

# **MISAMETIC REFREEX BT BITZER R404a**

**ENERGY EFFICIENCY  
DATA SHEETS**

Model	<b>MISAMETIC REFREEX-GN18R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>x</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>1,49</b>	kW
Nominal absorbed power	$D_A$	<b>1,32</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,13</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>1,62</b>	kW
Nominal absorbed power	$D_B$	<b>1,29</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,25</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>x</b>	kW
Nominal absorbed power	$D_C$	<b>x</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>x</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>x</b>	kW
Nominal absorbed power	$D_A$	<b>x</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>x</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>1,13</b>	kW
Nominal absorbed power	$D_3$	<b>1,34</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>0,84</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN28R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,81</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>2,22</b>	kW
Nominal absorbed power	$D_A$	<b>1,73</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,28</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>2,65</b>	kW
Nominal absorbed power	$D_B$	<b>1,70</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,56</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>3,10</b>	kW
Nominal absorbed power	$D_C$	<b>1,63</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,91</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>3,53</b>	kW
Nominal absorbed power	$D_A$	<b>1,50</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,35</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>1,79</b>	kW
Nominal absorbed power	$D_3$	<b>1,70</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,05</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN40R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,82</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>2,93</b>	kW
Nominal absorbed power	$D_A$	<b>2,19</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,34</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>3,31</b>	kW
Nominal absorbed power	$D_B$	<b>2,14</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,55</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>3,85</b>	kW
Nominal absorbed power	$D_C$	<b>2,02</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,90</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>4,34</b>	kW
Nominal absorbed power	$D_A$	<b>1,86</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,33</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>2,29</b>	kW
Nominal absorbed power	$D_3$	<b>2,20</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,04</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN41R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,75</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>3,14</b>	kW
Nominal absorbed power	$D_A$	<b>2,42</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,30</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>3,52</b>	kW
Nominal absorbed power	$D_B$	<b>2,35</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,50</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>4,03</b>	kW
Nominal absorbed power	$D_C$	<b>2,21</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,82</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>4,47</b>	kW
Nominal absorbed power	$D_A$	<b>2,00</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,23</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>2,52</b>	kW
Nominal absorbed power	$D_3$	<b>2,45</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,03</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN50R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,77</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>3,99</b>	kW
Nominal absorbed power	$D_A$	<b>3,05</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,31</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>4,48</b>	kW
Nominal absorbed power	$D_B$	<b>2,97</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,51</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>5,16</b>	kW
Nominal absorbed power	$D_C$	<b>2,80</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,84</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>5,79</b>	kW
Nominal absorbed power	$D_A$	<b>2,56</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,26</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>3,19</b>	kW
Nominal absorbed power	$D_3$	<b>3,10</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,03</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN75R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,70</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>5,34</b>	kW
Nominal absorbed power	$D_A$	<b>4,11</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,30</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>6,19</b>	kW
Nominal absorbed power	$D_B$	<b>4,10</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,51</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>7,45</b>	kW
Nominal absorbed power	$D_C$	<b>4,09</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,82</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>8,80</b>	kW
Nominal absorbed power	$D_A$	<b>4,07</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,16</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>4,08</b>	kW
Nominal absorbed power	$D_3$	<b>4,08</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,00</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN76R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,81</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>6,91</b>	kW
Nominal absorbed power	$D_A$	<b>5,04</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,37</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>7,91</b>	kW
Nominal absorbed power	$D_B$	<b>5,00</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,58</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>9,38</b>	kW
Nominal absorbed power	$D_C$	<b>4,89</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,92</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>10,92</b>	kW
Nominal absorbed power	$D_A$	<b>4,75</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,30</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>5,37</b>	kW
Nominal absorbed power	$D_3$	<b>5,07</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,06</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN100R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,68</b>	

**Parameters at full load and at a room temperature of 32°C  
(Point A)**

Nominal cooling capacity	$P_A$	<b>7,59</b>	kW
Nominal absorbed power	$D_A$	<b>6,02</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,26</b>	

**Parameters at full load and at a room temperature of 25°C  
(Point B)**

Nominal cooling capacity	$P_B$	<b>8,82</b>	kW
Nominal absorbed power	$D_B$	<b>6,04</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,46</b>	

**Parameters at full load and at a room temperature of 15°C  
(Point C)**

Nominal cooling capacity	$P_C$	<b>10,60</b>	kW
Nominal absorbed power	$D_C$	<b>5,95</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,78</b>	

**Parameters at full load and at a room temperature of 5°C  
(Point D)**

Nominal cooling capacity	$P_D$	<b>12,40</b>	kW
Nominal absorbed power	$D_A$	<b>5,77</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,15</b>	

**Parameters at full load and at a room temperature of 43°C**

Nominal cooling capacity	$P_3$	<b>5,71</b>	kW
Nominal absorbed power	$D_3$	<b>5,83</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>0,98</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN150R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,71</b>	

**Parameters at full load and at a room temperature of 32°C  
(Point A)**

Nominal cooling capacity	$P_A$	<b>13,43</b>	kW
Nominal absorbed power	$D_A$	<b>10,58</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,27</b>	

**Parameters at full load and at a room temperature of 25°C  
(Point B)**

Nominal cooling capacity	$P_B$	<b>15,82</b>	kW
Nominal absorbed power	$D_B$	<b>10,84</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,46</b>	

**Parameters at full load and at a room temperature of 15°C  
(Point C)**

Nominal cooling capacity	$P_C$	<b>17,67</b>	kW
Nominal absorbed power	$D_C$	<b>10,04</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,76</b>	

**Parameters at full load and at a room temperature of 5°C  
(Point D)**

Nominal cooling capacity	$P_D$	<b>20,11</b>	kW
Nominal absorbed power	$D_A$	<b>9,48</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,12</b>	

**Parameters at full load and at a room temperature of 43°C**

Nominal cooling capacity	$P_3$	<b>10,71</b>	kW
Nominal absorbed power	$D_3$	<b>10,60</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,01</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN200R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,70</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>9,27</b>	kW
Nominal absorbed power	$D_A$	<b>7,30</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,27</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>10,62</b>	kW
Nominal absorbed power	$D_B$	<b>7,27</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,46</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>12,54</b>	kW
Nominal absorbed power	$D_C$	<b>7,04</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,78</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>14,39</b>	kW
Nominal absorbed power	$D_A$	<b>6,60</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,18</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>7,14</b>	kW
Nominal absorbed power	$D_3$	<b>7,14</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,00</b>	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	
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Model	<b>MISAMETIC REFREEX-GN300R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>1,72</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>15,91</b>	kW
Nominal absorbed power	$D_A$	<b>12,15</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,31</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>17,84</b>	kW
Nominal absorbed power	$D_B$	<b>11,89</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>1,50</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>20,55</b>	kW
Nominal absorbed power	$D_C$	<b>11,42</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>1,80</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>23,16</b>	kW
Nominal absorbed power	$D_A$	<b>10,67</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>2,17</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>12,89</b>	kW
Nominal absorbed power	$D_3$	<b>12,40</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,04</b>	

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