

# **MISAMETIC REFREEX TN BITZER R407F**

**ENERGY EFFICIENCY  
DATA SHEETS**

Model	<b>MISAMETIC REFREEX- GP05R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°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>2,08</b>	kW
Nominal absorbed power	$D_A$	<b>0,97</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,15</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>2,31</b>	kW
Nominal absorbed power	$D_B$	<b>0,92</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,51</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>1,73</b>	kW
Nominal absorbed power	$D_3$	<b>1,02</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,70</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- GP10R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°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>2,69</b>	kW
Nominal absorbed power	$D_A$	<b>1,27</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,12</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>2,96</b>	kW
Nominal absorbed power	$D_B$	<b>1,20</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,47</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>2,27</b>	kW
Nominal absorbed power	$D_3$	<b>1,36</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,67</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- GP15R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°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>	

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

Nominal cooling capacity	$P_A$	<b>3,39</b>	kW
Nominal absorbed power	$D_A$	<b>1,62</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,09</b>	

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

Nominal cooling capacity	$P_B$	<b>3,72</b>	kW
Nominal absorbed power	$D_B$	<b>1,53</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,43</b>	

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

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>	

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

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>	

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

Nominal cooling capacity	$P_3$	<b>2,88</b>	kW
Nominal absorbed power	$D_3$	<b>1,75</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,65</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- GP20R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°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>4,68</b>	kW
Nominal absorbed power	$D_A$	<b>2,35</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,99</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>5,30</b>	kW
Nominal absorbed power	$D_B$	<b>2,22</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,39</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>3,76</b>	kW
Nominal absorbed power	$D_3$	<b>2,57</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,46</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- GP25R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>2,95</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>5,55</b>	kW
Nominal absorbed power	$D_A$	<b>2,57</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,16</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>6,12</b>	kW
Nominal absorbed power	$D_B$	<b>2,44</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,51</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>6,94</b>	kW
Nominal absorbed power	$D_C$	<b>2,21</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,14</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>7,78</b>	kW
Nominal absorbed power	$D_A$	<b>1,94</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,02</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>4,68</b>	kW
Nominal absorbed power	$D_3$	<b>2,74</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,71</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- GP30R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>2,87</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>8,17</b>	kW
Nominal absorbed power	$D_A$	<b>3,93</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,08</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>8,98</b>	kW
Nominal absorbed power	$D_B$	<b>3,69</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,43</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>10,14</b>	kW
Nominal absorbed power	$D_C$	<b>3,32</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,05</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>11,31</b>	kW
Nominal absorbed power	$D_A$	<b>2,89</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>3,91</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>6,94</b>	kW
Nominal absorbed power	$D_3$	<b>4,21</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,65</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- GP40R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>3,00</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>9,12</b>	kW
Nominal absorbed power	$D_A$	<b>4,18</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,18</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>10,02</b>	kW
Nominal absorbed power	$D_B$	<b>3,93</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,55</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>11,32</b>	kW
Nominal absorbed power	$D_C$	<b>3,54</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,20</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>12,62</b>	kW
Nominal absorbed power	$D_A$	<b>3,11</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,06</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>7,74</b>	kW
Nominal absorbed power	$D_3$	<b>4,50</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,72</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- GP47R BITZER</b>
Refrigerating Fluid	<b>R404A</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>2,96</b>	

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

Nominal cooling capacity	$P_A$	<b>11,67</b>	kW
Nominal absorbed power	$D_A$	<b>5,43</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,15</b>	

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

Nominal cooling capacity	$P_B$	<b>12,83</b>	kW
Nominal absorbed power	$D_B$	<b>5,11</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,51</b>	

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

Nominal cooling capacity	$P_C$	<b>14,48</b>	kW
Nominal absorbed power	$D_C$	<b>4,58</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,16</b>	

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

Nominal cooling capacity	$P_D$	<b>16,12</b>	kW
Nominal absorbed power	$D_A$	<b>4,02</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,01</b>	

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

Nominal cooling capacity	$P_3$	<b>9,89</b>	kW
Nominal absorbed power	$D_3$	<b>5,85</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,69</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- GP50R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>3,25</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>13,77</b>	kW
Nominal absorbed power	$D_A$	<b>5,96</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,31</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>15,16</b>	kW
Nominal absorbed power	$D_B$	<b>5,59</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,71</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>17,15</b>	kW
Nominal absorbed power	$D_C$	<b>4,98</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,44</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>19,13</b>	kW
Nominal absorbed power	$D_A$	<b>4,28</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,47</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>11,65</b>	kW
Nominal absorbed power	$D_3$	<b>6,40</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,82</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- GP75R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>3,25</b>	

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

Nominal cooling capacity	$P_A$	<b>16,53</b>	kW
Nominal absorbed power	$D_A$	<b>7,55</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,19</b>	

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

Nominal cooling capacity	$P_B$	<b>18,14</b>	kW
Nominal absorbed power	$D_B$	<b>7,11</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,55</b>	

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

Nominal cooling capacity	$P_C$	<b>20,45</b>	kW
Nominal absorbed power	$D_C$	<b>6,41</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,19</b>	

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

Nominal cooling capacity	$P_D$	<b>22,78</b>	kW
Nominal absorbed power	$D_A$	<b>5,57</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,09</b>	

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

Nominal cooling capacity	$P_3$	<b>14,04</b>	kW
Nominal absorbed power	$D_3$	<b>8,12</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,73</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- GP100R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>3,25</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>20,87</b>	kW
Nominal absorbed power	$D_A$	<b>9,66</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,16</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>23,04</b>	kW
Nominal absorbed power	$D_B$	<b>9,14</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,52</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>26,18</b>	kW
Nominal absorbed power	$D_C$	<b>8,26</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,17</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>29,38</b>	kW
Nominal absorbed power	$D_A$	<b>7,22</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,07</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>17,55</b>	kW
Nominal absorbed power	$D_3$	<b>10,32</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,70</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- GP150R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>3,16</b>	

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

Nominal cooling capacity	$P_A$	<b>24,89</b>	kW
Nominal absorbed power	$D_A$	<b>10,97</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,27</b>	

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

Nominal cooling capacity	$P_B$	<b>27,61</b>	kW
Nominal absorbed power	$D_B$	<b>10,42</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,65</b>	

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

Nominal cooling capacity	$P_C$	<b>31,53</b>	kW
Nominal absorbed power	$D_C$	<b>9,38</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,36</b>	

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

Nominal cooling capacity	$P_D$	<b>35,49</b>	kW
Nominal absorbed power	$D_A$	<b>8,18</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,34</b>	

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

Nominal cooling capacity	$P_3$	<b>20,71</b>	kW
Nominal absorbed power	$D_3$	<b>11,63</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,78</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- GP200R BITZER</b>
Refrigerating Fluid	<b>R407F</b>

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	$t$	<b>-10°C</b>	°C
<b>Annual consumption of electrical energy</b>	$Q$	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	$SEPR$	<b>3,26</b>	

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

Nominal cooling capacity	$P_A$	<b>29,78</b>	kW
Nominal absorbed power	$D_A$	<b>12,89</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,31</b>	

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

Nominal cooling capacity	$P_B$	<b>32,89</b>	kW
Nominal absorbed power	$D_B$	<b>12,09</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,72</b>	

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

Nominal cooling capacity	$P_C$	<b>37,39</b>	kW
Nominal absorbed power	$D_C$	<b>10,81</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,46</b>	

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

Nominal cooling capacity	$P_D$	<b>41,94</b>	kW
Nominal absorbed power	$D_A$	<b>9,30</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,51</b>	

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

Nominal cooling capacity	$P_3$	<b>24,97</b>	kW
Nominal absorbed power	$D_3$	<b>13,80</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,81</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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