



Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH104E/4TES-9Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	25429		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,21		

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

Rated cooling capacity	P _A	13,27		kW
Rated power input	D _A	5,45		kW
Rated COP	COP_A	2,43		

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

Declared cooling capacity	P _B	14,63		kW
Declared power input	D _B	5,21		kW
Declared COP	COP_B	2,81		

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

Declared cooling capacity	P _C	16,47		kW
Declared power input	D _C	4,79		kW
Declared COP	COP_C	3,44		

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

Declared cooling capacity	P _D	18,13		kW
Declared power input	D _D	4,28		kW
Declared COP	COP_D	4,23		

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

Declared cooling capacity	P _E	11,12		kW
Declared power input	D _E	5,74		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: LH104E/4TES-9Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	46212	28432	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,68	1,82	

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

Rated cooling capacity	P _A	20,1	6,95	kW
Rated power input	D _A	10,29	5,11	kW
Rated COP	COP_A	1,95	1,36	

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

Declared cooling capacity	P _B	22,6	8,01	kW
Declared power input	D _B	9,81	5,05	kW
Declared COP	COP_B	2,30	1,59	

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

Declared cooling capacity	P _C	26,2	9,57	kW
Declared power input	D _C	9,05	4,94	kW
Declared COP	COP_C	2,89	1,94	

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

Declared cooling capacity	P _D	29,7	11,16	kW
Declared power input	D _D	8,21	4,81	kW
Declared COP	COP_D	3,62	2,32	

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

Declared cooling capacity	P _E	16,20	5,33	kW
Declared power input	D _E	10,97	5,15	kW
Declared COP	COP_E	1,48	1,04	

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/4TES-9Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	41286	23736	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,75	1,64	

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

Rated cooling capacity	P _A	18,49	5,24	kW
Rated power input	D _A	9,04	4,18	kW
Rated COP	COP_A	2,04	1,25	

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

Declared cooling capacity	P _B	20,6	6,07	kW
Declared power input	D _B	8,64	4,21	kW
Declared COP	COP_B	2,38	1,44	

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

Declared cooling capacity	P _C	23,5	7,29	kW
Declared power input	D _C	7,96	4,18	kW
Declared COP	COP_C	2,95	1,75	

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

Declared cooling capacity	P _D	26,4	8,49	kW
Declared power input	D _D	7,14	4,05	kW
Declared COP	COP_D	3,70	2,10	

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	9,53	--	kW
Declared COP	COP_E	1,60	--	

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/4TES-9Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	38943		kWh/a
Seasonal Energy Performance Ratio	SEPR	2,81		

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

Rated cooling capacity	P _A	17,78		kW
Rated power input	D _A	8,52		kW
Rated COP	COP_A	2,09		

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

Declared cooling capacity	P _B	19,74		kW
Declared power input	D _B	8,16		kW
Declared COP	COP_B	2,42		

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

Declared cooling capacity	P _C	22,5		kW
Declared power input	D _C	7,49		kW
Declared COP	COP_C	3,00		

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

Declared cooling capacity	P _D	25,1		kW
Declared power input	D _D	6,65		kW
Declared COP	COP_D	3,78		

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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SEPR Declaration Model: LH104E/4TES-9Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	43410	24015	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,71	1,67	

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

Rated cooling capacity	P _A	19,17	5,39	kW
Rated power input	D _A	9,58	4,27	kW
Rated COP	COP_A	2,00	1,26	

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

Declared cooling capacity	P _B	21,3	6,34	kW
Declared power input	D _B	9,14	4,33	kW
Declared COP	COP_B	2,33	1,46	

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

Declared cooling capacity	P _C	24,4	7,70	kW
Declared power input	D _C	8,38	4,33	kW
Declared COP	COP_C	2,91	1,78	

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

Declared cooling capacity	P _D	27,5	9,07	kW
Declared power input	D _D	7,48	4,21	kW
Declared COP	COP_D	3,67	2,15	

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

Declared cooling capacity	P _E	15,85	--	kW
Declared power input	D _E	10,09	--	kW
Declared COP	COP_E	1,57	--	

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/4TES-9Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	37337	21793	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,72	1,58	

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

Rated cooling capacity	P _A	16,53	4,62	kW
Rated power input	D _A	8,07	3,81	kW
Rated COP	COP_A	2,05	1,21	

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

Declared cooling capacity	P _B	18,42	5,36	kW
Declared power input	D _B	7,74	3,78	kW
Declared COP	COP_B	2,38	1,42	

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

Declared cooling capacity	P _C	21,2	6,51	kW
Declared power input	D _C	7,21	3,79	kW
Declared COP	COP_C	2,94	1,72	

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

Declared cooling capacity	P _D	24,1	7,65	kW
Declared power input	D _D	6,64	3,89	kW
Declared COP	COP_D	3,63	1,97	

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

Declared cooling capacity	P _E	13,50	3,52	kW
Declared power input	D _E	8,53	3,89	kW
Declared COP	COP_E	1,58	0,90	

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/4TES-9Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	40925	22247	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,40	1,47	

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

Rated cooling capacity	P _A	15,94	4,40	kW
Rated power input	D _A	8,94	4,11	kW
Rated COP	COP_A	1,78	1,07	

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

Declared cooling capacity	P _B	18,00	5,17	kW
Declared power input	D _B	8,60	4,05	kW
Declared COP	COP_B	2,09	1,28	

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

Declared cooling capacity	P _C	20,9	6,34	kW
Declared power input	D _C	8,04	4,00	kW
Declared COP	COP_C	2,59	1,59	

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

Declared cooling capacity	P _D	23,8	7,61	kW
Declared power input	D _D	7,42	4,00	kW
Declared COP	COP_D	3,21	1,90	

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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SEPR Declaration Model: LH104E/4TES-9Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	46323	28473	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,73	1,90	

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

Rated cooling capacity	P _A	20,6	7,27	kW
Rated power input	D _A	10,32	5,11	kW
Rated COP	COP _A	1,99	1,42	

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

Declared cooling capacity	P _B	23,1	8,38	kW
Declared power input	D _B	9,84	5,05	kW
Declared COP	COP _B	2,35	1,66	

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

Declared cooling capacity	P _C	26,8	10,00	kW
Declared power input	D _C	9,09	4,94	kW
Declared COP	COP _C	2,95	2,02	

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

Declared cooling capacity	P _D	30,5	11,67	kW
Declared power input	D _D	8,26	4,81	kW
Declared COP	COP _D	3,68	2,43	

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

Declared cooling capacity	P _E	16,46	5,58	kW
Declared power input	D _E	10,98	5,15	kW
Declared COP	COP _E	1,50	1,08	

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/4TES-9Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	42198	24761	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,76	1,68	

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

Rated cooling capacity	P _A	18,93	5,58	kW
Rated power input	D _A	9,33	4,28	kW
Rated COP	COP_A	2,03	1,30	

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

Declared cooling capacity	P _B	21,1	6,46	kW
Declared power input	D _B	8,90	4,35	kW
Declared COP	COP_B	2,37	1,49	

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

Declared cooling capacity	P _C	24,1	7,73	kW
Declared power input	D _C	8,16	4,34	kW
Declared COP	COP_C	2,95	1,78	

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

Declared cooling capacity	P _D	27,2	9,03	kW
Declared power input	D _D	7,28	4,22	kW
Declared COP	COP_D	3,73	2,14	

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

Declared cooling capacity	P _E	15,61	4,25	kW
Declared power input	D _E	9,83	4,05	kW
Declared COP	COP_E	1,59	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: LH104E/4TES-9Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	42142	24750	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,75	1,68	

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

Rated cooling capacity	P _A	18,84	5,58	kW
Rated power input	D _A	9,32	4,28	kW
Rated COP	COP_A	2,02	1,30	

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

Declared cooling capacity	P _B	21,0	6,46	kW
Declared power input	D _B	8,90	4,35	kW
Declared COP	COP_B	2,36	1,49	

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

Declared cooling capacity	P _C	24,0	7,73	kW
Declared power input	D _C	8,16	4,34	kW
Declared COP	COP_C	2,95	1,78	

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

Declared cooling capacity	P _D	27,1	9,04	kW
Declared power input	D _D	7,28	4,22	kW
Declared COP	COP_D	3,72	2,14	

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

Declared cooling capacity	P _E	15,53	4,25	kW
Declared power input	D _E	9,83	4,05	kW
Declared COP	COP_E	1,58	1,05	

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/4TES-9Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	22851		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	11,71		kW
Rated power input	D _A	4,86		kW
Rated COP	COP_A	2,41		

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

Declared cooling capacity	P _B	12,91		kW
Declared power input	D _B	4,64		kW
Declared COP	COP_B	2,78		

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

Declared cooling capacity	P _C	14,54		kW
Declared power input	D _C	4,28		kW
Declared COP	COP_C	3,40		

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

Declared cooling capacity	P _D	16,00		kW
Declared power input	D _D	3,89		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	9,78		kW
Declared power input	D _E	5,13		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		

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SEPR Declaration Model: LH104E/4TES-9Y

Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	26795		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	13,94		kW
Rated power input	D _A	5,76		kW
Rated COP	COP_A	2,42		

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

Declared cooling capacity	P _B	15,44		kW
Declared power input	D _B	5,51		kW
Declared COP	COP_B	2,80		

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

Declared cooling capacity	P _C	17,47		kW
Declared power input	D _C	5,08		kW
Declared COP	COP_C	3,44		

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

Declared cooling capacity	P _D	19,32		kW
Declared power input	D _D	4,56		kW
Declared COP	COP_D	4,23		

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

Declared cooling capacity	P _E	11,59		kW
Declared power input	D _E	6,05		kW
Declared COP	COP_E	1,91		

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		

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 C_{dc} can not be determined by test. For this reason the default degradation coefficient C_{dc} (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/4TES-9Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	26089		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,17		

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

Rated cooling capacity	P _A	13,45		kW
Rated power input	D _A	5,67		kW
Rated COP	COP_A	2,37		

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

Declared cooling capacity	P _B	14,91		kW
Declared power input	D _B	5,41		kW
Declared COP	COP_B	2,75		

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

Declared cooling capacity	P _C	16,92		kW
Declared power input	D _C	4,97		kW
Declared COP	COP_C	3,40		

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

Declared cooling capacity	P _D	18,78		kW
Declared power input	D _D	4,45		kW
Declared COP	COP_D	4,22		

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	6,00		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		

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH104E/4TES-9Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	20762		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,05		

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

Rated cooling capacity	P _A	10,30		kW
Rated power input	D _A	4,20		kW
Rated COP	COP_A	2,45		

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

Declared cooling capacity	P _B	11,26		kW
Declared power input	D _B	4,03		kW
Declared COP	COP_B	2,80		

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

Declared cooling capacity	P _C	12,49		kW
Declared power input	D _C	3,77		kW
Declared COP	COP_C	3,32		

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

Declared cooling capacity	P _D	13,55		kW
Declared power input	D _D	3,53		kW
Declared COP	COP_D	3,84		

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

Declared cooling capacity	P _E	8,68		kW
Declared power input	D _E	4,45		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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