

MISASILENT TN R448a

**ENERGY EFFICIENCY
DATA SHEETS**

Model	MISASILENT- GPS15		
Refrigerating Fluid	R448a		
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	3,35	kW
Nominal absorbed power	D_A	1,63	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	3,68	kW
Nominal absorbed power	D_B	1,39	kW
Declared COP	COP_B	2,65	
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	2,79	kW
Nominal absorbed power	D_3	2,13	kW
Declared COP	COP_3	1,31	
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- GPS20		
Refrigerating Fluid	R448A		
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	3,92	kW
Nominal absorbed power	D_A	1,93	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	4,23	kW
Nominal absorbed power	D_B	1,68	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	3,41	kW
Nominal absorbed power	D_3	2,42	kW
Declared COP	COP_3	1,41	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	

Model	MISASILENT- GPS25
Refrigerating Fluid	R448a

Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,21	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	4,93	kW
Nominal absorbed power	D_A	2,42	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	5,34	kW
Nominal absorbed power	D_B	2,09	kW
Declared COP	COP_B	2,55	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	5,88	kW
Nominal absorbed power	D_C	1,71	kW
Declared COP	COP_C	3,43	

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

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	4,27	kW
Nominal absorbed power	D_3	3,03	kW
Declared COP	COP_3	1,41	

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	R448a

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	5,62	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	6,72	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_A	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	4,87	kW
Nominal absorbed power	D_3	3,60	kW
Declared COP	COP_3	1,35	

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	R448A		
Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,29	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	6,43	kW
Nominal absorbed power	D_A	3,12	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	6,91	kW
Nominal absorbed power	D_B	2,68	kW
Declared COP	COP_B	2,58	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	7,60	kW
Nominal absorbed power	D_C	2,18	kW
Declared COP	COP_C	3,49	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	8,26	kW
Nominal absorbed power	D_A	1,79	kW
Declared COP	COP_D	4,61	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	5,64	kW
Nominal absorbed power	D_3	3,95	kW
Declared COP	COP_3	1,43	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	

Model	MISASILENT- GPS40		
Refrigerating Fluid	R448A		
Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,63	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	8,71	kW
Nominal absorbed power	D_A	3,82	kW
Nominal COP	COP_A	2,28	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	9,46	kW
Nominal absorbed power	D_B	3,30	kW
Declared COP	COP_B	2,87	
Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	10,45	kW
Nominal absorbed power	D_C	2,68	kW
Declared COP	COP_C	3,90	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	11,25	kW
Nominal absorbed power	D_A	2,24	kW
Declared COP	COP_D	5,01	
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	4,76	kW
Declared COP	COP_3	1,58	
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	R448a		
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	9,81	kW
Nominal absorbed power	D_A	4,56	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	10,67	kW
Nominal absorbed power	D_B	3,97	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	11,84	kW
Nominal absorbed power	D_C	3,24	kW
Declared COP	COP_C	3,66	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	12,85	kW
Nominal absorbed power	D_A	2,68	kW
Declared COP	COP_D	4,79	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	8,48	kW
Nominal absorbed power	D_3	5,65	kW
Declared COP	COP_3	1,50	
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	R448a		
Element	Symbol	Value	Unit
Evaporation temperature	t	-10°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	$SEPR$	3,29	
Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	11,41	kW
Nominal absorbed power	D_A	5,38	kW
Nominal COP	COP_A	2,12	
Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	12,40	kW
Nominal absorbed power	D_B	4,70	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	13,71	kW
Nominal absorbed power	D_C	3,88	kW
Declared COP	COP_C	3,53	
Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	14,80	kW
Nominal absorbed power	D_A	3,27	kW
Declared COP	COP_D	4,52	
Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	9,87	kW
Nominal absorbed power	D_3	6,62	kW
Declared COP	COP_3	1,49	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	Cdc	0,25	
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