

MISASILENT TN R404a

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISASILENT- GPS15		
Refrigerating Fluid	R404A		
Element	Symbol	Value	Unit
Evaporation temperature	t	-10°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	3,61	kW
Nominal absorbed power	D_A	1,75	kW
Nominal COP	COP_A	2,06	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	4,04	kW
Nominal absorbed power	D_B	1,50	kW
Declared COP	COP_B	2,69	
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	2,89	kW
Nominal absorbed power	D_3	2,25	kW
Declared COP	COP_3	1,28	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	

Model	MISASILENT- GPS20
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-10°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	4,18	kW
Nominal absorbed power	D_A	2,06	kW
Nominal COP	COP_A	2,03	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	4,60	kW
Nominal absorbed power	D_B	1,80	kW
Declared COP	COP_B	2,56	

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	3,49	kW
Nominal absorbed power	D_3	2,55	kW
Declared COP	COP_3	1,37	

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- GPS25
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,43	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	5,22	kW
Nominal absorbed power	D_A	2,56	kW
Nominal COP	COP_A	2,04	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	5,77	kW
Nominal absorbed power	D_B	2,23	kW
Declared COP	COP_B	2,59	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	6,51	kW
Nominal absorbed power	D_C	1,83	kW
Declared COP	COP_C	3,55	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	7,19	kW
Nominal absorbed power	D_A	1,51	kW
Declared COP	COP_D	4,75	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	4,31	kW
Nominal absorbed power	D_3	3,15	kW
Declared COP	COP_3	1,37	

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- GPS26
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,12	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	5,87	kW
Nominal absorbed power	D_A	3,07	kW
Nominal COP	COP_A	1,91	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	6,51	kW
Nominal absorbed power	D_B	2,69	kW
Declared COP	COP_B	2,42	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	7,38	kW
Nominal absorbed power	D_C	2,22	kW
Declared COP	COP_C	3,33	

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	1,82	kW
Declared COP	COP_D	4,51	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	4,86	kW
Nominal absorbed power	D_3	3,77	kW
Declared COP	COP_3	1,29	

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- GPS30
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,44	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	6,12	kW
Nominal absorbed power	D_A	2,91	kW
Nominal COP	COP_A	2,10	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	6,76	kW
Nominal absorbed power	D_B	2,54	kW
Declared COP	COP_B	2,66	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	7,64	kW
Nominal absorbed power	D_C	2,08	kW
Declared COP	COP_C	3,67	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	8,48	kW
Nominal absorbed power	D_A	1,71	kW
Declared COP	COP_D	4,97	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	5,09	kW
Nominal absorbed power	D_3	3,59	kW
Declared COP	COP_3	1,42	

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- GPS40		
Refrigerating Fluid	R404A		
Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,49	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	8,96	kW
Nominal absorbed power	D_A	4,17	kW
Nominal COP	COP_A	2,15	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	9,90	kW
Nominal absorbed power	D_B	3,66	kW
Declared COP	COP_B	2,70	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	11,19	kW
Nominal absorbed power	D_C	3,02	kW
Declared COP	COP_C	3,71	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	12,42	kW
Nominal absorbed power	D_A	2,46	kW
Declared COP	COP_D	5,05	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	7,46	kW
Nominal absorbed power	D_3	5,07	kW
Declared COP	COP_3	1,47	
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- GPS47		
Refrigerating Fluid	R404A		
Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,42	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	10,26	kW
Nominal absorbed power	D_A	4,91	kW
Nominal COP	COP_A	2,09	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	11,36	kW
Nominal absorbed power	D_B	4,32	kW
Declared COP	COP_B	2,63	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	12,90	kW
Nominal absorbed power	D_C	3,55	kW
Declared COP	COP_C	3,63	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	14,41	kW
Nominal absorbed power	D_A	2,90	kW
Declared COP	COP_D	4,96	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	8,54	kW
Nominal absorbed power	D_3	5,93	kW
Declared COP	COP_3	1,44	
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- GPS70
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,37	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	12,12	kW
Nominal absorbed power	D_A	5,66	kW
Nominal COP	COP_A	2,14	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	13,35	kW
Nominal absorbed power	D_B	4,96	kW
Declared COP	COP_B	2,69	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	14,97	kW
Nominal absorbed power	D_C	4,15	kW
Declared COP	COP_C	3,61	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	16,43	kW
Nominal absorbed power	D_A	3,49	kW
Declared COP	COP_D	4,71	

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	6,95	kW
Declared COP	COP_3	1,45	

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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