



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-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	2,82		kW
Rated power input	D _A	1,34		kW
Rated COP	COP_A	2,10		

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

Declared cooling capacity	P _B	3,12		kW
Declared power input	D _B	1,28		kW
Declared COP	COP_B	2,45		

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

Declared cooling capacity	P _E	2,34		kW
Declared power input	D _E	1,42		kW
Declared COP	COP_E	1,65		

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: LH44E/2FES-2Y

Refrigerant: R404A

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	4,30	1,47	kW
Rated power input	D _A	2,46	1,33	kW
Rated COP	COP_A	1,75	1,10	

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

Declared cooling capacity	P _B	4,88	1,73	kW
Declared power input	D _B	2,33	1,32	kW
Declared COP	COP_B	2,09	1,30	

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

Declared cooling capacity	P _E	3,42	1,10	kW
Declared power input	D _E	2,68	1,35	kW
Declared COP	COP_E	1,27	0,81	

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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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R407A

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	4,38	1,30	kW
Rated power input	D _A	2,32	1,11	kW
Rated COP	COP_A	1,89	1,17	

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

Declared cooling capacity	P _B	4,85	1,49	kW
Declared power input	D _B	2,20	1,10	kW
Declared COP	COP_B	2,21	1,35	

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

Declared cooling capacity	P _E	3,65	1,02	kW
Declared power input	D _E	2,49	1,10	kW
Declared COP	COP_E	1,47	0,92	

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: LH44E/2FES-2Y

Refrigerant: R407C

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	4,37		kW
Rated power input	D _A	2,26		kW
Rated COP	COP_A	1,93		

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

Declared cooling capacity	P _B	4,79		kW
Declared power input	D _B	2,13		kW
Declared COP	COP_B	2,25		

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	

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COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R407F

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	4,62	1,38	kW
Rated power input	D _A	2,50	1,17	kW
Rated COP	COP_A	1,85	1,18	

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

Declared cooling capacity	P _B	5,09	1,58	kW
Declared power input	D _B	2,36	1,16	kW
Declared COP	COP_B	2,16	1,36	

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

Declared cooling capacity	P _E	--	1,09	kW
Declared power input	D _E	--	1,16	kW
Declared COP	COP_E	--	0,94	

Other items

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

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COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R454C

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	3,66	1,01	kW
Rated power input	D _A	2,03	0,98	kW
Rated COP	COP_A	1,80	1,02	

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

Declared cooling capacity	P _B	4,13	1,17	kW
Declared power input	D _B	1,94	0,99	kW
Declared COP	COP_B	2,13	1,19	

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

Declared cooling capacity	P _E	2,92	0,67	kW
Declared power input	D _E	2,19	1,01	kW
Declared COP	COP_E	1,33	0,66	

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: LH44E/2FES-2Y

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

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

Rated cooling capacity	P _A	3,46	kW
Rated power input	D _A	2,28	kW
Rated COP	COP_A	1,52	

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

Declared cooling capacity	P _B	3,97	kW
Declared power input	D _B	2,16	kW
Declared COP	COP_B	1,84	

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	

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COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R507A

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	4,39	1,54	kW
Rated power input	D _A	2,47	1,33	kW
Rated COP	COP_A	1,78	1,15	

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

Declared cooling capacity	P _B	4,99	1,81	kW
Declared power input	D _B	2,34	1,32	kW
Declared COP	COP_B	2,13	1,36	

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

Declared cooling capacity	P _E	3,47	1,15	kW
Declared power input	D _E	2,68	1,35	kW
Declared COP	COP_E	1,29	0,85	

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: LH44E/2FES-2Y

Refrigerant: R448A

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	4,08	1,15	kW
Rated power input	D _A	2,29	1,08	kW
Rated COP	COP_A	1,78	1,06	

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

Declared cooling capacity	P _B	4,61	1,33	kW
Declared power input	D _B	2,18	1,08	kW
Declared COP	COP_B	2,11	1,23	

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

Declared cooling capacity	P _E	3,30	0,76	kW
Declared power input	D _E	2,52	1,11	kW
Declared COP	COP_E	1,31	0,69	

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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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-2Y

Refrigerant: R449A

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	4,07	1,15	kW
Rated power input	D _A	2,29	1,08	kW
Rated COP	COP_A	1,77	1,06	

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

Declared cooling capacity	P _B	4,59	1,33	kW
Declared power input	D _B	2,18	1,08	kW
Declared COP	COP_B	2,10	1,23	

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

Declared cooling capacity	P _E	3,28	0,77	kW
Declared power input	D _E	2,51	1,11	kW
Declared COP	COP_E	1,30	0,69	

Other items

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

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COP Declaration Model: LH44E/2FES-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	2,57		kW
Rated power input	D _A	1,19		kW
Rated COP	COP_A	2,17		

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

Declared cooling capacity	P _B	2,85		kW
Declared power input	D _B	1,11		kW
Declared COP	COP_B	2,57		

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

Declared cooling capacity	P _E	2,16		kW
Declared power input	D _E	1,28		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	

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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH44E/2FES-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	3,07		kW
Rated power input	D _A	1,40		kW
Rated COP	COP_A	2,19		

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

Declared cooling capacity	P _B	3,41		kW
Declared power input	D _B	1,32		kW
Declared COP	COP_B	2,59		

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

Declared cooling capacity	P _E	2,55		kW
Declared power input	D _E	1,50		kW
Declared COP	COP_E	1,70		

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: LH44E/2FES-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	2,85		kW
Rated power input	D _A	1,39		kW
Rated COP	COP_A	2,06		

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

Declared cooling capacity	P _B	3,19		kW
Declared power input	D _B	1,31		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	2,33		kW
Declared power input	D _E	1,48		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: LH44E/2FES-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	2,18		kW
Rated power input	D _A	1,07		kW
Rated COP	COP_A	2,05		

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

Declared cooling capacity	P _B	2,42		kW
Declared power input	D _B	1,01		kW
Declared COP	COP_B	2,40		

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

Declared cooling capacity	P _E	1,82		kW
Declared power input	D _E	1,13		kW
Declared COP	COP_E	1,61		

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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