

MISASILENT BT R404a

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISASILENT- GNS20
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	2,02	kW
Nominal absorbed power	D_A	1,80	kW
Nominal COP	COP_A	1,12	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,18	kW
Nominal absorbed power	D_B	1,60	kW
Declared COP	COP_B	1,36	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	2,40	kW
Nominal absorbed power	D_C	1,37	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	2,41	kW
Nominal absorbed power	D_A	1,36	kW
Declared COP	COP_D	1,77	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,75	kW
Nominal absorbed power	D_3	2,18	kW
Declared COP	COP_3	0,80	

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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 00071 - Pomezia (RM) - Italia

Model	MISASILENT- GNS28
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	$SEPR$	1,68	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,52	kW
Nominal absorbed power	D_A	2,21	kW
Nominal COP	COP_A	1,14	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,72	kW
Nominal absorbed power	D_B	1,98	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	2,98	kW
Nominal absorbed power	D_C	1,72	kW
Declared COP	COP_C	1,73	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	3,22	kW
Nominal absorbed power	D_A	1,50	kW
Declared COP	COP_D	2,14	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,16	kW
Nominal absorbed power	D_3	2,60	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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Model	MISASILENT- GNS40
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	$SEPR$	1,83	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,82	kW
Nominal absorbed power	D_A	2,41	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	3,07	kW
Nominal absorbed power	D_B	2,13	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	3,41	kW
Nominal absorbed power	D_C	1,81	kW
Declared COP	COP_C	1,88	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	3,76	kW
Nominal absorbed power	D_A	1,56	kW
Declared COP	COP_D	2,40	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,43	kW
Nominal absorbed power	D_3	2,92	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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Model	MISASILENT- GNS41
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	3,39	kW
Nominal absorbed power	D_A	3,20	kW
Nominal COP	COP_A	1,06	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	3,70	kW
Nominal absorbed power	D_B	2,87	kW
Declared COP	COP_B	1,29	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	4,13	kW
Nominal absorbed power	D_C	2,44	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	4,53	kW
Nominal absorbed power	D_A	2,10	kW
Declared COP	COP_D	2,16	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,90	kW
Nominal absorbed power	D_3	3,86	kW
Declared COP	COP_3	0,75	

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	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	4,03	kW
Nominal absorbed power	D_A	3,77	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	4,45	kW
Nominal absorbed power	D_B	3,24	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	4,97	kW
Nominal absorbed power	D_C	2,75	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	5,44	kW
Nominal absorbed power	D_A	2,42	kW
Declared COP	COP_D	2,25	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	3,33	kW
Nominal absorbed power	D_3	4,89	kW
Declared COP	COP_3	0,68	

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- GNS75		
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	$SEPR$	1,85	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	5,20	kW
Nominal absorbed power	D_A	4,03	kW
Nominal COP	COP_A	1,29	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	5,67	kW
Nominal absorbed power	D_B	3,70	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	6,29	kW
Nominal absorbed power	D_C	3,29	kW
Declared COP	COP_C	1,91	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	6,90	kW
Nominal absorbed power	D_A	2,92	kW
Declared COP	COP_D	2,36	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	4,45	kW
Nominal absorbed power	D_3	4,68	kW
Declared COP	COP_3	0,95	
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- GNS100		
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	$SEPR$	1,85	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	6,78	kW
Nominal absorbed power	D_A	5,42	kW
Nominal COP	COP_A	1,25	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	7,40	kW
Nominal absorbed power	D_B	4,93	kW
Declared COP	COP_B	1,50	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	8,24	kW
Nominal absorbed power	D_C	4,31	kW
Declared COP	COP_C	1,91	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	9,02	kW
Nominal absorbed power	D_A	3,80	kW
Declared COP	COP_D	2,37	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	5,78	kW
Nominal absorbed power	D_3	6,28	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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