



Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH33E/2HES-1Y

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	2,01		kW
Rated power input	D _A	0,97		kW
Rated COP	COP_A	2,07		

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

Declared cooling capacity	P _B	2,20		kW
Declared power input	D _B	0,92		kW
Declared COP	COP_B	2,41		

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

Declared cooling capacity	P _E	1,71		kW
Declared power input	D _E	1,05		kW
Declared COP	COP_E	1,63		

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: LH33E/2HES-1Y

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	3,10	1,00	kW
Rated power input	D _A	1,68	0,94	kW
Rated COP	COP_A	1,84	1,06	

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

Declared cooling capacity	P _B	3,50	1,19	kW
Declared power input	D _B	1,60	0,96	kW
Declared COP	COP_B	2,19	1,25	

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

Declared cooling capacity	P _E	2,47	0,71	kW
Declared power input	D _E	1,79	0,89	kW
Declared COP	COP_E	1,38	0,80	

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: LH33E/2HES-1Y

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	3,07	0,86	kW
Rated power input	D _A	1,54	0,78	kW
Rated COP	COP_A	1,99	1,11	

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

Declared cooling capacity	P _B	3,40	0,99	kW
Declared power input	D _B	1,47	0,78	kW
Declared COP	COP_B	2,32	1,28	

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

Declared cooling capacity	P _E	2,56	0,65	kW
Declared power input	D _E	1,64	0,75	kW
Declared COP	COP_E	1,56	0,86	

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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Performance Data Sheet according to EU Regulation 2015/1095

COP Declaration Model: LH33E/2HES-1Y

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	3,07		kW
Rated power input	D _A	1,52		kW
Rated COP	COP_A	2,02		

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

Declared cooling capacity	P _B	3,36		kW
Declared power input	D _B	1,44		kW
Declared COP	COP_B	2,34		

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	to _h	20°C	
Power voltage	Net	400V/50Hz	

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COP Declaration Model: LH33E/2HES-1Y

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	3,24	0,92	kW
Rated power input	D _A	1,64	0,81	kW
Rated COP	COP_A	1,97	1,13	

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

Declared cooling capacity	P _B	3,57	1,06	kW
Declared power input	D _B	1,56	0,81	kW
Declared COP	COP_B	2,29	1,30	

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

Declared cooling capacity	P _E	2,72	0,70	kW
Declared power input	D _E	1,75	0,79	kW
Declared COP	COP_E	1,55	0,88	

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: LH33E/2HES-1Y

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	2,57	0,67	kW
Rated power input	D _A	1,36	0,69	kW
Rated COP	COP_A	1,88	0,96	

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

Declared cooling capacity	P _B	2,89	0,78	kW
Declared power input	D _B	1,32	0,70	kW
Declared COP	COP_B	2,19	1,11	

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

Declared cooling capacity	P _E	2,05	0,44	kW
Declared power input	D _E	1,45	0,69	kW
Declared COP	COP_E	1,41	0,64	

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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COP Declaration Model: LH33E/2HES-1Y

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	2,44	kW
Rated power input	D _A	1,50	kW
Rated COP	COP_A	1,62	

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

Declared cooling capacity	P _B	2,79	kW
Declared power input	D _B	1,44	kW
Declared COP	COP_B	1,94	

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: LH33E/2HES-1Y

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	3,17	1,05	kW
Rated power input	D _A	1,69	0,94	kW
Rated COP	COP_A	1,88	1,12	

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

Declared cooling capacity	P _B	3,59	1,25	kW
Declared power input	D _B	1,61	0,96	kW
Declared COP	COP_B	2,23	1,31	

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

Declared cooling capacity	P _E	2,52	0,75	kW
Declared power input	D _E	1,79	0,89	kW
Declared COP	COP_E	1,41	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: LH33E/2HES-1Y

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	2,88	0,76	kW
Rated power input	D _A	1,52	0,76	kW
Rated COP	COP_A	1,89	1,00	

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

Declared cooling capacity	P _B	3,24	0,89	kW
Declared power input	D _B	1,46	0,77	kW
Declared COP	COP_B	2,22	1,16	

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

Declared cooling capacity	P _E	2,31	0,51	kW
Declared power input	D _E	1,63	0,75	kW
Declared COP	COP_E	1,42	0,67	

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: LH33E/2HES-1Y

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	2,87	0,76	kW
Rated power input	D _A	1,52	0,76	kW
Rated COP	COP_A	1,88	1,00	

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

Declared cooling capacity	P _B	3,23	0,89	kW
Declared power input	D _B	1,46	0,77	kW
Declared COP	COP_B	2,21	1,16	

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

Declared cooling capacity	P _E	2,30	0,51	kW
Declared power input	D _E	1,63	0,75	kW
Declared COP	COP_E	1,41	0,67	

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: LH33E/2HES-1Y

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	1,77		kW
Rated power input	D _A	0,88		kW
Rated COP	COP_A	2,00		

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

Declared cooling capacity	P _B	1,94		kW
Declared power input	D _B	0,83		kW
Declared COP	COP_B	2,33		

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

Declared cooling capacity	P _E	1,50		kW
Declared power input	D _E	0,95		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: LH33E/2HES-1Y

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	2,12		kW
Rated power input	D _A	1,03		kW
Rated COP	COP_A	2,07		

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

Declared cooling capacity	P _B	2,33		kW
Declared power input	D _B	0,97		kW
Declared COP	COP_B	2,41		

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

Declared cooling capacity	P _E	1,79		kW
Declared power input	D _E	1,11		kW
Declared COP	COP_E	1,62		

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: LH33E/2HES-1Y

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	2,04		kW
Rated power input	D _A	1,00		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	2,25		kW
Declared power input	D _B	0,94		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	1,72		kW
Declared power input	D _E	1,08		kW
Declared COP	COP_E	1,60		

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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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	1,55		kW
Rated power input	D _A	0,78		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	1,70		kW
Declared power input	D _B	0,74		kW
Declared COP	COP_B	2,31		

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

Declared cooling capacity	P _E	1,31		kW
Declared power input	D _E	0,84		kW
Declared COP	COP_E	1,56		

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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