

# **MISAMETIC REFREEX TN FRASCOLD R404a**

**ENERGY EFFICIENCY  
DATA SHEETS**

Model	<b>MISAMETIC REFREEX-GP05R FRASCOLI</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>2,45</b>	kW
Nominal absorbed power	$D_A$	<b>1,21</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,02</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>2,79</b>	kW
Nominal absorbed power	$D_B$	<b>1,15</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>1,92</b>	kW
Nominal absorbed power	$D_3$	<b>1,30</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,48</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 FRASCOLI</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>	

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

Nominal cooling capacity	$P_A$	<b>2,65</b>	kW
Nominal absorbed power	$D_A$	<b>1,29</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,05</b>	

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

Nominal cooling capacity	$P_B$	<b>3,00</b>	kW
Nominal absorbed power	$D_B$	<b>1,21</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,48</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>2,13</b>	kW
Nominal absorbed power	$D_3$	<b>1,41</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-GP15R FRASCOLI</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>	

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

Nominal cooling capacity	$P_A$	<b>3,50</b>	kW
Nominal absorbed power	$D_A$	<b>1,82</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,92</b>	

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

Nominal cooling capacity	$P_B$	<b>3,95</b>	kW
Nominal absorbed power	$D_B$	<b>1,72</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,29</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>2,81</b>	kW
Nominal absorbed power	$D_3$	<b>1,94</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,45</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 FRASCOLI</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>	

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

Nominal cooling capacity	$P_A$	<b>4,48</b>	kW
Nominal absorbed power	$D_A$	<b>2,27</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,97</b>	

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

Nominal cooling capacity	$P_B$	<b>5,02</b>	kW
Nominal absorbed power	$D_B$	<b>2,14</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,35</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>3,63</b>	kW
Nominal absorbed power	$D_3$	<b>2,45</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,48</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 FRASCOLI</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>	

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

Nominal cooling capacity	$P_A$	<b>4,90</b>	kW
Nominal absorbed power	$D_A$	<b>2,61</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,88</b>	

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

Nominal cooling capacity	$P_B$	<b>5,48</b>	kW
Nominal absorbed power	$D_B$	<b>2,47</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,22</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>4,03</b>	kW
Nominal absorbed power	$D_3$	<b>2,80</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,44</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 FRASCOLI</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>2,56</b>	

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

Nominal cooling capacity	$P_A$	<b>7,33</b>	kW
Nominal absorbed power	$D_A$	<b>4,07</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,80</b>	

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

Nominal cooling capacity	$P_B$	<b>8,20</b>	kW
Nominal absorbed power	$D_B$	<b>3,85</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,13</b>	

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

Nominal cooling capacity	$P_C$	<b>9,51</b>	kW
Nominal absorbed power	$D_C$	<b>3,51</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>2,71</b>	

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

Nominal cooling capacity	$P_D$	<b>10,92</b>	kW
Nominal absorbed power	$D_A$	<b>3,16</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>3,46</b>	

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

Nominal cooling capacity	$P_3$	<b>6,05</b>	kW
Nominal absorbed power	$D_3$	<b>4,42</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,37</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 FRASCOLI</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>2,70</b>	

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

Nominal cooling capacity	$P_A$	<b>9,26</b>	kW
Nominal absorbed power	$D_A$	<b>4,82</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>1,92</b>	

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

Nominal cooling capacity	$P_B$	<b>10,29</b>	kW
Nominal absorbed power	$D_B$	<b>4,51</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,28</b>	

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

Nominal cooling capacity	$P_C$	<b>11,77</b>	kW
Nominal absorbed power	$D_C$	<b>4,06</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>2,90</b>	

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

Nominal cooling capacity	$P_D$	<b>13,20</b>	kW
Nominal absorbed power	$D_A$	<b>3,58</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>3,69</b>	

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

Nominal cooling capacity	$P_3$	<b>7,66</b>	kW
Nominal absorbed power	$D_3$	<b>5,28</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,45</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 FRASCOLI</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>	

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

Nominal cooling capacity	$P_A$	<b>10,34</b>	kW
Nominal absorbed power	$D_A$	<b>4,90</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,11</b>	

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

Nominal cooling capacity	$P_B$	<b>11,43</b>	kW
Nominal absorbed power	$D_B$	<b>4,57</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,50</b>	

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

Nominal cooling capacity	$P_C$	<b>12,96</b>	kW
Nominal absorbed power	$D_C$	<b>4,06</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>14,43</b>	kW
Nominal absorbed power	$D_A$	<b>3,48</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,15</b>	

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

Nominal cooling capacity	$P_3$	<b>8,60</b>	kW
Nominal absorbed power	$D_3$	<b>5,34</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-GP50R FRASCOLI</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>3,35</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>12,37</b>	kW
Nominal absorbed power	$D_A$	<b>5,57</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,22</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>13,89</b>	kW
Nominal absorbed power	$D_B$	<b>5,18</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,68</b>	

<b>Parameters at full load and at a room temperature of 15°C (Point C)</b>			
Nominal cooling capacity	$P_C$	<b>16,13</b>	kW
Nominal absorbed power	$D_C$	<b>4,57</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,53</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>18,47</b>	kW
Nominal absorbed power	$D_A$	<b>3,81</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,85</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>10,05</b>	kW
Nominal absorbed power	$D_3$	<b>6,05</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,66</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 FRASCOLI</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>2,81</b>	

<b>Parameters at full load and at a room temperature of 32°C (Point A)</b>			
Nominal cooling capacity	$P_A$	<b>16,60</b>	kW
Nominal absorbed power	$D_A$	<b>8,14</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,04</b>	

<b>Parameters at full load and at a room temperature of 25°C (Point B)</b>			
Nominal cooling capacity	$P_B$	<b>18,53</b>	kW
Nominal absorbed power	$D_B$	<b>7,75</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>21,30</b>	kW
Nominal absorbed power	$D_C$	<b>7,10</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,00</b>	

<b>Parameters at full load and at a room temperature of 5°C (Point D)</b>			
Nominal cooling capacity	$P_D$	<b>24,10</b>	kW
Nominal absorbed power	$D_A$	<b>6,29</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>3,83</b>	

<b>Parameters at full load and at a room temperature of 43°C</b>			
Nominal cooling capacity	$P_3$	<b>13,58</b>	kW
Nominal absorbed power	$D_3$	<b>8,76</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,55</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 FRASCO</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>20,87</b>	kW
Nominal absorbed power	$D_A$	<b>9,80</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,13</b>	

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

Nominal cooling capacity	$P_B$	<b>23,42</b>	kW
Nominal absorbed power	$D_B$	<b>9,33</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>21,13</b>	kW
Nominal absorbed power	$D_C$	<b>6,64</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,18</b>	

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

Nominal cooling capacity	$P_D$	<b>30,89</b>	kW
Nominal absorbed power	$D_A$	<b>7,59</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,07</b>	

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

Nominal cooling capacity	$P_3$	<b>16,93</b>	kW
Nominal absorbed power	$D_3$	<b>10,33</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,64</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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EPTA S.p.A.  
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Model	<b>MISAMETIC REFREEX-GP150R FRASCO</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>3,09</b>	

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

Nominal cooling capacity	$P_A$	<b>28,69</b>	kW
Nominal absorbed power	$D_A$	<b>13,04</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,20</b>	

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

Nominal cooling capacity	$P_B$	<b>31,72</b>	kW
Nominal absorbed power	$D_B$	<b>12,20</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,60</b>	

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

Nominal cooling capacity	$P_C$	<b>35,98</b>	kW
Nominal absorbed power	$D_C$	<b>10,87</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,31</b>	

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

Nominal cooling capacity	$P_D$	<b>40,13</b>	kW
Nominal absorbed power	$D_A$	<b>9,53</b>	kW
<b>Declared COP</b>	<b><math>COP_D</math></b>	<b>4,21</b>	

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

Nominal cooling capacity	$P_3$	<b>23,88</b>	kW
Nominal absorbed power	$D_3$	<b>14,21</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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Model	<b>MISAMETIC REFREEX-GP200R FRASCO</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>	

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

Nominal cooling capacity	$P_A$	<b>30,91</b>	kW
Nominal absorbed power	$D_A$	<b>14,51</b>	kW
<b>Nominal COP</b>	<b><math>COP_A</math></b>	<b>2,13</b>	

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

Nominal cooling capacity	$P_B$	<b>34,17</b>	kW
Nominal absorbed power	$D_B$	<b>13,56</b>	kW
<b>Declared COP</b>	<b><math>COP_B</math></b>	<b>2,52</b>	

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

Nominal cooling capacity	$P_C$	<b>38,83</b>	kW
Nominal absorbed power	$D_C$	<b>12,13</b>	kW
<b>Declared COP</b>	<b><math>COP_C</math></b>	<b>3,20</b>	

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

Nominal cooling capacity	$P_D$	<b>43,52</b>	kW
Nominal absorbed power	$D_A$	<b>10,64</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>25,74</b>	kW
Nominal absorbed power	$D_3$	<b>15,70</b>	kW
<b>Declared COP</b>	<b><math>COP_3</math></b>	<b>1,64</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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