



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH114E/4DES-5Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	16903		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,26		

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

Rated cooling capacity	P _A	8,96		kW
Rated power input	D _A	3,72		kW
Rated COP	COP_A	2,41		

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

Declared cooling capacity	P _B	9,81		kW
Declared power input	D _B	3,50		kW
Declared COP	COP_B	2,80		

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

Declared cooling capacity	P _C	11,00		kW
Declared power input	D _C	3,12		kW
Declared COP	COP_C	3,52		

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

Declared cooling capacity	P _D	11,93		kW
Declared power input	D _D	2,78		kW
Declared COP	COP_D	4,29		

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

Declared cooling capacity	P _E	7,61		kW
Declared power input	D _E	3,99		kW
Declared COP	COP_E	1,91		

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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SEPR Declaration Model: LH114E/4DES-5Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	28157	21122	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,22	1,75	

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

Rated cooling capacity	P _A	14,73	4,96	kW
Rated power input	D _A	6,62	3,84	kW
Rated COP	COP_A	2,23	1,29	

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

Declared cooling capacity	P _B	16,39	5,59	kW
Declared power input	D _B	6,19	3,74	kW
Declared COP	COP_B	2,65	1,50	

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

Declared cooling capacity	P _C	18,71	6,48	kW
Declared power input	D _C	5,48	3,53	kW
Declared COP	COP_C	3,42	1,84	

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

Declared cooling capacity	P _D	21,0	7,26	kW
Declared power input	D _D	4,66	3,28	kW
Declared COP	COP_D	4,49	2,22	

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

Declared cooling capacity	P _E	12,08	3,95	kW
Declared power input	D _E	7,17	3,92	kW
Declared COP	COP_E	1,68	1,01	

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/4DES-5Y

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	25245	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,14	

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

Rated cooling capacity	P _A	12,88	kW
Rated power input	D _A	5,78	kW
Rated COP	COP _A	2,23	

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

Declared cooling capacity	P _B	14,28	kW
Declared power input	D _B	5,45	kW
Declared COP	COP _B	2,62	

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

Declared cooling capacity	P _C	16,28	kW
Declared power input	D _C	4,88	kW
Declared COP	COP _C	3,33	

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

Declared cooling capacity	P _D	18,25	kW
Declared power input	D _D	4,21	kW
Declared COP	COP _D	4,33	

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

Declared cooling capacity	P _E	10,72	kW
Declared power input	D _E	6,19	kW
Declared COP	COP _E	1,73	

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/4DES-5Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	24045		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,14		

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

Rated cooling capacity	P _A	12,29		kW
Rated power input	D _A	5,43		kW
Rated COP	COP_A	2,26		

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

Declared cooling capacity	P _B	13,57		kW
Declared power input	D _B	5,13		kW
Declared COP	COP_B	2,65		

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

Declared cooling capacity	P _C	15,38		kW
Declared power input	D _C	4,61		kW
Declared COP	COP_C	3,34		

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

Declared cooling capacity	P _D	17,16		kW
Declared power input	D _D	3,99		kW
Declared COP	COP_D	4,30		

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

Declared cooling capacity	P _E	10,26		kW
Declared power input	D _E	5,77		kW
Declared COP	COP_E	1,78		

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/4DES-5Y

Refrigerant: R407F

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Item	Symbol*	Value	Unit
Evaporating temperature	t	-10	°C
Annual electricity consumption	Q	26844	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,12	

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

Rated cooling capacity	P _A	13,61	kW
Rated power input	D _A	6,13	kW
Rated COP	COP_A	2,22	

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

Declared cooling capacity	P _B	15,02	kW
Declared power input	D _B	5,77	kW
Declared COP	COP_B	2,60	

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

Declared cooling capacity	P _C	17,04	kW
Declared power input	D _C	5,15	kW
Declared COP	COP_C	3,31	

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

Declared cooling capacity	P _D	19,04	kW
Declared power input	D _D	4,43	kW
Declared COP	COP_D	4,30	

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

Declared cooling capacity	P _E	11,43	kW
Declared power input	D _E	6,58	kW
Declared COP	COP_E	1,74	

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/4DES-5Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	28212	20946	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,29	1,84	

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

Rated cooling capacity	P _A	15,11	5,18	kW
Rated power input	D _A	6,63	3,84	kW
Rated COP	COP_A	2,28	1,35	

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

Declared cooling capacity	P _B	16,83	5,85	kW
Declared power input	D _B	6,20	3,74	kW
Declared COP	COP_B	2,71	1,57	

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

Declared cooling capacity	P _C	19,24	6,79	kW
Declared power input	D _C	5,50	3,53	kW
Declared COP	COP_C	3,50	1,92	

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

Declared cooling capacity	P _D	21,6	7,70	kW
Declared power input	D _D	4,70	3,25	kW
Declared COP	COP_D	4,60	2,37	

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

Declared cooling capacity	P _E	12,34	4,13	kW
Declared power input	D _E	7,18	3,92	kW
Declared COP	COP_E	1,72	1,05	

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/4DES-5Y

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	26067	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,14	

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

Rated cooling capacity	P _A	13,32	kW
Rated power input	D _A	5,98	kW
Rated COP	COP_A	2,23	

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

Declared cooling capacity	P _B	14,73	kW
Declared power input	D _B	5,62	kW
Declared COP	COP_B	2,62	

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

Declared cooling capacity	P _C	16,76	kW
Declared power input	D _C	5,02	kW
Declared COP	COP_C	3,34	

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

Declared cooling capacity	P _D	18,74	kW
Declared power input	D _D	4,32	kW
Declared COP	COP_D	4,34	

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

Declared cooling capacity	P _E	11,13	kW
Declared power input	D _E	6,42	kW
Declared COP	COP_E	1,73	

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/4DES-5Y

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	26029	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	13,26	kW
Rated power input	D _A	5,98	kW
Rated COP	COP_A	2,22	

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

Declared cooling capacity	P _B	14,68	kW
Declared power input	D _B	5,62	kW
Declared COP	COP_B	2,61	

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

Declared cooling capacity	P _C	16,71	kW
Declared power input	D _C	5,02	kW
Declared COP	COP_C	3,33	

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

Declared cooling capacity	P _D	18,70	kW
Declared power input	D _D	4,32	kW
Declared COP	COP_D	4,33	

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

Declared cooling capacity	P _E	11,07	kW
Declared power input	D _E	6,42	kW
Declared COP	COP_E	1,73	

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/4DES-5Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	15438		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,12		

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

Rated cooling capacity	P _A	7,84		kW
Rated power input	D _A	3,36		kW
Rated COP	COP_A	2,33		

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

Declared cooling capacity	P _B	8,60		kW
Declared power input	D _B	3,16		kW
Declared COP	COP_B	2,72		

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

Declared cooling capacity	P _C	9,66		kW
Declared power input	D _C	2,83		kW
Declared COP	COP_C	3,41		

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

Declared cooling capacity	P _D	10,39		kW
Declared power input	D _D	2,57		kW
Declared COP	COP_D	4,04		

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

Declared cooling capacity	P _E	6,64		kW
Declared power input	D _E	3,61		kW
Declared COP	COP_E	1,84		

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/4DES-5Y

Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	17510		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	9,50		kW
Rated power input	D _A	3,91		kW
Rated COP	COP_A	2,43		

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

Declared cooling capacity	P _B	10,45		kW
Declared power input	D _B	3,68		kW
Declared COP	COP_B	2,84		

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

Declared cooling capacity	P _C	11,76		kW
Declared power input	D _C	3,29		kW
Declared COP	COP_C	3,58		

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

Declared cooling capacity	P _D	12,92		kW
Declared power input	D _D	2,89		kW
Declared COP	COP_D	4,47		

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

Declared cooling capacity	P _E	7,99		kW
Declared power input	D _E	4,19		kW
Declared COP	COP_E	1,90		

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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