

MISAMETIC REFREEX BT BITZER R407F

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISAMETIC- GN18 BITZER
Refrigerating Fluid	R407F

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

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,40	kW
Nominal absorbed power	D_A	1,16	kW
Nominal COP	COP_A	1,21	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	1,58	kW
Nominal absorbed power	D_B	1,15	kW
Declared COP	COP_B	1,38	

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

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

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,11	kW
Nominal absorbed power	D_3	1,14	kW
Declared COP	COP_3	0,97	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC- GN28 BITZER
Refrigerating Fluid	R407F

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

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,81	kW
Nominal absorbed power	D_A	1,42	kW
Nominal COP	COP_A	1,27	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,08	kW
Nominal absorbed power	D_B	1,42	kW
Declared COP	COP_B	1,46	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	2,46	kW
Nominal absorbed power	D_C	1,40	kW
Declared COP	COP_C	1,76	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	2,85	kW
Nominal absorbed power	D_A	1,34	kW
Declared COP	COP_D	2,12	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,38	kW
Nominal absorbed power	D_3	1,36	kW
Declared COP	COP_3	1,01	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC- GN40 BITZER
Refrigerating Fluid	R407F

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,67	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,32	kW
Nominal absorbed power	D_A	1,81	kW
Nominal COP	COP_A	1,28	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,64	kW
Nominal absorbed power	D_B	1,80	kW
Declared COP	COP_B	1,46	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	3,08	kW
Nominal absorbed power	D_C	1,75	kW
Declared COP	COP_C	1,76	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	3,52	kW
Nominal absorbed power	D_A	1,66	kW
Declared COP	COP_D	2,12	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,83	kW
Nominal absorbed power	D_3	1,80	kW
Declared COP	COP_3	1,02	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC- GN41 BITZER
Refrigerating Fluid	R407F

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,65	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,48	kW
Nominal absorbed power	D_A	1,94	kW
Nominal COP	COP_A	1,28	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,84	kW
Nominal absorbed power	D_B	1,93	kW
Declared COP	COP_B	1,47	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	3,35	kW
Nominal absorbed power	D_C	1,89	kW
Declared COP	COP_C	1,77	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	3,84	kW
Nominal absorbed power	D_A	1,87	kW
Declared COP	COP_D	2,05	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,95	kW
Nominal absorbed power	D_3	1,93	kW
Declared COP	COP_3	1,01	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC REFREEX- GN75R BITZER
Refrigerating Fluid	R407F

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

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

Nominal cooling capacity	P_A	4,19	kW
Nominal absorbed power	D_A	3,46	kW
Nominal COP	COP_A	1,21	

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

Nominal cooling capacity	P_B	4,96	kW
Nominal absorbed power	D_B	3,54	kW
Declared COP	COP_B	1,40	

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

Nominal cooling capacity	P_C	6,07	kW
Nominal absorbed power	D_C	3,59	kW
Declared COP	COP_C	1,69	

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

Nominal cooling capacity	P_D	7,18	kW
Nominal absorbed power	D_A	3,54	kW
Declared COP	COP_D	2,03	

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

Nominal cooling capacity	P_3	2,97	kW
Nominal absorbed power	D_3	3,23	kW
Declared COP	COP_3	0,92	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC REFREEX- GN76R BITZER
Refrigerating Fluid	R407F

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

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	5,41	kW
Nominal absorbed power	D_A	4,22	kW
Nominal COP	COP_A	1,28	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	6,32	kW
Nominal absorbed power	D_B	4,27	kW
Declared COP	COP_B	1,48	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	7,63	kW
Nominal absorbed power	D_C	4,26	kW
Declared COP	COP_C	1,79	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	8,92	kW
Nominal absorbed power	D_A	4,15	kW
Declared COP	COP_D	2,15	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	3,96	kW
Nominal absorbed power	D_3	4,00	kW
Declared COP	COP_3	0,99	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC REFREEX- GN100R BITZER
Refrigerating Fluid	R407F

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,62	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	5,80	kW
Nominal absorbed power	D_A	5,05	kW
Nominal COP	COP_A	1,15	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	6,94	kW
Nominal absorbed power	D_B	5,18	kW
Declared COP	COP_B	1,34	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	8,58	kW
Nominal absorbed power	D_C	5,23	kW
Declared COP	COP_C	1,64	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	10,20	kW
Nominal absorbed power	D_A	5,18	kW
Declared COP	COP_D	1,97	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	4,02	kW
Nominal absorbed power	D_3	4,62	kW
Declared COP	COP_3	0,87	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC- GN150 BITZER		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,62	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	10,36	kW
Nominal absorbed power	D_A	9,01	kW
Nominal COP	COP_A	1,15	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	11,84	kW
Nominal absorbed power	D_B	8,91	kW
Declared COP	COP_B	1,33	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	14,01	kW
Nominal absorbed power	D_C	8,65	kW
Declared COP	COP_C	1,62	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	16,15	kW
Nominal absorbed power	D_A	8,32	kW
Declared COP	COP_D	1,94	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	8,11	kW
Nominal absorbed power	D_3	9,11	kW
Declared COP	COP_3	0,89	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC- GN200 BITZER		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,64	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	7,21	kW
Nominal absorbed power	D_A	6,00	kW
Nominal COP	COP_A	1,20	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	8,46	kW
Nominal absorbed power	D_B	6,09	kW
Declared COP	COP_B	1,39	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	10,26	kW
Nominal absorbed power	D_C	6,11	kW
Declared COP	COP_C	1,68	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	12,05	kW
Nominal absorbed power	D_A	5,97	kW
Declared COP	COP_D	2,02	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	5,24	kW
Nominal absorbed power	D_3	5,63	kW
Declared COP	COP_3	0,93	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISAMETIC- GN300 BITZER		
Refrigerating Fluid	R407F		
Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,62	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	12,45	kW
Nominal absorbed power	D_A	10,46	kW
Nominal COP	COP_A	1,19	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	14,11	kW
Nominal absorbed power	D_B	10,30	kW
Declared COP	COP_B	1,37	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	16,52	kW
Nominal absorbed power	D_C	9,89	kW
Declared COP	COP_C	1,67	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	18,90	kW
Nominal absorbed power	D_A	9,40	kW
Declared COP	COP_D	2,01	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	9,94	kW
Nominal absorbed power	D_3	10,81	kW
Declared COP	COP_3	0,92	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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