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

TEST REPORT
COMMISSION REGULATION (EU) No 206/2012
of 6 March 2012
implementing Directive 2009/125/EC 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 Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of air conditioners

Report Reference No..... :	GZEE241000425931
Tested by (name + signature).. ...:	Project engineer/ Vince Lin
Approved by (name + signature) :	Reviewer/ David Lei
Date of issue.....:	2025-01-03
Total number of pages	30 pages
Testing Laboratory.....:	SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch
Address .....:	Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China
Applicant's name .....:	TCL Air Conditioner (Zhong Shan) Co., Ltd.
Address .....:	59 Nantou Road West, Nantou, Zhongshan, Guangdong, China
Test specification:	
Standard.....:	COMMISSION REGULATION (EU) No 206/2012, (EU) No 626/2011,(EU)2016/2282, (EU)2017/254, (EU)2023/2048
Test procedure.....:	STR: EU Directive 2009/125/EC
Non-standard test method……..:	None
Test Report Form No.....:	206/2012/626/2011_03
Test Report Form(s) Originator.....:	SGS-CSTC
Master TRF.....:	2015-06-01

Test item description .....:	**Split-type air-conditioner**
Trade Mark .....:	**TCL**
Manufacturer/Factory .....:	Same as applicant
Model/Type reference .....:	Model 1: TAC-12CHSD(043977)/*I Indoor unit: TAC-12CHSD(011594)/*I Outdoor unit: TAC-12CHSD(011100)/DVO (*=Z, HA, IA, KA, HC, JC, KC, HD, KD, JE, KE, WE, LF, IF, KF, VA, VB, VC, VD, VE, VF, XA11, XA21, XA31, XA41, XA51, XA61, XA71, XA72, XA81, XA82, XA91, XAA1, XAB1, XAC1, XAD1, XAE1, YA11, YA21, YA31, TP11, TP21, TP31, TP41, TP51, TP61, TP71,TP72, TP81, TP91, TPA1,TPB1, TPG11, TPH21, TPG21, TPG31, UA11, UA12, UG11, UG21, UG31, UA21, TPH11, TPH21, DWA, LGA) Model 2: S12P9S1 Indoor unit:SN12P9S1, Outdoor unit:ST12P3 Model 3: TAC-12CHSD/UG11V3A Indoor unit: TAC-12CHSD/UG11V3A Outdoor unit: TAC-12CHSD/UG11V3A
Ratings .....:	See the rating for details

Summary of testing:

Tests performed (name of test and test clause):

COMMISSION REGULATION (EU) No 206/2012
COMMISSION REGULATION (EU) No 626/2011
(EU)2016/2282
(EU)2017/254
(EU)2023/2048
The length of refrigerant lines between indoor unit and outdoor unit was 5m.

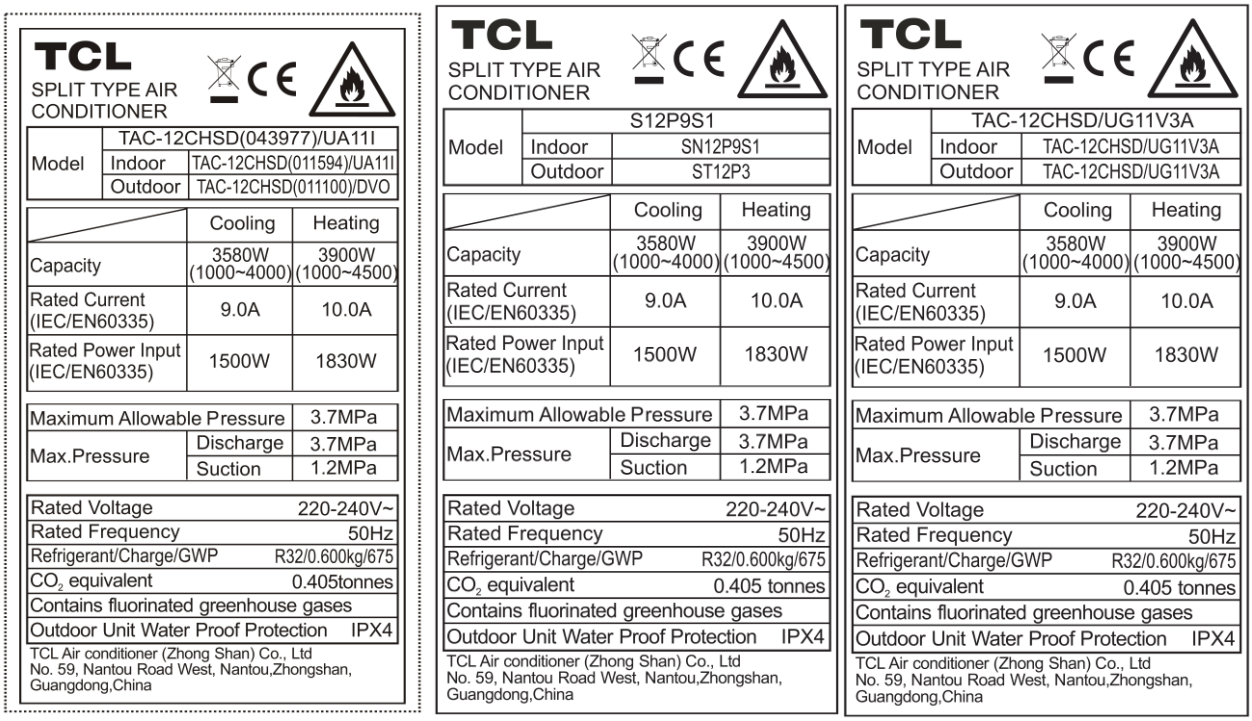
The tests were performed on model TAC-12CHSD(043977)/UA11I.
And the results listed as below:

Items	Declared values	Measured values
SEER	8,5	8,522
SCOP (Average)	4,7	4,712
SCOP (Warmer)	5,9	5,919
SCOP (Colder)	3,7	3,705
Cooling, energy efficiency class	A+++	A+++
Heating (Average) , energy efficiency class	A++	A++
Heating (Warmer) , energy efficiency class	A+++	A+++
Heating (Colder) , energy efficiency class	A	A

Testing location:

See page 1

Copy of marking plate:



TCL
SPLIT TYPE AIR CONDITIONER

Model		
	Indoor	TAC-12CHSD(043977)/UA11I
	Outdoor	TAC-12CHSD(011594)/UA11I
		TAC-12CHSD(011100)/DVO

	Cooling	Heating
Capacity	3580W (1000~4000)	3900W (1000~4500)
Rated Current (IEC/EN60335)	9.0A	10.0A
Rated Power Input (IEC/EN60335)	1500W	1830W

Maximum Allowable Pressure		3.7MPa
Max.Pressure	Discharge	3.7MPa
	Suction	1.2MPa

Rated Voltage	220-240V~
Rated Frequency	50Hz
Refrigerant/Charge/GWP	R32/0.600kg/675
CO_2 equivalent	0.405tonnes
Contains fluorinated greenhouse gases	
Outdoor Unit Water Proof Protection	IPX4

TCL Air conditioner (Zhong Shan) Co., Ltd
No. 59, Nantou Road West, Nantou,Zhongshan, Guangdong,China

TCL
SPLIT TYPE AIR CONDITIONER

Model		
		S12P9S1
	Indoor	SN12P9S1
	Outdoor	ST12P3

	Cooling	Heating
Capacity	3580W (1000~4000)	3900W (1000~4500)
Rated Current (IEC/EN60335)	9.0A	10.0A
Rated Power Input (IEC/EN60335)	1500W	1830W

Maximum Allowable Pressure		3.7MPa
Max.Pressure	Discharge	3.7MPa
	Suction	1.2MPa

Rated Voltage	220-240V~
Rated Frequency	50Hz
Refrigerant/Charge/GWP	R32/0.600kg/675
CO_2 equivalent	0.405 tonnes
Contains fluorinated greenhouse gases	
Outdoor Unit Water Proof Protection	IPX4

TCL Air conditioner (Zhong Shan) Co., Ltd
No. 59, Nantou Road West, Nantou,Zhongshan, Guangdong,China

TCL
SPLIT TYPE AIR CONDITIONER

Model		
		TAC-12CHSD/UG11V3A
	Indoor	TAC-12CHSD/UG11V3A
	Outdoor	TAC-12CHSD/UG11V3A

	Cooling	Heating
Capacity	3580W (1000~4000)	3900W (1000~4500)
Rated Current (IEC/EN60335)	9.0A	10.0A
Rated Power Input (IEC/EN60335)	1500W	1830W

Maximum Allowable Pressure		3.7MPa
Max.Pressure	Discharge	3.7MPa
	Suction	1.2MPa

Rated Voltage	220-240V~
Rated Frequency	50Hz
Refrigerant/Charge/GWP	R32/0.600kg/675
CO_2 equivalent	0.405 tonnes
Contains fluorinated greenhouse gases	
Outdoor Unit Water Proof Protection	IPX4

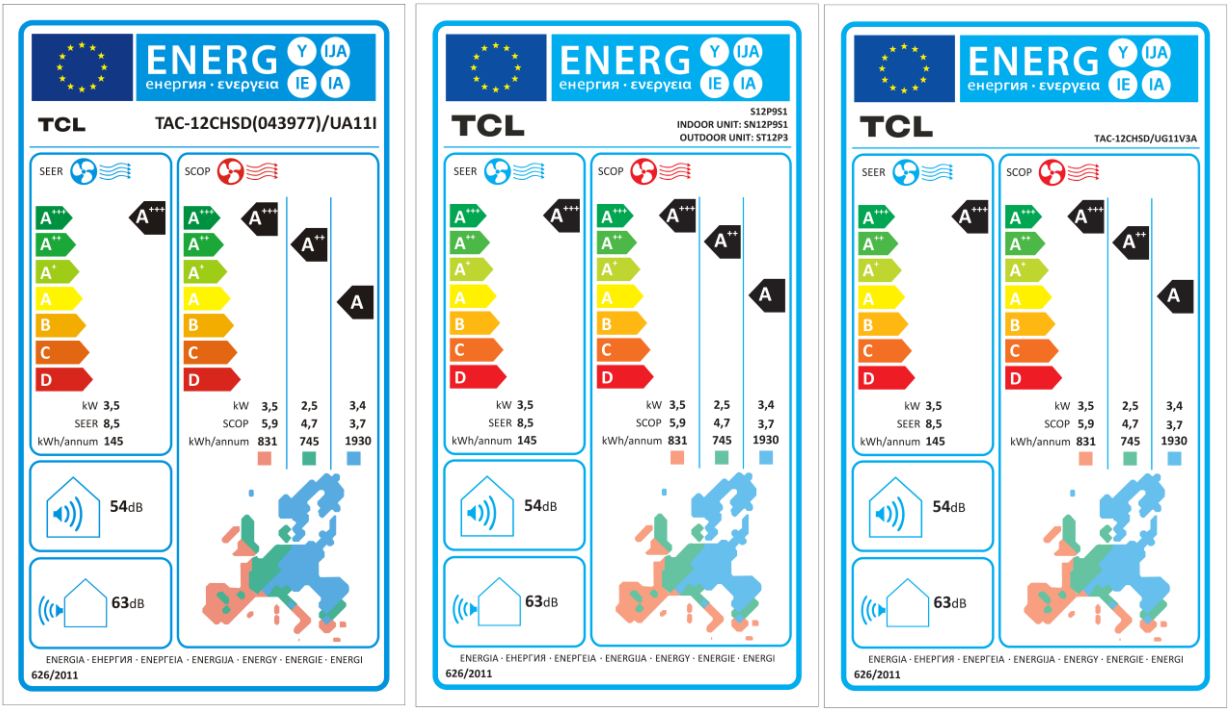
TCL Air conditioner (Zhong Shan) Co., Ltd
No. 59, Nantou Road West, Nantou,Zhongshan, Guangdong,China

Remark:

1.The copy of marking plate listed as above is just for reference.

2.The marking plates of TAC-12CHSD(043977)/*I are same as above except the model number.

Copy of energy label:



Remark:

1. The copy of energy label listed as above is just for reference.
2. The energy labels of TAC-12CHSD(043977)/*I are same as above except the model number

Test item particulars:	
Classification of installation and use ..... :	Fixed appliance
Supply Connection ..... :	Connected to fixed wiring
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 ..... :	2024-11-20
Date (s) of performance of tests ..... :	From 2024-11-20 to 2025-01-03

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.
"(see appended table)" refers to a table appended to the report.
Throughout this report a comma is used as the decimal separator.
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Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the company.
OU: outdoor unit; IU: indoor unit

General product information:

Split-type air conditioner for household use only, the refrigerant is R32.
The appliance has cooling and heating functions.
The appliance was assembled with a variable speed motor-compressor KSN98D31UEZA31 (GMCC).
For the mode series TAC-12CHSD(043977)/*I, *can be Z, HA, IA, KA, HC, JC, KC, HD, KD, JE, KE, WE, LF, IF, KF, VA, VB, VC, VD, VE, VF, XA11, XA21, XA31, XA41, XA51, XA61, XA71, XA72, XA81, XA82, XA91, XAA1, XAB1, XAC1, XAD1, XAE1, YA11, YA21, YA31, TP11, TP21, TP31, TP41, TP51, TP61, TP71,TP72, TP81, TP91, TPA1,TPB1, TPG11, TPH21, TPG21, TPG31, UA11, UA12, UG11, UG21, UG31, UA21, TPH11, TPH21, DWA, LGA to indicate the different appearance of panel.
Model S12P9S1, TAC-12CHSD/UG11V3A and model TAC-12CHSD(080002)/*I are identical except the model number.
The Tdesign for cooling mode was 35°C (OU).
For average temperature condition:
The Tdesign for heating mode was -10°C (OU), and TOL was -15°C (OU), Tbivalent was -7°C (OU).
For warmer temperature condition:
The Tdesign for heating mode was 2°C (OU), and TOL was 2°C (OU), Tbivalent was 2°C (OU).
For colder temperature condition:
The Tdesign for heating mode was -22°C (OU), and TOL was -22°C (OU), Tbivalent was -15°C (OU).

<table>
<tr><th colspan="4">COMMISSION REGULATION (EU) No 206/2012</th></tr>
<tr><td>Cl.</td><td>Requirement-Test</td><td>Result-Remark</td><td>Verdict</td></tr>
<tr><td>ANNEX I</td><td>Ecodesign requirements</td><td></td><td>—</td></tr>
<tr><td>1</td><td>DEFINITIONS APPLICABLE FOR THE PURPOSES OF THE ANNEXES</td><td></td><td>P</td></tr>
<tr><td>2</td><td>REQUIREMENTS FOR MINIMUM ENERGY EFFICIENCY, MAXIMUM POWER CONSUMPTION IN OFF-MODE AND STANDBY MODE AND FOR MAXIMUM SOUND POWER LEVEL</td><td></td><td>P</td></tr>
<tr><td></td><td>(a) From 1 January 2013, single duct and double 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.</td><td></td><td>N/A</td></tr>
<tr><td></td><td>Table 1
Requirements for minimum energy efficiency
<table>
<tr><th></th><th colspan="2">Double duct air conditioners</th><th colspan="2">Single duct air conditioners</th></tr>
<tr><th></th><th>EER_{rated}</th><th>COP_{rated}</th><th>EER_{rated}</th><th>COP_{rated}</th></tr>
<tr><td>If GWP of refrigerant > 150</td><td>2,40</td><td>2,36</td><td>2,40</td><td>1,80</td></tr>
<tr><td>If GWP of refrigerant ≤ 150</td><td>2,16</td><td>2,12</td><td>2,16</td><td>1,62</td></tr>
</table></td><td></td><td>—</td></tr>
<tr><td></td><td>Table 2
Requirements for maximum power consumption in off-mode and standby mode for single duct and double duct air conditioners and comfort fans
<table>
<tr><td>Off mode</td><td>Power consumption of equipment in any off-mode condition shall not exceed 1,00 W.</td></tr>
<tr><td>Standby mode</td><td>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.</td></tr>
<tr><td></td><td>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.</td></tr>
<tr><td>Availability of standby and/or off mode</td><td>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.</td></tr>
</table></td><td></td><td>—</td></tr>
</table>

<table>
<tr><th colspan="4">COMMISSION REGULATION (EU) No 206/2012</th></tr>
<tr><td>Cl.</td><td>Requirement-Test</td><td>Result-Remark</td><td>Verdict</td></tr>
<tr><td></td><td>
Table 3
Requirements for maximum sound power level
<table>
<tr><th>Indoor sound power level in dB(A)</th></tr>
<tr><td>65</td></tr>
</table>
</td><td></td><td>—</td></tr>
<tr><td>(b)</td><td>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.</td><td>GWP of refrigerant > 150</td><td>P</td></tr>
<tr><td></td><td>The requirements on sound power shall relate to the standard rating conditions specified in Annex II, Table 2</td><td></td><td>P</td></tr>
<tr><td></td><td>
Table 4
Requirements for minimum energy efficiency
<table>
<tr><th></th><th>SEER</th><th>SCOP
(Average heating season)</th></tr>
<tr><td>If GWP of refrigerant > 150</td><td>3,60</td><td>3,40</td></tr>
<tr><td>If GWP of refrigerant ≤ 150</td><td>3,24</td><td>3,06</td></tr>
</table>
</td><td></td><td>—</td></tr>
<tr><td></td><td>
Table 5
Requirements for maximum sound power level
<table>
<tr><th colspan="2">Rated capacity ≤ 6 kW</th><th colspan="2">6 < Rated capacity ≤12 kW</th></tr>
<tr><th>Indoor sound power level in dB(A)</th><th>Outdoor sound power level in dB(A)</th><th>Indoor sound power level in dB(A)</th><th>Outdoor sound power level in dB(A)</th></tr>
<tr><td>60</td><td>65</td><td>65</td><td>70</td></tr>
</table>
</td><td></td><td>—</td></tr>
<tr><td>(c)</td><td>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. 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.</td><td>GWP > 150</td><td>P</td></tr>
</table>

COMMISSION REGULATION (EU) No 206/2012			
Cl.	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	
	SEER	SCOP (heating season: Average)	EER_{rated}	COP_{rated}	EER_{rated}	COP_{rated}
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 2014, single duct and double duct air conditioners and comfort fans shall correspond to requirements as indicated in Table 7 below, calculated in accordance with Annex II.		N/A

			—

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.
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.

COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict
	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.		—
3.	PRODUCT INFORMATION REQUIREMENTS		P
	(a) From 1 January 2013, as regards air conditioners and comfort fans, the information set out in points below and calculated in accordance with Annex II shall be provided on:		P
	(i) the technical documentation of the product;		P
	(ii) free access websites of manufacturers of air conditioners and comfort fans;		—
	(b) The manufacturer of air conditioners and 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.		P
	(c) Information requirements for air conditioners, except double duct and single duct air conditioners.	See attached table 1	P
	(d) Information requirements for single duct and 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.		N/A
	(e) Information requirements for comfort fans. Manufacturer shall provide information as detailed in the table 3		N/A
ANNEX II	Measurements and calculations		—

COMMISSION REGULATION (EU) No 206/2012			
Cl.	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 ***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 fulfill all of the following technical parameters.	EN 14825: 2022; EN 50564: 2011 EN14511-2: 2022; EN14511-3: 2022; EN 12102-1: 2022 used	P
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:		P
	(a) European cooling and heating season(s), as defined in Table 1 below;		P
	(b) reference design conditions, as defined in Table 3 below;		P
	(c) electric energy consumption for all relevant modes of operation, using time periods as defined in Table 4 below;		P
	(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;		P
	(e) corrections on the seasonal coefficients of performance in conditions where the heating load can not be met by the heating capacity;		P
	(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).		P
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.		N/A
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.		P

COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict
6	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 unit.		N/A
			—

Table 1

Cooling and heating season bins (j = bin index, Tj = outdoor temperature, hj = hours per annum per bin) where 'db' = dry bulb temperature

COOLING SEASON			HEATING SEASON				
j #	Tj °C db	hj h/annum	j #	Tj °C db	hj h/annum		
					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	215	13	– 18	0	0	19
7	23	218	14	– 17	0	0	26
8	24	197	15	– 16	0	0	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	– 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	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	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	10	315	428	243
			42	11	215	430	191
			43	12	169	503	146
			44	13	151	444	150
			45	14	105	384	97
			46	15	74	294	61
	Total h.	2 602		Total h.	4 910	3 590	6 446

COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict

Table 2

Standard rating conditions, temperatures in 'dry bulb' air temperature

('wet bulb' indicated in brackets)

Appliance	Function	Indoor air temperature (°C)	Outdoor air temperature (°C)
air conditioners, excluding single duct air conditioners	cooling	27 (19)	35 (24)
	heating	20 (max. 15)	7(6)
single duct air conditioner	cooling	35 (24)	35 (24) (*)
	heating	20 (12)	20 (12) (*)

(*) In case of single duct air conditioners the condenser (evaporator) when cooling (heating) is not supplied with outdoor air, but indoor air.

—

Table 3

Reference design conditions, temperatures in 'dry bulb' air temperature

('wet bulb' indicated in brackets)

Function/season	Indoor air temperature (°C)	Outdoor air temperature (°C)	Bivalent temperature (°C)	Operating limit temperature (°C)
	Tin	Tdesignc/Tdesignh	Tbiv	Tol
cooling	27 (19)	Tdesignc = 35 (24)	n.a.	n.a.
heating/Average	20 (15)	Tdesignh = – 10 (– 11)	max. 2	max. – 7
heating/Warmer		Tdesignh = 2 (1)	max. 7	max. 2
heating/Colder		Tdesignh = – 22 (– 23)	max. – 7	max. – 15

—

Table 4

Operational hours per type of appliance per functional mode to be used for calculation of electricity consumption

Type of appliance/functionality (if applicable)		Unit	Heating season	On mode	Thermostat-off mode	Standby mode	Off mode	Crankcase heater mode
				cooling: H_{CE} heating: H_{HE}	H_{TO}	H_{SB}	H_{OFF}	H_{CK}
Air conditioners, except single and double duct air conditioner								
Cooling mode, if appliance offers cooling only		h/annum		350	221	2 142	5 088	7 760
Cooling and heating modes, if appliance offers both modes	Cooling mode	h/annum		350	221	2 142	0	2 672
	Heating mode	h/annum	Average	1 400	179	0	0	179
			Warmer	1 400	755	0	0	755
			Colder	2 100	131	0	0	131

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COMMISSION REGULATION (EU) No 206/2012			
Cl.	Requirement-Test	Result-Remark	Verdict
			—

Type of appliance/functionality (if applicable)	Unit	Heating season	On mode	Thermostat-off mode	Standby mode	Off mode	Crankcase heater mode
			cooling: H_{CE} heating: H_{HE}	H_{TO}	H_{SB}	H_{OFF}	H_{CK}
Heating mode, if appliance offers heating only	h/annum	Average	1 400	179	0	3 672	3 851
		Warmer	1 400	755	0	4 345	4 476
		Colder	2 100	131	0	2 189	2 944

—

Double duct air conditioner

Cooling mode, if appliance offers cooling only		h/60 min		1	n/a	n/a	n/a	n/a
Cooling and heating modes, if appliance offers both modes	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
Heating mode, if appliance offers heating only		h/60 min		1	n/a	n/a	n/a	n/a

Single duct air conditioner

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

—

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Cl.	Requirement-Test	Result-Remark	Verdict
ANNEX II	Energy efficiency classes		—
1	The energy efficiency of air conditioners shall be determined on the basis of measurements and calculations set out Annex VII.		P
	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.		P

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Cl.	Requirement-Test	Result-Remark	Verdict
2	*Table 1* **Energy efficiency classes for air conditioners, except double ducts and single ducts**		P

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
B	4,60 ≤ SEER < 5,10	3,10 ≤ SCOP < 3,40
C	4,10 ≤ SEER < 4,60	2,80 ≤ SCOP < 3,10
D	3,60 ≤ SEER < 4,10	2,50 ≤ SCOP < 2,80
E	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

N/A

Table 2

Energy efficiency classes for double ducts and single ducts

Energy Efficiency Class	Double ducts		Single ducts	
	EER_{rated}	COP_{rated}	EER_{rated}	COP_{rated}
A+++	≥ 4,10	≥ 4,60	≥ 4,10	≥ 3,60
A++	3,60 ≤ EER < 4,10	4,10 ≤ COP < 4,60	3,60 ≤ EER < 4,10	3,10 ≤ COP < 3,60
A+	3,10 ≤ EER < 3,60	3,60 ≤ COP < 4,10	3,10 ≤ EER < 3,60	2,60 ≤ COP < 3,10
A	2,60 ≤ EER < 3,10	3,10 ≤ COP < 3,60	2,60 ≤ EER < 3,10	2,30 ≤ COP < 2,60
B	2,40 ≤ EER < 2,60	2,60 ≤ COP < 3,10	2,40 ≤ EER < 2,60	2,00 ≤ COP < 2,30
C	2,10 ≤ EER < 2,40	2,40 ≤ COP < 2,60	2,10 ≤ EER < 2,40	1,80 ≤ COP < 2,00
D	1,80 ≤ EER < 2,10	2,00 ≤ COP < 2,40	1,80 ≤ EER < 2,10	1,60 ≤ COP < 1,80
E	1,60 ≤ EER < 1,80	1,80 ≤ COP < 2,00	1,60 ≤ EER < 1,80	1,40 ≤ COP < 1,60
F	1,40 ≤ EER < 1,60	1,60 ≤ COP < 1,80	1,40 ≤ EER < 1,60	1,20 ≤ 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 in the order specified below:		—
	(a) supplier's name or trade mark;		P
	(b) model identifier of the indoor air conditioner or of the indoor and outdoor elements of the air conditioner;		P

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	(c) without prejudice to any requirements under the 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;		N/A
	(d) inside and outside sound power levels at standard rating conditions, on cooling and/or heating modes;		P
	(e) the name and GWP of the refrigerant used and a standard text as follows:		P
	'Refrigerant leakage contributes to climate change. 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 CO_2, 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.'		P
2	Additionally, the following information shall be 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 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;		P
	(b) the indicative annual electricity consumption Q_{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.'		P
	(c) the design load Pdesignc in kW of the appliance in cooling mode determined in accordance with definitions and test procedures in Annex I and VII, respectively;		P
3	Additionally, the following notes define the 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 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;		P

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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 appliance is used and where it is located.'		P
	(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;		P
	(e) the declared capacity and an indication of the back up heating capacity assumed for the calculation of SCOP at reference design conditions.		P
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):		—
	(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;		N/A
	(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
	(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.'		N/A
	(d) the cooling capacity P rated in kW of the appliance determined in accordance with definitions and test procedures in Annex I and VII;		N/A
	(e) the heating capacity P rated in kW of the appliance determined in accordance with definitions and test procedures in Annex I and VII.		N/A
5	One fiche may cover a number of appliance models supplied by the same supplier.		N/A

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Cl.	Requirement-Test	Result-Remark	Verdict
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
ANNEX V	Technical documentation		—
	The technical documentation referred to in Article 3 (1)(c) shall include at least the following items:		—
	(a) the name and address of the supplier;		P
	(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;		P
	(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;		P
	(f) where appropriate the technical parameters for measurements, established in accordance with Annex VII:		P
	(i) overall dimensions;		P
	(ii) specification of the type of the air conditioner;		P
	(iii) specification whether the appliance is designed for cooling or heating only or for both;		P
	(iv) the energy efficiency class of the model as defined in Annex II;		P
	(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;		P
	(vi) The heating season for which the appliance is declared fit for purpose;		P
	(vii) Sound power levels expressed in dB(A) re1 pW, rounded to the nearest integer;		P
	(viii) the name and GWP of refrigerant used.		P
	(g) the results of calculations performed in accordance with Annex VII. Suppliers may include additional information at the end of the above list.		P

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Cl.	Requirement-Test	Result-Remark	Verdict
	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.		N/A
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 provided in the following order:		—
	(a) The energy efficiency class of the model as defined in Annex II;		P
	(b) for air conditioners other than single ducts and double ducts:		P
	(i) the seasonal energy efficiency ratio (SEER) and/or seasonal coefficient of performance (SCOP);		P
	(ii) the design load (in kW);		P
	(iii) the annual electricity consumption;		P
	(iv) the cooling and/or each heating ('Average, Colder, Warmer') season the appliance is declared fit for purpose;		P
	(c) for single duct and double duct air conditioners:		N/A
	(i) the energy efficiency ratio (EER) and/or coefficient of performance (COP);		N/A
	(ii) the rated capacity (kW);		N/A
	(iii) for double ducts, the hourly electricity consumption for cooling and/or heating;		N/A
	(iv) for single ducts, the hourly electricity consumption for cooling and/or heating;		N/A
	(d) Sound power levels expressed in dB(A) re1 pW, rounded to the nearest integer;		P
	(e) Name and GWP of refrigerant used.		P
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.		P
3	The size and font in which all the information referred in this Annex is printed or shown shall be legible.		P

Part 1: Declared values and the necessary information provided by manufacturer

Table 1: **Information requirements for air conditioners, except for double duct and single duct air conditioners.**							P
(the number of decimals in the box indicates the precision of reporting) Information to identify the model(s) to which the information relates to:							
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		Y		Warmer (if designated)		Y	
				Colder (if designated)		Y	
Item	**symbol**	**value**	**unit**	**item**	**symbol**	**value**	**unit**
Design load				**Seasonal efficiency**			
Cooling	Pdesignc	3,5	kW	Cooling	SEER	8,5	—
Heating/Average	Pdesignh	2,5	kW	Heating/Average	SCOP/A	4,7	—
Heating/Warmer	Pdesignh	3,5	kW	Heating/Warmer	SCOP/W	5,9	—
Heating/Colder	Pdesignh	3,4	kW	Heating/Colder	SCOP/C	3,7	—
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			
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		Y		Warmer (if designated)		Y	
				Colder (if designated)		Y	
Item	**symbol**	**value**	**unit**	**item**	**symbol**	**value**	**unit**
Tj = 35 °C	Pdc	3,58	kW	Tj = 35 °C	EERd	3,49	—
Tj = 30 °C	Pdc	2,48	kW	Tj = 30 °C	EERd	6,27	—
Tj = 25 °C	Pdc	1,59	kW	Tj = 25 °C	EERd	10,71	—
Tj = 20 °C	Pdc	0,83	kW	Tj = 20 °C	EERd	20,85	—
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	2,21	kW	Tj = – 7 °C	COPd	2,92	—
Tj = 2 °C	Pdh	1,40	kW	Tj = 2 °C	COPd	4,83	—
Tj = 7 °C	Pdh	0,99	kW	Tj = 7 °C	COPd	6,08	—
Tj = 12 °C	Pdh	1,11	kW	Tj = 12 °C	COPd	7,57	—

Tj = bivalent temperature	Pdh	2,21	kW	Tj = bivalent temperature	COPd	2.92	—
Tj = operating limit	Pdh	2,54	kW	Tj = operating limit	COPd	2,44	—
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	3,50	kW	Tj = 2 °C	COPd	2,96	—
Tj = 7 °C	Pdh	2,29	kW	Tj = 7 °C	COPd	5,29	—
Tj = 12 °C	Pdh	1,12	kW	Tj = 12 °C	COPd	7,67	—
Tj = bivalent temperature	Pdh	3,50	kW	Tj = bivalent temperature	COPd	2,96	—
Tj = operating limit	Pdh	3,50	kW	Tj = operating limit	COPd	2,96	—
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance (*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	**symbol**	**value**	**unit**	**item**	**symbol**	**value**	**unit**
Tj = – 7 °C	Pdh	2,21	kW	Tj = – 7 °C	COPd	2,92	—
Tj = 2 °C	Pdh	1,40	kW	Tj = 2 °C	COPd	4,86	—
Tj = 7 °C	Pdh	0,98	kW	Tj = 7 °C	COPd	6,04	—
Tj = 12 °C	Pdh	1,12	kW	Tj = 12 °C	COPd	7,57	—
Tj = bivalent temperature	Pdh	2,77	kW	Tj = bivalent temperature	COPd	2,15	—
Tj = operating limit	Pdh	2,38	kW	Tj = operating limit	COPd	1,82	—
Tj = -15 °C	Pdh	2,77	kW	Tj = -15 °C	COPd	2,15	—
Bivalent temperature				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	-15	°C	heating/Colder	Tol	-22	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	—	kW	for cooling	EERcyc	—	—
for heating	Pcych	—	kW	for heating	COPcyc	—	—
Degradation co-efficient cooling (**)	Cdc	0,25	—	Degradation co-efficient heating (**)	Cdh	0,25	—
Electric power input in power modes other than ‘active mode’				Annual electricity consumption			

off mode	P_{OFF}	—	kW	for cooling	Q_{CE}	145	kWh/a
standby mode (cooling / heating)	P_{SB}	0,004	kW	Heating/Average	Q_{HE}	745	kWh/a
thermostat-off mode (cooling / heating)	P_{TO}	0,015	kW	Heating/Warmer	Q_{HE}	831	kWh/a
crankcase heater mode	P_{CK}	0	kW	Heating/Colder	Q_{HE}	1930	kWh/a
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		Y		Average (mandatory)		Y	
Heating		Y		Warmer (if designated)		Y	
				Colder (if designated)		Y	
Item	**symbol**	**value**	**unit**	**item**	**symbol**	**value**	**unit**
Fixed		N		Sound power level (indoor/outdoor)	level (indoor / outdoor) L_{WA}	54/ 63	dB(A)
Staged		N		Global warming potential	GWP	675	kg CO_2 eq.
Variable		Y		Rated air flow (indoor/outdoor)	—	Indoor: 680/700 Outdoor: 2300	m^3/h
Contact details for obtaining more information	TCL Air Conditioner (Zhong Shan) Co., Ltd. 59 Nantou Road West, Nantou, Zhongshan, Guangdong, China						

(*) 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 requirements for single duct and double duct air conditioners			N/A
Information to identify the model(s) to which the information relates to [fill in as necessary]:			
Description	Symbol	Value	Unit
Rated capacity for cooling	*P rated* for cooling	—	kW
Rated capacity for heating	*P rated* for heating	—	kW
Rated power input for cooling	P_{EER}	—	kW
Rated power input for heating	P_{COP}	—	kW
Rated Energy efficiency ratio	*EERd*	—	—
Rated Coefficient of performance	*COPd*	—	—
Information to identify the model(s) to which the information relates to [fill in as necessary]:			
Description	Symbol	Value	Unit
Power consumption in thermostat-off mode	P_{TO}	—	W
Power consumption in standby mode	P_{SB}	—	W
Electricity consumption of single/double duct appliances (indicate for cooling and heating separately)	*DD: Q DD* *SD: Q SD*	—	DD: kWh/a SD: kWh/h
Sound power level	L_{WA}	—	dB(A)
Global warming potential	*GWP*	—	$kgCO_2$ eq.
Contact details for obtaining more information	—		

Part 2: measured values (for air conditioners, except double duct and single duct air conditioners)	**P**

Test data according to EN 14825: 2022

Test condition (Cooling function):

Voltage: 230 V / frequency: 50 Hz / harmonic distortion 0,1% .

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 °C	Indoor air dry bulb (wet bulb) temperatures °C
A	(35-16)/(Tdesignc -16)	100	35	27(19)
B	(30-16)/(Tdesignc -16)	74	30	27(19)
C	(25-16)/(Tdesignc -16)	47	25	27(19)
D	(20-16)/(Tdesignc -16)	21	20	27(19)

Test condition	**Cooling capacity (kW)**	**Cooling power input (kW)**	**EER**	**Remark (For variable capacity units, the frequency settings for the same part load conditions.)**
A	3,502	1,027	3,410	57 Hz
B	2,483	0,392	6,334	31 Hz
C	1,595	0,148	10,777	17 Hz
D	0,834	0,040	20,850	8 Hz

Test condition (Heating function / Average heating season):

Voltage: 230 V / frequency: 50 Hz / harmonic distortion 0,1% ;

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

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

Test condition	**Heating capacity (kW)**	**Heating power input (kW)**	**COP**	**Remark (For variable capacity units, the frequency settings for the same part load conditions.)**

A	2,213	0,759	2,916	58 Hz
B	1,404	0,291	4,825	28 Hz
C	0,985	0,162	6,080	17 Hz
D	1,112	0,147	7,565	16 Hz
E*	2,543	1,044	2,436	74 Hz
F	2,213	0,759	2,916	58 Hz

*Remark: -10 ℃ was used as the dry bulb temperature for the part load condition E according to the requirement of the standard:
If the declared TOL is lower than the Tdesignh of the considered climate, then the outdoor dry bulb temperature is equal to Tdesignh for the part load condition E in Table 6, Tables 8 to 11.

Test condition (Heating function / Warmer heating season):

Voltage: 230 V / frequency: 50 Hz / harmonic distortion 0,1% ;

Tj (bivalent temperature): 2 ℃; operating limit (TOL): 2 ℃ ;

Table 7 — Part load conditions for reference SCOP, reference SCOPon and reference SCOPnet calculation of air-to-air units for the reference heating season "W" = warmer

	W		Outdoor air dry bulb (wet bulb) temperatures	Indoor air dry bulb temperature
	Part load ratio	Part load ratio %	°C	°C
A	(not applicable)			
B	(+2-16)/(Tdesignh -16)	100	2(1)	20
C	(+7-16)/(Tdesignh -16)	64	7(6)	20
D	(+12-16)/(Tdesignh -16)	29	12(11)	20
E	(TOL-16)/(Tdesignh -16)		TOL	20
F	(Tbivalent-16)/(Tdesignh -16)		Tbivalent	20

Test condition	Heating capacity (kW)	Heating power input (kW)	COP	Remark (For variable capacity units, the frequency settings for the same part load conditions.)
A	Not applicable		—	—
B	3,502	1,183	2,960	78 Hz
C	2,297	0,434	5,293	40 Hz
D	1,112	0,145	7,669	16 Hz
E	3,502	1,183	2,960	78 Hz
F	3,502	1,183	2,960	78 Hz

Test condition (Heating function / Colder heating season):

Voltage: 230 V / frequency: 50 Hz / harmonic distortion 0,1% ;

Tj (bivalent temperature): -15 ℃; operating limit (TOL): -22 ℃;

Table 8 — Part load conditions for reference SCOP, reference SCOPon and reference SCOPnet calculation of air-to-air units for the reference heating season "C" = colder

	C		Outdoor air dry bulb (wet bulb) temperatures	Indoor air dry bulb temperature
	Part load ratio	Part load ratio %	°C	°C
A	(-7-16)/(Tdesignh -16)	61	-7(-8)	20
B	(+2-16)/(Tdesignh -16)	37	2(1)	20
C	(+7-16)/(Tdesignh -16)	24	7(6)	20
D	(+12-16)/(Tdesignh -16)	11	12(11)	20
E	(TOL-16)/(Tdesignh -16)		TOL	20
F	(Tbivalent-16)/(Tdesignh -16)		Tbivalent	20
G [a]	(-15-16)/(Tdesignh -16)	82	-15	20
[a] Condition G is performed in case TOL is below -20 C.				

Test condition	Heating capacity (kW)	Heating power input (kW)	COP	Remark (For variable capacity units, the frequency settings for the same part load conditions.)
A	2,211	0,758	2,917	58 Hz
B	1,404	0,289	4,858	28 Hz
C	0,984	0,163	6,037	17 Hz
D	1,112	0,147	7,565	16 Hz
E	2,382	1,307	1,822	108 Hz
F	2,776	1,289	2,154	98 Hz
G	2,776	1,289	2,154	98 Hz

The SEER ,SCOP and Sound power level established according to the test data:

$SEER_{on}$	$SCOP_{on}$ (Average heating season)	$SCOP_{on}$ (Warmer heating season)	$SCOP_{on}$ (Colder heating season)	Sound power level (dB(A))
9,290	4,730	6,001	3,709	Indoor unit: 53,83 dB(A); Outdoor unit:62,82 dB(A)
SEER	**SCOP**	**SCOP**	**SCOP**	/
8,522	4,712	5,919	3,705	/
P_{OFF} (kW)	P_{SB} (kW)	P_{TO} (kW)	P_{CK} (kW)	/
0,004	0,004	0,015	0	/

Requirements for minimum energy efficiency and maximum sound power level		**P**
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 (average)**	**Sound power level (dB(A))**
3,60	3,40	60 / 65 (IU / OU)
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,		
SEER	**SCOP (average)**	**Sound power level (dB(A))**
4,60	3,80	60 / 65 (IU / OU)

Part 3: measured values (for double duct and single duct air conditioners)	**N/A**

Test data according to EN 14511-1, 2, 3: 2022

Test condition:

Voltage: ___V / frequency: ___Hz / harmonic distortion ___ ,

Table 2

Standard rating conditions, temperatures in 'dry bulb' air temperature

('wet bulb' indicated in brackets)

Appliance	Function	Indoor air temperature (°C)	Outdoor air temperature (°C)
air conditioners, excluding single duct air conditioners	cooling	27 (19)	35 (24)
	heating	20 (max. 15)	7(6)
single duct air conditioner	cooling	35 (24)	35 (24) (*)
	heating	20 (12)	20 (12) (*)

(*) In case of single duct air conditioners the condenser (evaporator) when cooling (heating) is not supplied with outdoor air, but indoor air.

Cooling function

Test condition	Cooling capacity (kW)	Cooling power input (kW)	EER_{rated}	Remark
For single duct air conditioner	—	—	—	—

Heating function

Test condition	Heating capacity (kW)	Heating power input (kW)	COP_{rated}	Remark
For single duct air conditioner	—	—	—	—

The P_{off}, P_{SB} and Sound power level established according to the test standards:

P_{off} (W)	**P_{SB} (W)**	**Sound power level (dB(A))**
—	—	—

Requirements for minimum energy efficiency and maximum power consumption in off-mode and standby mode, maximum sound power level			**N/A**
From 1 January 2013, single duct air conditioner shall correspond to requirements as indicated in the table below, calculated in accordance with Annex II, Single duct air conditioner shall fulfil the requirement on standby mode as indicated in below, The requirements on minimum energy efficiency and maximum sound power shall relate to the standard rating conditions specified in Annex II, Table 2,			
EER_{rated}	**COP_{rated}**	**P_{SB} (W)**	**Sound power level (dB(A))**
—	—	—	—
From 1 January 2014, single duct air conditioner shall correspond to requirements as indicated in the table below, calculated in accordance with Annex II, The requirements on energy efficiency for single duct air conditioner shall relate to the standard rating conditions specified in Annex II, Table 2,			
EER_{rated}	**COP_{rated}**	**P_{SB} (W)**	**Sound power level (dB(A))**
—	—	—	—

Photo documents:

Details of: Indoor unit

View:

☒ general

☐ front

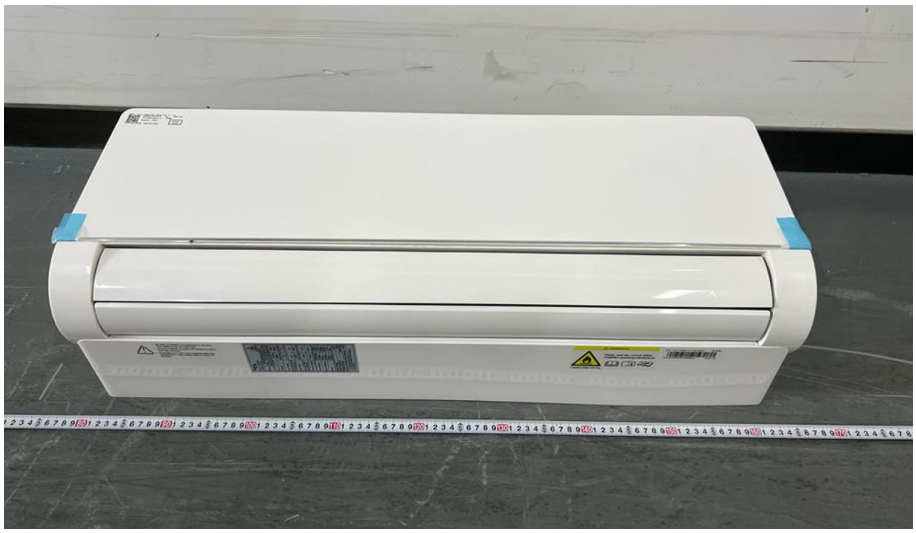
☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: Outdoor unit

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom

- - - End of Report - - -