

MISASILENT BT R407F

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISASILENT- GNS20
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	$SEPR$	1,58	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,72	kW
Nominal absorbed power	D_A	1,67	kW
Nominal COP	COP_A	1,03	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	1,88	kW
Nominal absorbed power	D_B	1,44	kW
Declared COP	COP_B	1,30	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	2,07	kW
Nominal absorbed power	D_C	1,18	kW
Declared COP	COP_C	1,75	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	2,11	kW
Nominal absorbed power	D_A	1,13	kW
Declared COP	COP_D	1,87	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,43	kW
Nominal absorbed power	D_3	2,08	kW
Declared COP	COP_3	0,69	

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	MISASILENT- GNS28		
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	$SEPR$	1,71	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,14	kW
Nominal absorbed power	D_A	2,03	kW
Nominal COP	COP_A	1,05	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,34	kW
Nominal absorbed power	D_B	1,77	kW
Declared COP	COP_B	1,32	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	2,58	kW
Nominal absorbed power	D_C	1,47	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	2,76	kW
Nominal absorbed power	D_A	1,23	kW
Declared COP	COP_D	2,25	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,76	kW
Nominal absorbed power	D_3	2,48	kW
Declared COP	COP_3	0,71	
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	MISASILENT- GNS40		
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	$SEPR$	1,66	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,36	kW
Nominal absorbed power	D_A	2,46	kW
Nominal COP	COP_A	0,96	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,53	kW
Nominal absorbed power	D_B	2,11	kW
Declared COP	COP_B	1,20	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	2,77	kW
Nominal absorbed power	D_C	1,67	kW
Declared COP	COP_C	1,66	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	3,01	kW
Nominal absorbed power	D_A	1,32	kW
Declared COP	COP_D	2,28	
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	3,11	kW
Declared COP	COP_3	0,67	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	

Model	MISASILENT- GNS41
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	2,86	kW
Nominal absorbed power	D_A	3,04	kW
Nominal COP	COP_A	0,94	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	3,09	kW
Nominal absorbed power	D_B	2,62	kW
Declared COP	COP_B	1,18	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	3,40	kW
Nominal absorbed power	D_C	2,10	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	3,71	kW
Nominal absorbed power	D_A	1,66	kW
Declared COP	COP_D	2,23	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,49	kW
Nominal absorbed power	D_3	3,84	kW
Declared COP	COP_3	0,65	

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	MISASILENT- GNS50		
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	3,50	kW
Nominal absorbed power	D_A	3,64	kW
Nominal COP	COP_A	0,96	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	3,75	kW
Nominal absorbed power	D_B	3,18	kW
Declared COP	COP_B	1,18	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	4,11	kW
Nominal absorbed power	D_C	2,57	kW
Declared COP	COP_C	1,60	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	4,44	kW
Nominal absorbed power	D_A	2,07	kW
Declared COP	COP_D	2,15	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	3,08	kW
Nominal absorbed power	D_3	4,52	kW
Declared COP	COP_3	0,68	
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	MISASILENT- GNS75
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	$SEPR$	1,60	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	4,49	kW
Nominal absorbed power	D_A	4,49	kW
Nominal COP	COP_A	1,00	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	4,84	kW
Nominal absorbed power	D_B	3,94	kW
Declared COP	COP_B	1,23	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	5,39	kW
Nominal absorbed power	D_C	3,37	kW
Declared COP	COP_C	1,60	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	5,99	kW
Nominal absorbed power	D_A	3,09	kW
Declared COP	COP_D	1,94	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	3,97	kW
Nominal absorbed power	D_3	5,59	kW
Declared COP	COP_3	0,71	

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	MISASILENT- GNS100		
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	6,16	kW
Nominal absorbed power	D_A	5,76	kW
Nominal COP	COP_A	1,07	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	6,69	kW
Nominal absorbed power	D_B	5,06	kW
Declared COP	COP_B	1,32	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	7,44	kW
Nominal absorbed power	D_C	4,37	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	8,21	kW
Nominal absorbed power	D_A	4,03	kW
Declared COP	COP_D	2,04	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	5,32	kW
Nominal absorbed power	D_3	7,09	kW
Declared COP	COP_3	0,75	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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