



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH53E/2DES-2Y

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	4,28		kW
Rated power input	D _A	1,82		kW
Rated COP	COP_A	2,35		

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

Declared cooling capacity	P _B	4,69		kW
Declared power input	D _B	1,73		kW
Declared COP	COP_B	2,71		

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

Declared cooling capacity	P _E	3,66		kW
Declared power input	D _E	1,94		kW
Declared COP	COP_E	1,89		

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: LH53E/2DES-2Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	14606	9369	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,71	1,81	

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

Rated cooling capacity	P _A	6,44	2,27	kW
Rated power input	D _A	3,28	1,71	kW
Rated COP	COP_A	1,96	1,33	

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

Declared cooling capacity	P _B	7,26	2,61	kW
Declared power input	D _B	3,14	1,69	kW
Declared COP	COP_B	2,31	1,54	

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

Declared cooling capacity	P _C	8,38	3,06	kW
Declared power input	D _C	2,87	1,62	kW
Declared COP	COP_C	2,92	1,89	

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

Declared cooling capacity	P _D	9,43	3,49	kW
Declared power input	D _D	2,55	1,50	kW
Declared COP	COP_D	3,70	2,33	

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

Declared cooling capacity	P _E	5,13	1,71	kW
Declared power input	D _E	3,45	1,68	kW
Declared COP	COP_E	1,49	1,02	

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: LH53E/2DES-2Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	13165	7486	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,73	1,63	

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

Rated cooling capacity	P _A	5,85	1,63	kW
Rated power input	D _A	2,91	1,33	kW
Rated COP	COP_A	2,01	1,23	

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

Declared cooling capacity	P _B	6,50	1,91	kW
Declared power input	D _B	2,77	1,34	kW
Declared COP	COP_B	2,34	1,42	

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

Declared cooling capacity	P _C	7,43	2,29	kW
Declared power input	D _C	2,54	1,32	kW
Declared COP	COP_C	2,93	1,73	

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

Declared cooling capacity	P _D	8,34	2,65	kW
Declared power input	D _D	2,26	1,28	kW
Declared COP	COP_D	3,69	2,08	

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

Declared cooling capacity	P _E	4,84	1,23	kW
Declared power input	D _E	3,07	1,27	kW
Declared COP	COP_E	1,58	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: LH53E/2DES-2Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	12763		kWh/a
Seasonal Energy Performance Ratio	SEPR	2,78		

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

Rated cooling capacity	P _A	5,77		kW
Rated power input	D _A	2,80		kW
Rated COP	COP_A	2,06		

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

Declared cooling capacity	P _B	6,36		kW
Declared power input	D _B	2,66		kW
Declared COP	COP_B	2,39		

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

Declared cooling capacity	P _C	7,19		kW
Declared power input	D _C	2,42		kW
Declared COP	COP_C	2,97		

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

Declared cooling capacity	P _D	8,01		kW
Declared power input	D _D	2,15		kW
Declared COP	COP_D	3,73		

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: LH53E/2DES-2Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	14141	7924	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,69	1,64	

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

Rated cooling capacity	P _A	6,18	1,75	kW
Rated power input	D _A	3,12	1,40	kW
Rated COP	COP_A	1,98	1,24	

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

Declared cooling capacity	P _B	6,84	2,03	kW
Declared power input	D _B	2,97	1,41	kW
Declared COP	COP_B	2,31	1,44	

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

Declared cooling capacity	P _C	7,77	2,42	kW
Declared power input	D _C	2,71	1,39	kW
Declared COP	COP_C	2,87	1,74	

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

Declared cooling capacity	P _D	8,69	2,80	kW
Declared power input	D _D	2,40	1,33	kW
Declared COP	COP_D	3,63	2,10	

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

Declared cooling capacity	P _E	5,16	1,32	kW
Declared power input	D _E	3,29	1,35	kW
Declared COP	COP_E	1,57	0,98	

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: LH53E/2DES-2Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	12208	7356	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,71	1,59	

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

Rated cooling capacity	P _A	5,39	1,57	kW
Rated power input	D _A	2,70	1,28	kW
Rated COP	COP_A	2,00	1,22	

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

Declared cooling capacity	P _B	5,99	1,82	kW
Declared power input	D _B	2,57	1,29	kW
Declared COP	COP_B	2,33	1,41	

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

Declared cooling capacity	P _C	6,84	2,17	kW
Declared power input	D _C	2,35	1,28	kW
Declared COP	COP_C	2,91	1,69	

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

Declared cooling capacity	P _D	7,68	2,51	kW
Declared power input	D _D	2,10	1,25	kW
Declared COP	COP_D	3,66	2,01	

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

Declared cooling capacity	P _E	4,45	1,19	kW
Declared power input	D _E	2,84	1,23	kW
Declared COP	COP_E	1,56	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: LH53E/2DES-2Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	13466	7527	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,39	1,47	

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

Rated cooling capacity	P _A	5,23	1,48	kW
Rated power input	D _A	2,95	1,33	kW
Rated COP	COP_A	1,77	1,11	

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

Declared cooling capacity	P _B	5,87	1,75	kW
Declared power input	D _B	2,84	1,36	kW
Declared COP	COP_B	2,06	1,29	

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

Declared cooling capacity	P _C	6,78	2,13	kW
Declared power input	D _C	2,64	1,36	kW
Declared COP	COP_C	2,57	1,57	

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

Declared cooling capacity	P _D	7,68	2,51	kW
Declared power input	D _D	2,38	1,33	kW
Declared COP	COP_D	3,22	1,89	

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: LH53E/2DES-2Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	14642	9390	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,76	1,89	

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

Rated cooling capacity	P _A	6,58	2,38	kW
Rated power input	D _A	3,29	1,71	kW
Rated COP	COP_A	2,00	1,39	

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

Declared cooling capacity	P _B	7,42	2,73	kW
Declared power input	D _B	3,14	1,69	kW
Declared COP	COP_B	2,36	1,62	

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

Declared cooling capacity	P _C	8,58	3,20	kW
Declared power input	D _C	2,88	1,62	kW
Declared COP	COP_C	2,97	1,98	

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

Declared cooling capacity	P _D	9,67	3,66	kW
Declared power input	D _D	2,57	1,50	kW
Declared COP	COP_D	3,76	2,43	

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

Declared cooling capacity	P _E	5,21	1,80	kW
Declared power input	D _E	3,45	1,68	kW
Declared COP	COP_E	1,51	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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH53E/2DES-2Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	13698	7983	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,71	1,65	

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

Rated cooling capacity	P _A	6,05	1,77	kW
Rated power input	D _A	3,03	1,41	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	6,70	2,05	kW
Declared power input	D _B	2,88	1,42	kW
Declared COP	COP_B	2,32	1,45	

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

Declared cooling capacity	P _C	7,64	2,45	kW
Declared power input	D _C	2,63	1,39	kW
Declared COP	COP_C	2,90	1,75	

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

Declared cooling capacity	P _D	8,55	2,82	kW
Declared power input	D _D	2,33	1,34	kW
Declared COP	COP_D	3,67	2,11	

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

Declared cooling capacity	P _E	5,02	1,34	kW
Declared power input	D _E	3,20	1,35	kW
Declared COP	COP_E	1,57	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: LH53E/2DES-2Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	13680	7979	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,70	1,66	

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

Rated cooling capacity	P _A	6,02	1,77	kW
Rated power input	D _A	3,03	1,41	kW
Rated COP	COP_A	1,99	1,26	

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

Declared cooling capacity	P _B	6,67	2,05	kW
Declared power input	D _B	2,88	1,42	kW
Declared COP	COP_B	2,32	1,45	

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

Declared cooling capacity	P _C	7,61	2,45	kW
Declared power input	D _C	2,63	1,39	kW
Declared COP	COP_C	2,89	1,75	

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

Declared cooling capacity	P _D	8,53	2,83	kW
Declared power input	D _D	2,33	1,34	kW
Declared COP	COP_D	3,66	2,11	

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

Declared cooling capacity	P _E	4,99	1,34	kW
Declared power input	D _E	3,20	1,35	kW
Declared COP	COP_E	1,56	1,00	

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

COP Declaration Model: LH53E/2DES-2Y

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	3,77		kW
Rated power input	D _A	1,63		kW
Rated COP	COP_A	2,32		

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

Declared cooling capacity	P _B	4,13		kW
Declared power input	D _B	1,54		kW
Declared COP	COP_B	2,68		

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

Declared cooling capacity	P _E	3,21		kW
Declared power input	D _E	1,73		kW
Declared COP	COP_E	1,85		

Other items

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

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH53E/2DES-2Y

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	4,50		kW
Rated power input	D _A	1,93		kW
Rated COP	COP_A	2,33		

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

Declared cooling capacity	P _B	4,95		kW
Declared power input	D _B	1,83		kW
Declared COP	COP_B	2,70		

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

Declared cooling capacity	P _E	3,80		kW
Declared power input	D _E	2,05		kW
Declared COP	COP_E	1,86		

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: LH53E/2DES-2Y

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	4,23		kW
Rated power input	D _A	1,84		kW
Rated COP	COP_A	2,30		

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

Declared cooling capacity	P _B	4,66		kW
Declared power input	D _B	1,74		kW
Declared COP	COP_B	2,68		

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

Declared cooling capacity	P _E	3,56		kW
Declared power input	D _E	1,97		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	

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

COP Declaration Model: LH53E/2DES-2Y

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	3,21		kW
Rated power input	D _A	1,37		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	3,52		kW
Declared power input	D _B	1,30		kW
Declared COP	COP_B	2,71		

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

Declared cooling capacity	P _E	2,73		kW
Declared power input	D _E	1,46		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	

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