



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH104E/4DES-7Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	17078		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,18		

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

Rated cooling capacity	P _A	8,84		kW
Rated power input	D _A	3,77		kW
Rated COP	COP_A	2,35		

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

Declared cooling capacity	P _B	9,68		kW
Declared power input	D _B	3,56		kW
Declared COP	COP_B	2,72		

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

Declared cooling capacity	P _C	10,86		kW
Declared power input	D _C	3,20		kW
Declared COP	COP_C	3,39		

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

Declared cooling capacity	P _D	11,99		kW
Declared power input	D _D	2,80		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	7,51		kW
Declared power input	D _E	4,02		kW
Declared COP	COP_E	1,87		

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: LH104E/4DES-7Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	28635	21187	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,08	1,72	

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

Rated cooling capacity	P _A	14,34	4,90	kW
Rated power input	D _A	6,58	3,86	kW
Rated COP	COP_A	2,18	1,27	

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

Declared cooling capacity	P _B	15,97	5,53	kW
Declared power input	D _B	6,20	3,76	kW
Declared COP	COP_B	2,58	1,47	

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

Declared cooling capacity	P _C	18,26	6,41	kW
Declared power input	D _C	5,56	3,57	kW
Declared COP	COP_C	3,28	1,80	

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

Declared cooling capacity	P _D	20,5	7,28	kW
Declared power input	D _D	4,82	3,30	kW
Declared COP	COP_D	4,25	2,21	

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

Declared cooling capacity	P _E	11,73	3,90	kW
Declared power input	D _E	7,06	3,94	kW
Declared COP	COP_E	1,66	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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SEPR Declaration Model: LH104E/4DES-7Y

Refrigerant: R407A

Condensing unit with the selected refrigerant at low temperature application (LT) is only intended for deliveries outside the EU. For EU suitable condensing units, see Declaration of Conformity AC-500.

Item	Symbol*	Value	Unit
Evaporating temperature	t	-10	°C
Annual electricity consumption	Q	25677	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	12,60	kW
Rated power input	D _A	5,77	kW
Rated COP	COP _A	2,18	

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

Declared cooling capacity	P _B	13,97	kW
Declared power input	D _B	5,47	kW
Declared COP	COP _B	2,55	

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

Declared cooling capacity	P _C	15,94	kW
Declared power input	D _C	4,96	kW
Declared COP	COP _C	3,22	

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

Declared cooling capacity	P _D	17,88	kW
Declared power input	D _D	4,34	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	10,48	kW
Declared power input	D _E	6,12	kW
Declared COP	COP _E	1,71	

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: LH104E/4DES-7Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	24460		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	12,04		kW
Rated power input	D _A	5,42		kW
Rated COP	COP_A	2,22		

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

Declared cooling capacity	P _B	13,30		kW
Declared power input	D _B	5,15		kW
Declared COP	COP_B	2,58		

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

Declared cooling capacity	P _C	15,09		kW
Declared power input	D _C	4,68		kW
Declared COP	COP_C	3,22		

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

Declared cooling capacity	P _D	16,84		kW
Declared power input	D _D	4,11		kW
Declared COP	COP_D	4,10		

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

Declared cooling capacity	P _E	10,03		kW
Declared power input	D _E	5,72		kW
Declared COP	COP_E	1,75		

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: LH104E/4DES-7Y

Refrigerant: R407F

Condensing unit with the selected refrigerant at low temperature application (LT) is only intended for deliveries outside the EU. For EU suitable condensing units, see Declaration of Conformity AC-500.

Item	Symbol*	Value	Unit
Evaporating temperature	t	-10	°C
Annual electricity consumption	Q	27285	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,00	

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

Rated cooling capacity	P _A	13,31	kW
Rated power input	D _A	6,11	kW
Rated COP	COP _A	2,18	

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

Declared cooling capacity	P _B	14,69	kW
Declared power input	D _B	5,78	kW
Declared COP	COP _B	2,54	

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

Declared cooling capacity	P _C	16,68	kW
Declared power input	D _C	5,23	kW
Declared COP	COP _C	3,19	

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

Declared cooling capacity	P _D	18,65	kW
Declared power input	D _D	4,57	kW
Declared COP	COP _D	4,09	

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

Declared cooling capacity	P _E	11,16	kW
Declared power input	D _E	6,50	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: LH104E/4DES-7Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	24074	16673	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,94	1,46	

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

Rated cooling capacity	P _A	11,53	3,27	kW
Rated power input	D _A	5,39	2,92	kW
Rated COP	COP_A	2,14	1,12	

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

Declared cooling capacity	P _B	12,80	3,78	kW
Declared power input	D _B	5,12	2,93	kW
Declared COP	COP_B	2,50	1,29	

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

Declared cooling capacity	P _C	14,63	4,50	kW
Declared power input	D _C	4,65	2,89	kW
Declared COP	COP_C	3,14	1,56	

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

Declared cooling capacity	P _D	16,42	5,14	kW
Declared power input	D _D	4,09	2,80	kW
Declared COP	COP_D	4,01	1,84	

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

Declared cooling capacity	P _E	9,56	2,50	kW
Declared power input	D _E	5,72	2,84	kW
Declared COP	COP_E	1,67	0,88	

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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Refrigerant: R455A

Condensing unit with the selected refrigerant at low temperature application (LT) is only intended for deliveries outside the EU. For EU suitable condensing units, see Declaration of Conformity AC-500.

Item	Symbol*	Value	Unit
Evaporating temperature	t	-10	°C
Annual electricity consumption	Q	26503	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,61	

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

Rated cooling capacity	P _A	11,26	kW
Rated power input	D _A	5,87	kW
Rated COP	COP_A	1,92	

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

Declared cooling capacity	P _B	12,60	kW
Declared power input	D _B	5,63	kW
Declared COP	COP_B	2,24	

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

Declared cooling capacity	P _C	14,54	kW
Declared power input	D _C	5,18	kW
Declared COP	COP_C	2,80	

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

Declared cooling capacity	P _D	16,47	kW
Declared power input	D _D	4,64	kW
Declared COP	COP_D	3,55	

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: LH104E/4DES-7Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	28692	21187	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,15	1,80	

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

Rated cooling capacity	P _A	14,69	5,12	kW
Rated power input	D _A	6,59	3,86	kW
Rated COP	COP_A	2,23	1,33	

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

Declared cooling capacity	P _B	16,38	5,78	kW
Declared power input	D _B	6,21	3,77	kW
Declared COP	COP_B	2,64	1,54	

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

Declared cooling capacity	P _C	18,76	6,72	kW
Declared power input	D _C	5,59	3,57	kW
Declared COP	COP_C	3,36	1,88	

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

Declared cooling capacity	P _D	21,1	7,63	kW
Declared power input	D _D	4,86	3,30	kW
Declared COP	COP_D	4,34	2,31	

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

Declared cooling capacity	P _E	11,97	4,07	kW
Declared power input	D _E	7,07	3,94	kW
Declared COP	COP_E	1,69	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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SEPR Declaration Model: LH104E/4DES-7Y

Refrigerant: R448A

Condensing unit with the selected refrigerant at low temperature application (LT) is only intended for deliveries outside the EU. For EU suitable condensing units, see Declaration of Conformity AC-500.

Item	Symbol*	Value	Unit
Evaporating temperature	t	-10	°C
Annual electricity consumption	Q	26486	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	13,02	kW
Rated power input	D _A	5,95	kW
Rated COP	COP_A	2,19	

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

Declared cooling capacity	P _B	14,41	kW
Declared power input	D _B	5,64	kW
Declared COP	COP_B	2,56	

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

Declared cooling capacity	P _C	16,40	kW
Declared power input	D _C	5,09	kW
Declared COP	COP_C	3,22	

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

Declared cooling capacity	P _D	18,36	kW
Declared power input	D _D	4,45	kW
Declared COP	COP_D	4,13	

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

Declared cooling capacity	P _E	10,86	kW
Declared power input	D _E	6,34	kW
Declared COP	COP_E	1,71	

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: LH104E/4DES-7Y

Refrigerant: R449A

Condensing unit with the selected refrigerant at low temperature application (LT) is only intended for deliveries outside the EU. For EU suitable condensing units, see Declaration of Conformity AC-500.

Item	Symbol*	Value	Unit
Evaporating temperature	t	-10	°C
Annual electricity consumption	Q	26449	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,01	

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

Rated cooling capacity	P _A	12,96	kW
Rated power input	D _A	5,95	kW
Rated COP	COP_A	2,18	

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

Declared cooling capacity	P _B	14,35	kW
Declared power input	D _B	5,63	kW
Declared COP	COP_B	2,55	

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

Declared cooling capacity	P _C	16,35	kW
Declared power input	D _C	5,09	kW
Declared COP	COP_C	3,21	

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

Declared cooling capacity	P _D	18,32	kW
Declared power input	D _D	4,45	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	10,81	kW
Declared power input	D _E	6,33	kW
Declared COP	COP_E	1,71	

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: LH104E/4DES-7Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	15571		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,06		

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

Rated cooling capacity	P _A	7,75		kW
Rated power input	D _A	3,41		kW
Rated COP	COP_A	2,27		

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

Declared cooling capacity	P _B	8,50		kW
Declared power input	D _B	3,22		kW
Declared COP	COP_B	2,64		

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

Declared cooling capacity	P _C	9,55		kW
Declared power input	D _C	2,91		kW
Declared COP	COP_C	3,29		

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

Declared cooling capacity	P _D	10,48		kW
Declared power input	D _D	2,58		kW
Declared COP	COP_D	4,06		

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

Declared cooling capacity	P _E	6,56		kW
Declared power input	D _E	3,65		kW
Declared COP	COP_E	1,80		

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	17841		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	9,36		kW
Rated power input	D _A	3,96		kW
Rated COP	COP_A	2,36		

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

Declared cooling capacity	P _B	10,29		kW
Declared power input	D _B	3,75		kW
Declared COP	COP_B	2,75		

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

Declared cooling capacity	P _C	11,59		kW
Declared power input	D _C	3,38		kW
Declared COP	COP_C	3,43		

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

Declared cooling capacity	P _D	12,86		kW
Declared power input	D _D	2,95		kW
Declared COP	COP_D	4,36		

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

Declared cooling capacity	P _E	7,87		kW
Declared power input	D _E	4,22		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		

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: LH104E/4DES-7Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	16851		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	8,78		kW
Rated power input	D _A	3,79		kW
Rated COP	COP_A	2,32		

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

Declared cooling capacity	P _B	9,68		kW
Declared power input	D _B	3,57		kW
Declared COP	COP_B	2,71		

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

Declared cooling capacity	P _C	10,95		kW
Declared power input	D _C	3,21		kW
Declared COP	COP_C	3,41		

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

Declared cooling capacity	P _D	12,20		kW
Declared power input	D _D	2,80		kW
Declared COP	COP_D	4,35		

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

Declared cooling capacity	P _E	7,36		kW
Declared power input	D _E	4,06		kW
Declared COP	COP_E	1,81		

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: LH104E/4DES-7Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	13933		kWh/a
Seasonal Energy Performance Ratio	SEPR	2,88		

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

Rated cooling capacity	P _A	6,52		kW
Rated power input	D _A	2,94		kW
Rated COP	COP_A	2,22		

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

Declared cooling capacity	P _B	7,12		kW
Declared power input	D _B	2,77		kW
Declared COP	COP_B	2,57		

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

Declared cooling capacity	P _C	7,97		kW
Declared power input	D _C	2,51		kW
Declared COP	COP_C	3,17		

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

Declared cooling capacity	P _D	8,48		kW
Declared power input	D _D	2,34		kW
Declared COP	COP_D	3,62		

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

Declared cooling capacity	P _E	5,57		kW
Declared power input	D _E	3,14		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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