



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4TES-12Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	24711		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	13,27		kW
Rated power input	D _A	5,39		kW
Rated COP	COP_A	2,46		

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

Declared cooling capacity	P _B	14,60		kW
Declared power input	D _B	5,13		kW
Declared COP	COP_B	2,84		

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

Declared cooling capacity	P _C	16,52		kW
Declared power input	D _C	4,69		kW
Declared COP	COP_C	3,52		

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

Declared cooling capacity	P _D	18,43		kW
Declared power input	D _D	4,16		kW
Declared COP	COP_D	4,43		

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

Declared cooling capacity	P _E	11,24		kW
Declared power input	D _E	5,71		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		

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/4TES-12Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	44096	28212	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,94	1,86	

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

Rated cooling capacity	P _A	21,1	7,06	kW
Rated power input	D _A	9,85	5,07	kW
Rated COP	COP_A	2,14	1,39	

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

Declared cooling capacity	P _B	23,6	8,14	kW
Declared power input	D _B	9,37	5,02	kW
Declared COP	COP_B	2,52	1,62	

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

Declared cooling capacity	P _C	27,3	9,74	kW
Declared power input	D _C	8,62	4,91	kW
Declared COP	COP_C	3,16	1,98	

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

Declared cooling capacity	P _D	31,0	11,38	kW
Declared power input	D _D	7,79	4,78	kW
Declared COP	COP_D	3,97	2,38	

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

Declared cooling capacity	P _E	17,05	5,43	kW
Declared power input	D _E	10,51	5,13	kW
Declared COP	COP_E	1,62	1,06	

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/4TES-12Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	39667	23746	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,97	1,67	

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

Rated cooling capacity	P _A	19,20	5,32	kW
Rated power input	D _A	8,74	4,19	kW
Rated COP	COP_A	2,20	1,27	

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

Declared cooling capacity	P _B	21,3	6,17	kW
Declared power input	D _B	8,33	4,22	kW
Declared COP	COP_B	2,56	1,46	

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

Declared cooling capacity	P _C	24,3	7,40	kW
Declared power input	D _C	7,64	4,18	kW
Declared COP	COP_C	3,19	1,77	

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

Declared cooling capacity	P _D	27,3	8,60	kW
Declared power input	D _D	6,80	4,04	kW
Declared COP	COP_D	4,01	2,13	

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

Declared cooling capacity	P _E	15,90	--	kW
Declared power input	D _E	9,24	--	kW
Declared COP	COP_E	1,72	--	

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/4TES-12Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	37506		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,02		

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

Rated cooling capacity	P _A	18,42		kW
Rated power input	D _A	8,27		kW
Rated COP	COP_A	2,23		

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

Declared cooling capacity	P _B	20,4		kW
Declared power input	D _B	7,89		kW
Declared COP	COP_B	2,59		

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

Declared cooling capacity	P _C	23,2		kW
Declared power input	D _C	7,20		kW
Declared COP	COP_C	3,22		

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

Declared cooling capacity	P _D	25,8		kW
Declared power input	D _D	6,33		kW
Declared COP	COP_D	4,08		

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

Declared cooling capacity	P _E	15,26		kW
Declared power input	D _E	8,67		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/4TES-12Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	41523	24026	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,95	1,70	

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

Rated cooling capacity	P _A	19,93	5,49	kW
Rated power input	D _A	9,22	4,28	kW
Rated COP	COP_A	2,16	1,28	

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

Declared cooling capacity	P _B	22,1	6,45	kW
Declared power input	D _B	8,78	4,34	kW
Declared COP	COP_B	2,52	1,49	

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

Declared cooling capacity	P _C	25,3	7,83	kW
Declared power input	D _C	8,01	4,32	kW
Declared COP	COP_C	3,15	1,81	

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

Declared cooling capacity	P _D	28,4	9,21	kW
Declared power input	D _D	7,09	4,20	kW
Declared COP	COP_D	4,01	2,19	

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

Declared cooling capacity	P _E	16,53	--	kW
Declared power input	D _E	9,76	--	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		
Coefficient of degradation for units w/o capacity control**	Cdc	0,25		

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SEPR Declaration Model: LH114E/4TES-12Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	36479	22101	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,84	1,54	

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

Rated cooling capacity	P _A	16,88	4,58	kW
Rated power input	D _A	7,78	3,79	kW
Rated COP	COP_A	2,17	1,21	

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

Declared cooling capacity	P _B	18,78	5,21	kW
Declared power input	D _B	7,53	3,81	kW
Declared COP	COP_B	2,49	1,37	

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

Declared cooling capacity	P _C	21,6	6,16	kW
Declared power input	D _C	7,06	3,80	kW
Declared COP	COP_C	3,05	1,62	

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

Declared cooling capacity	P _D	24,5	7,19	kW
Declared power input	D _D	6,45	3,68	kW
Declared COP	COP_D	3,80	1,95	

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

Declared cooling capacity	P _E	13,81	3,53	kW
Declared power input	D _E	8,11	3,76	kW
Declared COP	COP_E	1,70	0,94	

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/4TES-12Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	39759	22896	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,53	1,44	

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

Rated cooling capacity	P _A	16,34	4,41	kW
Rated power input	D _A	8,49	3,98	kW
Rated COP	COP_A	1,93	1,11	

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

Declared cooling capacity	P _B	18,43	5,13	kW
Declared power input	D _B	8,24	4,00	kW
Declared COP	COP_B	2,24	1,28	

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

Declared cooling capacity	P _C	21,3	6,15	kW
Declared power input	D _C	7,80	4,02	kW
Declared COP	COP_C	2,73	1,53	

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

Declared cooling capacity	P _D	24,3	7,22	kW
Declared power input	D _D	7,24	3,97	kW
Declared COP	COP_D	3,36	1,82	

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/4TES-12Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	44198	28243	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,00	1,95	

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

Rated cooling capacity	P _A	21,5	7,39	kW
Rated power input	D _A	9,87	5,07	kW
Rated COP	COP_A	2,18	1,46	

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

Declared cooling capacity	P _B	24,2	8,52	kW
Declared power input	D _B	9,40	5,02	kW
Declared COP	COP_B	2,57	1,70	

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

Declared cooling capacity	P _C	28,0	10,20	kW
Declared power input	D _C	8,66	4,92	kW
Declared COP	COP_C	3,23	2,07	

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

Declared cooling capacity	P _D	31,8	11,91	kW
Declared power input	D _D	7,84	4,79	kW
Declared COP	COP_D	4,06	2,49	

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

Declared cooling capacity	P _E	17,37	5,69	kW
Declared power input	D _E	10,52	5,13	kW
Declared COP	COP_E	1,65	1,11	

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/4TES-12Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	40319	24705	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,99	1,71	

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

Rated cooling capacity	P _A	19,63	5,66	kW
Rated power input	D _A	8,98	4,30	kW
Rated COP	COP_A	2,19	1,32	

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

Declared cooling capacity	P _B	21,8	6,54	kW
Declared power input	D _B	8,55	4,36	kW
Declared COP	COP_B	2,55	1,50	

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

Declared cooling capacity	P _C	25,0	7,84	kW
Declared power input	D _C	7,80	4,34	kW
Declared COP	COP_C	3,20	1,81	

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

Declared cooling capacity	P _D	28,1	9,17	kW
Declared power input	D _D	6,91	4,21	kW
Declared COP	COP_D	4,07	2,18	

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

Declared cooling capacity	P _E	16,25	4,34	kW
Declared power input	D _E	9,50	4,08	kW
Declared COP	COP_E	1,71	1,06	

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/4TES-12Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	40265	24692	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,98	1,71	

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

Rated cooling capacity	P _A	19,54	5,66	kW
Rated power input	D _A	8,98	4,30	kW
Rated COP	COP_A	2,18	1,32	

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

Declared cooling capacity	P _B	21,7	6,54	kW
Declared power input	D _B	8,54	4,36	kW
Declared COP	COP_B	2,54	1,50	

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

Declared cooling capacity	P _C	24,9	7,84	kW
Declared power input	D _C	7,79	4,34	kW
Declared COP	COP_C	3,19	1,81	

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

Declared cooling capacity	P _D	28,0	9,18	kW
Declared power input	D _D	6,91	4,21	kW
Declared COP	COP_D	4,06	2,18	

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

Declared cooling capacity	P _E	16,17	4,34	kW
Declared power input	D _E	9,50	4,08	kW
Declared COP	COP_E	1,70	1,06	

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/4TES-12Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	22270		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,22		

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

Rated cooling capacity	P _A	11,67		kW
Rated power input	D _A	4,81		kW
Rated COP	COP_A	2,43		

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

Declared cooling capacity	P _B	12,86		kW
Declared power input	D _B	4,58		kW
Declared COP	COP_B	2,81		

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

Declared cooling capacity	P _C	14,57		kW
Declared power input	D _C	4,21		kW
Declared COP	COP_C	3,46		

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

Declared cooling capacity	P _D	16,27		kW
Declared power input	D _D	3,81		kW
Declared COP	COP_D	4,28		

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

Declared cooling capacity	P _E	9,86		kW
Declared power input	D _E	5,11		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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Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	26049		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	13,99		kW
Rated power input	D _A	5,70		kW
Rated COP	COP_A	2,46		

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

Declared cooling capacity	P _B	15,45		kW
Declared power input	D _B	5,43		kW
Declared COP	COP_B	2,85		

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

Declared cooling capacity	P _C	17,56		kW
Declared power input	D _C	4,97		kW
Declared COP	COP_C	3,53		

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

Declared cooling capacity	P _D	19,63		kW
Declared power input	D _D	4,43		kW
Declared COP	COP_D	4,43		

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

Declared cooling capacity	P _E	11,73		kW
Declared power input	D _E	6,02		kW
Declared COP	COP_E	1,95		

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		

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: LH114E/4TES-12Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	25332		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	13,49		kW
Rated power input	D _A	5,61		kW
Rated COP	COP_A	2,41		

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

Declared cooling capacity	P _B	14,93		kW
Declared power input	D _B	5,33		kW
Declared COP	COP_B	2,80		

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

Declared cooling capacity	P _C	17,01		kW
Declared power input	D _C	4,86		kW
Declared COP	COP_C	3,50		

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

Declared cooling capacity	P _D	19,07		kW
Declared power input	D _D	4,30		kW
Declared COP	COP_D	4,43		

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

Declared cooling capacity	P _E	11,28		kW
Declared power input	D _E	5,96		kW
Declared COP	COP_E	1,89		

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/4TES-12Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	20047		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,13		

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

Rated cooling capacity	P _A	10,22		kW
Rated power input	D _A	4,17		kW
Rated COP	COP_A	2,45		

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

Declared cooling capacity	P _B	11,25		kW
Declared power input	D _B	3,99		kW
Declared COP	COP_B	2,82		

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

Declared cooling capacity	P _C	12,74		kW
Declared power input	D _C	3,73		kW
Declared COP	COP_C	3,42		

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

Declared cooling capacity	P _D	14,12		kW
Declared power input	D _D	3,51		kW
Declared COP	COP_D	4,02		

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

Declared cooling capacity	P _E	8,63		kW
Declared power input	D _E	4,43		kW
Declared COP	COP_E	1,95		

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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