

# **MISAMETIC REFREEX TN BITZER R404a**

**ENERGY EFFICIENCY  
DATA SHEETS**

Model	<b>MISAMETIC REFREEX-GP05R 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>2,02</b>	kW
Nominal absorbed power	$D_A$	<b>0,97</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,09</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>0,91</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,53</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>1,60</b>	kW
Nominal absorbed power	$D_3$	<b>1,05</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,52</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>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>2,62</b>	kW
Nominal absorbed power	$D_A$	<b>1,29</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,03</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>1,22</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>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>2,10</b>	kW
Nominal absorbed power	$D_3$	<b>1,40</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,50</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>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>3,25</b>	kW
Nominal absorbed power	$D_A$	<b>1,67</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,95</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>3,67</b>	kW
Nominal absorbed power	$D_B$	<b>1,58</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,32</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>2,60</b>	kW
Nominal absorbed power	$D_3$	<b>1,78</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-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>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>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>5,77</b>	kW
Nominal absorbed power	$D_A$	<b>2,72</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>6,49</b>	kW
Nominal absorbed power	$D_B$	<b>2,58</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>7,49</b>	kW
Nominal absorbed power	$D_C$	<b>2,33</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,21</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>8,47</b>	kW
Nominal absorbed power	$D_A$	<b>2,05</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,14</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>4,62</b>	kW
Nominal absorbed power	$D_3$	<b>2,87</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,61</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>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>2,79</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>8,28</b>	kW
Nominal absorbed power	$D_A$	<b>4,18</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,98</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>9,28</b>	kW
Nominal absorbed power	$D_B$	<b>3,95</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,35</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>10,68</b>	kW
Nominal absorbed power	$D_C$	<b>3,58</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>2,98</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>12,03</b>	kW
Nominal absorbed power	$D_A$	<b>3,13</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>3,85</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>6,69</b>	kW
Nominal absorbed power	$D_3$	<b>4,43</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,51</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>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>3,04</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>9,34</b>	kW
Nominal absorbed power	$D_A$	<b>4,43</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,11</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>10,45</b>	kW
Nominal absorbed power	$D_B$	<b>4,16</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>11,99</b>	kW
Nominal absorbed power	$D_C$	<b>3,71</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,23</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>13,47</b>	kW
Nominal absorbed power	$D_A$	<b>3,18</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,24</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>7,57</b>	kW
Nominal absorbed power	$D_3$	<b>4,73</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,60</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>3,02</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>12,22</b>	kW
Nominal absorbed power	$D_A$	<b>5,82</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,10</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>13,62</b>	kW
Nominal absorbed power	$D_B$	<b>5,45</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,50</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>15,57</b>	kW
Nominal absorbed power	$D_C$	<b>4,84</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,22</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>17,45</b>	kW
Nominal absorbed power	$D_A$	<b>4,14</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,21</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>9,98</b>	kW
Nominal absorbed power	$D_3$	<b>6,28</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,59</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>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>3,26</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>14,55</b>	kW
Nominal absorbed power	$D_A$	<b>6,50</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,24</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>16,21</b>	kW
Nominal absorbed power	$D_B$	<b>6,07</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,67</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>18,56</b>	kW
Nominal absorbed power	$D_C$	<b>5,37</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,46</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>20,88</b>	kW
Nominal absorbed power	$D_A$	<b>4,55</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,59</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>11,92</b>	kW
Nominal absorbed power	$D_3$	<b>7,05</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-GP75R 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>2,99</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>17,38</b>	kW
Nominal absorbed power	$D_A$	<b>8,12</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,14</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>19,54</b>	kW
Nominal absorbed power	$D_B$	<b>7,72</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,53</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>22,73</b>	kW
Nominal absorbed power	$D_C$	<b>7,06</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,22</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>26,07</b>	kW
Nominal absorbed power	$D_A$	<b>6,36</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,10</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>14,10</b>	kW
Nominal absorbed power	$D_3$	<b>8,71</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,62</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>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>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>21,88</b>	kW
Nominal absorbed power	$D_A$	<b>10,32</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>24,51</b>	kW
Nominal absorbed power	$D_B$	<b>9,80</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,50</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>28,33</b>	kW
Nominal absorbed power	$D_C$	<b>8,91</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,18</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>32,24</b>	kW
Nominal absorbed power	$D_A$	<b>7,92</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>17,83</b>	kW
Nominal absorbed power	$D_3$	<b>11,14</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,60</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>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>3,20</b>	

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

Nominal cooling capacity	$P_A$	<b>26,48</b>	kW
Nominal absorbed power	$D_A$	<b>11,72</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,26</b>	

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

Nominal cooling capacity	$P_B$	<b>29,73</b>	kW
Nominal absorbed power	$D_B$	<b>11,09</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,68</b>	

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

Nominal cooling capacity	$P_C$	<b>34,37</b>	kW
Nominal absorbed power	$D_C$	<b>10,02</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,43</b>	

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

Nominal cooling capacity	$P_D$	<b>38,96</b>	kW
Nominal absorbed power	$D_A$	<b>8,77</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,44</b>	

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

Nominal cooling capacity	$P_3$	<b>21,40</b>	kW
Nominal absorbed power	$D_3$	<b>12,44</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-GP200R 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>3,14</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>30,79</b>	kW
Nominal absorbed power	$D_A$	<b>13,93</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,21</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>34,41</b>	kW
Nominal absorbed power	$D_B$	<b>13,18</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,61</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>39,48</b>	kW
Nominal absorbed power	$D_C$	<b>11,82</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,34</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>44,36</b>	kW
Nominal absorbed power	$D_A$	<b>10,18</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,36</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>25,03</b>	kW
Nominal absorbed power	$D_3$	<b>14,90</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,68</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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