Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH135E/4PES-12Y

Refrigerant: R134a

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	26644		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,68		

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

Rated cooling capacity	P_A	15,93		kW
Rated power input	D_A	5,86		kW
Rated COP	**COP_A**	**2,72**		

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

Declared cooling capacity	P_B	17,62		kW
Declared power input	D_B	5,59		kW
Declared COP	**COP_B**	**3,15**		

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

Declared cooling capacity	P_C	19,88		kW
Declared power input	D_C	5,07		kW
Declared COP	**COP_C**	**3,92**		

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

Declared cooling capacity	P_D	21,9		kW
Declared power input	D_D	4,42		kW
Declared COP	**COP_D**	**4,95**		

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

Declared cooling capacity	P_E	13,22		kW
Declared power input	D_E	6,16		kW
Declared COP	**COP_E**	**2,15**		

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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH135E/4PES-12Y

Refrigerant: R404A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	47258	30037	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,34	1,98	

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

Rated cooling capacity	P_A	25,7	7,97	kW
Rated power input	D_A	10,82	5,46	kW
Rated COP	**COP_A**	**2,37**	**1,46**	

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

Declared cooling capacity	P_B	28,9	9,31	kW
Declared power input	D_B	10,28	5,47	kW
Declared COP	**COP_B**	**2,81**	**1,70**	

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

Declared cooling capacity	P_C	33,4	11,23	kW
Declared power input	D_C	9,32	5,36	kW
Declared COP	**COP_C**	**3,58**	**2,10**	

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

Declared cooling capacity	P_D	37,8	13,17	kW
Declared power input	D_D	8,19	5,13	kW
Declared COP	**COP_D**	**4,61**	**2,57**	

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

Declared cooling capacity	P_E	20,7	5,94	kW
Declared power input	D_E	11,47	5,29	kW
Declared COP	**COP_E**	**1,80**	**1,12**	

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: LH135E/4PES-12Y

Refrigerant: R407A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	42293	24655	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,34	1,75	

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

Rated cooling capacity	P_A	23,0	5,78	kW
Rated power input	D_A	9,55	4,37	kW
Rated COP	**COP_A**	**2,40**	**1,32**	

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

Declared cooling capacity	P_B	25,6	6,85	kW
Declared power input	D_B	9,08	4,48	kW
Declared COP	**COP_B**	**2,82**	**1,53**	

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

Declared cooling capacity	P_C	29,3	8,40	kW
Declared power input	D_C	8,24	4,50	kW
Declared COP	**COP_C**	**3,56**	**1,87**	

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

Declared cooling capacity	P_D	33,0	9,91	kW
Declared power input	D_D	7,21	4,40	kW
Declared COP	**COP_D**	**4,58**	**2,25**	

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

Declared cooling capacity	P_E	18,86	4,17	kW
Declared power input	D_E	10,08	4,05	kW
Declared COP	**COP_E**	**1,87**	**1,03**	

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: LH135E/4PES-12Y

Refrigerant: R407C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	39952		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,38		

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

Rated cooling capacity	P_A	22,0		kW
Rated power input	D_A	9,04		kW
Rated COP	**COP_A**	**2,43**		

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

Declared cooling capacity	P_B	24,4		kW
Declared power input	D_B	8,60		kW
Declared COP	**COP_B**	**2,84**		

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

Declared cooling capacity	P_C	27,8		kW
Declared power input	D_C	7,75		kW
Declared COP	**COP_C**	**3,59**		

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

Declared cooling capacity	P_D	31,1		kW
Declared power input	D_D	6,67		kW
Declared COP	**COP_D**	**4,65**		

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

Declared cooling capacity	P_E	18,06		kW
Declared power input	D_E	9,48		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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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH135E/4PES-12Y

Refrigerant: R407F

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	44189	25059	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,34	1,79	

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

Rated cooling capacity	P_A	24,0	6,03	kW
Rated power input	D_A	10,09	4,49	kW
Rated COP	**COP_A**	**2,38**	**1,34**	

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

Declared cooling capacity	P_B	26,7	7,24	kW
Declared power input	D_B	9,56	4,62	kW
Declared COP	**COP_B**	**2,79**	**1,57**	

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

Declared cooling capacity	P_C	30,6	8,98	kW
Declared power input	D_C	8,63	4,68	kW
Declared COP	**COP_C**	**3,55**	**1,92**	

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

Declared cooling capacity	P_D	34,6	10,71	kW
Declared power input	D_D	7,49	4,59	kW
Declared COP	**COP_D**	**4,61**	**2,34**	

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

Declared cooling capacity	P_E	19,74	4,16	kW
Declared power input	D_E	10,66	4,07	kW
Declared COP	**COP_E**	**1,85**	**1,02**	

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: LH135E/4PES-12Y

Refrigerant: R454C

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	38904	23157	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,23	1,67	

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

Rated cooling capacity	P_A	20,4	5,19	kW
Rated power input	D_A	8,60	4,04	kW
Rated COP	**COP_A**	**2,38**	**1,28**	

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

Declared cooling capacity	P_B	22,9	6,13	kW
Declared power input	D_B	8,24	4,09	kW
Declared COP	**COP_B**	**2,77**	**1,50**	

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

Declared cooling capacity	P_C	26,4	7,55	kW
Declared power input	D_C	7,61	4,14	kW
Declared COP	**COP_C**	**3,47**	**1,82**	

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

Declared cooling capacity	P_D	30,0	8,86	kW
Declared power input	D_D	6,86	4,23	kW
Declared COP	**COP_D**	**4,38**	**2,10**	

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

Declared cooling capacity	P_E	16,69	3,82	kW
Declared power input	D_E	9,00	3,94	kW
Declared COP	**COP_E**	**1,85**	**0,97**	

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: LH135E/4PES-12Y

Refrigerant: R455A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	42815	23318	kWh/a
Seasonal Energy Performance Ratio	SEPR	2,85	1,56	

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

Rated cooling capacity	P_A	19,82	4,89	kW
Rated power input	D_A	9,43	4,25	kW
Rated COP	**COP_A**	**2,10**	**1,15**	

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

Declared cooling capacity	P_B	22,4	5,85	kW
Declared power input	D_B	9,10	4,30	kW
Declared COP	**COP_B**	**2,46**	**1,36**	

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

Declared cooling capacity	P_C	26,1	7,32	kW
Declared power input	D_C	8,49	4,34	kW
Declared COP	**COP_C**	**3,07**	**1,69**	

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

Declared cooling capacity	P_D	29,9	8,88	kW
Declared power input	D_D	7,73	4,37	kW
Declared COP	**COP_D**	**3,86**	**2,03**	

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: LH135E/4PES-12Y

Refrigerant: R507A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	47376	30092	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,42	2,07	

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

Rated cooling capacity	P_A	26,3	8,37	kW
Rated power input	D_A	10,84	5,46	kW
Rated COP	**COP_A**	**2,43**	**1,53**	

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

Declared cooling capacity	P_B	29,6	9,76	kW
Declared power input	D_B	10,30	5,47	kW
Declared COP	**COP_B**	**2,87**	**1,79**	

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

Declared cooling capacity	P_C	34,3	11,78	kW
Declared power input	D_C	9,36	5,36	kW
Declared COP	**COP_C**	**3,66**	**2,20**	

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

Declared cooling capacity	P_D	38,9	13,81	kW
Declared power input	D_D	8,24	5,14	kW
Declared COP	**COP_D**	**4,72**	**2,69**	

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

Declared cooling capacity	P_E	21,2	6,25	kW
Declared power input	D_E	11,47	5,28	kW
Declared COP	**COP_E**	**1,84**	**1,18**	

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: LH135E/4PES-12Y

Refrigerant: R448A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	43016	26009	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,37	1,79	

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

Rated cooling capacity	P_A	23,6	6,24	kW
Rated power input	D_A	9,82	4,50	kW
Rated COP	**COP_A**	**2,40**	**1,39**	

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

Declared cooling capacity	P_B	26,3	7,36	kW
Declared power input	D_B	9,31	4,64	kW
Declared COP	**COP_B**	**2,83**	**1,59**	

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

Declared cooling capacity	P_C	30,2	8,95	kW
Declared power input	D_C	8,40	4,69	kW
Declared COP	**COP_C**	**3,59**	**1,91**	

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

Declared cooling capacity	P_D	33,9	10,54	kW
Declared power input	D_D	7,29	4,60	kW
Declared COP	**COP_D**	**4,65**	**2,29**	

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

Declared cooling capacity	P_E	19,30	4,54	kW
Declared power input	D_E	10,39	4,08	kW
Declared COP	**COP_E**	**1,86**	**1,11**	

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: LH135E/4PES-12Y

Refrigerant: R449A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	42962	26003	kWh/a
Seasonal Energy Performance Ratio	SEPR	3,36	1,79	

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

Rated cooling capacity	P_A	23,5	6,25	kW
Rated power input	D_A	9,82	4,50	kW
Rated COP	**COP_A**	**2,39**	**1,39**	

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

Declared cooling capacity	P_B	26,2	7,36	kW
Declared power input	D_B	9,31	4,64	kW
Declared COP	**COP_B**	**2,82**	**1,59**	

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

Declared cooling capacity	P_C	30,1	8,96	kW
Declared power input	D_C	8,39	4,69	kW
Declared COP	**COP_C**	**3,58**	**1,91**	

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

Declared cooling capacity	P_D	33,8	10,54	kW
Declared power input	D_D	7,29	4,60	kW
Declared COP	**COP_D**	**4,64**	**2,29**	

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

Declared cooling capacity	P_E	19,21	4,54	kW
Declared power input	D_E	10,39	4,08	kW
Declared COP	**COP_E**	**1,85**	**1,11**	

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: LH135E/4PES-12Y

Refrigerant: R450A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	24134		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,56		

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

Rated cooling capacity	P_A	13,97		kW
Rated power input	D_A	5,26		kW
Rated COP	**COP_A**	**2,66**		

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

Declared cooling capacity	P_B	15,47		kW
Declared power input	D_B	5,01		kW
Declared COP	**COP_B**	**3,09**		

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

Declared cooling capacity	P_C	17,48		kW
Declared power input	D_C	4,56		kW
Declared COP	**COP_C**	**3,83**		

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

Declared cooling capacity	P_D	19,15		kW
Declared power input	D_D	4,06		kW
Declared COP	**COP_D**	**4,71**		

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

Declared cooling capacity	P_E	11,55		kW
Declared power input	D_E	5,53		kW
Declared COP	**COP_E**	**2,09**		

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: LH135E/4PES-12Y

Refrigerant: R513A

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	28080		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,70		

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

Rated cooling capacity	P_A	16,89		kW
Rated power input	D_A	6,19		kW
Rated COP	**COP_A**	**2,73**		

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

Declared cooling capacity	P_B	18,74		kW
Declared power input	D_B	5,91		kW
Declared COP	**COP_B**	**3,17**		

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

Declared cooling capacity	P_C	21,2		kW
Declared power input	D_C	5,37		kW
Declared COP	**COP_C**	**3,95**		

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

Declared cooling capacity	P_D	23,5		kW
Declared power input	D_D	4,71		kW
Declared COP	**COP_D**	**4,98**		

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

Declared cooling capacity	P_E	13,91		kW
Declared power input	D_E	6,49		kW
Declared COP	**COP_E**	**2,14**		

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*

*** Since condensing units are non functional systems Cdc can not be determined by test. For this reason the default degradation coefficient Cdc (0.25) has to be applied according to EN 13215, Annex A.*

Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH135E/4PES-12Y

Refrigerant: R1234yf

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	27269		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,68		

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

Rated cooling capacity	P_A	16,32		kW
Rated power input	D_A	6,10		kW
Rated COP	**COP_A**	**2,67**		

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

Declared cooling capacity	P_B	18,13		kW
Declared power input	D_B	5,80		kW
Declared COP	**COP_B**	**3,13**		

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

Declared cooling capacity	P_C	20,6		kW
Declared power input	D_C	5,25		kW
Declared COP	**COP_C**	**3,93**		

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

Declared cooling capacity	P_D	22,9		kW
Declared power input	D_D	4,58		kW
Declared COP	**COP_D**	**5,00**		

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

Declared cooling capacity	P_E	13,42		kW
Declared power input	D_E	6,45		kW
Declared COP	**COP_E**	**2,08**		

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	

Additional document: Declaration of Conformity AC-500

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Performance Data Sheet according to EU Regulation 2015/1095

SEPR Declaration Model: LH135E/4PES-12Y

Refrigerant: R1234ze

Item	Symbol*	Value		Unit
Evaporating temperature	t	-10	-35	°C
Annual electricity consumption	Q	22290		kWh/a
Seasonal Energy Performance Ratio	SEPR	3,35		

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

Rated cooling capacity	P_A	12,15		kW
Rated power input	D_A	4,57		kW
Rated COP	**COP_A**	**2,66**		

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

Declared cooling capacity	P_B	13,33		kW
Declared power input	D_B	4,36		kW
Declared COP	**COP_B**	**3,05**		

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

Declared cooling capacity	P_C	14,84		kW
Declared power input	D_C	4,01		kW
Declared COP	**COP_C**	**3,70**		

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

Declared cooling capacity	P_D	15,71		kW
Declared power input	D_D	3,77		kW
Declared COP	**COP_D**	**4,17**		

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

Declared cooling capacity	P_E	10,16		kW
Declared power input	D_E	4,82		kW
Declared COP	**COP_E**	**2,11**		

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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