



MISAMETIC REFREEX BT FRASCOLD R407F

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISAMETIC- GN18 FRASCOLD		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	x	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>P_A</i>	1,30	kW
Nominal absorbed power	<i>D_A</i>	1,02	kW
Declared COP	<i>COP_A</i>	1,27	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>P_B</i>	1,47	kW
Nominal absorbed power	<i>D_B</i>	1,02	kW
Declared COP	<i>COP_B</i>	1,45	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>P_C</i>	x	kW
Nominal absorbed power	<i>D_C</i>	x	kW
Declared COP	<i>COP_C</i>	x	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>P_D</i>	x	kW
Nominal absorbed power	<i>D_A</i>	x	kW
Declared COP	<i>COP_D</i>	x	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P₃</i>	1,03	kW
Nominal absorbed power	<i>D₃</i>	1,03	kW
Declared COP	<i>COP₃</i>	1,00	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	MISAMETIC REFREEX- GN28R FRASCOI		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,74	

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

Nominal cooling capacity	<i>P_A</i>	2,07	kW
Nominal absorbed power	<i>D_A</i>	1,57	kW
Nominal COP	<i>COP_A</i>	1,32	

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

Nominal cooling capacity	<i>P_B</i>	2,39	kW
Nominal absorbed power	<i>D_B</i>	1,57	kW
Declared COP	<i>COP_B</i>	1,52	

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

Nominal cooling capacity	<i>P_C</i>	2,84	kW
Nominal absorbed power	<i>D_C</i>	1,53	kW
Declared COP	<i>COP_C</i>	1,85	

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

Nominal cooling capacity	<i>P_D</i>	3,28	kW
Nominal absorbed power	<i>D_A</i>	1,48	kW
Declared COP	<i>COP_D</i>	2,22	

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

Nominal cooling capacity	<i>P₃</i>	1,58	kW
Nominal absorbed power	<i>D₃</i>	1,53	kW
Declared COP	<i>COP₃</i>	1,03	

Control of capacity	<i>fixed</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	MISAMETIC REFREEX- GN40R FRASCOI		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	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>P_A</i>	2,34	kW
Nominal absorbed power	<i>D_A</i>	1,80	kW
Nominal COP	<i>COP_A</i>	1,30	

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

Nominal cooling capacity	<i>P_B</i>	2,65	kW
Nominal absorbed power	<i>D_B</i>	1,78	kW
Declared COP	<i>COP_B</i>	1,49	

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

Nominal cooling capacity	<i>P_C</i>	3,11	kW
Nominal absorbed power	<i>D_C</i>	1,72	kW
Declared COP	<i>COP_C</i>	1,81	

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

Nominal cooling capacity	<i>P_D</i>	3,55	kW
Nominal absorbed power	<i>D_A</i>	1,64	kW
Declared COP	<i>COP_D</i>	2,16	

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

Nominal cooling capacity	<i>P₃</i>	1,85	kW
Nominal absorbed power	<i>D₃</i>	1,80	kW
Declared COP	<i>COP₃</i>	1,03	

Control of capacity	<i>fixed</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	MISAMETIC REFREEX- GN41R FRASCOI		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	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>P_A</i>	2,55	kW
Nominal absorbed power	<i>D_A</i>	1,93	kW
Nominal COP	<i>COP_A</i>	1,32	

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

Nominal cooling capacity	<i>P_B</i>	2,90	kW
Nominal absorbed power	<i>D_B</i>	1,91	kW
Declared COP	<i>COP_B</i>	1,52	

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

Nominal cooling capacity	<i>P_C</i>	3,40	kW
Nominal absorbed power	<i>D_C</i>	1,85	kW
Declared COP	<i>COP_C</i>	1,84	

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

Nominal cooling capacity	<i>P_D</i>	3,88	kW
Nominal absorbed power	<i>D_A</i>	1,76	kW
Declared COP	<i>COP_D</i>	2,20	

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

Nominal cooling capacity	<i>P₃</i>	2,01	kW
Nominal absorbed power	<i>D₃</i>	1,94	kW
Declared COP	<i>COP₃</i>	1,04	

Control of capacity	<i>fixed</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	MISAMETIC- GN50 FRASCOLD		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,78	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>P_A</i>	3,31	kW
Nominal absorbed power	<i>D_A</i>	2,45	kW
Nominal COP	<i>COP_A</i>	1,35	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>P_B</i>	3,83	kW
Nominal absorbed power	<i>D_B</i>	2,47	kW
Declared COP	<i>COP_B</i>	1,55	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>P_C</i>	4,58	kW
Nominal absorbed power	<i>D_C</i>	2,43	kW
Declared COP	<i>COP_C</i>	1,89	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>P_D</i>	5,32	kW
Nominal absorbed power	<i>D_D</i>	2,34	kW
Declared COP	<i>COP_D</i>	2,27	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P₃</i>	2,55	kW
Nominal absorbed power	<i>D₃</i>	2,40	kW
Declared COP	<i>COP₃</i>	1,06	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model
MISAMETIC REFREEX- GN75R FRASCOI
Refrigerating Fluid
R407F

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,61	

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

Nominal cooling capacity	<i>P_A</i>	4,66	kW
Nominal absorbed power	<i>D_A</i>	3,85	kW
Nominal COP	<i>COP_A</i>	1,21	

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

Nominal cooling capacity	<i>P_B</i>	5,28	kW
Nominal absorbed power	<i>D_B</i>	3,80	kW
Declared COP	<i>COP_B</i>	1,39	

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

Nominal cooling capacity	<i>P_C</i>	6,17	kW
Nominal absorbed power	<i>D_C</i>	3,70	kW
Declared COP	<i>COP_C</i>	1,67	

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

Nominal cooling capacity	<i>P_D</i>	7,05	kW
Nominal absorbed power	<i>D_A</i>	3,54	kW
Declared COP	<i>COP_D</i>	1,99	

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

Nominal cooling capacity	<i>P₃</i>	3,72	kW
Nominal absorbed power	<i>D₃</i>	3,84	kW
Declared COP	<i>COP₃</i>	0,97	

Control of capacity	fixed
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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	MISAMETIC REFREEX- GN76R FRASCOI		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,69	

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

Nominal cooling capacity	<i>P_A</i>	5,34	kW
Nominal absorbed power	<i>D_A</i>	4,17	kW
Nominal COP	<i>COP_A</i>	1,28	

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

Nominal cooling capacity	<i>P_B</i>	6,29	kW
Nominal absorbed power	<i>D_B</i>	4,25	kW
Declared COP	<i>COP_B</i>	1,48	

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

Nominal cooling capacity	<i>P_C</i>	7,68	kW
Nominal absorbed power	<i>D_C</i>	4,25	kW
Declared COP	<i>COP_C</i>	1,81	

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

Nominal cooling capacity	<i>P_D</i>	9,06	kW
Nominal absorbed power	<i>D_A</i>	4,15	kW
Declared COP	<i>COP_D</i>	2,18	

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

Nominal cooling capacity	<i>P₃</i>	3,96	kW
Nominal absorbed power	<i>D₃</i>	4,04	kW
Declared COP	<i>COP₃</i>	0,98	

Control of capacity	<i>fixed</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

MISAMETIC- GN100 FRASCOLD

Refrigerating Fluid

R407F

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,60	

Parameters at full load and at a room temperature of 32°C

(Point A)

Nominal cooling capacity	<i>P_A</i>	6,05	kW
Nominal absorbed power	<i>D_A</i>	5,21	kW
Nominal COP	<i>COP_A</i>	1,16	

Parameters at full load and at a room temperature of 25°C

(Point B)

Nominal cooling capacity	<i>P_B</i>	7,29	kW
Nominal absorbed power	<i>D_B</i>	5,36	kW
Declared COP	<i>COP_B</i>	1,36	

Parameters at full load and at a room temperature of 15°C

(Point C)

Nominal cooling capacity	<i>P_C</i>	9,10	kW
Nominal absorbed power	<i>D_C</i>	5,48	kW
Declared COP	<i>COP_C</i>	1,66	

Parameters at full load and at a room temperature of 5°C

(Point D)

Nominal cooling capacity	<i>P_D</i>	10,90	kW
Nominal absorbed power	<i>D_A</i>	5,48	kW
Declared COP	<i>COP_D</i>	1,99	

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

Nominal cooling capacity	<i>P₃</i>	4,17	kW
Nominal absorbed power	<i>D₃</i>	4,85	kW
Declared COP	<i>COP₃</i>	0,86	

Control of capacity	fixed		
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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	MISAMETIC REFREEX- GN150R FRASCC		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,61	

Parameters at full load and at a room temperature of 32°C

(Point A)

Nominal cooling capacity	<i>P_A</i>	9,87	kW
Nominal absorbed power	<i>D_A</i>	8,66	kW
Nominal COP	<i>COP_A</i>	1,14	

Parameters at full load and at a room temperature of 25°C

(Point B)

Nominal cooling capacity	<i>P_B</i>	11,35	kW
Nominal absorbed power	<i>D_B</i>	8,60	kW
Declared COP	<i>COP_B</i>	1,32	

Parameters at full load and at a room temperature of 15°C

(Point C)

Nominal cooling capacity	<i>P_C</i>	13,58	kW
Nominal absorbed power	<i>D_C</i>	8,38	kW
Declared COP	<i>COP_C</i>	1,62	

Parameters at full load and at a room temperature of 5°C

(Point D)

Nominal cooling capacity	<i>P_D</i>	15,78	kW
Nominal absorbed power	<i>D_A</i>	8,09	kW
Declared COP	<i>COP_D</i>	1,95	

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

Nominal cooling capacity	<i>P₃</i>	7,87	kW
Nominal absorbed power	<i>D₃</i>	8,84	kW
Declared COP	<i>COP₃</i>	0,89	

Control of capacity	<i>fixed</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	MISAMETIC- GN200 FRASCOLD		
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Refrigerating Fluid	R407F		
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Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,62	

Parameters at full load and at a room temperature of 32°C (Point A)
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Nominal cooling capacity	<i>P_A</i>	7,12	kW
Nominal absorbed power	<i>D_A</i>	5,93	kW
Nominal COP	<i>COP_A</i>	1,20	

Parameters at full load and at a room temperature of 25°C (Point B)
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Nominal cooling capacity	<i>P_B</i>	8,42	kW
Nominal absorbed power	<i>D_B</i>	6,06	kW
Declared COP	<i>COP_B</i>	1,39	

Parameters at full load and at a room temperature of 15°C (Point C)
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Nominal cooling capacity	<i>P_C</i>	10,31	kW
Nominal absorbed power	<i>D_C</i>	6,07	kW
Declared COP	<i>COP_C</i>	1,70	

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

Nominal cooling capacity	<i>P_D</i>	12,22	kW
Nominal absorbed power	<i>D_A</i>	5,99	kW
Declared COP	<i>COP_D</i>	2,04	

Parameters at full load and at a room temperature of 43°C
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Nominal cooling capacity	<i>P₃</i>	5,17	kW
Nominal absorbed power	<i>D₃</i>	5,80	kW
Declared COP	<i>COP₃</i>	0,89	

Control of capacity	<i>fixed</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	MISAMETIC REFREEX- GN300R FRASCC		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,61	

Parameters at full load and at a room temperature of 32°C

(Point A)

Nominal cooling capacity	<i>P_A</i>	12,33	kW
Nominal absorbed power	<i>D_A</i>	10,44	kW
Nominal COP	<i>COP_A</i>	1,18	

Parameters at full load and at a room temperature of 25°C

(Point B)

Nominal cooling capacity	<i>P_B</i>	14,04	kW
Nominal absorbed power	<i>D_B</i>	10,25	kW
Declared COP	<i>COP_B</i>	1,37	

Parameters at full load and at a room temperature of 15°C

(Point C)

Nominal cooling capacity	<i>P_C</i>	16,62	kW
Nominal absorbed power	<i>D_C</i>	9,89	kW
Declared COP	<i>COP_C</i>	1,68	

Parameters at full load and at a room temperature of 5°C

(Point D)

Nominal cooling capacity	<i>P_D</i>	19,16	kW
Nominal absorbed power	<i>D_A</i>	9,44	kW
Declared COP	<i>COP_D</i>	2,03	

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

Nominal cooling capacity	<i>P₃</i>	9,93	kW
Nominal absorbed power	<i>D₃</i>	10,80	kW
Declared COP	<i>COP₃</i>	0,92	

Control of capacity	<i>fixed</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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