

Model

Designation	DLE4CN	115-127V/60Hz 1~	Sales code:	102H3482
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	4cm ³ / 0,24cu.in
Oil quantity	221cm ³ / 7,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1465cm ³ / 49,5fl.oz		
Weight	8kg / 17,6lbs		
Motor protection	1# internal		
Winding resistance main	3,61Ω (at 25°C)		
Winding resistance aux	5,93Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	120°C / 248°F		



General - Configurations with DLE4CN

	Conf. 1	Conf. 2	Conf. 3
Motorconfiguration	CSIR	RSIR	RSCR
Power supply (nominal)	115V/60Hz	115V/60Hz	115V/60Hz
Number of phases	1	1	1
Voltage range	95-135V	95-135V	95-135V
Approvals	UL, CCC	UL, CCC	UL, CCC
Starting torque	HST	LST	LST
Note	- / -		

Applications with DLE4CN

	Conf. 1	Conf. 2	Conf. 3
Refrigerant	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+MBP
System cooling	static	static	static
Hot gas defrost	OK	OK	OK
Long interval pull down	OK	OK	OK

Electrical data - Configurations with DLE4CN

	Conf. 1	Conf. 2	Conf. 3
Starting device type	relay	PTC	PTC
Run capacitor	-/-	-/-	15μF
Start capacitor	240μF	-/-	-/-
LRA (locked rotor amps / 4s)	16,6A	12,7A	12,7A
RLA (rated load amps / 1s)	2,53A	2,53A	2,4A
Cut in current	16,6A	20,9A	20,9A
IP class	21	21	21

Model

Designation

DLE4CN

115-127V/60Hz 1~

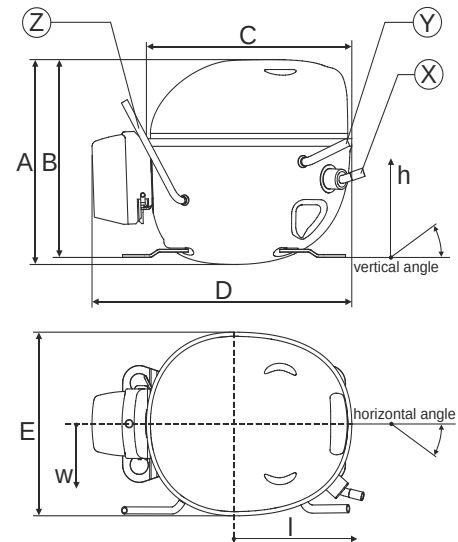
Sales code:

102H3482

Compressor dimensions

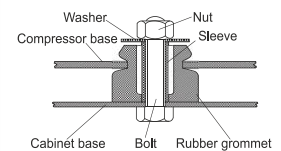
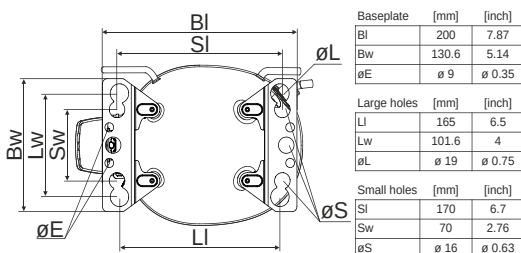
Housing	A Height	174mm / 6,85in
	B Height	168mm / 6,61in
	C Length shell	183mm / 7,2in
	D Length w. cover	232mm / 9,13in
	E Width	156mm / 6,14in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,4-6,6
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	10°	0°	0°
Vertical angle ±2°	18°	25°	119°
Position l/h/w [mm]	135/77/67	98/96/72	-98/133/73
[in]	5,3/3/2,6	3,8/3,8/2,8	-3,9/5,2/2,9
Straight tube l. [mm]	12	12	12
	[in] 0,5	0,5	0,5

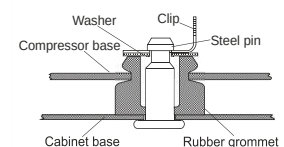


Compressor fixation

Bolt joint



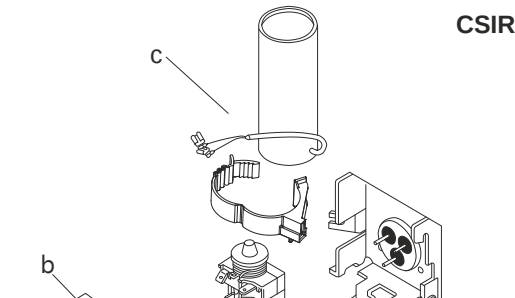
Snap-on



Mounting accessories

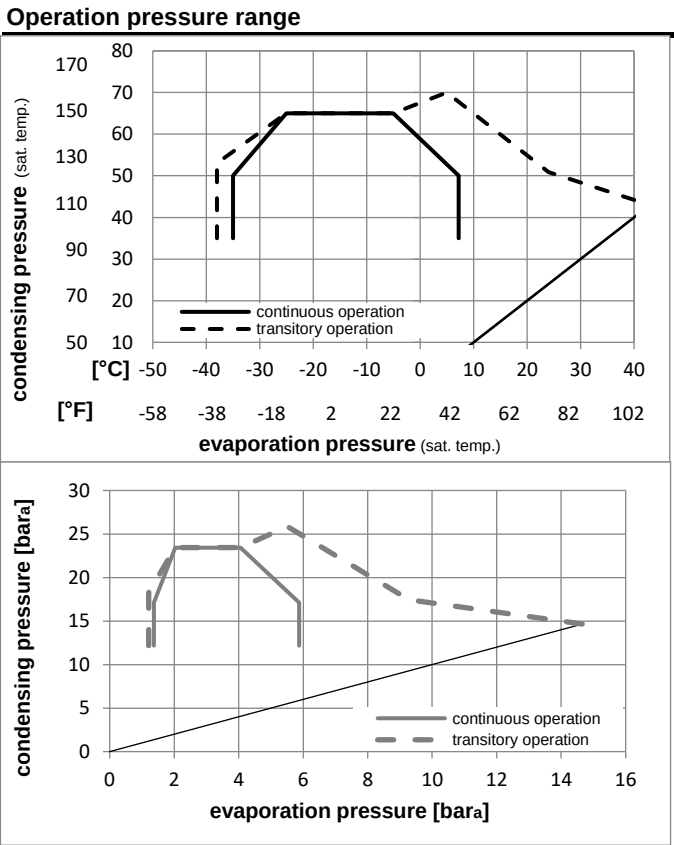
	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Model				
Designation	DLE4CN	115V/60Hz	Conf. 1	Sales code: 102H3482

Configuration			Electrical accessories / wiring diagram	
Motorconfiguration	CSIR			
Power supply (nominal)	115V/60Hz 1~			
Refrigerant	R290			
Application	LBP+MBP			
Voltage range	95-135V			
Starting torque	HST			
Approvals	UL	SA3693		
	CCC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	static	static	n/a
38°C / 100°F	static	static	n/a
43°C / 110°F	fan 3m/s	fan 3m/s	n/a



Components		
a2	relay	117U7022
c	start capacitor (240μF)	117U5023
b	plastic cover	103N0492
d	cord relief	103N1010

Model

Designation	DLE4CN	115V/60Hz	Conf. 1	Sales code:	102H3482
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Optimization + standard conditions

115V/60Hz 1~, CSIR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature) Condensing pressure (saturation temperature) Return gas temp. Liquid temp. Cooling capacity COP EER Power consumption Current consumption Ref. mass flow														
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]										[W]	[A]	[kg/h]		
-23,3	54,4	32,2	32,2	229,3	783	197,3	1,50	5,11	1,29	153,2	1,88	2,32	ASHRAE	LBP
[°F]														
-10	130	90	90											
-25	55	32	55	171,7	586	147,8	1,16	3,95	1,00	148,3	1,85	2,14	cecomaf	LBP
[°F]														
-13	131	89,6	131											
-35	40	20	40	132,0	451	113,6	1,16	3,96	1,00	113,9	1,71	1,51	EN12900	LBP
[°F]														
-31	104	68	104											
-6,66	54,4	35	46,1	414,5	1416	356,7	2,03	6,94	1,75	203,9	2,28	4,73	ASHRAE	MBP
[°F]														
20	130	95	115											
-10	55	32	55	328,0	1120	282,3	1,68	5,74	1,45	195,2	2,20	4,15	cecomaf	MBP
[°F]														
14	131	89,6	131											
-10	45	20	45	369,0	1260	317,5	2,06	7,05	1,78	178,8	2,11	4,53	EN12900	MBP
[°F]														
14	113	68	113											

Performance tables

115V/60Hz 1~, CSIR, fan 3m/s, UL, CCC

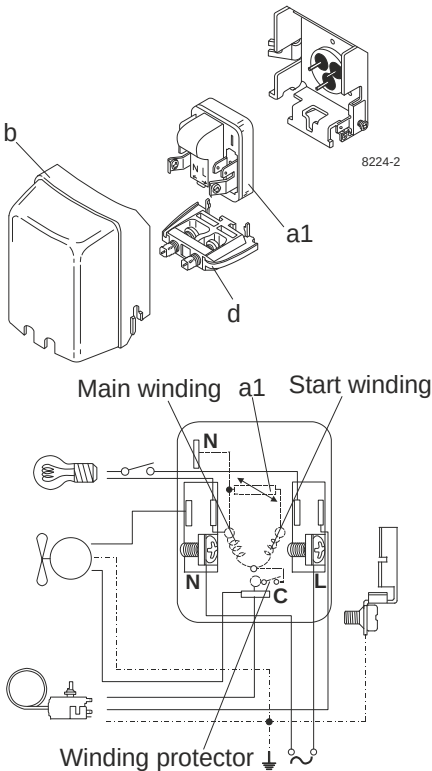
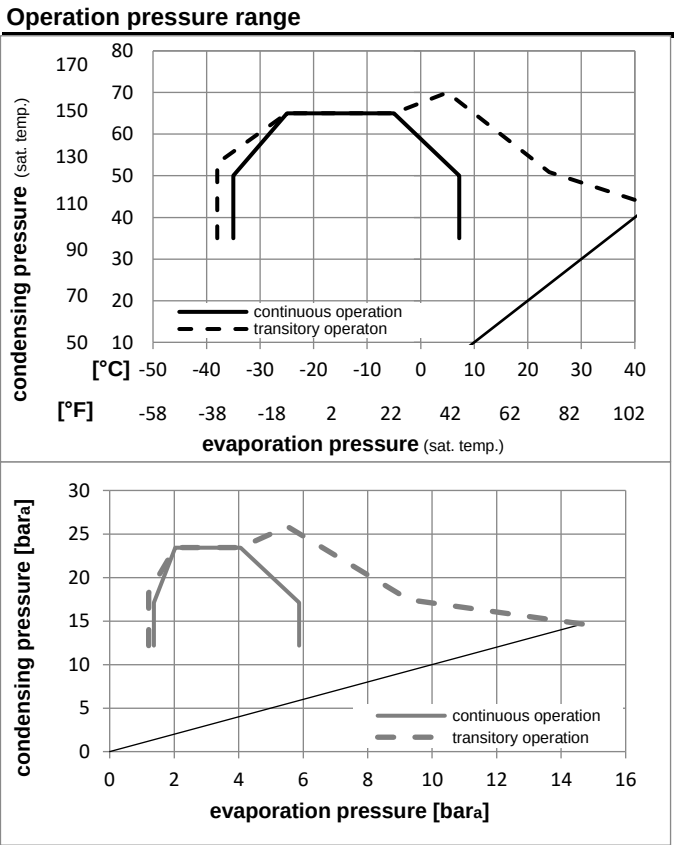
	pe	Cooling capacity				COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	125,8	429	108,2	1,09	3,71	0,93	115,8	1,72	1,41
cond. pressure	-23,3	-10	220,9	754	190,1	1,51	5,16	1,30	146,1	1,87	2,49
pc= 45/113	-15	5	315,1	1076	271,1	1,88	6,43	1,62	167,3	2,02	3,58
return gas temp.	-9,4	15	392,4	1340	337,7	2,18	7,45	1,88	180,0	2,12	4,49
RGT= 32/90	-3,9	25	483,0	1650	415,7	2,53	8,64	2,18	190,8	2,19	5,57
liquid temp	0	32	554,9	1895	477,6	2,82	9,62	2,42	197,0	2,23	6,44
Tliq= 45/113	7,2	45	708,7	2420	610,0	3,46	11,83	2,98	204,7	2,25	8,33
[°C / °F]	-35	-31	103,5	353	89,0	0,88	2,99	0,75	118,0	1,72	1,28
cond. pressure	-23,3	-10	185,6	634	159,7	1,21	4,13	1,04	153,6	1,88	2,31
pc= 55/131	-15	5	267,5	913	230,2	1,49	5,08	1,28	180,0	2,08	3,36
return gas temp	-9,4	15	335,3	1145	288,5	1,70	5,82	1,47	196,9	2,22	4,24
RGT= 32/90	-3,9	25	415,2	1418	357,3	1,95	6,67	1,68	212,5	2,35	5,30
liquid temp	0	32	479,0	1636	412,2	2,15	7,35	1,85	222,4	2,44	6,15
Tliq= 55/131	7,2	45	616,3	2105	530,4	2,59	8,86	2,23	237,7	2,56	8,03

Model				
Designation	DLE4CN	115V/60Hz	Conf. 2	Sales code: 102H3482

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSIR	RSIR		
Power supply (nominal)	115V/60Hz 1~			
Refrigerant	R290			
Application	LBP+MBP			
Voltage range	95-135V			
Starting torque	LST			
Approvals	UL SA3693			
	CCC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	static	static	n/a
38°C / 100°F	static	static	n/a
43°C / 110°F	fan 3m/s	fan 3m/s	n/a



Components		
a1	e-PTC starter	103N0058
b	plastic cover	103N0492
d	cord relief	103N1010

Alternative components		
a1	e-PTC starter (115V, 50hm, 6.3mm, 4.8-cap)	103N0057
b	plastic cover	103N0492
d	cord relief	103N1010

Model

Designation	DLE4CN	115V/60Hz	Conf. 2	Sales code:	102H3482
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Optimization + standard conditions

115V/60Hz 1~, RSIR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature) Condensing pressure (saturation temperature) Return gas temp. Liquid temp. Cooling capacity COP EER Power consumption Current consumption Ref. mass flow														
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]										[W]	[A]	[kg/h]		
-23,3	54,4	32,2	32,2	229,3	783	197,3	1,50	5,11	1,29	153,2	1,88	2,32	ASHRAE	LBP
[°F]														
-10	130	90	90											
-25	55	32	55	171,7	586	147,8	1,16	3,95	1,00	148,3	1,85	2,14	cecomaf	LBP
[°F]														
-13	131	89,6	131											
-35	40	20	40	132,0	451	113,6	1,16	3,96	1,00	113,9	1,71	1,51	EN12900	LBP
[°F]														
-31	104	68	104											
-6,66	54,4	35	46,1	414,5	1416	356,7	2,03	6,94	1,75	203,9	2,28	4,73	ASHRAE	MBP
[°F]														
20	130	95	115											
-10	55	32	55	328,0	1120	282,3	1,68	5,74	1,45	195,2	2,20	4,15	cecomaf	MBP
[°F]														
14	131	89,6	131											
-10	45	20	45	369,0	1260	317,5	2,06	7,05	1,78	178,8	2,11	4,53	EN12900	MBP
[°F]														
14	113	68	113											

Performance tables

115V/60Hz 1~, RSIR, fan 3m/s, UL, CCC

	pe	Cooling capacity				COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	125,8	429	108,2	1,09	3,71	0,93	115,8	1,72	1,41
cond. pressure	-23,3	-10	220,9	754	190,1	1,51	5,16	1,30	146,1	1,87	2,49
pc= 45/113	-15	5	315,1	1076	271,1	1,88	6,43	1,62	167,3	2,02	3,58
return gas temp.	-9,4	15	392,4	1340	337,7	2,18	7,45	1,88	180,0	2,12	4,49
RGT= 32/90	-3,9	25	483,0	1650	415,7	2,53	8,64	2,18	190,8	2,19	5,57
liquid temp	0	32	554,9	1895	477,6	2,82	9,62	2,42	197,0	2,23	6,44
Tliq= 45/113	7,2	45	708,7	2420	610,0	3,46	11,83	2,98	204,7	2,25	8,33
[°C / °F]	-35	-31	103,5	353	89,0	0,88	2,99	0,75	118,0	1,72	1,28
cond. pressure	-23,3	-10	185,6	634	159,7	1,21	4,13	1,04	153,6	1,88	2,31
pc= 55/131	-15	5	267,5	913	230,2	1,49	5,08	1,28	180,0	2,08	3,36
return gas temp	-9,4	15	335,3	1145	288,5	1,70	5,82	1,47	196,9	2,22	4,24
RGT= 32/90	-3,9	25	415,2	1418	357,3	1,95	6,67	1,68	212,5	2,35	5,30
liquid temp	0	32	479,0	1636	412,2	2,15	7,35	1,85	222,4	2,44	6,15
Tliq= 55/131	7,2	45	616,3	2105	530,4	2,59	8,86	2,23	237,7	2,56	8,03

Model

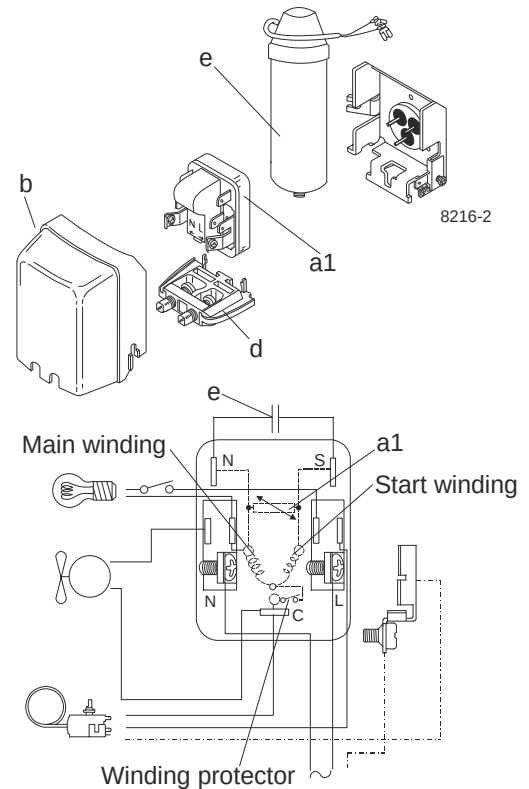
Designation	DLE4CN	115V/60Hz	Conf. 3	Sales code:	102H3482
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Configuration

Motorconfiguration	RSCR
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-135V
Starting torque	LST
Approvals	UL SA3693
	CCC

Electrical accessories / wiring diagram

RSCR

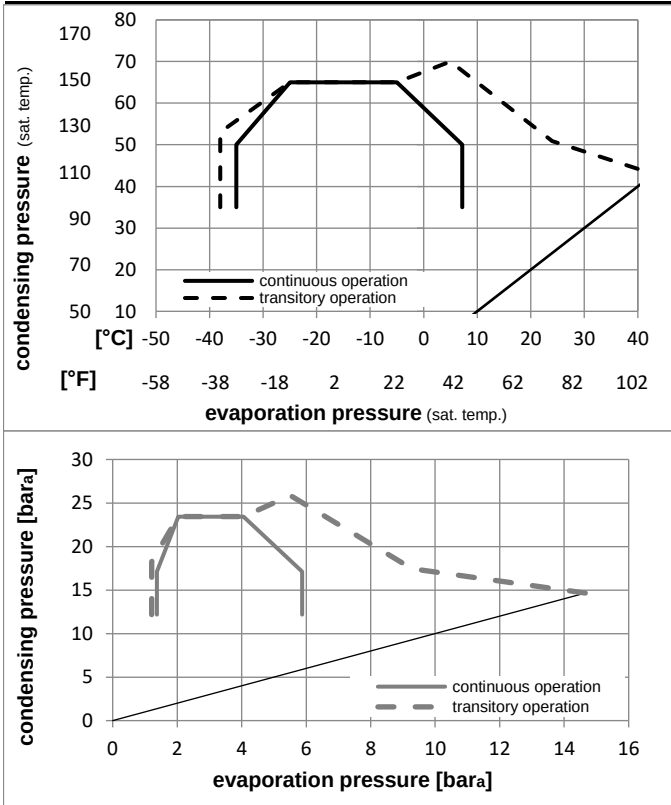


Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	static	static	n/a
38°C / 100°F	static	static	n/a
43°C / 110°F	fan 3m/s	fan 3m/s	n/a

Operation pressure range



Components

a1	e-PTC starter	103N0058
e	run capacitor (15μF, 6.3mm)	117-7118
b	plastic cover	103N0492
d	cord relief	103N1010
	bracket for run capacitor	117-0300
	screw M4x8mm	117-0301

Alternative components

a1	e-PTC starter (115V, 50Ohm, 6.3mm, 4.8-cap)	103N0057
e	run capacitor (15μF, 4.8mm)	117-7120
b	plastic cover	103N0492
d	cord relief	103N1010
	bracket for run capacitor	117-0300
	screw M4x8mm	117-0301

Model

Designation	DLE4CN	115V/60Hz	Conf. 3	Sales code:	102H3482
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Optimization + standard conditions

115V/60Hz 1~, RSCR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature) Condensing pressure (saturation temperature) Return gas temp. Liquid temp. Cooling capacity COP EER Power consumption Current consumption Ref. mass flow														
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]	[°C]									[W]	[A]	[kg/h]		
[°F]													ASHRAE	LBP
-23,3	54,4	32,2	32,2	233,9	799	201,3	1,58	5,40	1,36	147,8	1,33	2,37		
-10	130	90	90											
-25	55	32	55	175,1	598	150,7	1,22	4,17	1,05	143,4	1,29	2,18		
-13	131	89,6	131											cecomaf
														LBP
-35	40	20	40	134,6	460	115,9	1,19	4,07	1,03	112,9	1,06	1,54		
-31	104	68	104											EN12900
														LBP
-6,66	54,4	35	46,1	422,8	1444	363,8	2,19	7,49	1,89	192,9	1,74	4,82		
20	130	95	115											ASHRAE
														MBP
-10	55	32	55	334,5	1142	287,9	1,81	6,17	1,56	185,1	1,67	4,23		
14	131	89,6	131											cecomaf
														MBP
-10	45	20	45	376,4	1285	323,9	2,21	7,54	1,90	170,4	1,57	4,62		
14	113	68	113											EN12900
														MBP

Performance tables

115V/60Hz 1~, RSCR, fan 3m/s, UL, CCC

	pe	Cooling capacity			COP		EER		P1		I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]		[A]	[kg/h]
[°C / °F]	-35	-31	128,3	438	110,4	1,12	3,82	0,96	114,6		1,07	1,44
cond. pressure	-23,3	-10	225,3	769	193,9	1,59	5,44	1,37	141,6		1,30	2,54
pc= 45/113	-15	5	321,4	1097	276,6	2,01	6,85	1,73	160,2		1,47	3,66
return gas temp.	-9,4	15	400,3	1367	344,5	2,33	7,97	2,01	171,5		1,58	4,58
RGT= 32/90	-3,9	25	492,7	1683	424,0	2,72	9,29	2,34	181,2		1,66	5,68
liquid temp	0	32	566,0	1933	487,1	3,03	10,35	2,61	186,7		1,69	6,57
Tliq= 45/113	7,2	45	722,9	2469	622,2	3,73	12,74	3,21	193,8		1,71	8,49
[°C / °F]	-35	-31	105,5	360	90,8	0,91	3,09	0,78	116,6		1,08	1,30
cond. pressure	-23,3	-10	189,3	646	162,9	1,28	4,36	1,10	148,1		1,33	2,36
pc= 55/131	-15	5	272,8	932	234,8	1,59	5,43	1,37	171,5		1,55	3,43
return gas temp	-9,4	15	342,0	1168	294,3	1,83	6,26	1,58	186,6		1,68	4,33
RGT= 32/90	-3,9	25	423,5	1446	364,4	2,11	7,21	1,82	200,7		1,80	5,40
liquid temp	0	32	488,5	1668	420,4	2,33	7,96	2,01	209,6		1,87	6,27
Tliq= 55/131	7,2	45	628,6	2147	541,0	2,81	9,59	2,42	223,8		1,96	8,19