



# EPTAMETIC BITZER R449A

## ENERGY EFFICIENCY DATA SHEETS

*Values of COP and SEPR in conformity  
to the rule UE2015/1095 of May 5<sup>th</sup> 2015*

Nº DOC. Im000102  
REV. “-” - 04.04.17

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Model	EPTAMETIC- GN18 BITZER
Refrigerating Fluid	R449a

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°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	$P_A$	1,13	kW
Nominal absorbed power	$D_A$	1,07	kW
Declared COP	$COP_A$	1,06	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	$P_B$	1,32	kW
Nominal absorbed power	$D_B$	1,07	kW
Declared COP	$COP_B$	1,23	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	$P_C$	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	$D_D$	x	kW
Declared COP	$COP_D$	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	$P_3$	0,80	kW
Nominal absorbed power	$D_3$	1,09	kW
Declared COP	$COP_3$	0,74	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	0,25	

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Model	EPTAMETIC- GN28 BITZER
Refrigerating Fluid	R449a

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	SEPR	1,81	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	$P_A$	1,82	kW
Nominal absorbed power	$D_A$	1,42	kW
Declared COP	$COP_A$	1,28	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	$P_B$	2,09	kW
Nominal absorbed power	$D_B$	1,43	kW
Declared COP	$COP_B$	1,46	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	$P_C$	2,48	kW
Nominal absorbed power	$D_C$	1,40	kW
Declared COP	$COP_C$	1,77	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	$P_D$	2,87	kW
Nominal absorbed power	$D_D$	1,35	kW
Declared COP	$COP_D$	2,13	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	$P_3$	1,39	kW
Nominal absorbed power	$D_3$	1,36	kW
Declared COP	$COP_3$	1,02	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	0,25	

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Model

**EPTAMETIC- GN40 BITZER**

Refrigerating Fluid

**R449a**

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	SEPR	1,82	

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

Nominal cooling capacity	$P_A$	2,32	kW
Nominal absorbed power	$D_A$	1,83	kW
Nominal COP	$COP_A$	1,27	

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

Nominal cooling capacity	$P_B$	2,64	kW
Nominal absorbed power	$D_B$	1,81	kW
Declared COP	$COP_B$	1,46	

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

Nominal cooling capacity	$P_C$	3,10	kW
Nominal absorbed power	$D_C$	1,76	kW
Declared COP	$COP_C$	1,76	

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

Nominal cooling capacity	$P_D$	3,54	kW
Nominal absorbed power	$D_D$	1,68	kW
Declared COP	$COP_D$	2,11	

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

Nominal cooling capacity	$P_3$	1,83	kW
Nominal absorbed power	$D_3$	1,81	kW
Declared COP	$COP_3$	1,01	
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

**EPTAMETIC- GN41 BITZER**

Refrigerating Fluid

**R449a**

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	SEPR	1,75	

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

Nominal cooling capacity	$P_A$	2,49	kW
Nominal absorbed power	$D_A$	1,94	kW
Nominal COP	$COP_A$	1,28	

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

Nominal cooling capacity	$P_B$	2,84	kW
Nominal absorbed power	$D_B$	1,93	kW
Declared COP	$COP_B$	1,47	

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

Nominal cooling capacity	$P_C$	3,36	kW
Nominal absorbed power	$D_C$	1,90	kW
Declared COP	$COP_C$	1,77	

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

Nominal cooling capacity	$P_D$	3,86	kW
Nominal absorbed power	$D_D$	1,88	kW
Declared COP	$COP_D$	2,05	

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

Nominal cooling capacity	$P_3$	1,95	kW
Nominal absorbed power	$D_3$	1,93	kW
Declared COP	$COP_3$	1,01	
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	EPTAMETIC- GN50 BITZER
Refrigerating Fluid	R449a

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	SEPR	1,77	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	$P_A$	3,10	kW
Nominal absorbed power	$D_A$	2,42	kW
Declared COP	$COP_A$	1,28	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	$P_B$	3,56	kW
Nominal absorbed power	$D_B$	2,40	kW
Declared COP	$COP_B$	1,48	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	$P_C$	4,21	kW
Nominal absorbed power	$D_C$	2,37	kW
Declared COP	$COP_C$	1,78	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	$P_D$	4,84	kW
Nominal absorbed power	$D_D$	2,35	kW
Declared COP	$COP_D$	2,06	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	$P_3$	2,42	kW
Nominal absorbed power	$D_3$	2,40	kW
Declared COP	$COP_3$	1,01	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	0,25	

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Model

**EPTAMETIC- GN70 BITZER**

Refrigerating Fluid

**R449a**

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	SEPR	1,53	

#### Parameters at full load and at a room temperature of 32°C

(Point A)

Nominal cooling capacity	$P_A$	3,67	kW
Nominal absorbed power	$D_A$	3,14	kW
Nominal COP	$COP_A$	1,17	

#### Parameters at full load and at a room temperature of 25°C

(Point B)

Nominal cooling capacity	$P_B$	4,21	kW
Nominal absorbed power	$D_B$	3,14	kW
Declared COP	$COP_B$	1,34	

#### Parameters at full load and at a room temperature of 15°C

(Point C)

Nominal cooling capacity	$P_C$	5,00	kW
Nominal absorbed power	$D_C$	3,09	kW
Declared COP	$COP_C$	1,62	

#### Parameters at full load and at a room temperature of 5°C

(Point D)

Nominal cooling capacity	$P_D$	5,76	kW
Nominal absorbed power	$D_D$	2,98	kW
Declared COP	$COP_D$	1,93	

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

Nominal cooling capacity	$P_3$	2,84	kW
Nominal absorbed power	$D_3$	3,05	kW
Declared COP	$COP_3$	0,93	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$		
	0,25		

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**EPTAMETIC- GN75 BITZER**

Refrigerating Fluid

**R449a**

Element	Symbol	Value	Unit
<b>Evaporation temperature</b>	<b>t</b>	<b>-35°C</b>	°C
<b>Annual consumption of electrical energy</b>	<b>Q</b>	<b>x</b>	kWh/a
<b>Seasonal energy efficiency ratio</b>	<b>SEPR</b>	<b>1,58</b>	

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

Nominal cooling capacity	$P_A$	<b>4,27</b>	kW
Nominal absorbed power	$D_A$	<b>3,47</b>	kW
Nominal COP	$COP_A$	<b>1,23</b>	

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

Nominal cooling capacity	$P_B$	<b>4,99</b>	kW
Nominal absorbed power	$D_B$	<b>3,56</b>	kW
Declared COP	$COP_B$	<b>1,40</b>	

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

Nominal cooling capacity	$P_C$	<b>6,05</b>	kW
Nominal absorbed power	$D_C$	<b>3,60</b>	kW
Declared COP	$COP_C$	<b>1,68</b>	

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

Nominal cooling capacity	$P_D$	<b>7,17</b>	kW
Nominal absorbed power	$D_D$	<b>3,55</b>	kW
Declared COP	$COP_D$	<b>2,02</b>	

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

Nominal cooling capacity	$P_3$	<b>3,16</b>	kW
Nominal absorbed power	$D_3$	<b>3,23</b>	kW
Declared COP	$COP_3$	<b>0,98</b>	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	<b>0,25</b>	

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Model

**EPTAMETIC- GN76 BITZER**

Refrigerating Fluid

**R449a**

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	$P_A$	5,55	kW
Nominal absorbed power	$D_A$	4,24	kW
Nominal COP	$COP_A$	1,31	

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

Nominal cooling capacity	$P_B$	6,39	kW
Nominal absorbed power	$D_B$	4,29	kW
Declared COP	$COP_B$	1,49	

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

Nominal cooling capacity	$P_C$	7,62	kW
Nominal absorbed power	$D_C$	4,28	kW
Declared COP	$COP_C$	1,78	

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

Nominal cooling capacity	$P_D$	8,87	kW
Nominal absorbed power	$D_D$	4,16	kW
Declared COP	$COP_D$	2,13	

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

Nominal cooling capacity	$P_3$	4,25	kW
Nominal absorbed power	$D_3$	4,01	kW
Declared COP	$COP_3$	1,06	
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

**EPTAMETIC- GN100 BITZER**

Refrigerating Fluid

**R449a**

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	$P_A$	5,97	kW
Nominal absorbed power	$D_A$	5,02	kW
Nominal COP	$COP_A$	1,19	

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

Nominal cooling capacity	$P_B$	7,03	kW
Nominal absorbed power	$D_B$	5,21	kW
Declared COP	$COP_B$	1,35	

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

Nominal cooling capacity	$P_C$	8,55	kW
Nominal absorbed power	$D_C$	5,28	kW
Declared COP	$COP_C$	1,62	

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

Nominal cooling capacity	$P_D$	10,05	kW
Nominal absorbed power	$D_D$	5,18	kW
Declared COP	$COP_D$	1,94	

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

Nominal cooling capacity	$P_3$	4,37	kW
Nominal absorbed power	$D_3$	4,64	kW
Declared COP	$COP_3$	0,94	
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	EPTAMETIC- GN150 BITZER
Refrigerating Fluid	R449a

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	$P_A$	10,99	kW
Nominal absorbed power	$D_A$	9,09	kW
Declared COP	$COP_A$	1,21	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	$P_B$	12,45	kW
Nominal absorbed power	$D_B$	8,96	kW
Declared COP	$COP_B$	1,39	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	$P_C$	14,51	kW
Nominal absorbed power	$D_C$	8,69	kW
Declared COP	$COP_C$	1,67	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	$P_D$	16,49	kW
Nominal absorbed power	$D_D$	8,37	kW
Declared COP	$COP_D$	1,97	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	$P_3$	8,74	kW
Nominal absorbed power	$D_3$	9,20	kW
Declared COP	$COP_3$	0,95	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	0,25	

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Model

**EPTAMETIC- GN200 BITZER**

Refrigerating Fluid

**R449a**

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	$P_A$	7,49	kW
Nominal absorbed power	$D_A$	5,99	kW
Nominal COP	$COP_A$	1,25	

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

Nominal cooling capacity	$P_B$	8,65	kW
Nominal absorbed power	$D_B$	6,09	kW
Declared COP	$COP_B$	1,42	

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

Nominal cooling capacity	$P_C$	10,27	kW
Nominal absorbed power	$D_C$	6,11	kW
Declared COP	$COP_C$	1,68	

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

Nominal cooling capacity	$P_D$	11,82	kW
Nominal absorbed power	$D_D$	5,97	kW
Declared COP	$COP_D$	1,98	

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

Nominal cooling capacity	$P_3$	5,68	kW
Nominal absorbed power	$D_3$	5,62	kW
Declared COP	$COP_3$	1,01	
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

**EPTAMETIC- GN300 BITZER**

Refrigerating Fluid

**R449a**

Element	Symbol	Value	Unit
Evaporation temperature	t	-35°C	°C
Annual consumption of electrical energy	Q	x	kWh/a
Seasonal energy efficiency ratio	SEPR	1,63	

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

Nominal cooling capacity	$P_A$	13,21	kW
Nominal absorbed power	$D_A$	10,57	kW
Nominal COP	$COP_A$	1,25	

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

Nominal cooling capacity	$P_B$	14,77	kW
Nominal absorbed power	$D_B$	10,33	kW
Declared COP	$COP_B$	1,43	

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

Nominal cooling capacity	$P_C$	16,98	kW
Nominal absorbed power	$D_C$	9,93	kW
Declared COP	$COP_C$	1,71	

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

Nominal cooling capacity	$P_D$	19,09	kW
Nominal absorbed power	$D_D$	9,45	kW
Declared COP	$COP_D$	2,02	

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

Nominal cooling capacity	$P_3$	10,81	kW
Nominal absorbed power	$D_3$	10,81	kW
Declared COP	$COP_3$	1,00	
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

**EPTAMETIC- GP05 BITZER**

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	$P_A$	1,85	kW
Nominal absorbed power	$D_A$	0,92	kW
Nominal COP	$COP_A$	2,01	

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

Nominal cooling capacity	$P_B$	2,08	kW
Nominal absorbed power	$D_B$	0,89	kW
Declared COP	$COP_B$	2,35	

**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	$D_D$	x	kW
Declared COP	$COP_D$	x	

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

Nominal cooling capacity	$P_3$	1,47	kW
Nominal absorbed power	$D_3$	0,95	kW
Declared COP	$COP_3$	1,55	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$		
	0,25		

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Model

**EPTAMETIC- GP10 BITZER**

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	$P_A$	2,38	kW
Nominal absorbed power	$D_A$	1,20	kW
Nominal COP	$COP_A$	1,99	

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

Nominal cooling capacity	$P_B$	2,67	kW
Nominal absorbed power	$D_B$	1,15	kW
Declared COP	$COP_B$	2,32	

**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	$D_D$	x	kW
Declared COP	$COP_D$	x	

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

Nominal cooling capacity	$P_3$	1,93	kW
Nominal absorbed power	$D_3$	1,26	kW
Declared COP	$COP_3$	1,53	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$		
	0,25		

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Model	EPTAMETIC- GP15 BITZER
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	$P_A$	3,01	kW
Nominal absorbed power	$D_A$	1,53	kW
Declared COP	$COP_A$	1,97	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	$P_B$	3,35	kW
Nominal absorbed power	$D_B$	1,46	kW
Declared COP	$COP_B$	2,29	

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	$D_D$	x	kW
Declared COP	$COP_D$	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	$P_3$	2,45	kW
Nominal absorbed power	$D_3$	1,62	kW
Declared COP	$COP_3$	1,51	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	0,25	

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Model

**EPTAMETIC- GP20 BITZER**

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	$P_A$	4,43	kW
Nominal absorbed power	$D_A$	2,21	kW
Nominal COP	$COP_A$	2,01	

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

Nominal cooling capacity	$P_B$	4,93	kW
Nominal absorbed power	$D_B$	2,10	kW
Declared COP	$COP_B$	2,35	

**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	$D_D$	x	kW
Declared COP	$COP_D$	x	

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

Nominal cooling capacity	$P_3$	3,64	kW
Nominal absorbed power	$D_3$	2,39	kW
Declared COP	$COP_3$	1,52	
Control of capacity	fixed		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$		
	0,25		

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Model

**EPTAMETIC- GP25 BITZER**

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	2,96	

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

Nominal cooling capacity	$P_A$	5,37	kW
Nominal absorbed power	$D_A$	2,51	kW
Nominal COP	$COP_A$	2,14	

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

Nominal cooling capacity	$P_B$	5,94	kW
Nominal absorbed power	$D_B$	2,39	kW
Declared COP	$COP_B$	2,49	

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

Nominal cooling capacity	$P_C$	6,77	kW
Nominal absorbed power	$D_C$	2,16	kW
Declared COP	$COP_C$	3,14	

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

Nominal cooling capacity	$P_D$	7,61	kW
Nominal absorbed power	$D_D$	1,89	kW
Declared COP	$COP_D$	4,03	

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

Nominal cooling capacity	$P_3$	4,49	kW
Nominal absorbed power	$D_3$	2,66	kW
Declared COP	$COP_3$	1,69	
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

**EPTAMETIC- GP30 BITZER**

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	2,78	

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

Nominal cooling capacity	$P_A$	7,83	kW
Nominal absorbed power	$D_A$	3,86	kW
Nominal COP	$COP_A$	2,03	

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

Nominal cooling capacity	$P_B$	8,61	kW
Nominal absorbed power	$D_B$	3,65	kW
Declared COP	$COP_B$	2,36	

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

Nominal cooling capacity	$P_C$	9,75	kW
Nominal absorbed power	$D_C$	3,29	kW
Declared COP	$COP_C$	2,96	

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

Nominal cooling capacity	$P_D$	10,90	kW
Nominal absorbed power	$D_D$	2,89	kW
Declared COP	$COP_D$	3,77	

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

Nominal cooling capacity	$P_3$	6,62	kW
Nominal absorbed power	$D_3$	4,14	kW
Declared COP	$COP_3$	1,60	
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

**EPTAMETIC- GP40 BITZER**

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	3,00	

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

Nominal cooling capacity	$P_A$	8,82	kW
Nominal absorbed power	$D_A$	4,08	kW
Nominal COP	$COP_A$	2,16	

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

Nominal cooling capacity	$P_B$	9,73	kW
Nominal absorbed power	$D_B$	3,84	kW
Declared COP	$COP_B$	2,53	

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

Nominal cooling capacity	$P_C$	11,04	kW
Nominal absorbed power	$D_C$	3,45	kW
Declared COP	$COP_C$	3,20	

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

Nominal cooling capacity	$P_D$	12,36	kW
Nominal absorbed power	$D_D$	3,03	kW
Declared COP	$COP_D$	4,08	

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

Nominal cooling capacity	$P_3$	7,42	kW
Nominal absorbed power	$D_3$	4,39	kW
Declared COP	$COP_3$	1,69	
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

**EPTAMETIC- GP47 BITZER**

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	2,96	

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

Nominal cooling capacity	$P_A$	11,29	kW
Nominal absorbed power	$D_A$	5,30	kW
Nominal COP	$COP_A$	2,13	

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

Nominal cooling capacity	$P_B$	12,46	kW
Nominal absorbed power	$D_B$	4,98	kW
Declared COP	$COP_B$	2,50	

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

Nominal cooling capacity	$P_C$	14,13	kW
Nominal absorbed power	$D_C$	4,47	kW
Declared COP	$COP_C$	3,16	

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

Nominal cooling capacity	$P_D$	15,79	kW
Nominal absorbed power	$D_D$	3,93	kW
Declared COP	$COP_D$	4,02	

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

Nominal cooling capacity	$P_3$	9,50	kW
Nominal absorbed power	$D_3$	5,72	kW
Declared COP	$COP_3$	1,66	
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

**EPTAMETIC- GP50 BITZER**

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	3,25	

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

Nominal cooling capacity	$P_A$	13,33	kW
Nominal absorbed power	$D_A$	5,80	kW
Nominal COP	$COP_A$	2,30	

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

Nominal cooling capacity	$P_B$	14,72	kW
Nominal absorbed power	$D_B$	5,45	kW
Declared COP	$COP_B$	2,70	

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

Nominal cooling capacity	$P_C$	16,74	kW
Nominal absorbed power	$D_C$	4,87	kW
Declared COP	$COP_C$	3,44	

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

Nominal cooling capacity	$P_D$	18,75	kW
Nominal absorbed power	$D_D$	4,17	kW
Declared COP	$COP_D$	4,50	

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

Nominal cooling capacity	$P_3$	11,18	kW
Nominal absorbed power	$D_3$	6,25	kW
Declared COP	$COP_3$	1,79	
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

**EPTAMETIC- GP75 BITZER**

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	3,07	

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

Nominal cooling capacity	$P_A$	16,29	kW
Nominal absorbed power	$D_A$	7,37	kW
Nominal COP	$COP_A$	2,21	

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

Nominal cooling capacity	$P_B$	17,97	kW
Nominal absorbed power	$D_B$	7,02	kW
Declared COP	$COP_B$	2,56	

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

Nominal cooling capacity	$P_C$	20,78	kW
Nominal absorbed power	$D_C$	6,35	kW
Declared COP	$COP_C$	3,27	

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

Nominal cooling capacity	$P_D$	23,58	kW
Nominal absorbed power	$D_D$	5,57	kW
Declared COP	$COP_D$	4,23	

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

Nominal cooling capacity	$P_3$	13,56	kW
Nominal absorbed power	$D_3$	7,79	kW
Declared COP	$COP_3$	1,74	
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

**EPTAMETIC- GP100 BITZER**

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	2,99	

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

Nominal cooling capacity	$P_A$	20,35	kW
Nominal absorbed power	$D_A$	9,47	kW
Nominal COP	$COP_A$	2,15	

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

Nominal cooling capacity	$P_B$	22,53	kW
Nominal absorbed power	$D_B$	8,94	kW
Declared COP	$COP_B$	2,52	

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

Nominal cooling capacity	$P_C$	25,69	kW
Nominal absorbed power	$D_C$	8,08	kW
Declared COP	$COP_C$	3,18	

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

Nominal cooling capacity	$P_D$	28,94	kW
Nominal absorbed power	$D_D$	7,06	kW
Declared COP	$COP_D$	4,10	

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

Nominal cooling capacity	$P_3$	17,02	kW
Nominal absorbed power	$D_3$	10,07	kW
Declared COP	$COP_3$	1,69	
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

**EPTAMETIC- GP150 BITZER**

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	3,33	

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

Nominal cooling capacity	$P_A$	24,23	kW
Nominal absorbed power	$D_A$	10,77	kW
Nominal COP	$COP_A$	2,25	

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

Nominal cooling capacity	$P_B$	26,93	kW
Nominal absorbed power	$D_B$	10,20	kW
Declared COP	$COP_B$	2,64	

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

Nominal cooling capacity	$P_C$	30,79	kW
Nominal absorbed power	$D_C$	9,19	kW
Declared COP	$COP_C$	3,35	

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

Nominal cooling capacity	$P_D$	34,60	kW
Nominal absorbed power	$D_D$	7,99	kW
Declared COP	$COP_D$	4,33	

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

Nominal cooling capacity	$P_3$	20,00	kW
Nominal absorbed power	$D_3$	11,43	kW
Declared COP	$COP_3$	1,75	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	0,25	

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Model

**EPTAMETIC- GP200 BITZER**

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	3,10	

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

Nominal cooling capacity	$P_A$	28,42	kW
Nominal absorbed power	$D_A$	12,74	kW
Nominal COP	$COP_A$	2,23	

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

Nominal cooling capacity	$P_B$	31,42	kW
Nominal absorbed power	$D_B$	11,99	kW
Declared COP	$COP_B$	2,62	

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

Nominal cooling capacity	$P_C$	35,61	kW
Nominal absorbed power	$D_C$	10,79	kW
Declared COP	$COP_C$	3,30	

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

Nominal cooling capacity	$P_D$	39,62	kW
Nominal absorbed power	$D_D$	9,37	kW
Declared COP	$COP_D$	4,23	

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

Nominal cooling capacity	$P_3$	23,64	kW
Nominal absorbed power	$D_3$	13,59	kW
Declared COP	$COP_3$	1,74	
Control of capacity	<i>fixed</i>		
Degradation coefficient of the units with a fixed and progressive capacity	$Cdc$	0,25	



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