



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH84E/2CES-3Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	10306		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	5,60		kW
Rated power input	D _A	2,30		kW
Rated COP	COP_A	2,44		

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

Declared cooling capacity	P _B	6,12		kW
Declared power input	D _B	2,16		kW
Declared COP	COP_B	2,84		

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

Declared cooling capacity	P _C	6,89		kW
Declared power input	D _C	1,93		kW
Declared COP	COP_C	3,58		

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

Declared cooling capacity	P _D	7,63		kW
Declared power input	D _D	1,70		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	4,82		kW
Declared power input	D _E	2,49		kW
Declared COP	COP_E	1,94		

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		

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: LH84E/2CES-3Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	17415	12719	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,24	1,83	

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

Rated cooling capacity	P _A	9,18	3,12	kW
Rated power input	D _A	4,10	2,34	kW
Rated COP	COP_A	2,24	1,33	

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

Declared cooling capacity	P _B	10,25	3,54	kW
Declared power input	D _B	3,84	2,28	kW
Declared COP	COP_B	2,67	1,55	

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

Declared cooling capacity	P _C	11,70	4,09	kW
Declared power input	D _C	3,40	2,15	kW
Declared COP	COP_C	3,44	1,90	

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

Declared cooling capacity	P _D	13,07	4,63	kW
Declared power input	D _D	2,88	1,96	kW
Declared COP	COP_D	4,53	2,36	

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

Declared cooling capacity	P _E	7,44	2,42	kW
Declared power input	D _E	4,42	2,36	kW
Declared COP	COP_E	1,68	1,02	

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	

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SEPR Declaration Model: LH84E/2CES-3Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	15966	10573	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,13	1,60	

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

Rated cooling capacity	P _A	8,14	2,27	kW
Rated power input	D _A	3,67	1,88	kW
Rated COP	COP_A	2,22	1,21	

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

Declared cooling capacity	P _B	8,99	2,60	kW
Declared power input	D _B	3,45	1,87	kW
Declared COP	COP_B	2,61	1,39	

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

Declared cooling capacity	P _C	10,21	3,07	kW
Declared power input	D _C	3,07	1,81	kW
Declared COP	COP_C	3,32	1,69	

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

Declared cooling capacity	P _D	11,41	3,50	kW
Declared power input	D _D	2,64	1,73	kW
Declared COP	COP_D	4,33	2,02	

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

Declared cooling capacity	P _E	6,82	1,77	kW
Declared power input	D _E	3,97	1,86	kW
Declared COP	COP_E	1,72	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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SEPR Declaration Model: LH84E/2CES-3Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	15423		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,15		

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

Rated cooling capacity	P _A	7,90		kW
Rated power input	D _A	3,50		kW
Rated COP	COP_A	2,25		

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

Declared cooling capacity	P _B	8,67		kW
Declared power input	D _B	3,29		kW
Declared COP	COP_B	2,64		

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

Declared cooling capacity	P _C	9,75		kW
Declared power input	D _C	2,92		kW
Declared COP	COP_C	3,34		

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

Declared cooling capacity	P _D	10,83		kW
Declared power input	D _D	2,51		kW
Declared COP	COP_D	4,31		

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

Declared cooling capacity	P _E	6,68		kW
Declared power input	D _E	3,78		kW
Declared COP	COP_E	1,77		

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: LH84E/2CES-3Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	17026	11100	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,10	1,62	

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

Rated cooling capacity	P _A	8,60	2,42	kW
Rated power input	D _A	3,91	1,98	kW
Rated COP	COP_A	2,20	1,22	

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

Declared cooling capacity	P _B	9,45	2,76	kW
Declared power input	D _B	3,66	1,96	kW
Declared COP	COP_B	2,58	1,41	

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

Declared cooling capacity	P _C	10,68	3,25	kW
Declared power input	D _C	3,25	1,89	kW
Declared COP	COP_C	3,29	1,71	

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

Declared cooling capacity	P _D	11,90	3,70	kW
Declared power input	D _D	2,78	1,80	kW
Declared COP	COP_D	4,28	2,06	

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

Declared cooling capacity	P _E	7,26	1,89	kW
Declared power input	D _E	4,23	1,96	kW
Declared COP	COP_E	1,72	0,96	

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: LH84E/2CES-3Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	14933	10386	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,06	1,55	

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

Rated cooling capacity	P _A	7,44	2,16	kW
Rated power input	D _A	3,42	1,82	kW
Rated COP	COP_A	2,17	1,19	

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

Declared cooling capacity	P _B	8,23	2,47	kW
Declared power input	D _B	3,22	1,81	kW
Declared COP	COP_B	2,56	1,37	

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

Declared cooling capacity	P _C	9,35	2,90	kW
Declared power input	D _C	2,87	1,77	kW
Declared COP	COP_C	3,26	1,64	

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

Declared cooling capacity	P _D	10,47	3,30	kW
Declared power input	D _D	2,48	1,69	kW
Declared COP	COP_D	4,22	1,95	

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

Declared cooling capacity	P _E	6,21	1,69	kW
Declared power input	D _E	3,69	1,80	kW
Declared COP	COP_E	1,69	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: LH84E/2CES-3Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	16676	10710	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,69	1,44	

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

Rated cooling capacity	P _A	7,29	2,07	kW
Rated power input	D _A	3,78	1,91	kW
Rated COP	COP_A	1,93	1,09	

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

Declared cooling capacity	P _B	8,13	2,40	kW
Declared power input	D _B	3,58	1,91	kW
Declared COP	COP_B	2,27	1,26	

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

Declared cooling capacity	P _C	9,33	2,88	kW
Declared power input	D _C	3,25	1,88	kW
Declared COP	COP_C	2,87	1,53	

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

Declared cooling capacity	P _D	10,52	3,34	kW
Declared power input	D _D	2,86	1,81	kW
Declared COP	COP_D	3,69	1,85	

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: LH84E/2CES-3Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	17449	12728	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,31	1,91	

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

Rated cooling capacity	P _A	9,41	3,27	kW
Rated power input	D _A	4,11	2,34	kW
Rated COP	COP_A	2,29	1,40	

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

Declared cooling capacity	P _B	10,51	3,70	kW
Declared power input	D _B	3,85	2,28	kW
Declared COP	COP_B	2,73	1,62	

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

Declared cooling capacity	P _C	12,02	4,28	kW
Declared power input	D _C	3,41	2,15	kW
Declared COP	COP_C	3,52	1,99	

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

Declared cooling capacity	P _D	13,46	4,85	kW
Declared power input	D _D	2,90	1,97	kW
Declared COP	COP_D	4,63	2,47	

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

Declared cooling capacity	P _E	7,59	2,53	kW
Declared power input	D _E	4,43	2,36	kW
Declared COP	COP_E	1,71	1,07	

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: LH84E/2CES-3Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	16504	11149	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,13	1,63	

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

Rated cooling capacity	P _A	8,41	2,44	kW
Rated power input	D _A	3,81	1,98	kW
Rated COP	COP_A	2,21	1,23	

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

Declared cooling capacity	P _B	9,27	2,79	kW
Declared power input	D _B	3,56	1,96	kW
Declared COP	COP_B	2,60	1,42	

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

Declared cooling capacity	P _C	10,50	3,28	kW
Declared power input	D _C	3,16	1,90	kW
Declared COP	COP_C	3,32	1,72	

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

Declared cooling capacity	P _D	11,72	3,73	kW
Declared power input	D _D	2,71	1,80	kW
Declared COP	COP_D	4,33	2,07	

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

Declared cooling capacity	P _E	7,06	1,91	kW
Declared power input	D _E	4,12	1,97	kW
Declared COP	COP_E	1,71	0,97	

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: LH84E/2CES-3Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	16479	11140	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,12	1,63	

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

Rated cooling capacity	P _A	8,37	2,44	kW
Rated power input	D _A	3,80	1,98	kW
Rated COP	COP_A	2,20	1,23	

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

Declared cooling capacity	P _B	9,23	2,79	kW
Declared power input	D _B	3,56	1,96	kW
Declared COP	COP_B	2,59	1,42	

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

Declared cooling capacity	P _C	10,46	3,28	kW
Declared power input	D _C	3,16	1,90	kW
Declared COP	COP_C	3,31	1,72	

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

Declared cooling capacity	P _D	11,69	3,74	kW
Declared power input	D _D	2,71	1,80	kW
Declared COP	COP_D	4,32	2,07	

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

Declared cooling capacity	P _E	7,02	1,91	kW
Declared power input	D _E	4,12	1,97	kW
Declared COP	COP_E	1,70	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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COP Declaration Model: LH84E/2CES-3Y

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	4,90		kW
Rated power input	D _A	2,07		kW
Rated COP	COP_A	2,37		

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

Declared cooling capacity	P _B	5,37		kW
Declared power input	D _B	1,95		kW
Declared COP	COP_B	2,76		

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

Declared cooling capacity	P _E	4,20		kW
Declared power input	D _E	2,24		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	

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SEPR Declaration Model: LH84E/2CES-3Y

Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	10737		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,39		

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

Rated cooling capacity	P _A	5,93		kW
Rated power input	D _A	2,42		kW
Rated COP	COP_A	2,45		

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

Declared cooling capacity	P _B	6,50		kW
Declared power input	D _B	2,27		kW
Declared COP	COP_B	2,86		

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

Declared cooling capacity	P _C	7,36		kW
Declared power input	D _C	2,03		kW
Declared COP	COP_C	3,62		

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

Declared cooling capacity	P _D	8,23		kW
Declared power input	D _D	1,78		kW
Declared COP	COP_D	4,62		

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

Declared cooling capacity	P _E	5,04		kW
Declared power input	D _E	2,62		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

** 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: LH84E/2CES-3Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	10407		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	5,71		kW
Rated power input	D _A	2,37		kW
Rated COP	COP_A	2,41		

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

Declared cooling capacity	P _B	6,28		kW
Declared power input	D _B	2,22		kW
Declared COP	COP_B	2,83		

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

Declared cooling capacity	P _C	7,13		kW
Declared power input	D _C	1,98		kW
Declared COP	COP_C	3,60		

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

Declared cooling capacity	P _D	7,98		kW
Declared power input	D _D	1,73		kW
Declared COP	COP_D	4,60		

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

Declared cooling capacity	P _E	4,83		kW
Declared power input	D _E	2,57		kW
Declared COP	COP_E	1,88		

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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** 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

COP Declaration Model: LH84E/2CES-3Y

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	4,26		kW
Rated power input	D _A	1,82		kW
Rated COP	COP_A	2,34		

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

Declared cooling capacity	P _B	4,68		kW
Declared power input	D _B	1,72		kW
Declared COP	COP_B	2,73		

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

Declared cooling capacity	P _E	3,64		kW
Declared power input	D _E	1,96		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	

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