



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH104E/2DES-3Y

Refrigerant: R134a

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	4,69		kW
Rated power input	D _A	2,24		kW
Rated COP	COP_A	2,09		

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

Declared cooling capacity	P _B	5,15		kW
Declared power input	D _B	2,12		kW
Declared COP	COP_B	2,42		

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

Declared cooling capacity	P _E	4,00		kW
Declared power input	D _E	2,39		kW
Declared COP	COP_E	1,68		

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	to _h	20°C	
Power voltage	Net	400V/50Hz	

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

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



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH104E/2DES-3Y

Refrigerant: R404A

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	14726	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	7,83	kW
Rated power input	D _A	3,46	kW
Rated COP	COP_A	2,27	

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

Declared cooling capacity	P _B	8,72	kW
Declared power input	D _B	3,24	kW
Declared COP	COP_B	2,69	

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

Declared cooling capacity	P _C	9,92	kW
Declared power input	D _C	2,86	kW
Declared COP	COP_C	3,47	

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

Declared cooling capacity	P _D	11,07	kW
Declared power input	D _D	2,42	kW
Declared COP	COP_D	4,57	

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

Declared cooling capacity	P _E	6,37	kW
Declared power input	D _E	3,72	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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH104E/2DES-3Y

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	13887	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	6,82	kW
Rated power input	D _A	3,17	kW
Rated COP	COP _A	2,15	

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

Declared cooling capacity	P _B	7,54	kW
Declared power input	D _B	2,98	kW
Declared COP	COP _B	2,53	

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

Declared cooling capacity	P _C	8,56	kW
Declared power input	D _C	2,67	kW
Declared COP	COP _C	3,20	

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

Declared cooling capacity	P _D	9,58	kW
Declared power input	D _D	2,31	kW
Declared COP	COP _D	4,16	

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

Declared cooling capacity	P _E	5,69	kW
Declared power input	D _E	3,39	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: LH104E/2DES-3Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	13673		kWh/a
Seasonal Energy Performance Ratio	SEPR	2,97		

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

Rated cooling capacity	P _A	6,62		kW
Rated power input	D _A	3,07		kW
Rated COP	COP_A	2,16		

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

Declared cooling capacity	P _B	7,26		kW
Declared power input	D _B	2,89		kW
Declared COP	COP_B	2,51		

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

Declared cooling capacity	P _C	8,17		kW
Declared power input	D _C	2,59		kW
Declared COP	COP_C	3,16		

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

Declared cooling capacity	P _D	9,07		kW
Declared power input	D _D	2,24		kW
Declared COP	COP_D	4,05		

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

Declared cooling capacity	P _E	5,60		kW
Declared power input	D _E	3,29		kW
Declared COP	COP_E	1,70		

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/2DES-3Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	14598	10968	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,04	1,25	

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

Rated cooling capacity	P _A	7,21	1,85	kW
Rated power input	D _A	3,33	1,93	kW
Rated COP	COP_A	2,17	0,95	

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

Declared cooling capacity	P _B	7,93	2,14	kW
Declared power input	D _B	3,13	1,93	kW
Declared COP	COP_B	2,54	1,11	

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

Declared cooling capacity	P _C	8,97	2,54	kW
Declared power input	D _C	2,79	1,90	kW
Declared COP	COP_C	3,22	1,34	

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

Declared cooling capacity	P _D	10,01	2,91	kW
Declared power input	D _D	2,40	1,84	kW
Declared COP	COP_D	4,18	1,58	

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

Declared cooling capacity	P _E	6,07	1,41	kW
Declared power input	D _E	3,58	1,89	kW
Declared COP	COP_E	1,70	0,74	

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: LH104E/2DES-3Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	13233	10382	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,88	1,17	

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

Rated cooling capacity	P _A	6,21	1,63	kW
Rated power input	D _A	2,99	1,81	kW
Rated COP	COP_A	2,08	0,90	

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

Declared cooling capacity	P _B	6,87	1,89	kW
Declared power input	D _B	2,83	1,82	kW
Declared COP	COP_B	2,43	1,04	

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

Declared cooling capacity	P _C	7,82	2,25	kW
Declared power input	D _C	2,55	1,80	kW
Declared COP	COP_C	3,07	1,25	

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

Declared cooling capacity	P _D	8,78	2,60	kW
Declared power input	D _D	2,22	1,76	kW
Declared COP	COP_D	3,96	1,48	

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

Declared cooling capacity	P _E	5,17	1,24	kW
Declared power input	D _E	3,20	1,76	kW
Declared COP	COP_E	1,62	0,70	

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: LH104E/2DES-3Y

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	14516	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,59	

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

Rated cooling capacity	P _A	6,11	kW
Rated power input	D _A	3,25	kW
Rated COP	COP_A	1,88	

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

Declared cooling capacity	P _B	6,81	kW
Declared power input	D _B	3,10	kW
Declared COP	COP_B	2,20	

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

Declared cooling capacity	P _C	7,82	kW
Declared power input	D _C	2,83	kW
Declared COP	COP_C	2,77	

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

Declared cooling capacity	P _D	8,83	kW
Declared power input	D _D	2,50	kW
Declared COP	COP_D	3,53	

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

Declared cooling capacity	P _E	5,00	kW
Declared power input	D _E	3,43	kW
Declared COP	COP_E	1,46	

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/2DES-3Y

Refrigerant: R507A

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	14727	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,36	

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

Rated cooling capacity	P _A	8,05	kW
Rated power input	D _A	3,46	kW
Rated COP	COP _A	2,33	

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

Declared cooling capacity	P _B	8,97	kW
Declared power input	D _B	3,24	kW
Declared COP	COP _B	2,77	

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

Declared cooling capacity	P _C	10,22	kW
Declared power input	D _C	2,87	kW
Declared COP	COP _C	3,56	

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

Declared cooling capacity	P _D	11,43	kW
Declared power input	D _D	2,43	kW
Declared COP	COP _D	4,70	

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

Declared cooling capacity	P _E	6,53	kW
Declared power input	D _E	3,72	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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH104E/2DES-3Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	14231	10996	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,05	1,26	

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

Rated cooling capacity	P _A	7,06	1,86	kW
Rated power input	D _A	3,25	1,94	kW
Rated COP	COP_A	2,17	0,96	

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

Declared cooling capacity	P _B	7,78	2,16	kW
Declared power input	D _B	3,06	1,94	kW
Declared COP	COP_B	2,55	1,11	

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

Declared cooling capacity	P _C	8,82	2,56	kW
Declared power input	D _C	2,73	1,90	kW
Declared COP	COP_C	3,23	1,35	

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

Declared cooling capacity	P _D	9,86	2,94	kW
Declared power input	D _D	2,35	1,84	kW
Declared COP	COP_D	4,20	1,60	

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

Declared cooling capacity	P _E	5,92	1,42	kW
Declared power input	D _E	3,50	1,89	kW
Declared COP	COP_E	1,69	0,75	

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/2DES-3Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	14210	11010	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,04	1,26	

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

Rated cooling capacity	P _A	7,03	1,87	kW
Rated power input	D _A	3,25	1,94	kW
Rated COP	COP_A	2,16	0,96	

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

Declared cooling capacity	P _B	7,75	2,16	kW
Declared power input	D _B	3,06	1,94	kW
Declared COP	COP_B	2,54	1,11	

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

Declared cooling capacity	P _C	8,79	2,57	kW
Declared power input	D _C	2,73	1,90	kW
Declared COP	COP_C	3,22	1,35	

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

Declared cooling capacity	P _D	9,84	2,94	kW
Declared power input	D _D	2,35	1,84	kW
Declared COP	COP_D	4,20	1,60	

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

Declared cooling capacity	P _E	5,89	1,42	kW
Declared power input	D _E	3,50	1,89	kW
Declared COP	COP_E	1,68	0,75	

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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COP Declaration Model: LH104E/2DES-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	4,09		kW
Rated power input	D _A	2,07		kW
Rated COP	COP_A	1,98		

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

Declared cooling capacity	P _B	4,50		kW
Declared power input	D _B	1,97		kW
Declared COP	COP_B	2,29		

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

Declared cooling capacity	P _E	3,48		kW
Declared power input	D _E	2,20		kW
Declared COP	COP_E	1,58		

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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COP Declaration Model: LH104E/2DES-3Y

Refrigerant: R513A

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	4,99		kW
Rated power input	D _A	2,33		kW
Rated COP	COP_A	2,14		

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

Declared cooling capacity	P _B	5,49		kW
Declared power input	D _B	2,21		kW
Declared COP	COP_B	2,48		

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

Declared cooling capacity	P _E	4,22		kW
Declared power input	D _E	2,49		kW
Declared COP	COP_E	1,69		

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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COP Declaration Model: LH104E/2DES-3Y

Refrigerant: R1234yf

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	4,67		kW
Rated power input	D _A	2,24		kW
Rated COP	COP_A	2,08		

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

Declared cooling capacity	P _B	5,16		kW
Declared power input	D _B	2,12		kW
Declared COP	COP_B	2,43		

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

Declared cooling capacity	P _E	3,93		kW
Declared power input	D _E	2,40		kW
Declared COP	COP_E	1,64		

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



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH104E/2DES-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	3,44		kW
Rated power input	D _A	1,84		kW
Rated COP	COP_A	1,87		

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

Declared cooling capacity	P _B	3,80		kW
Declared power input	D _B	1,76		kW
Declared COP	COP_B	2,16		

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

Declared cooling capacity	P _E	2,91		kW
Declared power input	D _E	1,94		kW
Declared COP	COP_E	1,50		

Other items

Capacity control	—		
Reference temperature	Dew point temp.		
Suction gas temperature	toh	20°C	
Power voltage	Net	400V/50Hz	

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

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