

MISAMETIC REFREEX BT BITZER R404a

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISAMETIC REFREEX-GN18R FRASCOL
Refrigerating Fluid	R404A

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	1,44	kW
Nominal absorbed power	D_A	1,33	kW
Nominal COP	COP_A	1,08	

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

Nominal cooling capacity	P_B	1,62	kW
Nominal absorbed power	D_B	1,29	kW
Declared COP	COP_B	1,25	

**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	1,15	kW
Nominal absorbed power	D_3	1,38	kW
Declared COP	COP_3	0,83	

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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EPTA S.p.A.
Unità Locale
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Model	MISAMETIC REFREEX-GN28R FRASCOL
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,56	

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

Nominal cooling capacity	P_A	2,50	kW
Nominal absorbed power	D_A	2,21	kW
Nominal COP	COP_A	1,13	

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

Nominal cooling capacity	P_B	2,81	kW
Nominal absorbed power	D_B	2,15	kW
Declared COP	COP_B	1,31	

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

Nominal cooling capacity	P_C	3,31	kW
Nominal absorbed power	D_C	2,03	kW
Declared COP	COP_C	1,63	

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

Nominal cooling capacity	P_D	3,88	kW
Nominal absorbed power	D_A	1,91	kW
Declared COP	COP_D	2,03	

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

Nominal cooling capacity	P_3	2,06	kW
Nominal absorbed power	D_3	2,34	kW
Declared COP	COP_3	0,88	

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-GN40R FRASCOL
Refrigerating Fluid	R404A

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	2,68	kW
Nominal absorbed power	D_A	2,29	kW
Nominal COP	COP_A	1,17	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	3,08	kW
Nominal absorbed power	D_B	2,25	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	3,66	kW
Nominal absorbed power	D_C	2,15	kW
Declared COP	COP_C	1,70	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	4,27	kW
Nominal absorbed power	D_A	2,01	kW
Declared COP	COP_D	2,12	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,08	kW
Nominal absorbed power	D_3	2,34	kW
Declared COP	COP_3	0,89	

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-GN41R FRASCOL
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,55	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	3,20	kW
Nominal absorbed power	D_A	2,71	kW
Nominal COP	COP_A	1,18	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	3,59	kW
Nominal absorbed power	D_B	2,66	kW
Declared COP	COP_B	1,35	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	4,19	kW
Nominal absorbed power	D_C	2,57	kW
Declared COP	COP_C	1,63	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	4,82	kW
Nominal absorbed power	D_A	2,44	kW
Declared COP	COP_D	1,98	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,62	kW
Nominal absorbed power	D_3	2,78	kW
Declared COP	COP_3	0,94	

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-GN50R FRASCOL
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,73	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	3,69	kW
Nominal absorbed power	D_A	3,02	kW
Nominal COP	COP_A	1,22	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	4,25	kW
Nominal absorbed power	D_B	2,95	kW
Declared COP	COP_B	1,44	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	5,08	kW
Nominal absorbed power	D_C	2,81	kW
Declared COP	COP_C	1,81	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	5,94	kW
Nominal absorbed power	D_A	2,58	kW
Declared COP	COP_D	2,30	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,83	kW
Nominal absorbed power	D_3	3,07	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-GN75R FRASCOL
Refrigerating Fluid	R404A

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	5,65	kW
Nominal absorbed power	D_A	4,67	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	6,38	kW
Nominal absorbed power	D_B	4,59	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	7,50	kW
Nominal absorbed power	D_C	4,44	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	8,71	kW
Nominal absorbed power	D_A	4,19	kW
Declared COP	COP_D	2,08	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	4,59	kW
Nominal absorbed power	D_3	4,79	kW
Declared COP	COP_3	0,96	

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 FRASCOL
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,76	

**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	5,46	kW
Nominal COP	COP_A	1,32	

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

Nominal cooling capacity	P_B	8,23	kW
Nominal absorbed power	D_B	5,38	kW
Declared COP	COP_B	1,53	

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

Nominal cooling capacity	P_C	9,63	kW
Nominal absorbed power	D_C	5,20	kW
Declared COP	COP_C	1,85	

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

Nominal cooling capacity	P_D	10,91	kW
Nominal absorbed power	D_A	4,89	kW
Declared COP	COP_D	2,23	

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

Nominal cooling capacity	P_3	5,61	kW
Nominal absorbed power	D_3	5,45	kW
Declared COP	COP_3	1,03	

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 FRASCO
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,71	

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

Nominal cooling capacity	P_A	9,45	kW
Nominal absorbed power	D_A	7,44	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	10,62	kW
Nominal absorbed power	D_B	7,18	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	12,25	kW
Nominal absorbed power	D_C	6,80	kW
Declared COP	COP_C	1,80	

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

Nominal cooling capacity	P_D	13,85	kW
Nominal absorbed power	D_A	6,44	kW
Declared COP	COP_D	2,15	

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

Nominal cooling capacity	P_3	7,52	kW
Nominal absorbed power	D_3	7,67	kW
Declared COP	COP_3	0,98	

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-GN150R FRASCO
Refrigerating Fluid	R404A

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	12,78	kW
Nominal absorbed power	D_A	10,31	kW
Nominal COP	COP_A	1,24	

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

Nominal cooling capacity	P_B	14,46	kW
Nominal absorbed power	D_B	10,04	kW
Declared COP	COP_B	1,44	

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

Nominal cooling capacity	P_C	16,80	kW
Nominal absorbed power	D_C	9,65	kW
Declared COP	COP_C	1,74	

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

Nominal cooling capacity	P_D	19,07	kW
Nominal absorbed power	D_A	9,21	kW
Declared COP	COP_D	2,07	

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

Nominal cooling capacity	P_3	10,08	kW
Nominal absorbed power	D_3	10,39	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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EPTA S.p.A.
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00071 - Pomezia (RM) - Italia

Model	MISAMETIC REFREEX-GN200R FRASCO
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	1,70	

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

Nominal cooling capacity	P_A	10,15	kW
Nominal absorbed power	D_A	7,93	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	11,47	kW
Nominal absorbed power	D_B	7,75	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	13,32	kW
Nominal absorbed power	D_C	7,44	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	15,21	kW
Nominal absorbed power	D_A	7,11	kW
Declared COP	COP_D	2,14	

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

Nominal cooling capacity	P_3	7,99	kW
Nominal absorbed power	D_3	8,07	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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Unità Locale
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Model	MISAMETIC REFREEX-GN300R FRASCO
Refrigerating Fluid	R404A

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	14,08	kW
Nominal absorbed power	D_A	11,64	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	15,82	kW
Nominal absorbed power	D_B	11,47	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	18,20	kW
Nominal absorbed power	D_C	11,03	kW
Declared COP	COP_C	1,65	

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

Nominal cooling capacity	P_D	20,27	kW
Nominal absorbed power	D_A	10,39	kW
Declared COP	COP_D	1,95	

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

Nominal cooling capacity	P_3	11,33	kW
Nominal absorbed power	D_3	11,80	kW
Declared COP	COP_3	0,96	

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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