



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4NES-14Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	32626		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,35		

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

Rated cooling capacity	P _A	17,78		kW
Rated power input	D _A	7,04		kW
Rated COP	COP_A	2,53		

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

Declared cooling capacity	P _B	19,64		kW
Declared power input	D _B	6,74		kW
Declared COP	COP_B	2,91		

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

Declared cooling capacity	P _C	22,2		kW
Declared power input	D _C	6,18		kW
Declared COP	COP_C	3,58		

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

Declared cooling capacity	P _D	24,5		kW
Declared power input	D _D	5,49		kW
Declared COP	COP_D	4,46		

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

Declared cooling capacity	P _E	14,85		kW
Declared power input	D _E	7,36		kW
Declared COP	COP_E	2,02		

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: LH124E/4NES-14Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	61307	36966	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,72	1,90	

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

Rated cooling capacity	P _A	27,1	9,42	kW
Rated power input	D _A	13,57	6,71	kW
Rated COP	COP_A	2,00	1,40	

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

Declared cooling capacity	P _B	30,5	10,86	kW
Declared power input	D _B	13,04	6,69	kW
Declared COP	COP_B	2,34	1,62	

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

Declared cooling capacity	P _C	35,3	12,88	kW
Declared power input	D _C	12,06	6,47	kW
Declared COP	COP_C	2,92	1,99	

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

Declared cooling capacity	P _D	39,9	14,85	kW
Declared power input	D _D	10,84	6,03	kW
Declared COP	COP_D	3,68	2,46	

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

Declared cooling capacity	P _E	21,7	7,16	kW
Declared power input	D _E	14,13	6,51	kW
Declared COP	COP_E	1,53	1,10	

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: LH124E/4NES-14Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	54351	30013	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,80	1,72	

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

Rated cooling capacity	P _A	24,8	6,94	kW
Rated power input	D _A	11,90	5,28	kW
Rated COP	COP_A	2,08	1,32	

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

Declared cooling capacity	P _B	27,6	8,09	kW
Declared power input	D _B	11,39	5,35	kW
Declared COP	COP_B	2,42	1,51	

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

Declared cooling capacity	P _C	31,6	9,76	kW
Declared power input	D _C	10,51	5,33	kW
Declared COP	COP_C	3,01	1,83	

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

Declared cooling capacity	P _D	35,6	11,41	kW
Declared power input	D _D	9,44	5,18	kW
Declared COP	COP_D	3,77	2,20	

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

Declared cooling capacity	P _E	20,4	--	kW
Declared power input	D _E	12,49	--	kW
Declared COP	COP_E	1,63	--	

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: LH124E/4NES-14Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	51195		kWh/a
Seasonal Energy Performance Ratio	SEPR	2,86		

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

Rated cooling capacity	P _A	23,8		kW
Rated power input	D _A	11,20		kW
Rated COP	COP_A	2,13		

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

Declared cooling capacity	P _B	26,5		kW
Declared power input	D _B	10,74		kW
Declared COP	COP_B	2,47		

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

Declared cooling capacity	P _C	30,3		kW
Declared power input	D _C	9,88		kW
Declared COP	COP_C	3,06		

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

Declared cooling capacity	P _D	33,9		kW
Declared power input	D _D	8,78		kW
Declared COP	COP_D	3,86		

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	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: LH124E/4NES-14Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	57365	30501	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,77	1,77	

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

Rated cooling capacity	P _A	25,9	7,23	kW
Rated power input	D _A	12,62	5,40	kW
Rated COP	COP_A	2,05	1,34	

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

Declared cooling capacity	P _B	28,8	8,53	kW
Declared power input	D _B	12,07	5,51	kW
Declared COP	COP_B	2,38	1,55	

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

Declared cooling capacity	P _C	33,0	10,41	kW
Declared power input	D _C	11,10	5,53	kW
Declared COP	COP_C	2,97	1,88	

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

Declared cooling capacity	P _D	37,2	12,29	kW
Declared power input	D _D	9,92	5,40	kW
Declared COP	COP_D	3,75	2,28	

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

Declared cooling capacity	P _E	21,3	--	kW
Declared power input	D _E	13,24	--	kW
Declared COP	COP_E	1,61	--	

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: LH124E/4NES-14Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	49238	28005	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,79	1,67	

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

Rated cooling capacity	P _A	22,3	6,27	kW
Rated power input	D _A	10,63	4,95	kW
Rated COP	COP_A	2,10	1,27	

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

Declared cooling capacity	P _B	24,9	7,28	kW
Declared power input	D _B	10,25	4,95	kW
Declared COP	COP_B	2,43	1,47	

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

Declared cooling capacity	P _C	28,6	8,78	kW
Declared power input	D _C	9,55	4,90	kW
Declared COP	COP_C	3,00	1,79	

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

Declared cooling capacity	P _D	32,3	10,18	kW
Declared power input	D _D	8,67	4,82	kW
Declared COP	COP_D	3,73	2,11	

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

Declared cooling capacity	P _E	18,08	4,74	kW
Declared power input	D _E	10,99	4,86	kW
Declared COP	COP_E	1,65	0,97	

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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SEPR Declaration Model: LH124E/4NES-14Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	53802	28886	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,44	1,53	

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

Rated cooling capacity	P _A	21,4	5,94	kW
Rated power input	D _A	11,57	5,22	kW
Rated COP	COP_A	1,85	1,14	

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

Declared cooling capacity	P _B	24,3	7,01	kW
Declared power input	D _B	11,28	5,26	kW
Declared COP	COP_B	2,15	1,33	

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

Declared cooling capacity	P _C	28,2	8,59	kW
Declared power input	D _C	10,67	5,24	kW
Declared COP	COP_C	2,64	1,64	

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

Declared cooling capacity	P _D	32,1	10,23	kW
Declared power input	D _D	9,83	5,15	kW
Declared COP	COP_D	3,27	1,99	

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: LH124E/4NES-14Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	61467	37055	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,77	1,98	

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

Rated cooling capacity	P _A	27,7	9,86	kW
Rated power input	D _A	13,59	6,71	kW
Rated COP	COP_A	2,04	1,47	

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

Declared cooling capacity	P _B	31,2	11,36	kW
Declared power input	D _B	13,07	6,70	kW
Declared COP	COP_B	2,39	1,70	

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

Declared cooling capacity	P _C	36,1	13,47	kW
Declared power input	D _C	12,12	6,48	kW
Declared COP	COP_C	2,98	2,08	

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

Declared cooling capacity	P _D	40,9	15,53	kW
Declared power input	D _D	10,92	6,05	kW
Declared COP	COP_D	3,75	2,57	

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

Declared cooling capacity	P _E	22,0	7,50	kW
Declared power input	D _E	14,13	6,51	kW
Declared COP	COP_E	1,56	1,15	

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: LH124E/4NES-14Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	55733	31908	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,81	1,77	

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

Rated cooling capacity	P _A	25,5	7,59	kW
Rated power input	D _A	12,28	5,41	kW
Rated COP	COP_A	2,07	1,40	

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

Declared cooling capacity	P _B	28,4	8,79	kW
Declared power input	D _B	11,75	5,53	kW
Declared COP	COP_B	2,42	1,59	

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

Declared cooling capacity	P _C	32,6	10,46	kW
Declared power input	D _C	10,79	5,55	kW
Declared COP	COP_C	3,02	1,89	

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

Declared cooling capacity	P _D	36,5	12,06	kW
Declared power input	D _D	9,63	5,42	kW
Declared COP	COP_D	3,79	2,23	

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

Declared cooling capacity	P _E	20,8	5,69	kW
Declared power input	D _E	12,89	5,05	kW
Declared COP	COP_E	1,61	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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SEPR Declaration Model: LH124E/4NES-14Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	55661	31895	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,80	1,77	

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

Rated cooling capacity	P _A	25,4	7,59	kW
Rated power input	D _A	12,28	5,41	kW
Rated COP	COP_A	2,07	1,40	

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

Declared cooling capacity	P _B	28,3	8,79	kW
Declared power input	D _B	11,74	5,53	kW
Declared COP	COP_B	2,41	1,59	

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

Declared cooling capacity	P _C	32,4	10,47	kW
Declared power input	D _C	10,79	5,55	kW
Declared COP	COP_C	3,01	1,89	

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

Declared cooling capacity	P _D	36,4	12,06	kW
Declared power input	D _D	9,63	5,42	kW
Declared COP	COP_D	3,78	2,23	

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

Declared cooling capacity	P _E	20,7	5,69	kW
Declared power input	D _E	12,89	5,05	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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SEPR Declaration Model: LH124E/4NES-14Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	28895		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	15,69		kW
Rated power input	D _A	6,28		kW
Rated COP	COP_A	2,50		

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

Declared cooling capacity	P _B	17,35		kW
Declared power input	D _B	6,00		kW
Declared COP	COP_B	2,89		

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

Declared cooling capacity	P _C	19,59		kW
Declared power input	D _C	5,49		kW
Declared COP	COP_C	3,57		

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

Declared cooling capacity	P _D	21,6		kW
Declared power input	D _D	4,84		kW
Declared COP	COP_D	4,46		

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

Declared cooling capacity	P _E	13,06		kW
Declared power input	D _E	6,58		kW
Declared COP	COP_E	1,98		

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	34483		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,33		

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

Rated cooling capacity	P _A	18,69		kW
Rated power input	D _A	7,45		kW
Rated COP	COP_A	2,51		

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

Declared cooling capacity	P _B	20,7		kW
Declared power input	D _B	7,14		kW
Declared COP	COP_B	2,90		

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

Declared cooling capacity	P _C	23,5		kW
Declared power input	D _C	6,58		kW
Declared COP	COP_C	3,57		

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

Declared cooling capacity	P _D	26,1		kW
Declared power input	D _D	5,87		kW
Declared COP	COP_D	4,44		

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

Declared cooling capacity	P _E	15,48		kW
Declared power input	D _E	7,77		kW
Declared COP	COP_E	1,99		

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	

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

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

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



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4NES-14Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	33586		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	18,05		kW
Rated power input	D _A	7,34		kW
Rated COP	COP_A	2,46		

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

Declared cooling capacity	P _B	20,0		kW
Declared power input	D _B	7,01		kW
Declared COP	COP_B	2,86		

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

Declared cooling capacity	P _C	22,8		kW
Declared power input	D _C	6,43		kW
Declared COP	COP_C	3,54		

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

Declared cooling capacity	P _D	25,3		kW
Declared power input	D _D	5,73		kW
Declared COP	COP_D	4,42		

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

Declared cooling capacity	P _E	14,93		kW
Declared power input	D _E	7,72		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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH124E/4NES-14Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	25180		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	13,81		kW
Rated power input	D _A	5,44		kW
Rated COP	COP_A	2,54		

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

Declared cooling capacity	P _B	15,13		kW
Declared power input	D _B	5,18		kW
Declared COP	COP_B	2,92		

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

Declared cooling capacity	P _C	16,84		kW
Declared power input	D _C	4,69		kW
Declared COP	COP_C	3,59		

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

Declared cooling capacity	P _D	18,33		kW
Declared power input	D _D	4,09		kW
Declared COP	COP_D	4,48		

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

Declared cooling capacity	P _E	11,60		kW
Declared power input	D _E	5,72		kW
Declared COP	COP_E	2,03		

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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