



BITZER Kühlmaschinenbau GmbH
Peter-Schaufler-Platz 1
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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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	20072		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,34		

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

Rated cooling capacity	P _A	10,90		kW
Rated power input	D _A	4,48		kW
Rated COP	COP _A	2,43		

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

Declared cooling capacity	P _B	11,89		kW
Declared power input	D _B	4,20		kW
Declared COP	COP _B	2,83		

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

Declared cooling capacity	P _C	13,27		kW
Declared power input	D _C	3,75		kW
Declared COP	COP _C	3,54		

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

Declared cooling capacity	P _D	14,62		kW
Declared power input	D _D	3,24		kW
Declared COP	COP _D	4,52		

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

Declared cooling capacity	P _E	9,33		kW
Declared power input	D _E	4,83		kW
Declared COP	COP _E	1,93		

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	

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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	35545	24558	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,05	1,81	

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

Rated cooling capacity	P _A	17,65	5,97	kW
Rated power input	D _A	8,14	4,51	kW
Rated COP	COP _A	2,17	1,32	

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

Declared cooling capacity	P _B	19,65	6,81	kW
Declared power input	D _B	7,67	4,42	kW
Declared COP	COP _B	2,56	1,54	

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

Declared cooling capacity	P _C	22,5	8,05	kW
Declared power input	D _C	6,91	4,23	kW
Declared COP	COP _C	3,26	1,90	

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

Declared cooling capacity	P _D	25,4	9,26	kW
Declared power input	D _D	6,04	3,96	kW
Declared COP	COP _D	4,20	2,34	

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

Declared cooling capacity	P _E	14,49	4,71	kW
Declared power input	D _E	8,75	4,57	kW
Declared COP	COP _E	1,66	1,03	

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

SEPR Declaration Model: LH114E/4CES-9

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	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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	30467		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,07		

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

Rated cooling capacity	P _A	15,19		kW
Rated power input	D _A	6,80		kW
Rated COP	COP _A	2,23		

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

Declared cooling capacity	P _B	16,74		kW
Declared power input	D _B	6,43		kW
Declared COP	COP _B	2,60		

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

Declared cooling capacity	P _C	18,92		kW
Declared power input	D _C	5,80		kW
Declared COP	COP _C	3,26		

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

Declared cooling capacity	P _D	21,1		kW
Declared power input	D _D	5,06		kW
Declared COP	COP _D	4,16		

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

Declared cooling capacity	P _E	12,75		kW
Declared power input	D _E	7,25		kW
Declared COP	COP _E	1,76		

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

SEPR Declaration Model: LH114E/4CES-9

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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	29980	20518	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,98	1,56	

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

Rated cooling capacity	P _A	14,53	4,30	kW
Rated power input	D _A	6,77	3,60	kW
Rated COP	COP _A	2,15	1,20	

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

Declared cooling capacity	P _B	16,09	4,92	kW
Declared power input	D _B	6,39	3,57	kW
Declared COP	COP _B	2,52	1,38	

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

Declared cooling capacity	P _C	18,32	5,79	kW
Declared power input	D _C	5,77	3,49	kW
Declared COP	COP _C	3,18	1,66	

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

Declared cooling capacity	P _D	20,5	6,56	kW
Declared power input	D _D	5,04	3,34	kW
Declared COP	COP _D	4,07	1,96	

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

Declared cooling capacity	P _E	12,12	3,39	kW
Declared power input	D _E	7,25	3,57	kW
Declared COP	COP _E	1,67	0,95	

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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	33307	21213	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,63	1,45	

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

Rated cooling capacity	P _A	14,23	4,14	kW
Rated power input	D _A	7,45	3,78	kW
Rated COP	COP _A	1,91	1,09	

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

Declared cooling capacity	P _B	15,86	4,78	kW
Declared power input	D _B	7,09	3,78	kW
Declared COP	COP _B	2,24	1,26	

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

Declared cooling capacity	P _C	18,23	5,73	kW
Declared power input	D _C	6,48	3,71	kW
Declared COP	COP _C	2,81	1,54	

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

Declared cooling capacity	P _D	20,6	6,66	kW
Declared power input	D _D	5,76	3,58	kW
Declared COP	COP _D	3,57	1,86	

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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	35630	24573	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,12	1,89	

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

Rated cooling capacity	P _A	18,07	6,24	kW
Rated power input	D _A	8,15	4,51	kW
Rated COP	COP _A	2,22	1,38	

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

Declared cooling capacity	P _B	20,2	7,13	kW
Declared power input	D _B	7,69	4,42	kW
Declared COP	COP _B	2,62	1,61	

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

Declared cooling capacity	P _C	23,1	8,43	kW
Declared power input	D _C	6,94	4,24	kW
Declared COP	COP _C	3,33	1,99	

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

Declared cooling capacity	P _D	26,1	9,70	kW
Declared power input	D _D	6,08	3,97	kW
Declared COP	COP _D	4,29	2,44	

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

Declared cooling capacity	P _E	14,79	4,92	kW
Declared power input	D _E	8,76	4,57	kW
Declared COP	COP _E	1,69	1,08	

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

SEPR Declaration Model: LH114E/4CES-9

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	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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	33210	22023	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,04	1,65	

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

Rated cooling capacity	P _A	16,44	4,88	kW
Rated power input	D _A	7,53	3,92	kW
Rated COP	COP _A	2,18	1,24	

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

Declared cooling capacity	P _B	18,14	5,57	kW
Declared power input	D _B	7,09	3,88	kW
Declared COP	COP _B	2,56	1,43	

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

Declared cooling capacity	P _C	20,6	6,56	kW
Declared power input	D _C	6,36	3,76	kW
Declared COP	COP _C	3,24	1,74	

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

Declared cooling capacity	P _D	23,0	7,47	kW
Declared power input	D _D	5,52	3,57	kW
Declared COP	COP _D	4,17	2,09	

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

Declared cooling capacity	P _E	13,79	3,86	kW
Declared power input	D _E	8,10	3,91	kW
Declared COP	COP _E	1,70	0,99	

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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	18147		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,24		

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

Rated cooling capacity	P _A	9,57		kW
Rated power input	D _A	4,03		kW
Rated COP	COP _A	2,38		

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

Declared cooling capacity	P _B	10,45		kW
Declared power input	D _B	3,78		kW
Declared COP	COP _B	2,76		

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

Declared cooling capacity	P _C	11,68		kW
Declared power input	D _C	3,38		kW
Declared COP	COP _C	3,46		

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

Declared cooling capacity	P _D	12,82		kW
Declared power input	D _D	2,95		kW
Declared COP	COP _D	4,34		

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

Declared cooling capacity	P _E	8,17		kW
Declared power input	D _E	4,34		kW
Declared COP	COP _E	1,88		

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

** 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

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	21070		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,37		

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

Rated cooling capacity	P _A	11,57		kW
Rated power input	D _A	4,72		kW
Rated COP	COP _A	2,45		

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

Declared cooling capacity	P _B	12,67		kW
Declared power input	D _B	4,44		kW
Declared COP	COP _B	2,86		

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

Declared cooling capacity	P _C	14,21		kW
Declared power input	D _C	3,97		kW
Declared COP	COP _C	3,58		

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

Declared cooling capacity	P _D	15,72		kW
Declared power input	D _D	3,43		kW
Declared COP	COP _D	4,58		

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

Declared cooling capacity	P _E	9,82		kW
Declared power input	D _E	5,08		kW
Declared COP	COP _E	1,93		

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	

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

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	20425		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,34		

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

Rated cooling capacity	P _A	11,09		kW
Rated power input	D _A	4,62		kW
Rated COP	COP _A	2,40		

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

Declared cooling capacity	P _B	12,19		kW
Declared power input	D _B	4,34		kW
Declared COP	COP _B	2,81		

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

Declared cooling capacity	P _C	13,73		kW
Declared power input	D _C	3,87		kW
Declared COP	COP _C	3,55		

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

Declared cooling capacity	P _D	15,24		kW
Declared power input	D _D	3,35		kW
Declared COP	COP _D	4,55		

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

Declared cooling capacity	P _E	9,36		kW
Declared power input	D _E	5,00		kW
Declared COP	COP _E	1,87		

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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4CES-9Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	16443		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,08		

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

Rated cooling capacity	P _A	8,23		kW
Rated power input	D _A	3,52		kW
Rated COP	COP _A	2,34		

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

Declared cooling capacity	P _B	8,95		kW
Declared power input	D _B	3,31		kW
Declared COP	COP _B	2,71		

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

Declared cooling capacity	P _C	9,97		kW
Declared power input	D _C	2,96		kW
Declared COP	COP _C	3,37		

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

Declared cooling capacity	P _D	10,64		kW
Declared power input	D _D	2,72		kW
Declared COP	COP _D	3,92		

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

Declared cooling capacity	P _E	7,07		kW
Declared power input	D _E	3,80		kW
Declared COP	COP _E	1,86		

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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