.620	0.000	1.00		2.99	1	10 3	7 2.99	110	36.89
	4 76.9%	1.543	91	1.543	0.000	1.00		3.15	1	40 4	15 3.15	140	44.57
- <	3 73.1%	1.465	89	1.465	0.000	1.00		3.31	1	30 3	9 3.31	130	39.37
-:	2 69.2%	1.388	165	1.388	0.000	1.00		3.48	2	29 6	6 3.48	229	65.91
-	1 65.4%	1.311	173	1.311	0.000	1.00		3.64	2	27 6	3.64	227	62.34
	61.5%	1.234	240	1.234	0.000	1.00		3.80	2	96 7	78 3.80	296	77.90
1	57.7%	1.157	280	1.157	0.000	1.00		3.97	3	24 8	3.97	324	81.69
B 2	53.8%	1.080	320	1.080	0.000	1.00	4.13	4.13	3	46 8	4.13	346	83.70
3	50.0%	1.003	357	1.003	0.000	1.00		4.26	3	58 8	34 4.26	358	83.98
4		0.926	356	0.926	0.000	1.00		4.40			75 4.40	330	74.94
5		0.848	303	0.848	0.000	1.00		4.53	2	57 5	7 4.53	257	56.74
6		0.771	330	0.771	0.000	1.00		4.66			55 4.66	255	54.57
C 7		0.694	326	0.694	0.000	1.00	4.80	4.80	2	26 4	4.80	226	47.16
8		0.617	348	0.617	0.000	1.00		4.89			14 4.89	215	43.91
9		0.540	335	0.540	0.000	1.00		4.98			6 4.98	181	36.31
1		0.463	315	0.463	0.000	1.00		5.07			9 5.07	146	28.74
1		0.386	215	0.386	0.000	1.00		5.16			6 5.16	83	16.06
D 1		0.309	169	0.309	0.000	1.00	5.25				0 5.25	52	9.92
1:		0.231	151	0.231	0.000	1.00		5.3460			7 5.35	35	6.54
1-		0.154	105	0.154	0.000	1.00		5.4372			3 5.44	16	2.98
1	_	0.077	74	0.077	0.000	1.00		5.5285		6	1 5.53	6	1.03
1	6 0.0%		4910										
					0.015				summation 4	142 10	124	4142	1023
									SCOF	on 4	05	SCOPnet	4.05
											03		
H _{he}	1400) h							0.7	SCOD	693.718	11.1	
Пhe	1400	, ,,							Q _h /	3COP _{on}	073./10	114	- 1
H _{TO}	179	h				P _{TO}	0.02	kW	HT	O*PTO	3.58		kwh
ш	0	L				D	0.005	kW	ше	B*PSB	0		kwh
H _{SB}	U	h				P_{SB}	0.005	KW	מח	מכירים	U		KWII
H _{CK}	179	h				Pck	0	kW	HC	K*PCK	0		kwh
H _{OFF}	0	h				Poff	0	kW	HOE	F*POFF	. 0		kwh
						- OFF		••••			_		
1										Q _{he}	697.29	314	l
Pdesignh	2.00	5	kW										l
Q _H	2807.5	478	kWh										l

SCOP calculation (Warmer):

_	00.		i (vvaiiiioi).				
		Outdoor	measure	Input	COP _{DC/meas}	Cd	COP _{PL}
		air	d Cooling	Power			(COP bin
			Capacity				(T j) >
		°C	kW	kW			
	В	2	2.201	0.780	2.82	0.25	2.82
Ī	О	7	1.549	0.293	5.29	0.25	5.29
	О	12	0.766	0.129	5.94	0.25	5.94
	Е	2	2.201	0.780	2.82	0.25	2.82
	F	2	2.201	0.780	2.82	0.25	2.82

					Heat load						hj *[{(Ph(Tj)-	COP		
			Heating	Bin	covered						elbu(Tj)}/	(including		hj*{Ph(Tj)
		Part load	demand	hours	by the		Capacity				COPbin(Tj)	backup	hj*{Ph(Tj)-	elbu(Tj)}/
	Tj	ratio	Ph(Tj)	hj	heat pump	elbu(Tj)	ratio	COPd	COPbin(Tj)	hj x Ph(Tj)	+elbu(Tj)]	heater)	elbu(Tj)}	OPbin(Tj)
В	2	100.0%	2.201	3	2.201	0.000	1.00	2.82	2.82	7	2	2.82	6.6	2.3
	3	92.9%	2.044	22	2.071	0.000	0.99		3.31	45	14	3.31	45.0	13.6
	4	85.7%	1.887	63	1.940	0.000	0.97		3.81	119	31	3.81	118.9	31.2
	5	78.6%	1.729	63	1.810	0.000	0.96		4.30	109	25	4.30	108.9	25.3
	6	71.4%	1.572	175	1.679	0.000	0.94		4.79	275	57	4.79	275.1	57.4
C	7	64.3%	1.415	162	1.549	0.000	0.91	5.29	5.29	229	43	5.29	229.2	43.4
	8	57.1%	1.258	259	1.392	0.000	0.90		5.36	326	61	5.36	325.7	60.7
	9	50.0%	1.101	360	1.236	0.000	0.89		5.44	396	73	5.44	396.2	72.8
	10	42.9%	0.943	428	1.079	0.000	0.87		5.52	404	73	5.52	403.7	73.2
	11	35.7%	0.786	430	0.923	0.000	0.85		5.60	338	60	5.60	338.0	60.4
D	12	28.6%	0.629	503	0.766	0.000	0.82	5.67	5.67	316	56	5.67	316.3	55.8
	13	21.4%	0.472	444	0.609	0.000	0.77		5.75	209	36	5.75	209.4	36.4
	14	14.3%	0.314	384	0.453	0.000	0.69		5.83	121	21	5.83	120.7	20.7
	15	7.1%	0.157	294	0.296	0.000	0.53		5.90	46	8	5.90	46.2	7.8
	16	0.0%	0.000	0	0.140	0.000	0.00		5.98	0	0			
										SCOPon	5.24		SCOPnet	5.24
										SCOP	5.11			

Equi	v. H	1400	h				Q _h /SCOP _{on}	588.03833	8
H	го	755	h	P _{TO}	0.02	kW	HTO*PTO	15.1	kwh
Н	SB	0	h	P_{SB}	0.005	kW	HSB*PSB	0	kwh
H	:K	755	h	P_{CK}	0	kW	HCK*PCK	0	kwh
H)FF	0	h	P _{OFF}	0	kW	HOFF*POFF	0	kwh
							Qhe	603.138	3
Pdes	ignh	2.201	kW						
Q	н	3081.4	kWh						

Item	Measured value	Rated value	Deviation	Verdict
SEER	6.14	6.1	0.7%	Р
SCOP average	4.03	4.0	0.8%	Р
SCOP warmer	5.11	5.1	0.2%	Р
Power consumption in off mode	N/A	N/A	N/A	N/A
Power consumption in standby mode	5.00 W	5.00 W	0%	Р

Remark:

For the original qualification test, the rating values should be equal to or more unfavorable than the tested values.

 ${\it Table~1}$ Energy efficiency classes for air conditioners, except double ducts and single ducts

Energy Efficiency Class	SEER	SCOP
A+++	SEER ≥ 8,50	SCOP ≥ 5,10
A++	6,10 ≤ SEER < 8,50	4,60 ≤ SCOP < 5,10
A+	5,60 ≤ SEER < 6,10	4,00 ≤ SCOP < 4,60
A	5,10 ≤ SEER < 5,60	3,40 ≤ SCOP < 4,00
В	4,60 ≤ SEER < 5,10	3,10 ≤ 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 ≤ SCOP < 2,50
F	2,60 ≤ SEER < 3,10	1,90 ≤ SCOP < 2,20
G	SEER < 2,60	SCOP < 1,90

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Table for sound power

indoor										
Test voltage / frequency					230 V /	50 Hz				
Air inlet temperature, DB/WB					27.0°C /	19.0°C				
Measured surface					6.28	m²				
Background Noise Level [dB]	18.0									
Microphone Position	1	2	3	4	5	6	7	8	9	10
L _{pi} [dB]	39.4	41.3	41.4	41.5	41.5	40.4	41.2	40.2	41.3	41.3
Lpmc / Averaged Sound Presure Level [dB (A)]					41.0	00				
LW / Sound Power Level [dB (A)]					48.9	8				
Rated sound Power Level [dB (A)]	50									
Verdict					Р					

outdoor								
Test voltage / frequency			230 V / 50 Hz					
Air inlet temperature, DB/WB		35.0 °C/24.0 °C						
Measured surface	12.32 m ²							
Background Noise Level [dB]	18.0							
Microphone Position	1	2	3	4	5			
L _{pi} [dB]	47.1	47.3	48.1	47.7	46.3			
Lpmc / Averaged Sound Presure Level [dB (A)]			47.34					
LW / Sound Power Level [dB (A)]			58.25					
Rated sound Power Level [dB (A)]	60							
Verdict			Р					





Indoor unit



Outdoor unit



End of report