



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

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| 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 | GZEE240600228531 |
| Tested by (name + signature): | Project engineer/ Max Liang <i>Max Liang</i> |
| Approved by (name + signature) : | Reviewer/ David Lei <i>David Lei</i> |
| Date of issue: | 2024-08-19 |
| 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 |
| 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 |
| This test report is issued under SGS general terms of delivery (available on request and accessible at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of SGS. | |
| Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law | |
| Test item description | Split-type air-conditioner |
| Trade Mark | TCL |
| Manufacturer: | Same as applicant |
| Factory | Same as applicant |
| Model/Type reference | TAC-24CHSD(011336)/*I Indoor unit: TAC-24CHSD(011336)/*I Outdoor unit: TAC-24CHSD(011336)/*I (* can be TP11, TP21, TP31, TP41, TP51, TP61, TP71, TP72, TP81, TP91, TPA1, TPB1, TPG11, TPG21, TPG31) |
| 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
 The length of refrigerant lines between indoor unit
 and outdoor unit is 5m.
 The tests are performed on model TAC-
 24CHSD(011336)/*I.
 And the results are listed below:

| Items | Declared values | Measured values |
|---|-----------------|-----------------|
| SEER | 6,5 | 6,584 |
| SCOP (Average) | 4,1 | 4,107 |
| SCOP (Warmer) | 5,1 | 5,119 |
| SCOP (Colder) | 3,4 | 3,434 |
| 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:

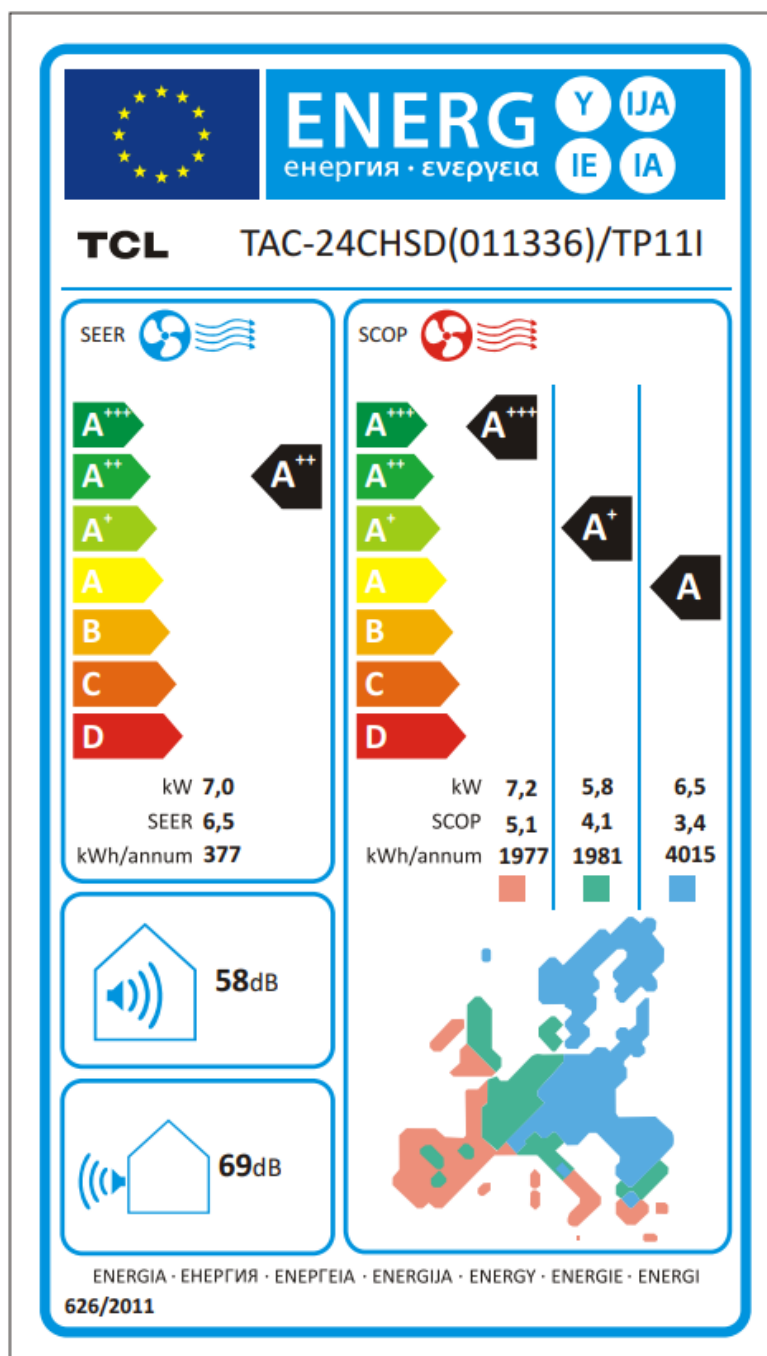
| | | | | | |
|---|--------------------------|--------------------------|---|--|---|
| TCL | | |  |  |  |
| SPLIT TYPE AIR CONDITIONER | | | | | |
| Model | TAC-24CHSD(011336)/TP11I | | | | |
| | Indoor | TAC-24CHSD(011336)/TP11I | | | |
| | Outdoor | TAC-24CHSD(011336)/TP11I | | | |
| | | Cooling | Heating | | |
| Capacity | | 7020W (1830~8000) | 7100W (1850~8000) | | |
| Rated Current (IEC/EN60335) | | 15.5A | 17.0A | | |
| Rated Power Input (IEC/EN60335) | | 2900W | 3000W | | |
| Maximum Allowable Pressure | | | 3.7MPa | | |
| Max.Pressure | | Discharge | 3.7MPa | | |
| | | Suction | 1.2MPa | | |
| Rated Voltage | | | 220-240V~ | | |
| Rated Frequency | | | 50Hz | | |
| Refrigerant/Charge/GWP | | | R32/1.070kg/675 | | |
| CO ₂ equivalent | | | 0.723 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:

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

The marking plates of other models are same as above except the model number.

Copy of energy label:



Remark:

The copy of energy label listed above is just for reference.

The energy labels of other models 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 : 2024-06-04 |
| Date (s) of performance of tests : From 2024-06-04 to 2024-08-19 |
| General remarks: |
| <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(see Enclosure #)" refers to additional information appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.</p> <p>Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.</p> <p>Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the company.</p> <p>OU: outdoor unit; IU: indoor unit</p> |
| General product information: |
| <p>Split-type air conditioner for household use only, the refrigerant is R32.</p> <p>The appliance has cooling and heating functions.</p> <p>The appliance was assembled with a variable speed motor-compressor C-6RZ180H3AAF (CRSS).</p> <p>For the model series TAC-24CHSD(011336)/I, * can be TP11, TP21, TP31, TP41, TP51, TP61, TP71, TP72, TP81, TP91, TPA1, TPB1, TPG11, TPG21, TPG31, which indicates different front panels of indoor unit.</p> <p>For cooling season, Tdesign is 35°C (OU).</p> <p>For heating/Average season, Tdesign is -10°C (OU), TOL is -15°C (OU), and Tbivalent is -7°C (OU).</p> <p>For heating/Warmer season, Tdesign is 2°C (OU), TOL is 2°C (OU), and Tbivalent is 2°C (OU).</p> <p>For heating/Colder season, Tdesign is -22°C (OU), TOL is -22°C (OU), and Tbivalent is -15°C (OU).</p> |

| COMMISSION REGULATION (EU) No 206/2012 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------------|------------------------------|----------------------|---|--------------|--|--|---|--|----------------------|----------------------|-----------------------------|------|------|------|------|-----------------------------|------|------|------|------|---|--|
| Cl. | Requirement-Test | Result-Remark | | Verdict | | | | | | | | | | | | | | | | | | | | |
| ANNEX I | Ecodesign requirements | | | — | | | | | | | | | | | | | | | | | | | | |
| 1 | DEFINITIONS APPLICABLE FOR THE PURPOSES OF THE ANNEXES | | | P | | | | | | | | | | | | | | | | | | | | |
| 2 | REQUIREMENTS FOR MINIMUM ENERGY EFFICIENCY, MAXIMUM POWER CONSUMPTION IN OFF-MODE AND STANDBY MODE AND FOR MAXIMUM SOUND POWER LEVEL | | | P | | | | | | | | | | | | | | | | | | | | |
| | (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. | | | N/A | | | | | | | | | | | | | | | | | | | | |
| | <div>Table 1</div> <div>Requirements for minimum energy efficiency</div> <table><tr><th rowspan="2"></th><th colspan="2">Double duct air conditioners</th><th colspan="2">Single duct air conditioners</th></tr><tr><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> | | | | Double duct air conditioners | | Single duct air conditioners | | EER _{rated} | COP _{rated} | EER _{rated} | COP _{rated} | If GWP of refrigerant > 150 | 2,40 | 2,36 | 2,40 | 1,80 | If GWP of refrigerant ≤ 150 | 2,16 | 2,12 | 2,16 | 1,62 | — | |
| | Double duct air conditioners | | Single duct air conditioners | | | | | | | | | | | | | | | | | | | | | |
| | EER _{rated} | COP _{rated} | EER _{rated} | COP _{rated} | | | | | | | | | | | | | | | | | | | | |
| If GWP of refrigerant > 150 | 2,40 | 2,36 | 2,40 | 1,80 | | | | | | | | | | | | | | | | | | | | |
| If GWP of refrigerant ≤ 150 | 2,16 | 2,12 | 2,16 | 1,62 | | | | | | | | | | | | | | | | | | | | |
| | <div>Table 2</div> <div>Requirements for maximum power consumption in off-mode and standby mode for single duct and double duct air conditioners and comfort fans</div> <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 rowspan="2">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>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> | | | Off mode | Power consumption of equipment in any off-mode condition shall not exceed 1,00 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 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. | — | | | | | | | | | | | | | |
| Off mode | Power consumption of equipment in any off-mode condition shall not exceed 1,00 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 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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|--|---|-----------------------------------|------------------------------------|-----------------------|------|----------------------------------|-----------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|------|----|----|----|---|
| Cl. | Requirement-Test | | Result-Remark | Verdict | | | | | | | | | | | | |
| | <div>Table 3</div> <div>Requirements for maximum sound power level</div> <div>Indoor sound power level in dB(A)</div> <div>65</div> | | | — | | | | | | | | | | | | |
| (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. | | GWP of refrigerant > 150 | P | | | | | | | | | | | | |
| | The requirements on sound power shall relate to the standard rating conditions specified in Annex II, Table 2 | | | P | | | | | | | | | | | | |
| | <div>Table 4</div> <div>Requirements for minimum energy efficiency</div> <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> | | | | SEER | SCOP (Average heating season) | If GWP of refrigerant > 150 | 3,60 | 3,40 | If GWP of refrigerant ≤ 150 | 3,24 | 3,06 | — | | | |
| | SEER | SCOP (Average heating season) | | | | | | | | | | | | | | |
| If GWP of refrigerant > 150 | 3,60 | 3,40 | | | | | | | | | | | | | | |
| If GWP of refrigerant ≤ 150 | 3,24 | 3,06 | | | | | | | | | | | | | | |
| | <div>Table 5</div> <div>Requirements for maximum sound power level</div> <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> | | | Rated capacity ≤ 6 kW | | 6 < Rated capacity ≤ 12 kW | | Indoor sound power level in dB(A) | Outdoor sound power level in dB(A) | Indoor sound power level in dB(A) | Outdoor sound power level in dB(A) | 60 | 65 | 65 | 70 | — |
| Rated capacity ≤ 6 kW | | 6 < Rated capacity ≤ 12 kW | | | | | | | | | | | | | | |
| Indoor sound power level in dB(A) | Outdoor sound power level in dB(A) | Indoor sound power level in dB(A) | Outdoor sound power level in dB(A) | | | | | | | | | | | | | |
| 60 | 65 | 65 | 70 | | | | | | | | | | | | | |
| (c) | 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. | | GWP > 150 | P | | | | | | | | | | | | |

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| Cl. | Requirement-Test | Result-Remark | Verdict | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------------|---|----------------------|--|---|---|--|------|--------------------------------|----------------------|----------------------|----------------------|----------------------|--|------|------|------|------|------|------|--|------|------|------|------|------|------|---|------|------|------|------|------|------|---|------|------|------|------|------|------|--|---|
| | <div><div>Table 6</div><div>Requirements for minimum energy efficiency</div><table><tr><th rowspan="2"></th><th colspan="2">Air conditioners, except double and single duct air conditioners</th><th colspan="2">Double duct air conditioners</th><th colspan="2">Single duct air conditioners</th></tr><tr><th>SEER</th><th>SCOP (heating season: Average)</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 for < 6 kW</td><td>4,60</td><td>3,80</td><td>2,60</td><td>2,60</td><td>2,60</td><td>2,04</td></tr><tr><td>If GWP of refrigerant ≤ 150 for < 6 kW</td><td>4,14</td><td>3,42</td><td>2,34</td><td>2,34</td><td>2,34</td><td>1,84</td></tr><tr><td>If GWP of refrigerant > 150 for 6-12 kW</td><td>4,30</td><td>3,80</td><td>2,60</td><td>2,60</td><td>2,60</td><td>2,04</td></tr><tr><td>If GWP of refrigerant ≤ 150 for 6-12 kW</td><td>3,87</td><td>3,42</td><td>2,34</td><td>2,34</td><td>2,34</td><td>1,84</td></tr></table></div> | | 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 | | — |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div><div>Table 7</div><div>Requirements for maximum power consumption in off-mode and standby mode</div><table><tr><td>Off mode</td><td>Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.</td></tr><tr><td rowspan="2">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 0,50 W.</td></tr><tr><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 1,00 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></div> | 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. | | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | Verdict |
| | <div>Power management</div> <div> <p>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:</p> <ul style="list-style-type: none"> — 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. </div> | | — |
| 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; | www.TCL.com | P |
| | (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 |

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| Cl. | Requirement-Test | Result-Remark | Verdict | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p style="text-align: center;">Table 1</p> <p style="text-align: center;">Cooling and heating season bins (j = bin index, T_j = outdoor temperature, h_j = hours per annum per bin) where 'db' = dry bulb temperature</p> <table> <tr> <th colspan="3">COOLING SEASON</th><th colspan="5">HEATING SEASON</th></tr> <tr> <th rowspan="2">j #</th><th rowspan="2">T_j °C db</th><th rowspan="2">h_j h/annum</th><th rowspan="2">j #</th><th rowspan="2">T_j °C db</th><th colspan="3">h_j h/annum</th></tr> <tr> <th>Average</th><th>Warmer</th><th>Colder</th></tr> <tr><td>1</td><td>17</td><td>205</td><td>1 to 8</td><td>- 30 to - 23</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>18</td><td>227</td><td>9</td><td>- 22</td><td>0</td><td>0</td><td>1</td></tr> <tr><td>3</td><td>19</td><td>225</td><td>10</td><td>- 21</td><td>0</td><td>0</td><td>6</td></tr> <tr><td>4</td><td>20</td><td>225</td><td>11</td><td>- 20</td><td>0</td><td>0</td><td>13</td></tr> <tr><td>5</td><td>21</td><td>216</td><td>12</td><td>- 19</td><td>0</td><td>0</td><td>17</td></tr> <tr><td>6</td><td>22</td><td>215</td><td>13</td><td>- 18</td><td>0</td><td>0</td><td>19</td></tr> <tr><td>7</td><td>23</td><td>218</td><td>14</td><td>- 17</td><td>0</td><td>0</td><td>26</td></tr> <tr><td>8</td><td>24</td><td>197</td><td>15</td><td>- 16</td><td>0</td><td>0</td><td>39</td></tr> <tr><td>9</td><td>25</td><td>178</td><td>16</td><td>- 15</td><td>0</td><td>0</td><td>41</td></tr> <tr><td>10</td><td>26</td><td>158</td><td>17</td><td>- 14</td><td>0</td><td>0</td><td>35</td></tr> <tr><td>11</td><td>27</td><td>137</td><td>18</td><td>- 13</td><td>0</td><td>0</td><td>52</td></tr> <tr><td>12</td><td>28</td><td>109</td><td>19</td><td>- 12</td><td>0</td><td>0</td><td>37</td></tr> <tr><td>13</td><td>29</td><td>88</td><td>20</td><td>- 11</td><td>0</td><td>0</td><td>41</td></tr> <tr><td>14</td><td>30</td><td>63</td><td>21</td><td>- 10</td><td>1</td><td>0</td><td>43</td></tr> <tr><td>15</td><td>31</td><td>39</td><td>22</td><td>- 9</td><td>25</td><td>0</td><td>54</td></tr> <tr><td>16</td><td>32</td><td>31</td><td>23</td><td>- 8</td><td>23</td><td>0</td><td>90</td></tr> <tr><td>17</td><td>33</td><td>24</td><td>24</td><td>- 7</td><td>24</td><td>0</td><td>125</td></tr> <tr><td>18</td><td>34</td><td>17</td><td>25</td><td>- 6</td><td>27</td><td>0</td><td>169</td></tr> <tr><td>19</td><td>35</td><td>13</td><td>26</td><td>- 5</td><td>68</td><td>0</td><td>195</td></tr> <tr><td>20</td><td>36</td><td>9</td><td>27</td><td>- 4</td><td>91</td><td>0</td><td>278</td></tr> <tr><td>21</td><td>37</td><td>4</td><td>28</td><td>- 3</td><td>89</td><td>0</td><td>306</td></tr> <tr><td>22</td><td>38</td><td>3</td><td>29</td><td>- 2</td><td>165</td><td>0</td><td>454</td></tr> <tr><td>23</td><td>39</td><td>1</td><td>30</td><td>- 1</td><td>173</td><td>0</td><td>385</td></tr> <tr><td>24</td><td>40</td><td>0</td><td>31</td><td>0</td><td>240</td><td>0</td><td>490</td></tr> <tr><td></td><td></td><td></td><td>32</td><td>1</td><td>280</td><td>0</td><td>533</td></tr> <tr><td></td><td></td><td></td><td>33</td><td>2</td><td>320</td><td>3</td><td>380</td></tr> <tr><td></td><td></td><td></td><td>34</td><td>3</td><td>357</td><td>22</td><td>228</td></tr> <tr><td></td><td></td><td></td><td>35</td><td>4</td><td>356</td><td>63</td><td>261</td></tr> <tr><td></td><td></td><td></td><td>36</td><td>5</td><td>303</td><td>63</td><td>279</td></tr> <tr><td></td><td></td><td></td><td>37</td><td>6</td><td>330</td><td>175</td><td>229</td></tr> <tr><td></td><td></td><td></td><td>38</td><td>7</td><td>326</td><td>162</td><td>269</td></tr> <tr><td></td><td></td><td></td><td>39</td><td>8</td><td>348</td><td>259</td><td>233</td></tr> <tr><td></td><td></td><td></td><td>40</td><td>9</td><td>335</td><td>360</td><td>230</td></tr> <tr><td></td><td></td><td></td><td>41</td><td>10</td><td>315</td><td>428</td><td>243</td></tr> <tr><td></td><td></td><td></td><td>42</td><td>11</td><td>215</td><td>430</td><td>191</td></tr> <tr><td></td><td></td><td></td><td>43</td><td>12</td><td>169</td><td>503</td><td>146</td></tr> <tr><td></td><td></td><td></td><td>44</td><td>13</td><td>151</td><td>444</td><td>150</td></tr> <tr><td></td><td></td><td></td><td>45</td><td>14</td><td>105</td><td>384</td><td>97</td></tr> <tr><td></td><td></td><td></td><td>46</td><td>15</td><td>74</td><td>294</td><td>61</td></tr> <tr> <td colspan="2">Total h.</td><td>2 602</td><td colspan="2">Total h.</td><td>4 910</td><td>3 590</td><td>6 446</td></tr> </table> | COOLING SEASON | | | HEATING SEASON | | | | | j # | T _j °C db | h _j h/annum | j # | T _j °C db | h _j 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 | — |
| COOLING SEASON | | | HEATING SEASON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| j # | T _j °C db | h _j h/annum | j # | T _j °C db | h _j 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|----------------------------------|------------------------------|--|-----------------------|-----------------|--|------------------|-----------------|---------|--|--------------------------------|-----------------|------------------|-----------------|--|------------------------------------|--------|----------|----------------|------------------------------|--------|--------|---|------------------------------------|----------|-----------|-----|-------|---|-------|--------------|---------|-------|-----|---|---|-----|--------|-------|-----|---|---|-----|--------|-------|-----|---|---|-----|--|---|
| | <p style="text-align: center;"><i>Table 2</i></p> <p style="text-align: center;">Standard rating conditions, temperatures in 'dry bulb' air temperature (‘wet bulb’ indicated in brackets)</p> <table><tr><th>Appliance</th><th>Function</th><th>Indoor air temperature (°C)</th><th>Outdoor air temperature (°C)</th></tr><tr><td rowspan="2">air conditioners, excluding single duct air conditioners</td><td>cooling</td><td>27 (19)</td><td>35 (24)</td></tr><tr><td>heating</td><td>20 (max. 15)</td><td>7(6)</td></tr><tr><td rowspan="2">single duct air conditioner</td><td>cooling</td><td>35 (24)</td><td>35 (24) (*)</td></tr><tr><td>heating</td><td>20 (12)</td><td>20 (12) (*)</td></tr></table> <p>(*) In case of single duct air conditioners the condenser (evaporator) when cooling (heating) is not supplied with outdoor air, but indoor air.</p> | 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) (*) | | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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) (*) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p style="text-align: center;"><i>Table 3</i></p> <p style="text-align: center;">Reference design conditions, temperatures in 'dry bulb' air temperature (‘wet bulb’ indicated in brackets)</p> <table><tr><th>Function/season</th><th>Indoor air temperature (°C)</th><th>Outdoor air temperature (°C)</th><th>Bivalent temperature (°C)</th><th>Operating limit temperature (°C)</th></tr><tr><td></td><td>T_{in}</td><td>T_{designc}/T_{designh}</td><td>T_{biv}</td><td>T_{ol}</td></tr><tr><td>cooling</td><td>27 (19)</td><td>T_{designc} = 35 (24)</td><td>n.a.</td><td>n.a.</td></tr><tr><td>heating/Average</td><td rowspan="3">20 (15)</td><td>T_{designh} = - 10 (- 11)</td><td>max. 2</td><td>max. - 7</td></tr><tr><td>heating/Warmer</td><td>T_{designh} = 2 (1)</td><td>max. 7</td><td>max. 2</td></tr><tr><td>heating/Colder</td><td>T_{designh} = - 22 (- 23)</td><td>max. - 7</td><td>max. - 15</td></tr></table> | Function/season | Indoor air temperature (°C) | Outdoor air temperature (°C) | Bivalent temperature (°C) | Operating limit temperature (°C) | | T _{in} | T _{designc} /T _{designh} | T _{biv} | T _{ol} | cooling | 27 (19) | T _{designc} = 35 (24) | n.a. | n.a. | heating/Average | 20 (15) | T _{designh} = - 10 (- 11) | max. 2 | max. - 7 | heating/Warmer | T _{designh} = 2 (1) | max. 7 | max. 2 | heating/Colder | T _{designh} = - 22 (- 23) | max. - 7 | max. - 15 | | — | | | | | | | | | | | | | | | | | | | | | | | |
| Function/season | Indoor air temperature (°C) | Outdoor air temperature (°C) | Bivalent temperature (°C) | Operating limit temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | T _{in} | T _{designc} /T _{designh} | T _{biv} | T _{ol} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| cooling | 27 (19) | T _{designc} = 35 (24) | n.a. | n.a. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| heating/Average | 20 (15) | T _{designh} = - 10 (- 11) | max. 2 | max. - 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| heating/Warmer | | T _{designh} = 2 (1) | max. 7 | max. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| heating/Colder | | T _{designh} = - 22 (- 23) | max. - 7 | max. - 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p style="text-align: center;"><i>Table 4</i></p> <p style="text-align: center;">Operational hours per type of appliance per functional mode to be used for calculation of electricity consumption</p> <table><tr><th>Type of appliance/functionality (if applicable)</th><th>Unit</th><th>Heating season</th><th>On mode</th><th>Thermostat-off mode</th><th>Standby mode</th><th>Off mode</th><th>Crankcase heater mode</th></tr><tr><td></td><td></td><td></td><td>cooling: H_{CE} heating: H_{HE}</td><td>H_{TO}</td><td>H_{SB}</td><td>H_{OFF}</td><td>H_{CK}</td></tr></table> <p>Air conditioners, except single and double duct air conditioner</p> <table><tr><td>Cooling mode, if appliance offers cooling only</td><td>h/annum</td><td></td><td>350</td><td>221</td><td>2 142</td><td>5 088</td><td>7 760</td></tr><tr><td rowspan="4">Cooling and heating modes, if appliance offers both modes</td><td>Cooling mode</td><td>h/annum</td><td>350</td><td>221</td><td>2 142</td><td>0</td><td>2 672</td></tr><tr><td rowspan="3">Heating mode</td><td>Average</td><td>1 400</td><td>179</td><td>0</td><td>0</td><td>179</td></tr><tr><td>Warmer</td><td>1 400</td><td>755</td><td>0</td><td>0</td><td>755</td></tr><tr><td>Colder</td><td>2 100</td><td>131</td><td>0</td><td>0</td><td>131</td></tr></table> | 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} | 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 | Average | 1 400 | 179 | 0 | 0 | 179 | Warmer | 1 400 | 755 | 0 | 0 | 755 | Colder | 2 100 | 131 | 0 | 0 | 131 | | — |
| 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} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 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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|--|--|---------------|---------|
| 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 | <p style="text-align: center;"><i>Table 1</i></p> <p style="text-align: center;">Energy efficiency classes for air conditioners, except double ducts and single ducts</p> <table> <tr> <th>Energy Efficiency Class</th><th>SEER</th><th>SCOP</th></tr> <tr> <td>A+++</td><td>SEER ≥ 8,50</td><td>SCOP ≥ 5,10</td></tr> <tr> <td>A++</td><td>6,10 ≤ SEER < 8,50</td><td>4,60 ≤ SCOP < 5,10</td></tr> <tr> <td>A+</td><td>5,60 ≤ SEER < 6,10</td><td>4,00 ≤ SCOP < 4,60</td></tr> <tr> <td>A</td><td>5,10 ≤ SEER < 5,60</td><td>3,40 ≤ SCOP < 4,00</td></tr> <tr> <td>B</td><td>4,60 ≤ SEER < 5,10</td><td>3,10 ≤ SCOP < 3,40</td></tr> <tr> <td>C</td><td>4,10 ≤ SEER < 4,60</td><td>2,80 ≤ SCOP < 3,10</td></tr> <tr> <td>D</td><td>3,60 ≤ SEER < 4,10</td><td>2,50 ≤ SCOP < 2,80</td></tr> <tr> <td>E</td><td>3,10 ≤ SEER < 3,60</td><td>2,20 ≤ SCOP < 2,50</td></tr> <tr> <td>F</td><td>2,60 ≤ SEER < 3,10</td><td>1,90 ≤ SCOP < 2,20</td></tr> <tr> <td>G</td><td>SEER < 2,60</td><td>SCOP < 1,90</td></tr> </table> | 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 | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p style="text-align: center;"><i>Table 2</i></p> <p style="text-align: center;">Energy efficiency classes for double ducts and single ducts</p> <table> <tr> <th rowspan="2">Energy Efficiency Class</th><th colspan="2">Double ducts</th><th colspan="2">Single ducts</th></tr> <tr> <th>EER_{rated}</th><th>COP_{rated}</th><th>EER_{rated}</th><th>COP_{rated}</th></tr> <tr> <td>A+++</td><td>≥ 4,10</td><td>≥ 4,60</td><td>≥ 4,10</td><td>≥ 3,60</td></tr> <tr> <td>A++</td><td>3,60 ≤ EER < 4,10</td><td>4,10 ≤ COP < 4,60</td><td>3,60 ≤ EER < 4,10</td><td>3,10 ≤ COP < 3,60</td></tr> <tr> <td>A+</td><td>3,10 ≤ EER < 3,60</td><td>3,60 ≤ COP < 4,10</td><td>3,10 ≤ EER < 3,60</td><td>2,60 ≤ COP < 3,10</td></tr> <tr> <td>A</td><td>2,60 ≤ EER < 3,10</td><td>3,10 ≤ COP < 3,60</td><td>2,60 ≤ EER < 3,10</td><td>2,30 ≤ COP < 2,60</td></tr> <tr> <td>B</td><td>2,40 ≤ EER < 2,60</td><td>2,60 ≤ COP < 3,10</td><td>2,40 ≤ EER < 2,60</td><td>2,00 ≤ COP < 2,30</td></tr> <tr> <td>C</td><td>2,10 ≤ EER < 2,40</td><td>2,40 ≤ COP < 2,60</td><td>2,10 ≤ EER < 2,40</td><td>1,80 ≤ COP < 2,00</td></tr> <tr> <td>D</td><td>1,80 ≤ EER < 2,10</td><td>2,00 ≤ COP < 2,40</td><td>1,80 ≤ EER < 2,10</td><td>1,60 ≤ COP < 1,80</td></tr> <tr> <td>E</td><td>1,60 ≤ EER < 1,80</td><td>1,80 ≤ COP < 2,00</td><td>1,60 ≤ EER < 1,80</td><td>1,40 ≤ COP < 1,60</td></tr> <tr> <td>F</td><td>1,40 ≤ EER < 1,60</td><td>1,60 ≤ COP < 1,80</td><td>1,40 ≤ EER < 1,60</td><td>1,20 ≤ COP < 1,40</td></tr> <tr> <td>G</td><td>< 1,40</td><td>< 1,60</td><td>< 1,40</td><td>< 1,20</td></tr> </table> | 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 | | N/A |
| 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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| Cl. | Requirement-Test | Result-Remark | Verdict |
| | (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 $P_{designc}$ 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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| Cl. | Requirement-Test | Result-Remark | Verdict |
| | (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; | | P |
| | (d) the design load $P_{designh}$ 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 | 7,0 | kW | Cooling | SEER | 6,5 | — |
| Heating/Average | Pdesignh | 5,8 | kW | Heating/Average | SCOP/A | 4,1 | — |
| Heating/Warmer | Pdesignh | 7,2 | kW | Heating/Warmer | SCOP/W | 5,1 | — |
| Heating/Colder | Pdesignh | 6,5 | kW | Heating/Colder | SCOP/C | 3,4 | — |
| 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 | 7,0 | kW | Tj = 35 °C | EERd | 3,4 | — |
| Tj = 30 °C | Pdc | 5,4 | kW | Tj = 30 °C | EERd | 4,9 | — |
| Tj = 25 °C | Pdc | 3,6 | kW | Tj = 25 °C | EERd | 8,5 | — |
| Tj = 20 °C | Pdc | 2,6 | kW | Tj = 20 °C | EERd | 13,9 | — |
| Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Item | symbol | value | unit | item | symbol | value | unit |
| Tj = - 7 °C | Pdh | 5,1 | kW | Tj = - 7 °C | COPd | 2,7 | — |
| Tj = 2 °C | Pdh | 3,2 | kW | Tj = 2 °C | COPd | 4,0 | — |
| Tj = 7 °C | Pdh | 2,1 | kW | Tj = 7 °C | COPd | 5,5 | — |
| Tj = 12 °C | Pdh | 1,4 | kW | Tj = 12 °C | COPd | 6,4 | — |

| | | | | | | | |
|---|---------------|--------------|-------------|---|---------------|--------------|-------------|
| Tj = bivalent temperature | Pdh | 5,1 | kW | Tj = bivalent temperature | COPd | 2,7 | — |
| Tj = operating limit | Pdh | 6,2 | kW | Tj = operating limit | COPd | 2,4 | — |
| 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 | 7,2 | kW | Tj = 2 °C | COPd | 2,5 | — |
| Tj = 7 °C | Pdh | 5,1 | kW | Tj = 7 °C | COPd | 4,7 | — |
| Tj = 12 °C | Pdh | 2,3 | kW | Tj = 12 °C | COPd | 6,7 | — |
| Tj = bivalent temperature | Pdh | 7,2 | kW | Tj = bivalent temperature | COPd | 2,5 | — |
| Tj = operating limit | Pdh | 7,2 | kW | Tj = operating limit | COPd | 2,5 | — |
| 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 | 3,9 | kW | Tj = - 7 °C | COPd | 3,0 | — |
| Tj = 2 °C | Pdh | 2,5 | kW | Tj = 2 °C | COPd | 4,0 | — |
| Tj = 7 °C | Pdh | 1,5 | kW | Tj = 7 °C | COPd | 4,89 | — |
| Tj = 12 °C | Pdh | 1,5 | kW | Tj = 12 °C | COPd | 6,5 | — |
| Tj = bivalent temperature | Pdh | 5,3 | kW | Tj = bivalent temperature | COPd | 2,4 | — |
| Tj = operating limit | Pdh | 4,5 | kW | Tj = operating limit | COPd | 2,0 | — |
| Tj = -15 °C | Pdh | 5,3 | kW | Tj = -15 °C | COPd | 2,4 | — |
| 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 | -15 | °C | heating/Colder | Tol | -22 | °C |
| Cycling interval capacity | | | | Cycling interval efficiency | | | |
| for cooling | Pcycc | — | kW | for cooling | EERcyc | — | — |
| for heating | Pcyh | — | 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} | 377 | kWh/a |
| standby mode (cooling / heating) | P _{SB} | 0,009/0,009 | kW | Heating/Average | Q _{HE} | 1981 | kWh/a |
| thermostat-off mode (cooling / heating) | P _{TO} | 0,058/0,058 | kW | Heating/Warmer | Q _{HE} | 1977 | kWh/a |
| crankcase heater mode | P _{CK} | — | kW | Heating/Colder | Q _{HE} | 4015 | 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} | 58 / 69 | dB(A) |
| Staged | N | | | Global warming potential | GWP | 675 | kg CO ₂ eq. |
| Variable | Y | | | Rated air flow (indoor/outdoor) | — | 1100/3000 | 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 | EER_d | — | — |
| Rated Coefficient of performance | COP_d | — | — |
| 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: <u>230</u> V / frequency: <u>50</u> Hz / harmonic distortion <u>0,1%</u> . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p align="center">Table 2 — Part load conditions for reference SEER and reference SEER_{on} calculation of air-to-air units</p> <table> <tr> <th></th><th>Part load ratio</th><th>Part load ratio %</th><th>Outdoor air dry bulb temperature °C</th><th>Indoor air dry bulb (wet bulb) temperatures °C</th></tr> <tr> <td>A</td><td>$(35-16)/(T_{designc} - 16)$</td><td>100</td><td>35</td><td>27(19)</td></tr> <tr> <td>B</td><td>$(30-16)/(T_{designc} - 16)$</td><td>74</td><td>30</td><td>27(19)</td></tr> <tr> <td>C</td><td>$(25-16)/(T_{designc} - 16)$</td><td>47</td><td>25</td><td>27(19)</td></tr> <tr> <td>D</td><td>$(20-16)/(T_{designc} - 16)$</td><td>21</td><td>20</td><td>27(19)</td></tr> </table> | | | | | | Part load ratio | Part load ratio % | Outdoor air dry bulb temperature °C | Indoor air dry bulb (wet bulb) temperatures °C | A | $(35-16)/(T_{designc} - 16)$ | 100 | 35 | 27(19) | B | $(30-16)/(T_{designc} - 16)$ | 74 | 30 | 27(19) | C | $(25-16)/(T_{designc} - 16)$ | 47 | 25 | 27(19) | D | $(20-16)/(T_{designc} - 16)$ | 21 | 20 | 27(19) |
| | Part load ratio | Part load ratio % | Outdoor air dry bulb temperature °C | Indoor air dry bulb (wet bulb) temperatures °C | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | $(35-16)/(T_{designc} - 16)$ | 100 | 35 | 27(19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | $(30-16)/(T_{designc} - 16)$ | 74 | 30 | 27(19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | $(25-16)/(T_{designc} - 16)$ | 47 | 25 | 27(19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | $(20-16)/(T_{designc} - 16)$ | 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 | 7,002 | 2,067 | 3,388 | 68 Hz | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 5,384 | 1,099 | 4,899 | 47 Hz | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 3,559 | 0,419 | 8,494 | 25 Hz | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 2,610 | 0,188 | 13,883 | 16 Hz | | | | | | | | | | | | | | | | | | | | | | | | | |

| Test condition (Heating function / Average heating season): Voltage: <u>230</u> V / frequency: <u>50</u> Hz / harmonic distortion <u>0,1%</u> ; T _j (bivalent temperature): <u>-7 °C</u> ; operating limit (TOL): <u>-15 °C</u> ; | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------------|--|--|--|---|--|--|--|-----------------|----------------------|---|------------------------------|----|--------|----|---|------------------------------|----|------|----|---|------------------------------|----|------|----|---|-------------------------------|----|--------|----|---|-------------------------------|--|-----|----|---|--|--|-----------------------|----|
| <p align="center">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</p> <table> <tr> <th rowspan="2"></th><th colspan="2">A</th><th rowspan="2">Outdoor air dry bulb (wet bulb) temperatures °C</th><th rowspan="2">Indoor air dry bulb temperature °C</th></tr> <tr> <th>Part load ratio</th><th>Part load ratio %</th></tr> <tr> <td>A</td><td>$(-7-16)/(T_{designh} - 16)$</td><td>88</td><td>-7(-8)</td><td>20</td></tr> <tr> <td>B</td><td>$(+2-16)/(T_{designh} - 16)$</td><td>54</td><td>2(1)</td><td>20</td></tr> <tr> <td>C</td><td>$(+7-16)/(T_{designh} - 16)$</td><td>35</td><td>7(6)</td><td>20</td></tr> <tr> <td>D</td><td>$(+12-16)/(T_{designh} - 16)$</td><td>15</td><td>12(11)</td><td>20</td></tr> <tr> <td>E</td><td colspan="2">$(TOL-16)/(T_{designh} - 16)$</td><td>TOL</td><td>20</td></tr> <tr> <td>F</td><td colspan="2">$(T_{bivalent}-16)/(T_{designh} - 16)$</td><td>T_{bivalent}</td><td>20</td></tr> </table> | | | | | | A | | Outdoor air dry bulb (wet bulb) temperatures °C | Indoor air dry bulb temperature °C | Part load ratio | Part load ratio % | A | $(-7-16)/(T_{designh} - 16)$ | 88 | -7(-8) | 20 | B | $(+2-16)/(T_{designh} - 16)$ | 54 | 2(1) | 20 | C | $(+7-16)/(T_{designh} - 16)$ | 35 | 7(6) | 20 | D | $(+12-16)/(T_{designh} - 16)$ | 15 | 12(11) | 20 | E | $(TOL-16)/(T_{designh} - 16)$ | | TOL | 20 | F | $(T_{bivalent}-16)/(T_{designh} - 16)$ | | T _{bivalent} | 20 |
| | A | | Outdoor air dry bulb (wet bulb) temperatures °C | Indoor air dry bulb temperature °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Part load ratio | Part load ratio % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | $(-7-16)/(T_{designh} - 16)$ | 88 | -7(-8) | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | $(+2-16)/(T_{designh} - 16)$ | 54 | 2(1) | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | $(+7-16)/(T_{designh} - 16)$ | 35 | 7(6) | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | $(+12-16)/(T_{designh} - 16)$ | 15 | 12(11) | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | $(TOL-16)/(T_{designh} - 16)$ | | TOL | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | $(T_{bivalent}-16)/(T_{designh} - 16)$ | | T _{bivalent} | 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 | 5,132 | 1,878 | 2,733 | 78 Hz |
| B | 3,201 | 0,811 | 3,947 | 37 Hz |
| C | 2,108 | 0,384 | 5,490 | 22 Hz |
| D | 1,440 | 0,226 | 6,372 | 14 Hz |
| E | 6,173 | 2,582 | 2,391 | 110 Hz |
| F | 5,132 | 1,878 | 2,733 | 78 Hz |

Test condition (Heating function / Warmer heating season):

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

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

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 °C | Indoor air dry bulb temperature °C |
|---|--|-------------------|---|------------------------------------|
| | Part load ratio | Part load ratio % | | |
| A | (not applicable) | | | |
| B | $(+2-16)/(T_{designh} - 16)$ | 100 | 2(1) | 20 |
| C | $(+7-16)/(T_{designh} - 16)$ | 64 | 7(6) | 20 |
| D | $(+12-16)/(T_{designh} - 16)$ | 29 | 12(11) | 20 |
| E | $(TOL-16)/(T_{designh} - 16)$ | | TOL | 20 |
| F | $(T_{bivalent}-16)/(T_{designh} - 16)$ | | 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 | 7,203 | 2,871 | 2,509 | 110 Hz |
| C | 5,073 | 1,081 | 4,693 | 49 Hz |
| D | 2,298 | 0,347 | 6,622 | 20 Hz |
| E | 7,203 | 2,871 | 2,509 | 110 Hz |
| F | 7,203 | 2,871 | 2,509 | 110 Hz |

Test condition (Heating function / Colder heating season):

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

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

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 °C | Indoor air dry bulb temperature °C |
|----------------|--|----------------------|--|---------------------------------------|
| | Part load ratio | Part load ratio % | | |
| A | $(-7-16)/(T_{designh} - 16)$ | 61 | -7(-8) | 20 |
| B | $(+2-16)/(T_{designh} - 16)$ | 37 | 2(1) | 20 |
| C | $(+7-16)/(T_{designh} - 16)$ | 24 | 7(6) | 20 |
| D | $(+12-16)/(T_{designh} - 16)$ | 11 | 12(11) | 20 |
| E | $(TOL-16)/(T_{designh} - 16)$ | | TOL | 20 |
| F | $(T_{bivalent}-16)/(T_{designh} - 16)$ | | Tbivalent | 20 |
| G ^a | $(-15-16)/(T_{designh} - 16)$ | 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 | 3,884 | 1,314 | 2,956 | 59 Hz |
| B | 2,540 | 0,632 | 4,019 | 30 Hz |
| C | 1,535 | 0,316 | 4,858 | 17 Hz |
| D | 1,503 | 0,231 | 6,506 | 14 Hz |
| E | 4,494 | 2,290 | 1,962 | 110 Hz |
| F | 5,306 | 2,416 | 2,196 | 110 Hz |
| G | 5,306 | 2,416 | 2,196 | 110 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)) |
|---|--|---|---|--|
| 7,206 | 4,129 | 5,235 | 3,440 | Indoor unit:57,4 dB(A); Outdoor unit:68,7 dB(A) |
| SEER | SCOP | SCOP | SCOP | — |
| 6,584 | 4,107 | 5,119 | 3,434 | — |
| P _{TO} (kW) (cooling / heating) | P _{SB} (kW) (cooling / heating) | P _{OFF} (kW) | P _{CK} (kW) | — |
| 0,058/0.058 | 0,009/0,009 | 0,009 | — | — |

| 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 | 65 / 70 (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)) | |
| 4,30 | 3,80 | 65 / 70 (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 ___ | | | | | | | | | | | | | | | | | | | |
| <p><i>Table 2</i></p> <p>Standard rating conditions, temperatures in 'dry bulb' air temperature</p> <p>('wet bulb' indicated in brackets)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Appliance</th> <th style="width: 15%;">Function</th> <th style="width: 25%;">Indoor air temperature (°C)</th> <th style="width: 35%;">Outdoor air temperature (°C)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">air conditioners, excluding single duct air conditioners</td> <td>cooling</td> <td>27 (19)</td> <td>35 (24)</td> </tr> <tr> <td>heating</td> <td>20 (max. 15)</td> <td>7(6)</td> </tr> <tr> <td rowspan="2">single duct air conditioner</td> <td>cooling</td> <td>35 (24)</td> <td>35 (24) (*)</td> </tr> <tr> <td>heating</td> <td>20 (12)</td> <td>20 (12) (*)</td> </tr> </tbody> </table> <p>(*) In case of single duct air conditioners the condenser (evaporator) when cooling (heating) is not supplied with outdoor air, but indoor air.</p> | | 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) (*) |
| 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) (*) | | | | | | | | | | | | | | | | |
| 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:

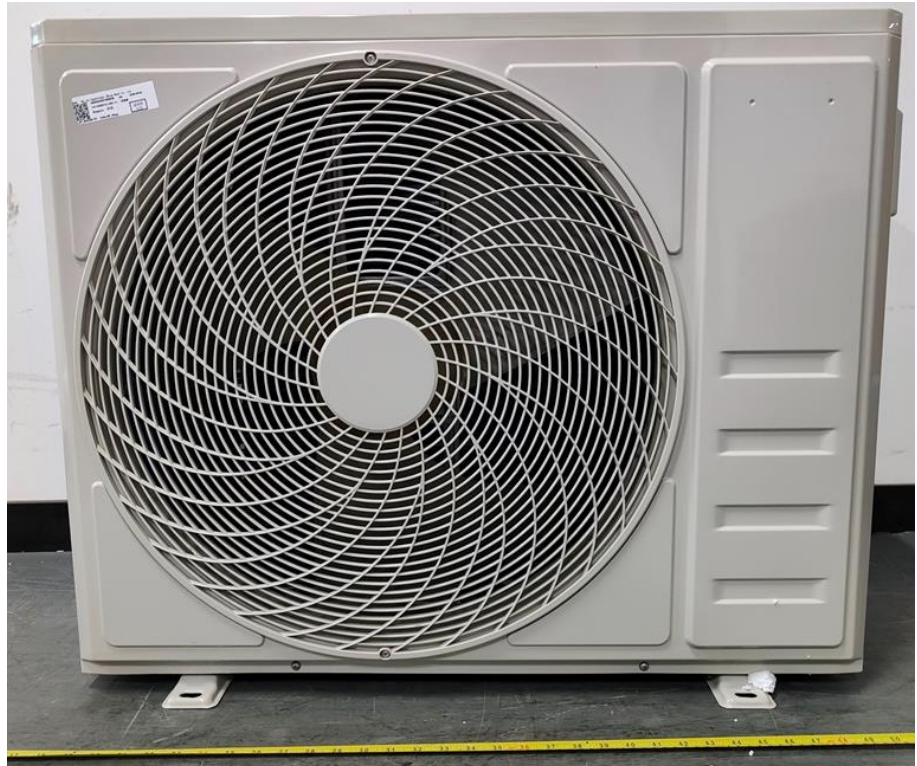
- ☒ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☐ bottom



Details of: Outdoor unit

View:

- ☒ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☐ bottom



Details of: Compressor

View:

- ☒ general
☐ front
☐ rear
☐ right
☐ left
☐ top
☐ bottom



- - - End of Report - - -