


ECU AIR CS R404a

ENERGY EFFICIENCY DATA SHEETS

*Values of COP and SEPR in conformity
to the rule UE2015/1095 of May 5th 2015*

N° DOC. IM000109
REV. "00" - 01.07.17

| TECHNICAL DOCUMENTATION | | STATE REVISION OF THE CHAPTER | | | | IN CONFORMITY WITH THE APPROVED ORIGINAL |  | |
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| PRODUCT | ECU AIR CS R404a | ORD. | DATE | ORD. | DATE | | | |
| N° DOC. | IM000109 | A | | D | | | FIRST ISSUE | 01.07.17 |
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|---------------------|--------------------------|
| Model | ECU Air SC2.20 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 12279 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,90 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PA</i> | 7,79 | kW |
| Nominal absorbed power | <i>DA</i> | 3,33 | kW |
| Nominal COP | <i>COPA</i> | 2,34 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PB</i> | 8,64 | kW |
| Nominal absorbed power | <i>DB</i> | 2,88 | kW |
| Declared COP | <i>COPB</i> | 3,00 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PC</i> | 9,74 | kW |
| Nominal absorbed power | <i>DC</i> | 2,36 | kW |
| Declared COP | <i>COPC</i> | 4,13 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 10,67 | kW |
| Nominal absorbed power | <i>DA</i> | 1,88 | kW |
| Declared COP | <i>COPD</i> | 5,67 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 6,31 | kW |
| Nominal absorbed power | <i>D3</i> | 4,28 | kW |
| Declared COP | <i>COP3</i> | 1,48 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.25 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 15200 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,56 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PA</i> | 8,79 | kW |
| Nominal absorbed power | <i>DA</i> | 3,94 | kW |
| Nominal COP | <i>COPA</i> | 2,23 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PB</i> | 9,64 | kW |
| Nominal absorbed power | <i>DB</i> | 3,44 | kW |
| Declared COP | <i>COPB</i> | 2,80 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 10,79 | kW |
| Nominal absorbed power | <i>DC</i> | 2,85 | kW |
| Declared COP | <i>COPC</i> | 3,79 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 11,86 | kW |
| Nominal absorbed power | <i>DA</i> | 2,36 | kW |
| Declared COP | <i>COPD</i> | 5,03 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 7,39 | kW |
| Nominal absorbed power | <i>D3</i> | 4,89 | kW |
| Declared COP | <i>COP3</i> | 1,51 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.30 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 18421 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,72 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 11,16 | kW |
| Nominal absorbed power | <i>DA</i> | 4,78 | kW |
| Nominal COP | <i>COPA</i> | 2,33 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 12,25 | kW |
| Nominal absorbed power | <i>DB</i> | 4,17 | kW |
| Declared COP | <i>COPB</i> | 2,94 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 13,70 | kW |
| Nominal absorbed power | <i>DC</i> | 3,44 | kW |
| Declared COP | <i>COPC</i> | 3,98 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 14,99 | kW |
| Nominal absorbed power | <i>DA</i> | 2,86 | kW |
| Declared COP | <i>COPD</i> | 5,24 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 9,32 | kW |
| Nominal absorbed power | <i>D3</i> | 5,93 | kW |
| Declared COP | <i>COP3</i> | 1,57 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC2.35 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 21596 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,61 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 12,68 | kW |
| Nominal absorbed power | <i>DA</i> | 5,66 | kW |
| Nominal COP | <i>COPA</i> | 2,24 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 13,95 | kW |
| Nominal absorbed power | <i>DB</i> | 4,94 | kW |
| Declared COP | <i>COPB</i> | 2,82 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 15,69 | kW |
| Nominal absorbed power | <i>DC</i> | 4,07 | kW |
| Declared COP | <i>COPC</i> | 3,85 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 17,33 | kW |
| Nominal absorbed power | <i>DA</i> | 3,37 | kW |
| Declared COP | <i>COPD</i> | 5,14 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 10,60 | kW |
| Nominal absorbed power | <i>D3</i> | 7,00 | kW |
| Declared COP | <i>COP3</i> | 1,51 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.40 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 22899 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,91 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PA</i> | 5,88 | kW |
| Nominal absorbed power | <i>DA</i> | 4,70 | kW |
| Nominal COP | <i>COPA</i> | 1,25 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PB</i> | 6,38 | kW |
| Nominal absorbed power | <i>DB</i> | 4,19 | kW |
| Declared COP | <i>COPB</i> | 1,52 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PC</i> | 7,09 | kW |
| Nominal absorbed power | <i>DC</i> | 3,60 | kW |
| Declared COP | <i>COPC</i> | 1,97 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|-------------|----|
| Nominal cooling capacity | <i>PD</i> | 7,78 | kW |
| Nominal absorbed power | <i>DA</i> | 3,14 | kW |
| Declared COP | <i>COPD</i> | 2,48 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 5,08 | kW |
| Nominal absorbed power | <i>D3</i> | 5,69 | kW |
| Declared COP | <i>COP3</i> | 0,89 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.40 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 25148 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,58 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 14,64 | kW |
| Nominal absorbed power | <i>DA</i> | 6,56 | kW |
| Nominal COP | <i>COPA</i> | 2,23 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 16,15 | kW |
| Nominal absorbed power | <i>DB</i> | 5,73 | kW |
| Declared COP | <i>COPB</i> | 2,82 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 18,20 | kW |
| Nominal absorbed power | <i>DC</i> | 4,75 | kW |
| Declared COP | <i>COPC</i> | 3,83 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 20,09 | kW |
| Nominal absorbed power | <i>DA</i> | 3,97 | kW |
| Declared COP | <i>COPD</i> | 5,06 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 12,15 | kW |
| Nominal absorbed power | <i>D3</i> | 8,12 | kW |
| Declared COP | <i>COP3</i> | 1,50 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.41 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 24271 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,57 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 14,11 | kW |
| Nominal absorbed power | <i>DA</i> | 6,40 | kW |
| Nominal COP | <i>COPA</i> | 2,20 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 15,47 | kW |
| Nominal absorbed power | <i>DB</i> | 5,57 | kW |
| Declared COP | <i>COPB</i> | 2,78 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 17,32 | kW |
| Nominal absorbed power | <i>DC</i> | 4,56 | kW |
| Declared COP | <i>COPC</i> | 3,80 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 19,08 | kW |
| Nominal absorbed power | <i>DA</i> | 3,74 | kW |
| Declared COP | <i>COPD</i> | 5,11 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 11,87 | kW |
| Nominal absorbed power | <i>D3</i> | 7,95 | kW |
| Declared COP | <i>COP3</i> | 1,49 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC2.50 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 29455 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,81 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PA</i> | 7,17 | kW |
| Nominal absorbed power | <i>DA</i> | 6,08 | kW |
| Nominal COP | <i>COPA</i> | 1,18 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PB</i> | 7,80 | kW |
| Nominal absorbed power | <i>DB</i> | 5,42 | kW |
| Declared COP | <i>COPB</i> | 1,44 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PC</i> | 8,65 | kW |
| Nominal absorbed power | <i>DC</i> | 4,64 | kW |
| Declared COP | <i>COPC</i> | 1,86 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|-------------|----|
| Nominal cooling capacity | <i>PD</i> | 9,44 | kW |
| Nominal absorbed power | <i>DA</i> | 4,00 | kW |
| Declared COP | <i>COPD</i> | 2,36 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 6,15 | kW |
| Nominal absorbed power | <i>D3</i> | 7,32 | kW |
| Declared COP | <i>COP3</i> | 0,84 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC2.50 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 32802 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,29 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 17,54 | kW |
| Nominal absorbed power | <i>DA</i> | 8,53 | kW |
| Nominal COP | <i>COPA</i> | 2,05 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 19,37 | kW |
| Nominal absorbed power | <i>DB</i> | 7,52 | kW |
| Declared COP | <i>COPB</i> | 2,58 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 21,86 | kW |
| Nominal absorbed power | <i>DC</i> | 6,25 | kW |
| Declared COP | <i>COPC</i> | 3,50 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 24,20 | kW |
| Nominal absorbed power | <i>DA</i> | 5,16 | kW |
| Declared COP | <i>COPD</i> | 4,69 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 14,59 | kW |
| Nominal absorbed power | <i>D3</i> | 10,32 | kW |
| Declared COP | <i>COP3</i> | 1,41 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.60 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 34257 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,83 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PA</i> | 8,43 | kW |
| Nominal absorbed power | <i>DA</i> | 7,15 | kW |
| Nominal COP | <i>COPA</i> | 1,18 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PB</i> | 9,22 | kW |
| Nominal absorbed power | <i>DB</i> | 6,23 | kW |
| Declared COP | <i>COPB</i> | 1,48 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 10,24 | kW |
| Nominal absorbed power | <i>DC</i> | 5,34 | kW |
| Declared COP | <i>COPC</i> | 1,92 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 11,16 | kW |
| Nominal absorbed power | <i>DA</i> | 4,79 | kW |
| Declared COP | <i>COPD</i> | 2,33 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 3,42 | kW |
| Nominal absorbed power | <i>D3</i> | 16,40 | kW |
| Declared COP | <i>COP3</i> | 0,21 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.60 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 35791 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,60 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 20,94 | kW |
| Nominal absorbed power | <i>DA</i> | 9,54 | kW |
| Nominal COP | <i>COPA</i> | 2,20 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 23,15 | kW |
| Nominal absorbed power | <i>DB</i> | 8,36 | kW |
| Declared COP | <i>COPB</i> | 2,77 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 26,24 | kW |
| Nominal absorbed power | <i>DC</i> | 6,87 | kW |
| Declared COP | <i>COPC</i> | 3,82 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 29,25 | kW |
| Nominal absorbed power | <i>DA</i> | 5,61 | kW |
| Declared COP | <i>COPD</i> | 5,22 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 17,44 | kW |
| Nominal absorbed power | <i>D3</i> | 11,61 | kW |
| Declared COP | <i>COP3</i> | 1,50 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC2.70 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 47586 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,13 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 24,25 | kW |
| Nominal absorbed power | <i>DA</i> | 11,77 | kW |
| Nominal COP | <i>COPA</i> | 2,06 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 26,75 | kW |
| Nominal absorbed power | <i>DB</i> | 10,41 | kW |
| Declared COP | <i>COPB</i> | 2,57 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 29,90 | kW |
| Nominal absorbed power | <i>DC</i> | 8,84 | kW |
| Declared COP | <i>COPC</i> | 3,38 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 32,54 | kW |
| Nominal absorbed power | <i>DA</i> | 7,62 | kW |
| Declared COP | <i>COPD</i> | 4,27 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 19,86 | kW |
| Nominal absorbed power | <i>D3</i> | 14,34 | kW |
| Declared COP | <i>COP3</i> | 1,38 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
|---------------------|--------------------------------------|--|--|

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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.71 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 34728 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,85 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 10,47 | kW |
| Nominal absorbed power | <i>DA</i> | 7,82 | kW |
| Nominal COP | <i>COPA</i> | 1,34 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 11,39 | kW |
| Nominal absorbed power | <i>DB</i> | 7,16 | kW |
| Declared COP | <i>COPB</i> | 1,59 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 12,64 | kW |
| Nominal absorbed power | <i>DC</i> | 6,36 | kW |
| Declared COP | <i>COPC</i> | 1,99 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 13,82 | kW |
| Nominal absorbed power | <i>DA</i> | 5,63 | kW |
| Declared COP | <i>COPD</i> | 2,45 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 8,96 | kW |
| Nominal absorbed power | <i>D3</i> | 9,07 | kW |
| Declared COP | <i>COP3</i> | 0,99 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.71 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 45218 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,24 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 23,81 | kW |
| Nominal absorbed power | <i>DA</i> | 11,31 | kW |
| Nominal COP | <i>COPA</i> | 2,11 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 26,13 | kW |
| Nominal absorbed power | <i>DB</i> | 9,97 | kW |
| Declared COP | <i>COPB</i> | 2,62 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 29,17 | kW |
| Nominal absorbed power | <i>DC</i> | 8,39 | kW |
| Declared COP | <i>COPC</i> | 3,48 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 31,82 | kW |
| Nominal absorbed power | <i>DA</i> | 7,15 | kW |
| Declared COP | <i>COPD</i> | 4,45 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 19,87 | kW |
| Nominal absorbed power | <i>D3</i> | 13,82 | kW |
| Declared COP | <i>COP3</i> | 1,44 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC2.75 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 45452 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,75 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 10,68 | kW |
| Nominal absorbed power | <i>DA</i> | 9,08 | kW |
| Nominal COP | <i>COPA</i> | 1,18 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 11,51 | kW |
| Nominal absorbed power | <i>DB</i> | 8,19 | kW |
| Declared COP | <i>COPB</i> | 1,41 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 12,56 | kW |
| Nominal absorbed power | <i>DC</i> | 7,03 | kW |
| Declared COP | <i>COPC</i> | 1,79 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 13,55 | kW |
| Nominal absorbed power | <i>DA</i> | 6,04 | kW |
| Declared COP | <i>COPD</i> | 2,24 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 9,13 | kW |
| Nominal absorbed power | <i>D3</i> | 10,56 | kW |
| Declared COP | <i>COP3</i> | 0,86 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|-------------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC2.80 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 50177 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,42 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 27,92 | kW |
| Nominal absorbed power | <i>DA</i> | 12,50 | kW |
| Nominal COP | <i>COPA</i> | 2,23 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 30,73 | kW |
| Nominal absorbed power | <i>DB</i> | 11,04 | kW |
| Declared COP | <i>COPB</i> | 2,78 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 34,34 | kW |
| Nominal absorbed power | <i>DC</i> | 9,33 | kW |
| Declared COP | <i>COPC</i> | 3,68 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 37,45 | kW |
| Nominal absorbed power | <i>DA</i> | 7,98 | kW |
| Declared COP | <i>COPD</i> | 4,70 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 23,11 | kW |
| Nominal absorbed power | <i>D3</i> | 15,25 | kW |
| Declared COP | <i>COP3</i> | 1,52 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.81 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 46803 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,81 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 13,81 | kW |
| Nominal absorbed power | <i>DA</i> | 10,61 | kW |
| Nominal COP | <i>COPA</i> | 1,30 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 15,03 | kW |
| Nominal absorbed power | <i>DB</i> | 9,68 | kW |
| Declared COP | <i>COPB</i> | 1,55 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 16,66 | kW |
| Nominal absorbed power | <i>DC</i> | 8,52 | kW |
| Declared COP | <i>COPC</i> | 1,95 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 18,13 | kW |
| Nominal absorbed power | <i>DA</i> | 7,56 | kW |
| Declared COP | <i>COPD</i> | 2,40 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 11,81 | kW |
| Nominal absorbed power | <i>D3</i> | 12,32 | kW |
| Declared COP | <i>COP3</i> | 0,96 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.81 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 50037 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,40 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 27,66 | kW |
| Nominal absorbed power | <i>DA</i> | 11,75 | kW |
| Nominal COP | <i>COPA</i> | 2,35 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 30,20 | kW |
| Nominal absorbed power | <i>DB</i> | 10,61 | kW |
| Declared COP | <i>COPB</i> | 2,85 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 33,63 | kW |
| Nominal absorbed power | <i>DC</i> | 9,21 | kW |
| Declared COP | <i>COPC</i> | 3,65 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 36,95 | kW |
| Nominal absorbed power | <i>DA</i> | 8,08 | kW |
| Declared COP | <i>COPD</i> | 4,57 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 23,40 | kW |
| Nominal absorbed power | <i>D3</i> | 13,77 | kW |
| Declared COP | <i>COP3</i> | 1,70 | |

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|---------------------|--------------------------------------|--|--|
| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC2.90 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 58168 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,27 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 30,98 | kW |
| Nominal absorbed power | <i>DA</i> | 14,31 | kW |
| Nominal COP | <i>COPA</i> | 2,16 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 34,03 | kW |
| Nominal absorbed power | <i>DB</i> | 12,71 | kW |
| Declared COP | <i>COPB</i> | 2,68 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 38,08 | kW |
| Nominal absorbed power | <i>DC</i> | 10,82 | kW |
| Declared COP | <i>COPC</i> | 3,52 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 41,73 | kW |
| Nominal absorbed power | <i>DA</i> | 9,32 | kW |
| Declared COP | <i>COPD</i> | 4,48 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 25,85 | kW |
| Nominal absorbed power | <i>D3</i> | 17,37 | kW |
| Declared COP | <i>COP3</i> | 1,49 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|---------------------------|
| Model | ECU Air SC2.105 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 61242 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,76 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 14,46 | kW |
| Nominal absorbed power | <i>DA</i> | 12,03 | kW |
| Nominal COP | <i>COPA</i> | 1,20 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 15,75 | kW |
| Nominal absorbed power | <i>DB</i> | 10,94 | kW |
| Declared COP | <i>COPB</i> | 1,44 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 17,41 | kW |
| Nominal absorbed power | <i>DC</i> | 9,58 | kW |
| Declared COP | <i>COPC</i> | 1,82 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 18,79 | kW |
| Nominal absorbed power | <i>DA</i> | 8,44 | kW |
| Declared COP | <i>COPD</i> | 2,23 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 12,28 | kW |
| Nominal absorbed power | <i>D3</i> | 13,97 | kW |
| Declared COP | <i>COP3</i> | 0,88 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC3.25 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 23096 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,38 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 12,69 | kW |
| Nominal absorbed power | <i>DA</i> | 6,03 | kW |
| Nominal COP | <i>COPA</i> | 2,10 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 13,94 | kW |
| Nominal absorbed power | <i>DB</i> | 5,26 | kW |
| Declared COP | <i>COPB</i> | 2,65 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 15,63 | kW |
| Nominal absorbed power | <i>DC</i> | 4,34 | kW |
| Declared COP | <i>COPC</i> | 3,60 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 17,20 | kW |
| Nominal absorbed power | <i>DA</i> | 3,59 | kW |
| Declared COP | <i>COPD</i> | 4,79 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 10,64 | kW |
| Nominal absorbed power | <i>D3</i> | 7,46 | kW |
| Declared COP | <i>COP3</i> | 1,42 | |

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|---------------------|--------------------------------------|--|--|
| Control of capacity | <i>fixed/ progressive / variable</i> | | |
|---------------------|--------------------------------------|--|--|

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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC3.30 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 26754 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,71 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PA</i> | 6,14 | kW |
| Nominal absorbed power | <i>DA</i> | 5,36 | kW |
| Nominal COP | <i>COPA</i> | 1,15 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PB</i> | 6,62 | kW |
| Nominal absorbed power | <i>DB</i> | 4,78 | kW |
| Declared COP | <i>COPB</i> | 1,38 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PC</i> | 7,26 | kW |
| Nominal absorbed power | <i>DC</i> | 4,12 | kW |
| Declared COP | <i>COPC</i> | 1,76 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|-------------|----|
| Nominal cooling capacity | <i>PD</i> | 7,89 | kW |
| Nominal absorbed power | <i>DA</i> | 3,61 | kW |
| Declared COP | <i>COPD</i> | 2,18 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 3,28 | kW |
| Nominal absorbed power | <i>D3</i> | 9,54 | kW |
| Declared COP | <i>COP3</i> | 0,34 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC3.30 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 25755 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 4,05 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 16,97 | kW |
| Nominal absorbed power | <i>DA</i> | 6,84 | kW |
| Nominal COP | <i>COPA</i> | 2,48 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 18,64 | kW |
| Nominal absorbed power | <i>DB</i> | 5,92 | kW |
| Declared COP | <i>COPB</i> | 3,15 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 20,84 | kW |
| Nominal absorbed power | <i>DC</i> | 4,83 | kW |
| Declared COP | <i>COPC</i> | 4,32 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 22,81 | kW |
| Nominal absorbed power | <i>DA</i> | 3,95 | kW |
| Declared COP | <i>COPD</i> | 5,77 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 14,18 | kW |
| Nominal absorbed power | <i>D3</i> | 8,57 | kW |
| Declared COP | <i>COP3</i> | 1,66 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC3.35 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 33368 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,71 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PA</i> | 7,68 | kW |
| Nominal absorbed power | <i>DA</i> | 6,55 | kW |
| Nominal COP | <i>COPA</i> | 1,17 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PB</i> | 8,27 | kW |
| Nominal absorbed power | <i>DB</i> | 5,90 | kW |
| Declared COP | <i>COPB</i> | 1,40 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>PC</i> | 9,03 | kW |
| Nominal absorbed power | <i>DC</i> | 5,12 | kW |
| Declared COP | <i>COPC</i> | 1,76 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|-------------|----|
| Nominal cooling capacity | <i>PD</i> | 9,74 | kW |
| Nominal absorbed power | <i>DA</i> | 4,50 | kW |
| Declared COP | <i>COPD</i> | 2,17 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|-------------|----|
| Nominal cooling capacity | <i>P3</i> | 6,61 | kW |
| Nominal absorbed power | <i>D3</i> | 7,74 | kW |
| Declared COP | <i>COP3</i> | 0,85 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC3.35 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 34387 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,20 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 17,90 | kW |
| Nominal absorbed power | <i>DA</i> | 8,98 | kW |
| Nominal COP | <i>COPA</i> | 1,99 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 19,75 | kW |
| Nominal absorbed power | <i>DB</i> | 7,87 | kW |
| Declared COP | <i>COPB</i> | 2,51 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 22,26 | kW |
| Nominal absorbed power | <i>DC</i> | 6,52 | kW |
| Declared COP | <i>COPC</i> | 3,42 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 24,63 | kW |
| Nominal absorbed power | <i>DA</i> | 5,42 | kW |
| Declared COP | <i>COPD</i> | 4,55 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 14,91 | kW |
| Nominal absorbed power | <i>D3</i> | 11,00 | kW |
| Declared COP | <i>COP3</i> | 1,36 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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|--|------------|-------------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|-------------|--|

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|---------------------|--------------------------|
| Model | ECU Air SC3.40 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|-------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 34094 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,89 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|------|----|
| Nominal cooling capacity | <i>PA</i> | 8,62 | kW |
| Nominal absorbed power | <i>DA</i> | 7,07 | kW |
| Nominal COP | <i>COPA</i> | 1,22 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|------|----|
| Nominal cooling capacity | <i>PB</i> | 9,36 | kW |
| Nominal absorbed power | <i>DB</i> | 6,29 | kW |
| Declared COP | <i>COPB</i> | 1,49 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|-------|----|
| Nominal cooling capacity | <i>PC</i> | 10,40 | kW |
| Nominal absorbed power | <i>DC</i> | 5,37 | kW |
| Declared COP | <i>COPC</i> | 1,94 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|-------|----|
| Nominal cooling capacity | <i>PD</i> | 11,42 | kW |
| Nominal absorbed power | <i>DA</i> | 4,66 | kW |
| Declared COP | <i>COPD</i> | 2,45 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|------|----|
| Nominal cooling capacity | <i>P3</i> | 7,45 | kW |
| Nominal absorbed power | <i>D3</i> | 8,59 | kW |
| Declared COP | <i>COP3</i> | 0,87 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
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|---------------------|--------------------------|
| Model | ECU Air SC3.40 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 37718 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,49 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 21,40 | kW |
| Nominal absorbed power | <i>DA</i> | 9,97 | kW |
| Nominal COP | <i>COPA</i> | 2,15 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 23,65 | kW |
| Nominal absorbed power | <i>DB</i> | 8,70 | kW |
| Declared COP | <i>COPB</i> | 2,72 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 26,74 | kW |
| Nominal absorbed power | <i>DC</i> | 7,18 | kW |
| Declared COP | <i>COPC</i> | 3,72 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 29,62 | kW |
| Nominal absorbed power | <i>DA</i> | 5,95 | kW |
| Declared COP | <i>COPD</i> | 4,98 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 17,72 | kW |
| Nominal absorbed power | <i>D3</i> | 12,33 | kW |
| Declared COP | <i>COP3</i> | 1,44 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
|---------------------|--------------------------------------|--|--|

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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

| TECHNICAL DOCUMENTATION | | STATE REVISION OF THE CHAPTER | | | | IN CONFORMITY WITH THE APPROVED ORIGINAL |  | |
|-------------------------|------------------|-------------------------------|------|------|------|--|--|----------|
| PRODUCT | ECU AIR CS R404a | ORD. | DATE | ORD. | DATE | | | |
| N° DOC. | IM000109 | A | | D | | | FIRST ISSUE | 01.07.17 |
| N° CHAP. | | B | | E | | | ISSUE | MKTG |
| | | C | | F | | | | |

| | |
|---------------------|--------------------------|
| Model | ECU Air SC3.41 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 36443 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,49 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 20,68 | kW |
| Nominal absorbed power | <i>DA</i> | 9,72 | kW |
| Nominal COP | <i>COPA</i> | 2,13 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 22,71 | kW |
| Nominal absorbed power | <i>DB</i> | 8,44 | kW |
| Declared COP | <i>COPB</i> | 2,69 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 25,49 | kW |
| Nominal absorbed power | <i>DC</i> | 6,88 | kW |
| Declared COP | <i>COPC</i> | 3,71 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 28,16 | kW |
| Nominal absorbed power | <i>DA</i> | 5,60 | kW |
| Declared COP | <i>COPD</i> | 5,03 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 17,35 | kW |
| Nominal absorbed power | <i>D3</i> | 12,06 | kW |
| Declared COP | <i>COP3</i> | 1,44 | |

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|---------------------|--------------------------------------|--|--|
| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

| TECHNICAL DOCUMENTATION | | STATE REVISION OF THE CHAPTER | | | | IN CONFORMITY WITH THE APPROVED ORIGINAL |  | |
|-------------------------|-------------------------|-------------------------------|------|----------|------|--|--|-----------------|
| PRODUCT | ECU AIR CS R404a | ORD. | DATE | ORD. | DATE | | | |
| N° DOC. | IM000109 | A | | D | | | FIRST ISSUE | 01.07.17 |
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|---------------------|--------------------------|
| Model | ECU Air SC3.50 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 43352 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,83 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 10,65 | kW |
| Nominal absorbed power | <i>DA</i> | 9,03 | kW |
| Nominal COP | <i>COPA</i> | 1,18 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 11,58 | kW |
| Nominal absorbed power | <i>DB</i> | 8,04 | kW |
| Declared COP | <i>COPB</i> | 1,44 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 12,86 | kW |
| Nominal absorbed power | <i>DC</i> | 6,85 | kW |
| Declared COP | <i>COPC</i> | 1,88 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 14,06 | kW |
| Nominal absorbed power | <i>DA</i> | 5,88 | kW |
| Declared COP | <i>COPD</i> | 2,39 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 9,13 | kW |
| Nominal absorbed power | <i>D3</i> | 10,91 | kW |
| Declared COP | <i>COP3</i> | 0,84 | |

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|---------------------|--------------------------------------|--|--|
| Control of capacity | <i>fixed/ progressive / variable</i> | | |
|---------------------|--------------------------------------|--|--|

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|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

| TECHNICAL DOCUMENTATION | | STATE REVISION OF THE CHAPTER | | | | IN CONFORMITY WITH THE APPROVED ORIGINAL |  | |
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| | |
|---------------------|--------------------------|
| Model | ECU Air SC3.50 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 53083 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 2,97 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 25,69 | kW |
| Nominal absorbed power | <i>DA</i> | 13,16 | kW |
| Nominal COP | <i>COPA</i> | 1,95 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 28,25 | kW |
| Nominal absorbed power | <i>DB</i> | 11,71 | kW |
| Declared COP | <i>COPB</i> | 2,41 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 31,67 | kW |
| Nominal absorbed power | <i>DC</i> | 9,92 | kW |
| Declared COP | <i>COPC</i> | 3,19 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 34,74 | kW |
| Nominal absorbed power | <i>DA</i> | 8,45 | kW |
| Declared COP | <i>COPD</i> | 4,11 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 21,47 | kW |
| Nominal absorbed power | <i>D3</i> | 15,75 | kW |
| Declared COP | <i>COP3</i> | 1,36 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|

| TECHNICAL DOCUMENTATION | | STATE REVISION OF THE CHAPTER | | | | IN CONFORMITY WITH THE APPROVED ORIGINAL |  | |
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|---------------------|--------------------------|
| Model | ECU Air SC3.60 LT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 52179 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 1,80 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 12,57 | kW |
| Nominal absorbed power | <i>DA</i> | 10,82 | kW |
| Nominal COP | <i>COPA</i> | 1,16 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 13,74 | kW |
| Nominal absorbed power | <i>DB</i> | 9,44 | kW |
| Declared COP | <i>COPB</i> | 1,46 | |


| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 15,23 | kW |
| Nominal absorbed power | <i>DC</i> | 8,11 | kW |
| Declared COP | <i>COPC</i> | 1,88 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 16,55 | kW |
| Nominal absorbed power | <i>DA</i> | 7,29 | kW |
| Declared COP | <i>COPD</i> | 2,27 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 5,13 | kW |
| Nominal absorbed power | <i>D3</i> | 24,61 | kW |
| Declared COP | <i>COP3</i> | 0,21 | |

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| Control of capacity | <i>fixed/ progressive / variable</i> | | |
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|--|------------|-------------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|-------------|--|

| TECHNICAL DOCUMENTATION | | STATE REVISION OF THE CHAPTER | | | | IN CONFORMITY WITH THE APPROVED ORIGINAL |  | |
|-------------------------|-------------------------|-------------------------------|------|----------|------|--|--|-----------------|
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| | |
|---------------------|--------------------------|
| Model | ECU Air SC3.60 MT |
| Refrigerating Fluid | R404a |

| Element | Symbol | Value | Unit |
|--|-------------|--------------|-------|
| Evaporation temperature | <i>t</i> | -10°C | °C |
| Annual consumption of electrical energy | <i>Q</i> | 56201 | kWh/a |
| Seasonal energy efficiency ratio | <i>SEPR</i> | 3,39 | |

| Parameters at full load and at a room temperature of 32°C (Point A) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PA</i> | 30,96 | kW |
| Nominal absorbed power | <i>DA</i> | 14,56 | kW |
| Nominal COP | <i>COPA</i> | 2,13 | |

| Parameters at full load and at a room temperature of 25°C (Point B) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PB</i> | 34,14 | kW |
| Nominal absorbed power | <i>DB</i> | 12,84 | kW |
| Declared COP | <i>COPB</i> | 2,66 | |

| Parameters at full load and at a room temperature of 15°C (Point C) | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>PC</i> | 38,55 | kW |
| Nominal absorbed power | <i>DC</i> | 10,68 | kW |
| Declared COP | <i>COPC</i> | 3,61 | |

| Parameters at full load and at a room temperature of 5°C (Point D) | | | |
|---|--------------------|--------------|----|
| Nominal cooling capacity | <i>PD</i> | 42,72 | kW |
| Nominal absorbed power | <i>DA</i> | 8,87 | kW |
| Declared COP | <i>COPD</i> | 4,82 | |

| Parameters at full load and at a room temperature of 43°C | | | |
|--|--------------------|--------------|----|
| Nominal cooling capacity | <i>P3</i> | 25,85 | kW |
| Nominal absorbed power | <i>D3</i> | 17,61 | kW |
| Declared COP | <i>COP3</i> | 1,47 | |

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|---------------------|--------------------------------------|--|--|
| Control of capacity | <i>fixed/ progressive / variable</i> | | |
|---------------------|--------------------------------------|--|--|

| | | | |
|--|------------|------|--|
| Degradation coefficient of the units with a fixed and progressive capacity | <i>Cdc</i> | 0,25 | |
|--|------------|------|--|



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