



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	27952		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,31		

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

Rated cooling capacity	P _A	15,05		kW
Rated power input	D _A	5,98		kW
Rated COP	COP_A	2,52		

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

Declared cooling capacity	P _B	16,68		kW
Declared power input	D _B	5,75		kW
Declared COP	COP_B	2,90		

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

Declared cooling capacity	P _C	18,90		kW
Declared power input	D _C	5,32		kW
Declared COP	COP_C	3,55		

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

Declared cooling capacity	P _D	20,9		kW
Declared power input	D _D	4,77		kW
Declared COP	COP_D	4,39		

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

Declared cooling capacity	P _E	12,48		kW
Declared power input	D _E	6,21		kW
Declared COP	COP_E	2,01		

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](#)

Contact details:

BITZER Kühlmaschinenbau GmbH
Peter-Schaufler-Platz 1
71065 Sindelfingen
Deutschland
Tel +49 (0) 70 31 932-0
Fax +49 (0) 70 31 932-147
E-Mail: bitzer@bitzer.de
Internet: www.bitzer.de

* 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/4PES-12Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	50778	30253	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,79	1,87	

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

Rated cooling capacity	P _A	23,1	7,60	kW
Rated power input	D _A	11,20	5,44	kW
Rated COP	COP_A	2,06	1,40	

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

Declared cooling capacity	P _B	26,0	8,89	kW
Declared power input	D _B	10,77	5,47	kW
Declared COP	COP_B	2,41	1,62	

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

Declared cooling capacity	P _C	30,2	10,74	kW
Declared power input	D _C	10,02	5,40	kW
Declared COP	COP_C	3,01	1,99	

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

Declared cooling capacity	P _D	34,3	12,60	kW
Declared power input	D _D	9,10	5,21	kW
Declared COP	COP_D	3,77	2,42	

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

Declared cooling capacity	P _E	18,41	5,65	kW
Declared power input	D _E	11,67	5,24	kW
Declared COP	COP_E	1,58	1,08	

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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	45184	24669	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,86	1,68	

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

Rated cooling capacity	P _A	21,0	5,55	kW
Rated power input	D _A	9,83	4,34	kW
Rated COP	COP_A	2,14	1,28	

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

Declared cooling capacity	P _B	23,5	6,59	kW
Declared power input	D _B	9,46	4,46	kW
Declared COP	COP_B	2,48	1,48	

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

Declared cooling capacity	P _C	27,0	8,09	kW
Declared power input	D _C	8,78	4,51	kW
Declared COP	COP_C	3,08	1,79	

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

Declared cooling capacity	P _D	30,5	9,57	kW
Declared power input	D _D	7,94	4,43	kW
Declared COP	COP_D	3,84	2,16	

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

Declared cooling capacity	P _E	17,19	--	kW
Declared power input	D _E	10,22	--	kW
Declared COP	COP_E	1,68	--	

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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	42674		kWh/a
Seasonal Energy Performance Ratio	SEPR	2,91		

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

Rated cooling capacity	P _A	20,2		kW
Rated power input	D _A	9,28		kW
Rated COP	COP_A	2,18		

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

Declared cooling capacity	P _B	22,6		kW
Declared power input	D _B	8,95		kW
Declared COP	COP_B	2,52		

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

Declared cooling capacity	P _C	25,9		kW
Declared power input	D _C	8,28		kW
Declared COP	COP_C	3,12		

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

Declared cooling capacity	P _D	29,0		kW
Declared power input	D _D	7,40		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	--		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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	47524	25033	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,83	1,72	

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

Rated cooling capacity	P _A	21,9	5,76	kW
Rated power input	D _A	10,41	4,44	kW
Rated COP	COP_A	2,10	1,30	

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

Declared cooling capacity	P _B	24,4	6,93	kW
Declared power input	D _B	10,01	4,60	kW
Declared COP	COP_B	2,44	1,51	

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

Declared cooling capacity	P _C	28,1	8,61	kW
Declared power input	D _C	9,25	4,68	kW
Declared COP	COP_C	3,04	1,84	

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

Declared cooling capacity	P _D	31,8	10,29	kW
Declared power input	D _D	8,31	4,62	kW
Declared COP	COP_D	3,83	2,23	

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

Declared cooling capacity	P _E	17,93	--	kW
Declared power input	D _E	10,81	--	kW
Declared COP	COP_E	1,66	--	

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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	40957	23017	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,83	1,62	

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

Rated cooling capacity	P _A	18,86	5,01	kW
Rated power input	D _A	8,80	4,03	kW
Rated COP	COP_A	2,14	1,24	

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

Declared cooling capacity	P _B	21,1	5,91	kW
Declared power input	D _B	8,51	4,08	kW
Declared COP	COP_B	2,48	1,45	

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

Declared cooling capacity	P _C	24,4	7,29	kW
Declared power input	D _C	7,98	4,13	kW
Declared COP	COP_C	3,06	1,76	

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

Declared cooling capacity	P _D	27,8	8,61	kW
Declared power input	D _D	7,35	4,21	kW
Declared COP	COP_D	3,78	2,05	

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

Declared cooling capacity	P _E	15,26	3,68	kW
Declared power input	D _E	9,09	3,93	kW
Declared COP	COP_E	1,68	0,94	

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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	44565	23249	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,50	1,51	

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

Rated cooling capacity	P _A	18,10	4,70	kW
Rated power input	D _A	9,58	4,23	kW
Rated COP	COP_A	1,89	1,11	

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

Declared cooling capacity	P _B	20,6	5,63	kW
Declared power input	D _B	9,34	4,29	kW
Declared COP	COP_B	2,20	1,31	

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

Declared cooling capacity	P _C	24,0	7,04	kW
Declared power input	D _C	8,86	4,33	kW
Declared COP	COP_C	2,71	1,63	

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

Declared cooling capacity	P _D	27,5	8,56	kW
Declared power input	D _D	8,22	4,37	kW
Declared COP	COP_D	3,34	1,96	

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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	50907	30329	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,84	1,96	

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

Rated cooling capacity	P _A	23,6	7,97	kW
Rated power input	D _A	11,21	5,44	kW
Rated COP	COP_A	2,10	1,47	

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

Declared cooling capacity	P _B	26,6	9,31	kW
Declared power input	D _B	10,80	5,47	kW
Declared COP	COP_B	2,46	1,70	

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

Declared cooling capacity	P _C	30,9	11,24	kW
Declared power input	D _C	10,06	5,41	kW
Declared COP	COP_C	3,07	2,08	

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

Declared cooling capacity	P _D	35,2	13,19	kW
Declared power input	D _D	9,16	5,22	kW
Declared COP	COP_D	3,84	2,53	

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

Declared cooling capacity	P _E	18,73	5,94	kW
Declared power input	D _E	11,68	5,24	kW
Declared COP	COP_E	1,60	1,13	

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/4PES-12Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	46145	26002	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,87	1,72	

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

Rated cooling capacity	P _A	21,5	6,00	kW
Rated power input	D _A	10,13	4,45	kW
Rated COP	COP_A	2,12	1,35	

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

Declared cooling capacity	P _B	24,1	7,07	kW
Declared power input	D _B	9,74	4,61	kW
Declared COP	COP_B	2,47	1,53	

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

Declared cooling capacity	P _C	27,7	8,62	kW
Declared power input	D _C	9,00	4,69	kW
Declared COP	COP_C	3,08	1,84	

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

Declared cooling capacity	P _D	31,3	10,15	kW
Declared power input	D _D	8,08	4,64	kW
Declared COP	COP_D	3,87	2,19	

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

Declared cooling capacity	P _E	17,50	4,35	kW
Declared power input	D _E	10,53	4,02	kW
Declared COP	COP_E	1,66	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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	46092	25999	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,86	1,72	

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

Rated cooling capacity	P _A	21,4	6,00	kW
Rated power input	D _A	10,13	4,45	kW
Rated COP	COP_A	2,12	1,35	

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

Declared cooling capacity	P _B	24,0	7,07	kW
Declared power input	D _B	9,73	4,61	kW
Declared COP	COP_B	2,46	1,53	

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

Declared cooling capacity	P _C	27,6	8,62	kW
Declared power input	D _C	9,00	4,69	kW
Declared COP	COP_C	3,07	1,84	

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

Declared cooling capacity	P _D	31,2	10,16	kW
Declared power input	D _D	8,08	4,64	kW
Declared COP	COP_D	3,86	2,19	

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

Declared cooling capacity	P _E	17,42	4,35	kW
Declared power input	D _E	10,53	4,02	kW
Declared COP	COP_E	1,65	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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SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	25030		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,26		

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

Rated cooling capacity	P _A	13,28		kW
Rated power input	D _A	5,35		kW
Rated COP	COP_A	2,48		

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

Declared cooling capacity	P _B	14,73		kW
Declared power input	D _B	5,14		kW
Declared COP	COP_B	2,86		

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

Declared cooling capacity	P _C	16,69		kW
Declared power input	D _C	4,75		kW
Declared COP	COP_C	3,51		

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

Declared cooling capacity	P _D	18,45		kW
Declared power input	D _D	4,29		kW
Declared COP	COP_D	4,30		

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

Declared cooling capacity	P _E	10,97		kW
Declared power input	D _E	5,58		kW
Declared COP	COP_E	1,97		

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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Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	29506		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,30		

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

Rated cooling capacity	P _A	15,86		kW
Rated power input	D _A	6,32		kW
Rated COP	COP_A	2,51		

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

Declared cooling capacity	P _B	17,64		kW
Declared power input	D _B	6,09		kW
Declared COP	COP_B	2,90		

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

Declared cooling capacity	P _C	20,1		kW
Declared power input	D _C	5,65		kW
Declared COP	COP_C	3,55		

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

Declared cooling capacity	P _D	22,3		kW
Declared power input	D _D	5,09		kW
Declared COP	COP_D	4,38		

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

Declared cooling capacity	P _E	13,05		kW
Declared power input	D _E	6,55		kW
Declared COP	COP_E	1,99		

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](#)

Contact details:

BITZER Kühlmaschinenbau GmbH
Peter-Schaufler-Platz 1
71065 Sindelfingen
Deutschland
Tel +49 (0) 70 31 932-0
Fax +49 (0) 70 31 932-147
E-Mail: bitzer@bitzer.de
Internet: www.bitzer.de

* 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.



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	28780		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,27		

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

Rated cooling capacity	P _A	15,32		kW
Rated power input	D _A	6,24		kW
Rated COP	COP_A	2,46		

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

Declared cooling capacity	P _B	17,06		kW
Declared power input	D _B	5,98		kW
Declared COP	COP_B	2,85		

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

Declared cooling capacity	P _C	19,46		kW
Declared power input	D _C	5,53		kW
Declared COP	COP_C	3,52		

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

Declared cooling capacity	P _D	21,7		kW
Declared power input	D _D	4,97		kW
Declared COP	COP_D	4,37		

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

Declared cooling capacity	P _E	12,60		kW
Declared power input	D _E	6,52		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		

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Peter-Schaufler-Platz 1
71065 Sindelfingen
Deutschland
Tel +49 (0) 70 31 932-0
Fax +49 (0) 70 31 932-147
E-Mail: bitzer@bitzer.de
Internet: www.bitzer.de

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4PES-12Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	22409		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,20		

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

Rated cooling capacity	P _A	11,67		kW
Rated power input	D _A	4,65		kW
Rated COP	COP_A	2,51		

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

Declared cooling capacity	P _B	12,83		kW
Declared power input	D _B	4,46		kW
Declared COP	COP_B	2,88		

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

Declared cooling capacity	P _C	14,33		kW
Declared power input	D _C	4,14		kW
Declared COP	COP_C	3,46		

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

Declared cooling capacity	P _D	15,63		kW
Declared power input	D _D	3,79		kW
Declared COP	COP_D	4,12		

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

Declared cooling capacity	P _E	9,73		kW
Declared power input	D _E	4,86		kW
Declared COP	COP_E	2,00		

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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71065 Sindelfingen
Deutschland
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