

MISASILENT TN R449a

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISASILENT- GPS15		
Refrigerating Fluid	R449a		

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	3,34	kW
Nominal absorbed power	D_A	1,63	kW
Nominal COP	COP_A	2,05	

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

Nominal cooling capacity	P_B	3,68	kW
Nominal absorbed power	D_B	1,39	kW
Declared COP	COP_B	2,64	

**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	2,78	kW
Nominal absorbed power	D_3	2,14	kW
Declared COP	COP_3	1,30	

Control of capacity	fixed		
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Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISASILENT- GPS20		
Refrigerating Fluid	R449A		

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	3,91	kW
Nominal absorbed power	D_A	1,92	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	4,22	kW
Nominal absorbed power	D_B	1,67	kW
Declared COP	COP_B	2,52	

**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	3,40	kW
Nominal absorbed power	D_3	2,43	kW
Declared COP	COP_3	1,40	

Control of capacity	fixed		
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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	R449a		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,21	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>P_A</i>	4,92	kW
Nominal absorbed power	<i>D_A</i>	2,42	kW
Declared COP	<i>COP_A</i>	2,03	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>P_B</i>	5,32	kW
Nominal absorbed power	<i>D_B</i>	2,10	kW
Declared COP	<i>COP_B</i>	2,54	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>P_C</i>	5,87	kW
Nominal absorbed power	<i>D_C</i>	1,71	kW
Declared COP	<i>COP_C</i>	3,43	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>P_D</i>	6,36	kW
Nominal absorbed power	<i>D_A</i>	1,43	kW
Declared COP	<i>COP_D</i>	4,46	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P₃</i>	4,25	kW
Nominal absorbed power	<i>D₃</i>	3,04	kW
Declared COP	<i>COP₃</i>	1,40	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	

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Model	MISASILENT- GPS26		
Refrigerating Fluid	R449a		
Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,05	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	5,61	kW
Nominal absorbed power	D_A	2,91	kW
Nominal COP	COP_A	1,93	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	6,08	kW
Nominal absorbed power	D_B	2,52	kW
Declared COP	COP_B	2,41	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	6,71	kW
Nominal absorbed power	D_C	2,07	kW
Declared COP	COP_C	3,25	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	7,32	kW
Nominal absorbed power	D_D	1,71	kW
Declared COP	COP_D	4,27	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	4,85	kW
Nominal absorbed power	D_3	3,62	kW
Declared COP	COP_3	1,34	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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Model	MISASILENT- GPS30		
Refrigerating Fluid	R449A		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,13	

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

Nominal cooling capacity	<i>P_A</i>	6,77	kW
Nominal absorbed power	<i>D_A</i>	3,02	kW
Nominal COP	<i>COP_A</i>	2,24	

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

Nominal cooling capacity	<i>P_B</i>	7,25	kW
Nominal absorbed power	<i>D_B</i>	2,72	kW
Declared COP	<i>COP_B</i>	2,67	

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

Nominal cooling capacity	<i>P_C</i>	7,89	kW
Nominal absorbed power	<i>D_C</i>	2,37	kW
Declared COP	<i>COP_C</i>	3,33	

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

Nominal cooling capacity	<i>P_D</i>	8,44	kW
Nominal absorbed power	<i>D_A</i>	2,05	kW
Declared COP	<i>COP_D</i>	4,12	

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

Nominal cooling capacity	<i>P₃</i>	5,95	kW
Nominal absorbed power	<i>D₃</i>	3,61	kW
Declared COP	<i>COP₃</i>	1,65	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	MISASILENT- GPS40		
Refrigerating Fluid	R449A		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,16	

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

Nominal cooling capacity	<i>P_A</i>	8,69	kW
Nominal absorbed power	<i>D_A</i>	4,04	kW
Nominal COP	<i>COP_A</i>	2,15	

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

Nominal cooling capacity	<i>P_B</i>	9,39	kW
Nominal absorbed power	<i>D_B</i>	3,56	kW
Declared COP	<i>COP_B</i>	2,64	

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

Nominal cooling capacity	<i>P_C</i>	10,34	kW
Nominal absorbed power	<i>D_C</i>	3,02	kW
Declared COP	<i>COP_C</i>	3,42	

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

Nominal cooling capacity	<i>P_D</i>	11,23	kW
Nominal absorbed power	<i>D_A</i>	2,68	kW
Declared COP	<i>COP_D</i>	4,19	

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

Nominal cooling capacity	<i>P₃</i>	7,53	kW
Nominal absorbed power	<i>D₃</i>	5,05	kW
Declared COP	<i>COP₃</i>	1,49	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	MISASILENT- GPS47		
Refrigerating Fluid	R449a		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,27	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>P_A</i>	10,07	kW
Nominal absorbed power	<i>D_A</i>	4,58	kW
Declared COP	<i>COP_A</i>	2,20	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>P_B</i>	10,85	kW
Nominal absorbed power	<i>D_B</i>	3,96	kW
Declared COP	<i>COP_B</i>	2,74	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>P_C</i>	11,94	kW
Nominal absorbed power	<i>D_C</i>	3,37	kW
Declared COP	<i>COP_C</i>	3,54	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>P_D</i>	12,98	kW
Nominal absorbed power	<i>D_A</i>	2,99	kW
Declared COP	<i>COP_D</i>	4,34	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P₃</i>	8,78	kW
Nominal absorbed power	<i>D₃</i>	5,93	kW
Declared COP	<i>COP₃</i>	1,48	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	

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Model	MISASILENT- GPS70		
Refrigerating Fluid	R449a		
Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,14	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>P_A</i>	12,81	kW
Nominal absorbed power	<i>D_A</i>	5,72	kW
Declared COP	<i>COP_A</i>	2,24	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>P_B</i>	13,78	kW
Nominal absorbed power	<i>D_B</i>	5,14	kW
Declared COP	<i>COP_B</i>	2,68	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>P_C</i>	15,09	kW
Nominal absorbed power	<i>D_C</i>	4,46	kW
Declared COP	<i>COP_C</i>	3,38	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>P_D</i>	16,27	kW
Nominal absorbed power	<i>D_A</i>	3,95	kW
Declared COP	<i>COP_D</i>	4,12	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P₃</i>	11,21	kW
Nominal absorbed power	<i>D₃</i>	6,92	kW
Declared COP	<i>COP₃</i>	1,62	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	

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