



BITZER Kühlmaschinenbau GmbH
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BITZER Software v6.18.0 rev2809

21.10.2025 / All data subject to change.

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	2,82		kW
Rated power input	D _A	1,34		kW
Rated COP	COP _A	2,10		

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	3,12		kW
Declared power input	D _B	1,28		kW
Declared COP	COP _B	2,45		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	2,34		kW
Declared power input	D _E	1,42		kW
Declared COP	COP _E	1,65		

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

Additional document: [Declaration of Conformity AC-500](#)

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* Symbols taken from english version of the Regulation 2015/1095



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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	4,30	1,47	kW
Rated power input	D _A	2,46	1,33	kW
Rated COP	COP _A	1,74	1,10	

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	4,88	1,73	kW
Declared power input	D _B	2,33	1,32	kW
Declared COP	COP _B	2,09	1,30	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	3,42	1,10	kW
Declared power input	D _E	2,68	1,35	kW
Declared COP	COP _E	1,27	0,81	

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH44E/2FES-2

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q			kWh/a
Seasonal Energy Performance Ratio	SEPR			

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	Error: -4	Error: -4	kW
Rated power input	D _A			kW
Rated COP	COP _A			

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B			kW
Declared power input	D _B			kW
Declared COP	COP _B			

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C			kW
Declared power input	D _C			kW
Declared COP	COP _C			

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D			kW
Declared power input	D _D			kW
Declared COP	COP _D			

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E			kW
Declared power input	D _E			kW
Declared COP	COP _E			

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	to _h	20°C	
Power voltage	Net	400V/50Hz	
Coefficient of degradation for units w/o capacity control**	C _{dc}	0,25	

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** Since condensing units are non functional systems C_{dc} can not be determined by test. For this reason the default degradation coefficient C_{dc} (0.25) has to be applied according to EN 13215, Annex A.



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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	4,37		kW
Rated power input	D _A	2,26		kW
Rated COP	COP _A	1,93		

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	4,79		kW
Declared power input	D _B	2,13		kW
Declared COP	COP _B	2,25		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	--		kW
Declared power input	D _E	--		kW
Declared COP	COP _E	--		

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH44E/2FES-2

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q			kWh/a
Seasonal Energy Performance Ratio	SEPR			

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	Error: -4	Error: -4	kW
Rated power input	D _A			kW
Rated COP	COP _A			

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B			kW
Declared power input	D _B			kW
Declared COP	COP _B			

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C			kW
Declared power input	D _C			kW
Declared COP	COP _C			

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D			kW
Declared power input	D _D			kW
Declared COP	COP _D			

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E			kW
Declared power input	D _E			kW
Declared COP	COP _E			

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	toh	20°C	
Power voltage	Net	400V/50Hz	
Coefficient of degradation for units w/o capacity control**	Cdc	0,25	

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	3,66	1,01	kW
Rated power input	D _A	2,03	0,98	kW
Rated COP	COP _A	1,80	1,02	

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	4,13	1,17	kW
Declared power input	D _B	1,94	0,99	kW
Declared COP	COP _B	2,13	1,19	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	2,92	0,67	kW
Declared power input	D _E	2,19	1,01	kW
Declared COP	COP _E	1,33	0,66	

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R455A

Condensing unit with the selected refrigerant is only intended for evaporating temperatures above -30°C within the EU due to the legal requirements from the regulation (EU) 2015/1095. Permissible condensing unit-refrigerant combinations see Declaration of Conformity AC-500

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10		°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	3,46		kW
Rated power input	D _A	2,28		kW
Rated COP	COP _A	1,52		

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	3,97		kW
Declared power input	D _B	2,16		kW
Declared COP	COP _B	1,84		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	--		kW
Declared power input	D _E	--		kW
Declared COP	COP _E	--		

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	4,39	1,54	kW
Rated power input	D _A	2,47	1,33	kW
Rated COP	COP _A	1,78	1,15	

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	4,99	1,81	kW
Declared power input	D _B	2,34	1,32	kW
Declared COP	COP _B	2,13	1,36	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	3,47	1,15	kW
Declared power input	D _E	2,68	1,35	kW
Declared COP	COP _E	1,29	0,85	

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toH	20°C		
Power voltage	Net	400V/50Hz		

Additional document: [Declaration of Conformity AC-500](#)

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH44E/2FES-2

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q			kWh/a
Seasonal Energy Performance Ratio	SEPR			

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	Error: -4	Error: -4	kW
Rated power input	D _A			kW
Rated COP	COP _A			

Point B: Parameters at part load and ambient temperature 25°C

Declared cooling capacity	P _B			kW
Declared power input	D _B			kW
Declared COP	COP _B			

Point C: Parameters at part load and ambient temperature 15°C

Declared cooling capacity	P _C			kW
Declared power input	D _C			kW
Declared COP	COP _C			

Point D: Parameters at part load and ambient temperature 5°C

Declared cooling capacity	P _D			kW
Declared power input	D _D			kW
Declared COP	COP _D			

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E			kW
Declared power input	D _E			kW
Declared COP	COP _E			

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	to _h	20°C	
Power voltage	Net	400V/50Hz	
Coefficient of degradation for units w/o capacity control**	C _{dc}	0,25	

Additional document: [Declaration of Conformity AC-500](#)

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	4,09	1,15	kW
Rated power input	D _A	2,29	1,08	kW
Rated COP	COP _A	1,79	1,07	

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	4,62	1,34	kW
Declared power input	D _B	2,18	1,08	kW
Declared COP	COP _B	2,12	1,24	

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	3,31	0,77	kW
Declared power input	D _E	2,52	1,11	kW
Declared COP	COP _E	1,31	0,70	

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

Additional document: [Declaration of Conformity AC-500](#)

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	2,58		kW
Rated power input	D _A	1,19		kW
Rated COP	COP _A	2,17		

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	2,85		kW
Declared power input	D _B	1,11		kW
Declared COP	COP _B	2,57		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	2,16		kW
Declared power input	D _E	1,28		kW
Declared COP	COP _E	1,69		

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

Additional document: [Declaration of Conformity AC-500](#)

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	3,08		kW
Rated power input	D _A	1,40		kW
Rated COP	COP _A	2,20		

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	3,42		kW
Declared power input	D _B	1,32		kW
Declared COP	COP _B	2,60		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	2,57		kW
Declared power input	D _E	1,50		kW
Declared COP	COP _E	1,71		

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	2,85		kW
Rated power input	D _A	1,39		kW
Rated COP	COP _A	2,06		

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	3,19		kW
Declared power input	D _B	1,31		kW
Declared COP	COP _B	2,42		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	2,33		kW
Declared power input	D _E	1,48		kW
Declared COP	COP _E	1,58		

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C

Point A: Parameters at full load and ambient temperature 32°C

Rated cooling capacity	P _A	2,17		kW
Rated power input	D _A	1,06		kW
Rated COP	COP _A	2,04		

Point B: Parameters at part load and ambient temperature 25°C (information only)

Declared cooling capacity	P _B	2,41		kW
Declared power input	D _B	1,01		kW
Declared COP	COP _B	2,38		

Point E: Parameters at full load and ambient temperature 43°C (information only)

Declared cooling capacity	P _E	1,80		kW
Declared power input	D _E	1,13		kW
Declared COP	COP _E	1,59		

Other items

Capacity control	—			
Reference temperature	Dew point temp.			
Suction gas temperature	toh	20°C		
Power voltage	Net	400V/50Hz		

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