



Ice Machine Compressor Models

- 1.1.01.00008 (NLE11MN)
- 1.1.01.00009 (SCE15MNX)
- 1.1.01.00012 (SCE18MNX)
- 1.1.01.00013 (DLE6.5CN)
- 1.1.01.00002 (NLE8.0CN)

This manual is intended to assist with the matching of different ice machine compressors to the correct models in the Empura Ice Machines product line.

Ice Machine Model	Compressor Model	Compressor Image	Refrigerant Type
E-MCF350, E-MCH350	1.1.01.00008 NLE11MN	 A black, dome-shaped SECOP NLE11MN compressor. It features a yellow warning label with a flame icon and 'R290'. A green label on the front provides technical specifications: NLE11MN, 115-127V-60Hz, 105H, 5980, and includes a barcode. The unit is mounted on a black base with four mounting holes.	R290
E-MCF430, E-MCH430	1.1.01.00009 SCE15MNX	 A black, dome-shaped SECOP SCE15MNX compressor. It features a yellow warning label with a flame icon and 'R290'. A green label on the front provides technical specifications: SCE15MNX, 115V-60Hz, 104H, 7579, and includes a barcode. The unit is mounted on a black base with four mounting holes.	R290

Ice Machine Model	Compressor Model		Refrigerant Type
E-MCF500, E-MCH500	11.01.00012 SCE18MNX	 A black, cylindrical compressor unit with two copper-colored refrigerant ports on top and a black electrical box on the side. It has four mounting feet at the base. Labels include 'SECOP SCE18MNX 135-400g USA 57 1PH THERMALLY PROTECTED R290', 'SCE18MNX 135-400g R290', 'SUCTION', 'ERE', '104H 7879', and 'V28721 3146780'.	R290
E-UCF120	11.01.00013 DLE6.5CN	 A black, cylindrical compressor unit with two copper-colored refrigerant ports on top and a black electrical box on the side. It has four mounting feet at the base. Labels include 'DLE6.5CN 135-400g R290', 'SUCTION', 'ERE', '3792', 'SECOP', 'DLE6.5CN 135-400g R290 1PH THERMALLY PROTECTED R290', and 'V28721 3146780'.	R290

Ice Machine Model	Compressor Model		Refrigerant Type
E-UCF160, E-UCH160, E-UCF210, E-UCH210, E-UCF280, E-UCH280, E-UCF240, E-UCH240	1.1.01.00002 NLE8.0CN		R290

Model

Designation	NLE11MN	115-127V/60Hz 1~	Sales code:	105H5982
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cST	Displacement	11,15cm³ / 0,68cu.in
Oil quantity	298cm³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	400g / 14,1oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	12,14kg / 26,8lbs		
Motor protection	1# internal		
Winding resistance main	0,8Ω (at 25°C)		
Winding resistance aux	3,25Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		


General - Configurations with NLE11MN

	Conf. 1	Conf. 2
Motorconfiguration	CSIR	CSIR
Power supply (nominal)	115V/60Hz	115V/60Hz
Number of phases	1	1
Voltage range	95-127V	95-135V
Approvals	UL, CCC	UL, CCC
Starting torque	HST	HST
Note	Electrical equipment is included and pre-assembled to compressor.	

Applications with NLE11MN

	Conf. 1	Conf. 2
Refrigerant	R290	R290
Application	MBP	MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

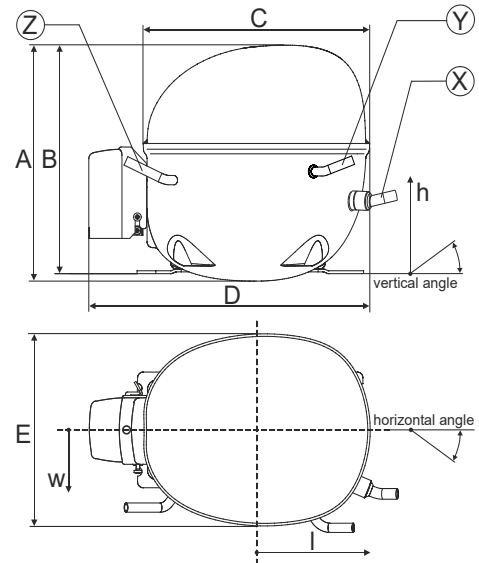
Electrical data - Configurations with NLE11MN

	Conf. 1	Conf. 2
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	240µF	240µF
LRA (locked rotor amps / 4s)	40,23A	40,23A
RLA (rated load amps / 1s)	8,37A	8,37A
Cut in current	40,23A	40,23A

Compressor dimensions

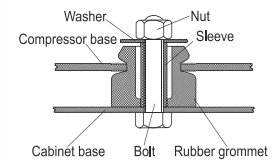
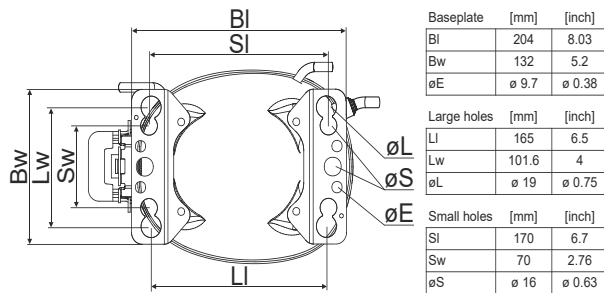
Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

Connectors		Suction X	Discharge Y	Process Z
Diameter [mm]		øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(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°	0°	0°	0°
Vertical angle	±2°	15°	21°	155°
Position l/h/w [mm]		132/69/57	94/102/81	-109/94/72
	[in]	5,2/2,7/2,2	3,7/4/3,2	-4,3/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

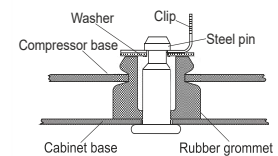


Compressor fixation

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

Application notes

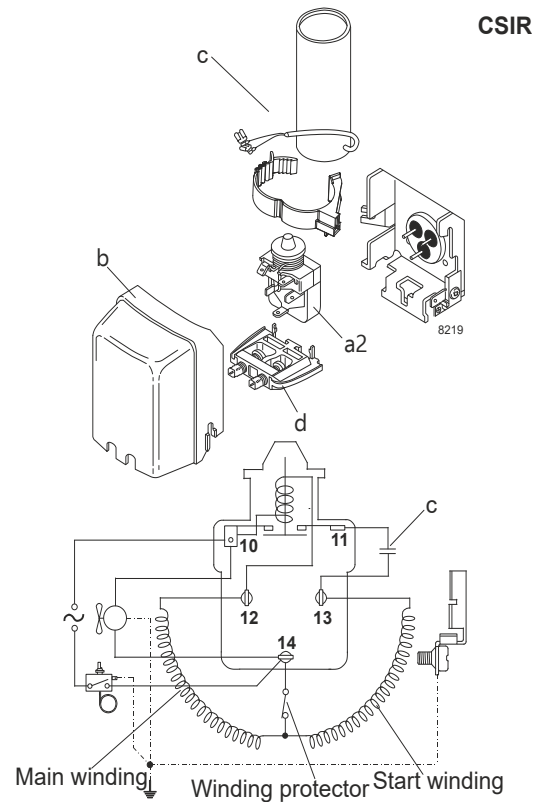
LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

Provision for PE Grounding is located at the PE Stamp on the compressor

Configuration

Motorconfiguration	CSIR	
Power supply (nominal)	115V/60Hz 1~	
Refrigerant	R290	
Application	MBP	
Voltage range	95-127V	
Starting torque	HST	
Approvals	UL	SA3693
	CCC	

Electrical accessories / wiring diagram



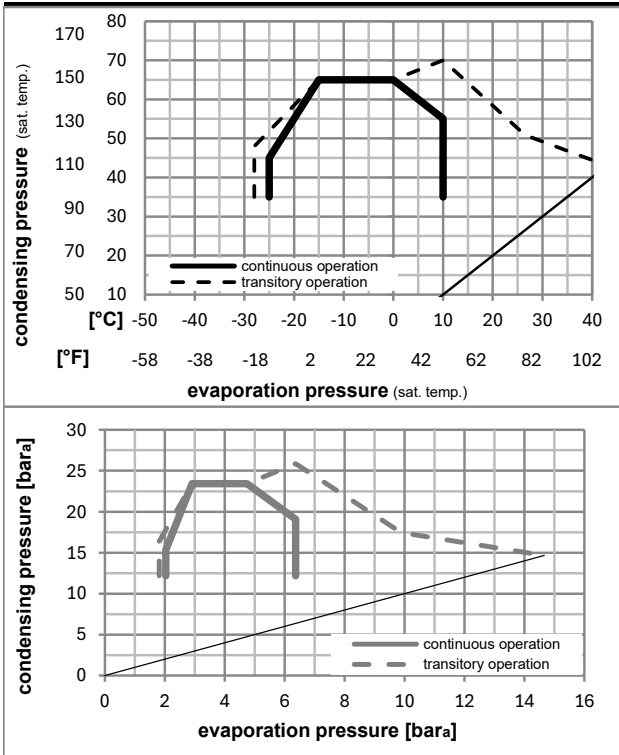
Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s

Operation pressure range



Components (already pre-assembled)

a2	relay	117U7020
c	start capacitor (240μF, 15kOhm)	117U5034
b	plastic cover	103N2011
d	cord relief	103N1010

Optimization + standard conditions

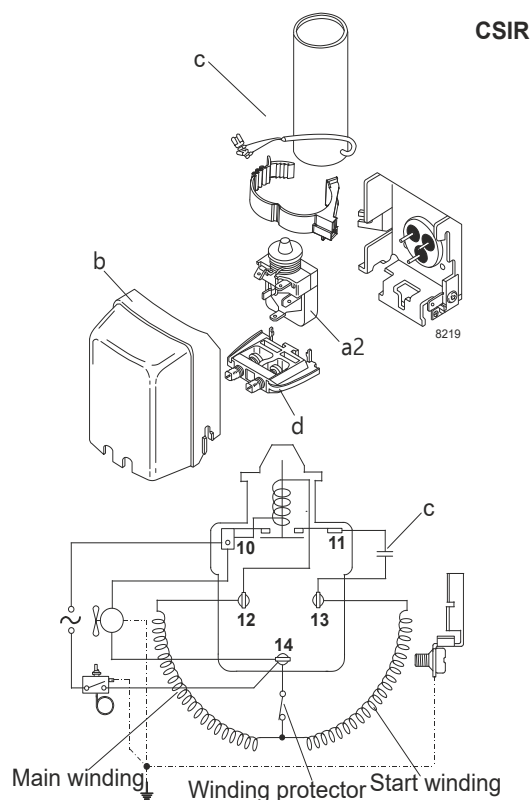
R290, 115V/60Hz, CSIR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)					Power consumption				

Configuration

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

Electrical accessories / wiring diagram



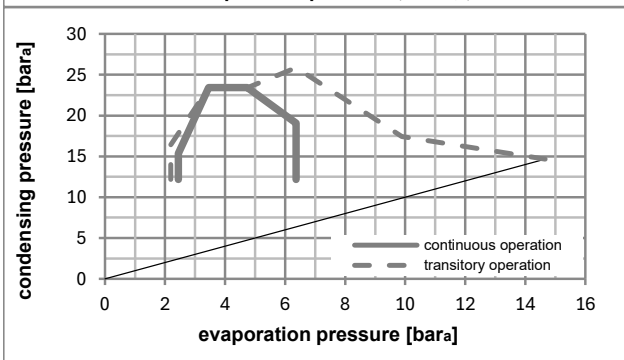
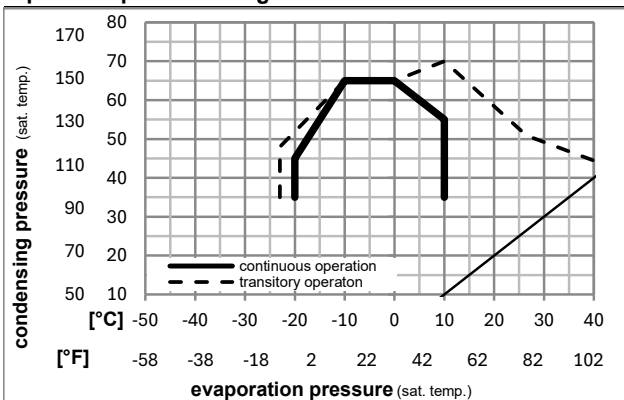
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Optimization + standard conditions

R290, 115V/60Hz, CSIR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE MBP	
Return gas temp.					Current consumption						Ref. mass flow ṁ				
Liquid temp.															
Cooling capacity															
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	COP	EER		P1	I			
								[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-7	54	35	46	1202,7	4107	1035,1	2,04	6,97	1,76	589,1	7,15	13,72		
[°F]	20	130	95	115											
															ASHRAE MBP
[°C]	-10	55	32	55	959,7	3278	825,9	1,71	5,83	1,47	561,8	6,96	12,14		
[°F]	14	131	90	131											
															cecomaf MBP
[°C]	-10	45	20	45	1058,4	3615	910,9	2,04	6,96	1,75	519,1	6,77	12,99		
[°F]	14	113	68	113											
															EN12900 MBP
[°C]	-7	49	18	49	1124,6	3841	967,8	2,00	6,83	1,72	562,1	7,01	14,60		
[°F]	20	120	65	120											
															ARI540 MBP
[°C]	-7	49	18	49	1124,6	3841	967,8	2,00	6,83	1,72	562,1	7,01	14,60		
[°F]	20	120	65	120											
															ASHRAE MBP
[°C]	-10	45	32	45	1101,8	3763	948,2	2,12	7,25	1,83	519,1	6,77	12,61		
[°F]	14	113	90	113											
															cecomaf MBP
[°C]	-10	45	32	45	1101,8	3763	948,2	2,12	7,25	1,83	519,1	6,77	12,61		
[°F]	14	113	90	113											
															EN12900 MBP
[°C]	-25	45	32	45	594,0	2029	511,2	1,45	4,94	1,24	410,8	6,09	6,70		
[°F]	-13	113	90	113											

Performance tables

R290, 115V/60Hz, 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]	-20	-4	743,8	2540	640,1	1,66	5,68	1,43	447,3	6,31	8,42
cond. pressure	-15	5	912,1	3115	784,9	1,89	6,44	1,62	483,7	6,54	10,38
pc= 45/113	-9	15	1124,4	3840	967,7	2,15	7,34	1,85	523,0	6,79	12,87
return gas temp.	-7	20	1241,9	4241	1068,8	2,29	7,83	1,97	541,9	6,92	14,27
RGT= 32/90	0	32	1558,6	5323	1341,3	2,67	9,11	2,29	584,5	7,21	18,08
liquid temp	4,4	40	1799,8	6147	1548,9	2,95	10,08	2,54	609,9	7,38	21,03
Tliq= 45/113	10	50	2139,1	7305	1840,9	3,36	11,46	2,89	637,3	7,58	25,28
[°C / °F]	-20	-4	636,2	2173	547,5	1,36	4,63	1,17	469,2	6,37	7,96
cond. pressure	-15	5	789,0	2695	679,0	1,53	5,22	1,32	515,9	6,66	9,92
pc= 55/131	-9	15	979,9	3347	843,3	1,73	5,90	1,49	566,8	7,00	12,40
return gas temp	-7	20	1085,0	3705	933,8	1,83	6,26	1,58	591,6	7,17	13,79
RGT= 32/90	0	32	1367,3	4670	1176,7	2,11	7,20	1,82	648,2	7,57	17,56
liquid temp	4,4	40	1582,1	5403	1361,5	2,32	7,91	1,99	683,0	7,83	20,49
Tliq= 55/131	10	50	1884,1	6435	1621,5	2,61	8,91	2,24	722,4	8,13	24,70

Model

Designation	SCE15MNX	115-127V/60Hz 1~	Sales code:	104H7579
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	15,28cm³ / 0,93cu.in
Oil quantity	541cm³ / 18,3fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	450g / 15,9oz		
Free gas volume comp.	1460cm³ / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	0,82Ω (at 25°C)		
Winding resistance aux	2,9Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		


General - Configurations with SCE15MNX

	Conf. 1	Conf. 2
Motorconfiguration	CSCR	CSIR
Power supply (nominal)	115V/60Hz	115V/60Hz
Number of phases	1	1
Voltage range	103-127V	103-127V
Approvals	UL	UL
Starting torque	HST	HST
Note	Protector and cover are included and pre-assembled to compressor.	

Applications with SCE15MNX

	Conf. 1	Conf. 2
Refrigerant	R290	R290
Application	MBP	MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

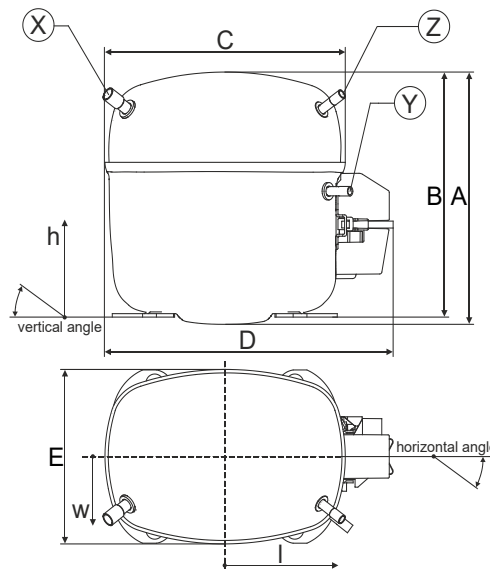
Electrical data - Configurations with SCE15MNX

	Conf. 1	Conf. 2
Starting device type	relay	relay
Run capacitor	23,5μF	-/-
Start capacitor	280μF	280μF
LRA (locked rotor amps / 4s/ U(N))	44,12A	43,13A
RLA (rated load amps / 1s/ U(N))	7,48A	8,3A
Cut in current (U(N))	44,12A	43,13A

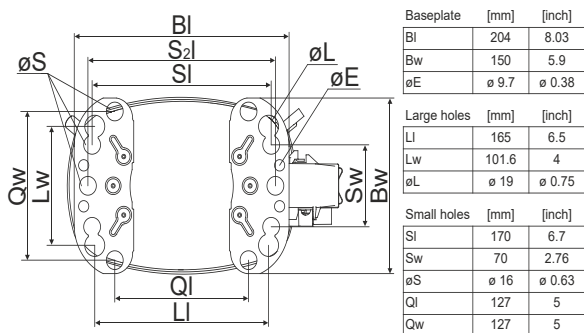
Compressor dimensions

Housing	A Height	219mm / 8,62in
	B Height	213mm / 8,39in
	C Length shell	218mm / 8,58in
	D Length w. cover	255mm / 10,04in
	E Width	151mm / 5,94in

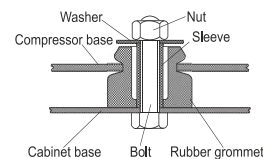
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9,54-9,72	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,38-0,38	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle	±2° 37°	37°	143°
Vertical angle	±2° 30°	0°	150°
Position l/h/w [mm]	107/193/55	115/110/63	-107/193/55
[in]	4,2/7,6/2,2	4,5/4,3/2,5	-4,2/7,6/2,2
Straight tube l. [mm]	12	12	12
	[in] 0,5	0,5	0,5



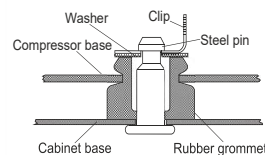
Compressor fixation



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

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

Configuration

Motor configuration	CSCR
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	103-127V
Starting torque	HST
Approvals	UL

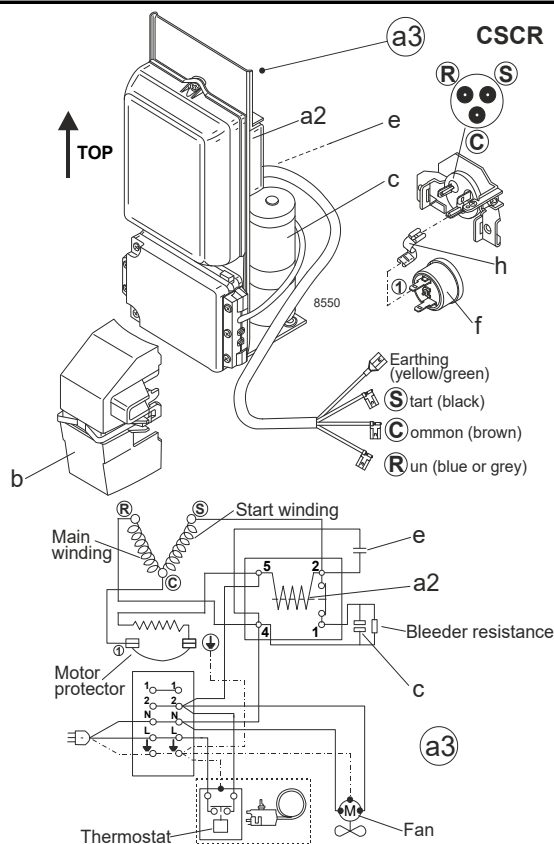
Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

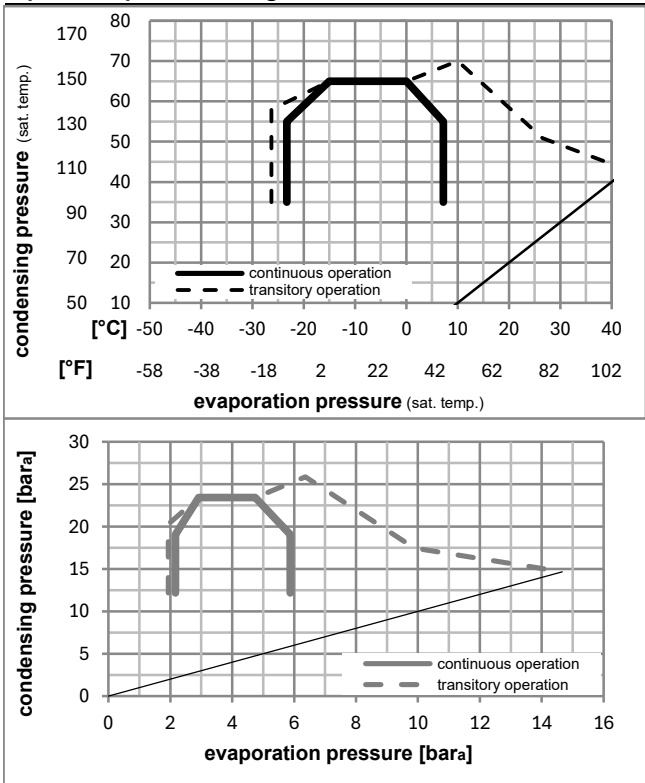
Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s

Electrical accessories / wiring diagram



Operation pressure range



Components (protector (f)+ holder (h)+ cover (b): pre assembled)

a3	SC starter kit (550mm)	117-7801
h	protector holder	117U0439
f	ext. protector (T1069/46)	117U3216
b	plastic cover + clamp	117U1021

Alternative comp.

a2	potential relay (RVA 7AA3R)	117-7441
e	run capacitor (23,5μF, 6.3mm)	117-7133
c	start capacitor (280μF, 6.3mm)	117U5350

Optimization + standard conditions

R290, 115V/60Hz, CSCR, fan 3m/s, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption				Current consumption		Ref. mass flow $\dot{m}$ [kg/h]			
Return gas temp.					Liquid temp.						Cooling capacity				COP				EER	
pe	pc	RGT	Tliq		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]								
[°C]	-7	54	35	46																
[°F]	20	130	95	115	1552,7	5303	1336,2	2,16	7,39	1,86	717,9	7,11	17,71	ASHRAE MBP						
[°C]	-10	55	32	55																
[°F]	14	131	90	131	1219,0	4163	1049,1	1,79	6,10	1,54	682,8	6,82	15,42	cecomaf MBP						
[°C]	-10	45	20	45																
[°F]	14	113	68	113	1376,7	4702	1184,8	2,19	7,46	1,88	630,0	6,43	16,90	EN12900 MBP						
[°C]	-7	49	18	49																
[°F]	20	120	65	120	1469,8	5020	1264,9	2,15	7,33	1,85	685,1	6,86	19,08	ARI540 MBP						
[°C]	-10	45	32	45																
[°F]	14	113	90	113	1433,2	4895	1233,5	2,27	7,77	1,96	630,0	6,43	16,40	opt						
[°C]	-25	45	32	45																
[°F]	-13	113	90	113	719,0	2455	618,8	1,46	4,99	1,26	492,4	5,44	8,11	opt						

Performance tables

R290, 115V/60Hz, CSCR, fan 3m/s, UL

	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]	[W]	[A]	[kg/h]	[kg/h]
[°C / °F]	-25	-13	719,0	2455	618,8	1,46	4,99	1,26	492,4	5,44	8,11	492,4	5,44	8,11	8,11
cond. pressure	-23	-10	783,2	2675	674,0	1,54	5,27	1,33	507,3	5,53	8,84	507,3	5,53	8,84	8,84
pc= 45/113	-15	5	1161,6	3967	999,7	1,99	6,79	1,71	584,0	6,07	13,22	584,0	6,07	13,22	13,22
return gas temp.	-9	15	1465,4	5005	1261,2	2,31	7,88	1,99	635,1	6,47	16,78	635,1	6,47	16,78	16,78
RGT= 32/90	-4	25	1809,3	6179	1557,1	2,64	9,03	2,28	684,2	6,87	20,86	684,2	6,87	20,86	20,86
liquid temp	0	32	2073,1	7080	1784,1	2,89	9,88	2,49	716,5	7,14	24,05	716,5	7,14	24,05	24,05
Tliq= 45/113	7,2	45	2612,2	8921	2248,1	3,39	11,59	2,92	769,9	7,57	30,69	769,9	7,57	30,69	30,69
[°C / °F]	-25	-13	577,9	1974	497,4	1,21	4,15	1,05	475,9	5,25	7,20	475,9	5,25	7,20	7,20
cond. pressure	-23	-10	635,1	2169	546,6	1,27	4,33	1,09	501,0	5,43	7,92	501,0	5,43	7,92	7,92
pc= 55/131	-15	5	974,2	3327	838,4	1,57	5,37	1,35	619,4	6,31	12,25	619,4	6,31	12,25	12,25
return gas temp	-9	15	1248,1	4262	1074,1	1,81	6,18	1,56	689,4	6,87	15,80	689,4	6,87	15,80	15,80
RGT= 32/90	-4	25	1558,9	5324	1341,6	2,08	7,09	1,79	750,4	7,38	19,89	750,4	7,38	19,89	19,89
liquid temp	0	32	1797,9	6140	1547,3	2,28	7,80	1,97	786,9	7,68	23,09	786,9	7,68	23,09	23,09
Tliq= 55/131	7,2	45	2287,0	7811	1968,2	2,73	9,31	2,35	838,6	8,12	29,80	838,6	8,12	29,80	29,80

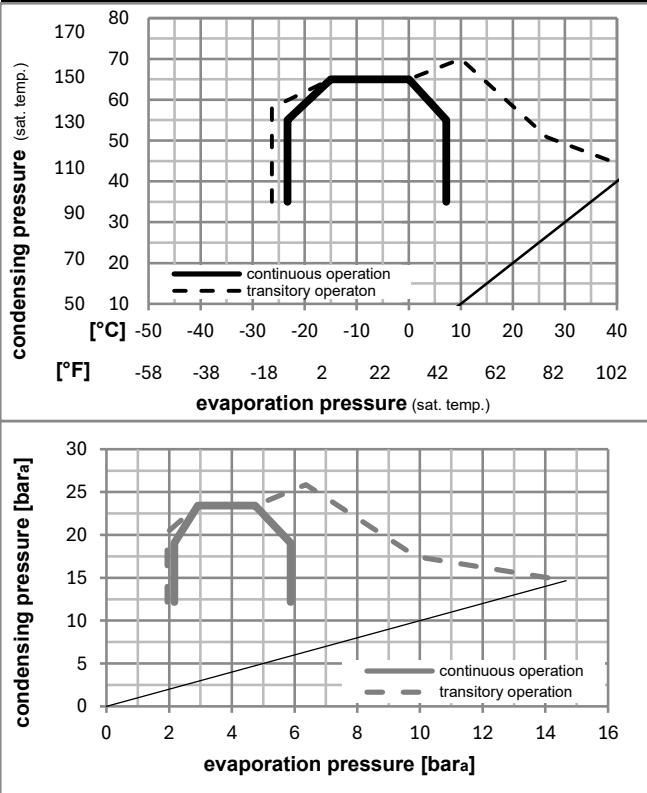
Configuration

Motorconfiguration	CSIR
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	103-127V
Starting torque	HST
Approvals	UL

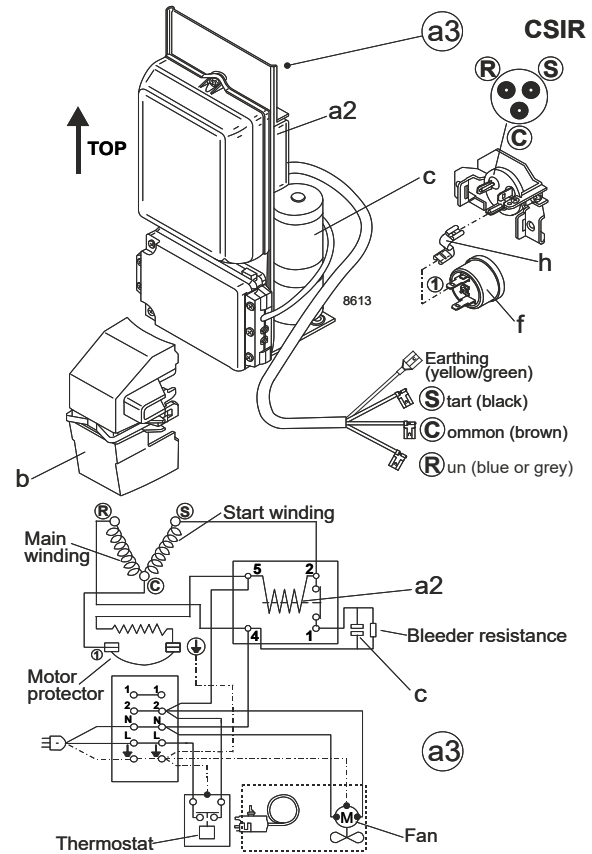
Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range



Electrical accessories / wiring diagram



Components (protector (f)+ holder (h)+ cover (b): pre assembled)

a3	SC starter kit (550mm)	117-7802
h	protector holder	117U0439
f	ext. protector (T1069/46)	117U3216
b	plastic cover + clamp	117U1021

Alternative comp.

a2	potential relay (RVA 7AA3R)	117-7441
c	start capacitor (280 μF , 6.3mm)	117U5350

Optimization + standard conditions

R290, 115V/60Hz, CSIR, fan 3m/s, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																				
Return gas temp.					Current consumption						Ref. mass flow																																																																				
Liquid temp.					Cooling capacity						COP				EER				P1				I				ṁ																																																				
pe					pc					RGT					Tliq					[W]					[Btu/h]					[kcal/h]					[W/W]					[Btu/Wh]					[kcal/Wh]					[W]					[A]					[kg/h]																			
[°C]	-7	54	35	46						1535,1					5243					1321,1					2,05					6,99					1,76					749,7					7,42					17,51					ASHRAE MBP																								
[°F]	20	130	95	115																																																																											
																														ASHRAE MBP																																																	
[°C]	-10	55	32	55						1205,2					4116					1037,2					1,69					5,77					1,45					713,0					7,12					15,25					cecomaf MBP																								
[°F]	14	131	90	131																																																																											
																														cecomaf MBP																																																	
[°C]	-10	45	20	45						1361,1					4648					1171,4					2,07					7,07					1,78					657,9					6,72					16,71					EN12900 MBP																								
[°F]	14	113	68	113																																																																											
																														EN12900 MBP																																																	
[°C]	-7	49	18	49						1453,2					4963					1250,6					2,03					6,94					1,75					715,4					7,16					18,87					ARI540 MBP																								
[°F]	20	120	65	120																																																																											
																														ARI540 MBP																																																	
[°C]	-10	45	32	45						1417,0					4839					1219,5					2,15					7,36					1,85					657,9					6,72					16,21					opt																								
[°F]	14	113	90	113																																																																											
																														opt																																																	
[°C]	-25	45	32	45						710,8					2428					611,7					1,38					4,72					1,19					514,2					5,68					8,02					opt																								
[°F]	-13	113	90	113																																																																											
																														opt																																																	

Performance tables

R290, 115V/60Hz, CSIR, fan 3m/s, UL

	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]	-25	-13	710,8	2428	611,7	1,38	4,72	1,19	514,2	5,68	8,02
cond. pressure	-23	-10	774,3	2645	666,4	1,46	4,99	1,26	529,8	5,78	8,74
pc= 45/113	-15	5	1148,4	3922	988,3	1,88	6,43	1,62	609,8	6,34	13,07
return gas temp.	-9	15	1448,8	4948	1246,9	2,18	7,46	1,88	663,2	6,76	16,59
RGT= 32/90	-4	25	1788,8	6109	1539,4	2,50	8,55	2,15	714,5	7,18	20,63
liquid temp	0	32	2049,6	7000	1763,9	2,74	9,36	2,36	748,2	7,46	23,77
Tliq= 45/113	7,2	45	2582,6	8820	2222,6	3,21	10,97	2,76	803,9	7,91	30,34
[°C / °F]	-25	-13	571,4	1951	491,7	1,15	3,93	0,99	496,9	5,48	7,11
cond. pressure	-23	-10	627,9	2144	540,4	1,20	4,10	1,03	523,2	5,67	7,83
pc= 55/131	-15	5	963,1	3289	828,9	1,49	5,09	1,28	646,8	6,59	12,11
return gas temp	-9	15	1233,9	4214	1061,9	1,71	5,85	1,48	719,9	7,18	15,62
RGT= 32/90	-4	25	1541,3	5264	1326,4	1,97	6,72	1,69	783,6	7,70	19,67
liquid temp	0	32	1777,5	6071	1529,8	2,16	7,39	1,86	821,7	8,02	22,83
Tliq= 55/131	7,2	45	2261,1	7722	1945,9	2,58	8,82	2,22	875,7	8,47	29,46

Model

Designation

CU SCE18MNX R290 230/1/50 CAP


Sales code:

314H4004

Engineering code: CUSCE18MNX0CE

Application Data

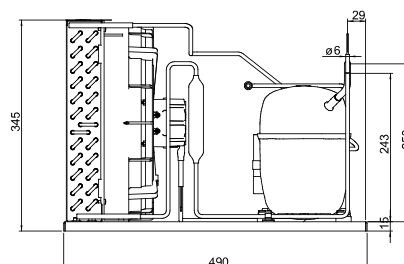
Power supply	220-240V / 50Hz 1~
Refrigerants	R290
Refr. charge - tech. limit	550g / 19,4oz
Starter	HST / capillary tube or expansion valve
Sound pressure (10m)	35,8dB(A)

Generic data

Voltage range	198 - 254V / 50Hz
Refrigerant	R290
Application	MBP
Rated performance	<u>pe=-10°C, Tsuc=20°C, Tamb=25°C, subccoling: 2K</u>
Cooling capacity	1461W / 4990Btu/h
Power consumption	646,2W
Current consumption	4,1A
COP/EER	2,26 / 7,72Btu/Wh
Approvals	Eco design (EU) 2015/1095, CE, UK CA, VDE

Compressor

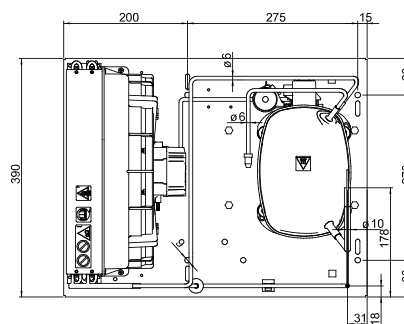
Designation	SCE18MNX
Motor configuration	CSIR
Locked rotor amperage	21,07A
Rated load amperage	3,75A
Winding resistance main	3,44Ω
Winding resistance aux	9,4Ω
Oil quantity	550cm ³ / 18,6fl.oz
Oil type	POE
Horsepower rating	3/4 HP


Dimensions
Condensing unit

Height x Width x Depth	345 x 390 x 490 [mm] / 13,6 x 15,4 x 19,3 [in]
Weight	21,5kg / 47,3lbs
Suction adapter	OD ø10mm / 2/5in
Discharge adapter	OD ø6mm / 1/4in
Process connector	ø6,2mm / 0,24in

Package data

Height x Width x Depth	380 x 450 x 540 [mm] / 15 x 17,7 x 21,3 [in]
Weight	25,5kg / 56,1lbs



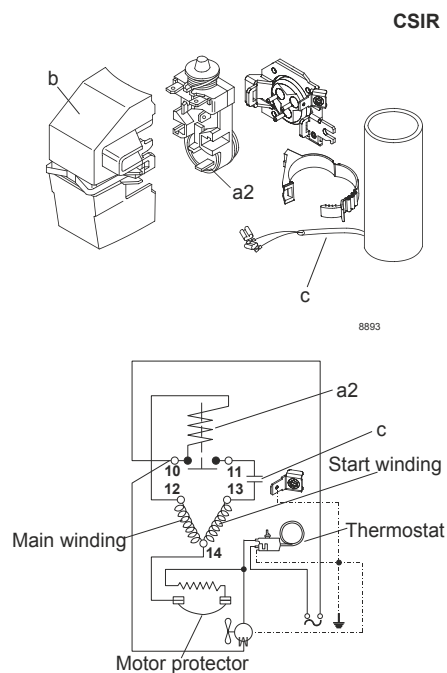
Components Condensing-Unit / Spare Parts

Component	Type	Spare part code number
Compressor code	SCE18MNX	104H8849
Condenser	Condenser (4 rows x 13 tubes)	SP 314S0012
Fan motor		MP 314S0017
Blade code	ø300mm 22°	SP 314S0029
Air flow	985,5m³/h	
Receiver code	not installed	-/-
Suction valve code	OD ø10mm / 2/5in	-/-
Liquid valve code	OD ø6mm / 1/4in	-/-

Compressor starting equipment Spare part code number

pos. a2 - assy. relay + ext. protecto	117U7406
pos. c - start capacitor (80µF)	117U5017
pos. d - cord relief	103N1004
pos. b - plastic cover + clamp	117U1033

Wiring Sketch Compressor



Cooling performance - Conf. 1

Power supply	220-240V / 50Hz 1~	Voltage range	198 - 254V / 50Hz
Refr. charge - tech. limit	550g / 19,4oz		
Starter	HST / capillary tube or expansion valve		
Motor configuration	CSIR		
Refrigerant	R290		
Application	MBP		
Approvals	Eco design (EU) 2015/1095, CE, UK CA, VDE		

ambient temperature	[°C / °F]	25 / 77		(suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)				
evaporating temperature	[°C / °F]	-25 / -13	-20 / -4	-15 / 5	-10 / 14	0 / 32	5 / 41	10 / 50
cooling capacity	[W]	830	1013	1224	1461	1994	2283	2581
COP	[W/W]	1,65	1,86	2,06	2,26	2,66	2,87	3,1
cooling capacity	[Btu/h]	2835	3459	4181	4990	6811	7797	8816
power consumption	[W]	504	546	594	646	750	796	833
current consumption	[A]	3,7	3,8	3,9	4,1	4,4	4,6	4,7

ambient temperature	[°C / °F]	32 / 90		(suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)				
evaporating temperature	[°C / °F]	-25 / -13	-20 / -4	-15 / 5	-10 / 14	0 / 32	5 / 41	10 / 50
cooling capacity	[W]	754	922	1117	1334	1821	2083	2354
COP	[W/W]	1,44	1,61	1,77	1,93	2,25	2,41	2,58
cooling capacity	[Btu/h]	2574	3149	3814	4555	6218	7115	8041
power consumption	[W]	525	574	630	690	811	865	911
current consumption	[A]	3,8	3,9	4	4,2	4,6	4,8	5

ambient temperature	[°C / °F]	38 / 100		(suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)				
evaporating temperature	[°C / °F]	-25 / -13	-20 / -4	-15 / 5	-10 / 14	0 / 32	5 / 41	10 / 50
cooling capacity	[W]	690	848	1029	1230	1679	1920	2167
COP	[W/W]	1,28	1,43	1,57	1,7	1,96	2,09	2,22
cooling capacity	[Btu/h]	2357	2896	3516	4202	5734	6556	7400
power consumption	[W]	540	595	657	723	858	920	974
current consumption	[A]	3,8	3,9	4,1	4,3	4,8	5	5,2

ambient temperature	[°C / °F]	43 / 109		(suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)				
evaporating temperature	[°C / °F]	-25 / -13	-20 / -4	-15 / 5	-10 / 14	0 / 32	5 / 41	10 / 50
cooling capacity	[W]	635	785	956	1145	1563	1786	2014
COP	[W/W]	1,15	1,29	1,41	1,53	1,75	1,85	1,97
cooling capacity	[Btu/h]	2169	2682	3267	3911	5339	6098	6877
power consumption	[W]	550	610	677	749	895	963	1023
current consumption	[A]	3,8	4	4,2	4,4	4,9	5,2	5,4

DLE6.5CN

Energy-optimized LBP/MBP Compressor

R290 115-127V 60Hz

General

Code number	102H3792
Approvals	UL984
Compressors on pallet	100

Application

Application	LBP/MBP			
Frequency	Hz	50	60	
Evaporating temperature	°F	–	-31 to 45	
Voltage range	V	–	95 - 135	
Max. condensing temperature continuous (short)	°F	–	149 (149)	
Max. winding temperature continuous (short)	°F	–	257 (275)	

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		—	—	—	F ₂	F ₂	—
100°F		—	—	—	F ₂	F ₂	—
110°F		—	—	—	F ₂	F ₂	—
Remarks on application:							

Motor

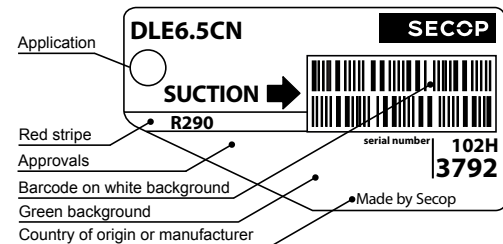
Motor type	CSIR/RSIR/RSCR		
LRA (rated after 4 sec. UL984), HST LST	A	22.8	16.7
Cut in Current, HST LST	A	22.8	29.0
Resistance, main start winding (77°F)	Ω	2.5	5.0

Design

Displacement	cu.in	0.40
Oil quantity (type)	fl.oz.	7.8 (polyolester)
Maximum refrigerant charge	oz.	5.3
Free gas volume in compressor	fl.oz.	44.8
Weight without electrical equipment	lbs.	18.7

Dimensions

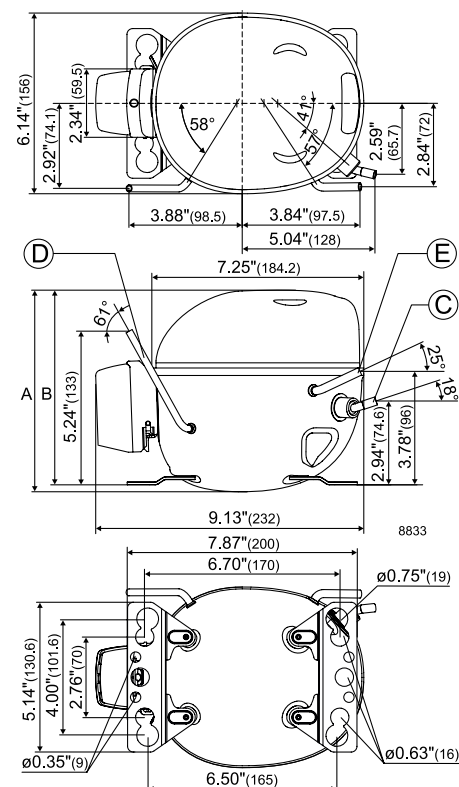
Height	inch	A	6.90
		B	6.64
		B1	–
		B2	–
Suction connector	location, I.D. in. angle	C	0.320-0.327 18°
	material comment		Copper Rubber plug
Process connector	location, I.D. in. angle	D	0.252-0.259 60°
	material comment		Copper Rubber plug
Discharge connector	location, I.D. in. angle	E	0.252-0.259 25°
	material comment		Copper Rubber plug
Oil cooler connector	location, I.D. in. angle	F	–
	material comment		–
Remarks:			



Yellow warning label



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s
(compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



ASHRAE LBP

 115V, 60Hz, fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in BTU/h			722	984	1188	1282	1631	2048	2238	2551	3156	3291	3881	3961	4294		
Power cons. in W			191	221	242	251	281	311	323	341	372	378	403	406	419		
Current cons. in A			2.83	2.97	3.09	3.14	3.33	3.55	3.63	3.77	4.02	4.07	4.27	4.30	4.40		
EER in BTU/Wh			3.78	4.46	4.91	5.11	5.81	6.59	6.92	7.47	8.48	8.7	9.63	9.75	10.3		

ASHRAE MBP/HBP

 115V, 60Hz, fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in BTU/h			645	880	1061	1145	1456	1827	1996	2274	2810	2930	3452	3522	3817		
Power cons. in W			189	219	239	248	278	308	320	338	368	374	398	401	413		
Current cons. in A			2.83	2.97	3.09	3.14	3.33	3.55	3.63	3.77	4.02	4.07	4.27	4.30	4.40		
EER in BTU/Wh			3.41	4.02	4.43	4.61	5.24	5.94	6.24	6.73	7.64	7.84	8.67	8.78	9.23		

EN 12900 LBP

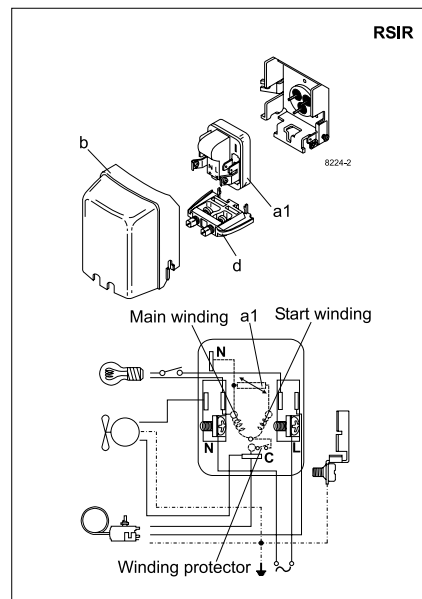
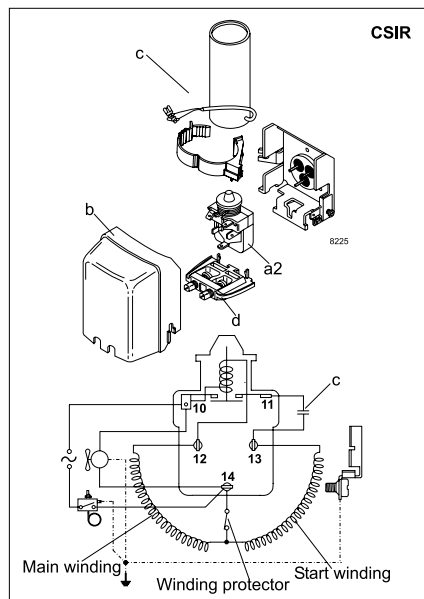
 115V, 60Hz, fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in W			223	295	353	380	479	598	651	740	909	946	1109	1131	1222		
Power cons. in W			195	220	236	243	267	291	300	314	337	342	361	363	373		
Current cons. in A			2.81	2.92	3.00	3.04	3.18	3.33	3.39	3.49	3.65	3.69	3.82	3.84	3.91		
COP in W/W			1.14	1.35	1.49	1.56	1.79	2.06	2.17	2.35	2.69	2.77	3.07	3.11	3.28		

EN 12900 MBP

 115V, 60Hz, fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in W			204	272	325	350	443	553	604	686	844	879	1033	1053	1139		
Power cons. in W			198	224	243	251	277	303	313	329	356	361	382	385	396		
Current cons. in A			2.82	2.94	3.03	3.08	3.23	3.40	3.47	3.58	3.76	3.8	3.96	3.98	4.06		
COP in W/W			1.03	1.21	1.34	1.40	1.60	1.83	1.93	2.08	2.37	2.44	2.70	2.73	2.88		



Accessories for	DLE6.5CN	Figure	Code number
ePTC starting device	1/4 in. spade connectors	a1	103N0058
Starting relay	1/4 in. spade connectors	a2	117U7013
Start. capacitor 240 µF	1/4 in. spade connectors	c	117U5023
Cover		b	103N0492
Cord relief		d	103N1010

Test conditions	EN 12900		ASHRAE	
	LBP	MBP	LBP	MBP
Condensing temperature	104°F	113°F	130°F	130°F
Ambient temperature	90°F	90°F	90°F	90°F
Suction gas temperature	68°F	68°F	90°F	95°F
Liquid temperature	no subcooling		90°F	115°F

Mounting accessories	Code number
Bolt joint for one comp. Ø: 3/4 in.	118-1949
Bolt joint for one comp. Ø: 5/8 in.	118-1946
Snap-on for one comp. Ø: 5/8 in.	118-1947

ASHRAE LBP

115V, 60Hz, RC 15 µF, ePTC consumption incl., fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in BTU/h			736	1000	1206	1302	1656	2077	2267	2580	3181	3315	3896	3974	4301		
Power cons. in W			182	210	229	238	266	294	305	321	349	354	376	379	389		
Current cons. in A			2.68	2.82	2.93	2.98	3.16	3.35	3.43	3.55	3.77	3.81	3.99	4.01	4.10		
EER in BTU/Wh			4.05	4.77	5.26	5.48	6.23	7.07	7.44	8.03	9.12	9.35	10.4	10.5	11.0		

ASHRAE MBP/HBP

115V, 60Hz, RC 15 µF, ePTC consumption incl., fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in BTU/h			658	894	1078	1163	1478	1853	2022	2300	2833	2951	3465	3534	3823		
Power cons. in W			180	208	227	235	263	291	302	318	345	350	371	374	385		
Current cons. in A			2.68	2.82	2.93	2.98	3.16	3.35	3.43	3.55	3.77	3.81	3.99	4.01	4.10		
EER in BTU/Wh			3.66	4.31	4.75	4.94	5.62	6.38	6.71	7.23	8.21	8.43	9.33	9.45	9.94		

EN 12900 LBP

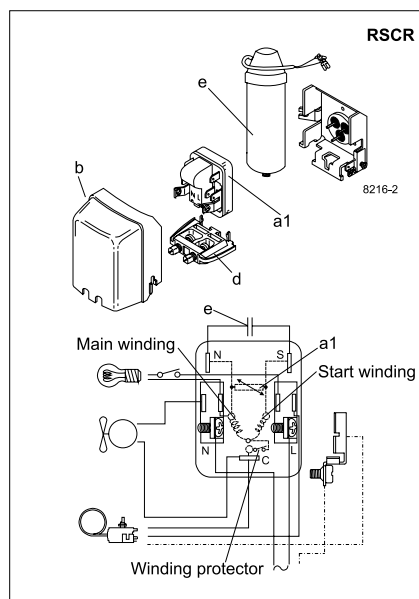
115V, 60Hz, RC 15 µF, ePTC consumption incl., fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in W			227	300	359	386	486	606	660	748	916	953	1113	1134	1224		
Power cons. in W			185	208	224	231	253	275	283	296	316	321	337	339	347		
Current cons. in A			2.67	2.77	2.85	2.88	3.01	3.15	3.20	3.29	3.43	3.46	3.57	3.58	3.64		
COP in W/W			1.22	1.44	1.60	1.67	1.92	2.21	2.33	2.53	2.89	2.97	3.31	3.35	3.53		

EN 12900 MBP

115V, 60Hz, RC 15 µF, ePTC consumption incl., fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in W			208	276	331	356	450	561	611	694	851	886	1036	1057	1141		
Power cons. in W			188	213	230	237	262	286	296	310	334	338	357	359	368		
Current cons. in A			2.68	2.79	2.88	2.92	3.06	3.21	3.27	3.37	3.53	3.56	3.69	3.71	3.78		
COP in W/W			1.10	1.30	1.44	1.50	1.72	1.96	2.07	2.24	2.55	2.62	2.90	2.94	3.10		



Accessories for	DLE6.5CN	Figure	Code number
ePTC starting device	1/4 in. spade connectors	a1	103N0058
Run capacitor 15 µF (optional)	1/4 in. spade connectors	e	117-7118
Cover		b	103N0492
Cord relief		d	103N1010

Test conditions	EN 12900		ASHRAE	
	LBP	MBP	LBP	MBP
Condensing temperature	104°F	113°F	130°F	130°F
Ambient temperature	90°F	90°F	90°F	90°F
Suction gas temperature	68°F	68°F	90°F	95°F
Liquid temperature	no subcooling		90°F	115°F

Mounting accessories	Code number	
Bolt joint for one comp.	Ø: 3/4 in.	118-1949
Bolt joint for one comp.	Ø: 5/8 in.	118-1946
Snap-on for one comp.	Ø: 5/8 in.	118-1947

Model

Designation	NLE8.0CN	115-127V/60Hz 1~	Sales code:	105H6074
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cST	Displacement	7,96cm³ / 0,49cu.in
Oil quantity	268cm³ / 9,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	400g / 14,1oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	10,95kg / 24,1lbs		
Motor protection	1# internal		
Winding resistance main	1,99Ω (at 25°C)		
Winding resistance aux	6,22Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		


General - Configurations with NLE8.0CN

	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	CCC, UL	CCC, UL	CCC, UL
Starting torque	HST	LST	LST
Note	- / -		

Applications with NLE8.0CN

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

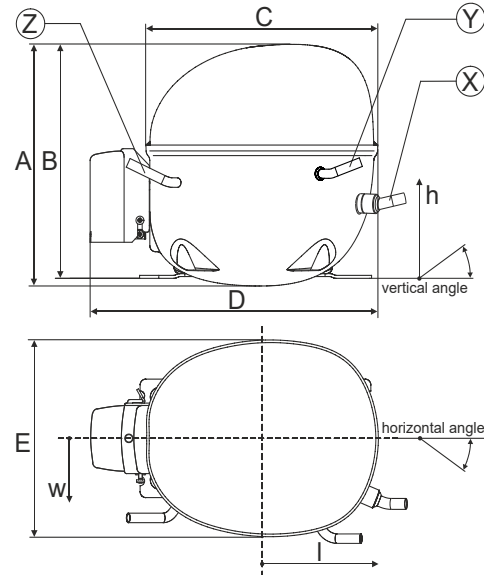
Electrical data - Configurations with NLE8.0CN

	Conf. 1	Conf. 2	Conf. 3
Starting device type	relay	PTC	PTC
Run capacitor	-/-	-/-	20μF
Start capacitor	240μF	-/-	-/-
LRA (locked rotor amps / 4s)	23,1A	22,7A	22,7A
RLA (rated load amps / 1s)	4,3A	4,3A	3,88A
Cut in current	23,1A	23,2A	23,2A

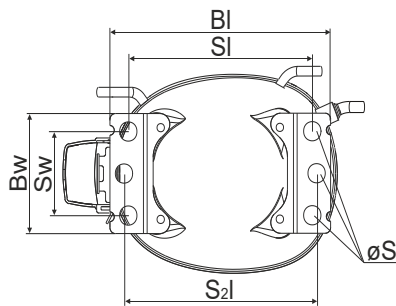
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(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°	0°	0°
Vertical angle	±2°	15°	155°
Position l/h/w [mm]	132/69/57	94/102/81	-109/94/72
[in]	5,2/2,7/2,2	3,7/4/3,2	-4,3/3,7/2,8
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5

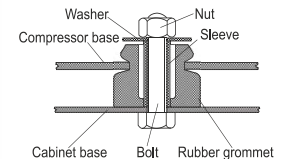


Compressor fixation

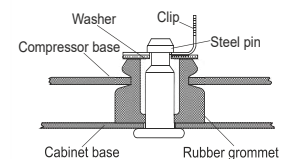


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

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

Application notes

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

Provision for PE Grounding is located at the PE Stamp on the compressor

Configuration

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

Electrical accessories / wiring diagram

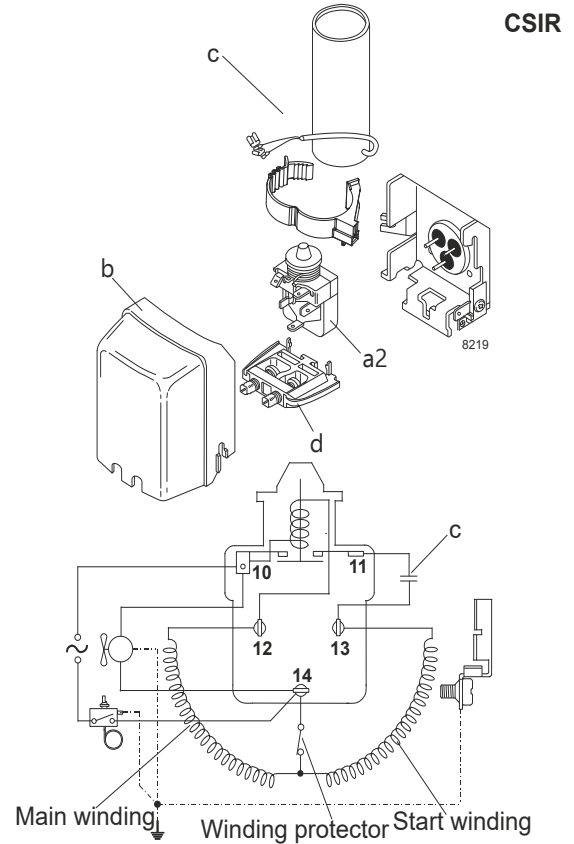
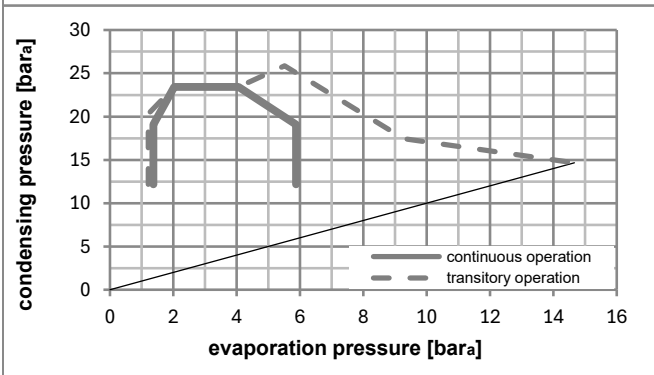
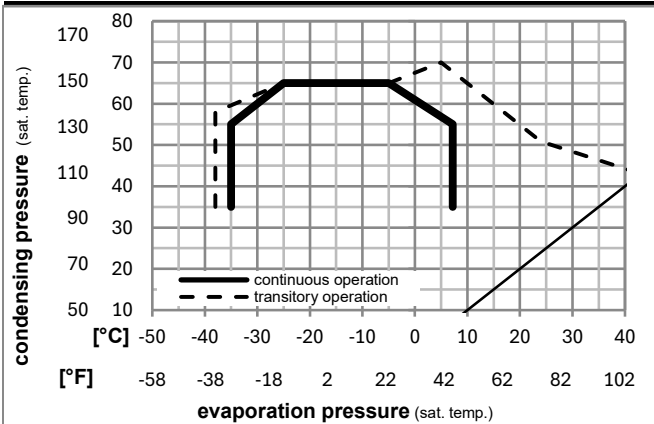
Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s

Operation pressure range



Components

a2	relay	117U7013
c	start capacitor (240μF, 6,3mm)	117U5073
b	plastic cover	103N2011
d	cord relief	103N1010

Optimization + standard conditions

R290, 115V/60Hz, CSIR, fan 3m/s, CCC, UL

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)				Return gas temp.				Liquid temp.				Cooling capacity				COP		EER		Power consumption				ASHRAE LBP
		Current consumption				Ref. mass flow				P1		I		ṁ																
pe	pc	RGT	Tliq		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]																	
[°C]	-23	54	32	32	452,8	1546	389,7	1,57	5,36	1,35	288,4	3,52	4,59																	
[°F]	-10	130	90	90																										
[°C]	-25	55	32	55	339,0	1158	291,7	1,22	4,16	1,05	278,3	3,45	4,22															cecomaf LBP		
[°F]	-13	131	90	131																										
[°C]	-35	40	20	40	267,8	915	230,5	1,24	4,25	1,07	215,5	3,11	3,06															EN12900 LBP		
[°F]	-31	104	68	104																										
[°C]	-23	49	4,4	49	372,5	1272	320,6	1,32	4,50	1,13	283,0	3,49	5,16															ARI540 LBP		
[°F]	-10	120	40	120																										
[°C]	-23	41	32	32	499,4	1706	429,8	1,84	6,29	1,58	271,3	3,43	5,06															AHAM LBP		
[°F]	-10	105	90	90																										
[°C]	-35	45	32	45	252,3	861	217,1	1,16	3,97	1,00	216,7	3,12	2,83															opt		
[°F]	-31	113	90	113																										

Performance tables

R290, 115V/60Hz, CSIR, fan 3m/s, CCC, UL

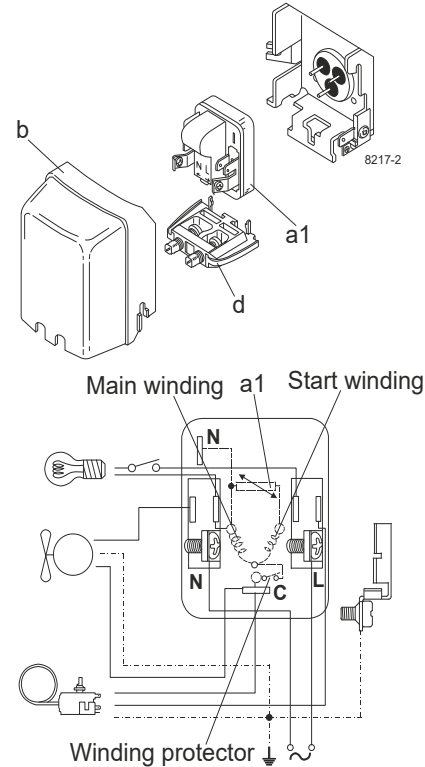
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]		[Btu/Wh]	[kcal/Wh]			
[°C / °F]	-35	-31	252,3	861	217,1	1,16	3,97	1,00	216,7	3,12	2,83
cond. pressure	-23	-10	437,5	1494	376,5	1,57	5,37	1,35	278,4	3,47	4,94
pc= 45/113	-15	5	615,8	2103	529,9	1,93	6,59	1,66	319,3	3,75	7,01
return gas temp.	-9	15	763,6	2608	657,2	2,22	7,57	1,91	344,6	3,94	8,74
RGT= 32/90	-4	25	939,5	3208	808,5	2,55	8,72	2,20	368,0	4,12	10,83
liquid temp	0	32	1081,3	3693	930,6	2,82	9,64	2,43	383,1	4,23	12,54
Tliq= 45/113	7,2	45	1391,2	4751	1197,3	3,41	11,65	2,94	407,8	4,41	16,35
[°C / °F]	-35	-31	196,1	670	168,7	0,92	3,14	0,79	213,2	3,07	2,42
cond. pressure	-23	-10	366,3	1251	315,2	1,27	4,33	1,09	289,0	3,52	4,57
pc= 55/131	-15	5	524,1	1790	451,0	1,54	5,24	1,32	341,4	3,89	6,59
return gas temp	-9	15	653,9	2233	562,7	1,74	5,95	1,50	375,0	4,15	8,28
RGT= 32/90	-4	25	808,0	2760	695,4	1,98	6,78	1,71	407,3	4,40	10,31
liquid temp	0	32	932,6	3185	802,6	2,17	7,43	1,87	428,8	4,57	11,98
Tliq= 55/131	7,2	45	1205,7	4118	1037,6	2,59	8,83	2,22	466,4	4,87	15,71

Configuration

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

Electrical accessories / wiring diagram

RSIR



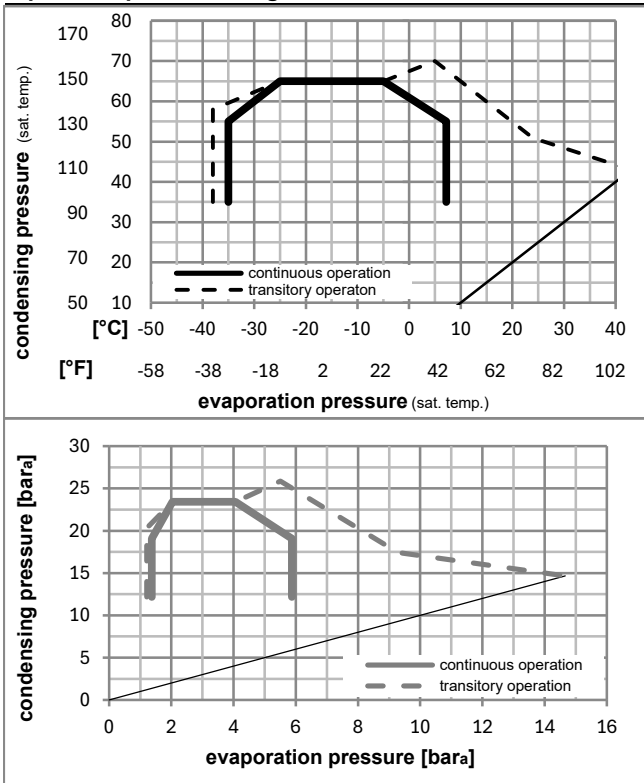
Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s

Operation pressure range



Components

a1	e-PTC starter (115V, 50hm, 6.3mm, 4.8-cap)	103N0057
b	plastic cover	103N2011
d	cord relief	103N1010

Alternative components

a1	e-PTC starter	103N0058
b	plastic cover	103N2011
d	cord relief	103N1010

Optimization + standard conditions

R290, 115V/60Hz, RSIR, fan 3m/s, CCC, UL

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]
[°F]													
ASHRAE LBP	-23	54	32	32	452,8	1546	389,7	1,57	5,36	1,35	288,4	3,52	4,59
	-10	130	90	90									
cecomaf LBP	-25	55	32	55	339,0	1158	291,7	1,22	4,16	1,05	278,3	3,45	4,22
	-13	131	90	131									
EN12900 LBP	-35	40	20	40	267,8	915	230,5	1,24	4,25	1,07	215,5	3,11	3,06
	-31	104	68	104									
ARI540 LBP	-23	49	4,4	49	372,5	1272	320,6	1,32	4,50	1,13	283,0	3,49	5,16
	-10	120	40	120									
AHAM LBP	-23	41	32	32	499,4	1706	429,8	1,84	6,29	1,58	271,3	3,43	5,06
	-10	105	90	90									
opt	-35	45	32	45	252,3	861	217,1	1,16	3,97	1,00	216,7	3,12	2,83
	-31	113	90	113									

Performance tables

R290, 115V/60Hz, RSIR, fan 3m/s, CCC, UL

	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	252,3	861	217,1	1,16	3,97	1,00	216,7	3,12	2,83
cond. pressure	-23	-10	437,5	1494	376,5	1,57	5,37	1,35	278,4	3,47	4,94
pc= 45/113	-15	5	615,8	2103	529,9	1,93	6,59	1,66	319,3	3,75	7,01
return gas temp.	-9	15	763,6	2608	657,2	2,22	7,57	1,91	344,6	3,94	8,74
RGT= 32/90	-4	25	939,5	3208	808,5	2,55	8,72	2,20	368,0	4,12	10,83
liquid temp	0	32	1081,3	3693	930,6	2,82	9,64	2,43	383,1	4,23	12,54
Tliq= 45/113	7,2	45	1391,2	4751	1197,3	3,41	11,65	2,94	407,8	4,41	16,35
[°C / °F]	-35	-31	196,1	670	168,7	0,92	3,14	0,79	213,2	3,07	2,42
cond. pressure	-23	-10	366,3	1251	315,2	1,27	4,33	1,09	289,0	3,52	4,57
pc= 55/131	-15	5	524,1	1790	451,0	1,54	5,24	1,32	341,4	3,89	6,59
return gas temp	-9	15	653,9	2233	562,7	1,74	5,95	1,50	375,0	4,15	8,28
RGT= 32/90	-4	25	808,0	2760	695,4	1,98	6,78	1,71	407,3	4,40	10,31
liquid temp	0	32	932,6	3185	802,6	2,17	7,43	1,87	428,8	4,57	11,98
Tliq= 55/131	7,2	45	1205,7	4118	1037,6	2,59	8,83	2,22	466,4	4,87	15,71

Configuration

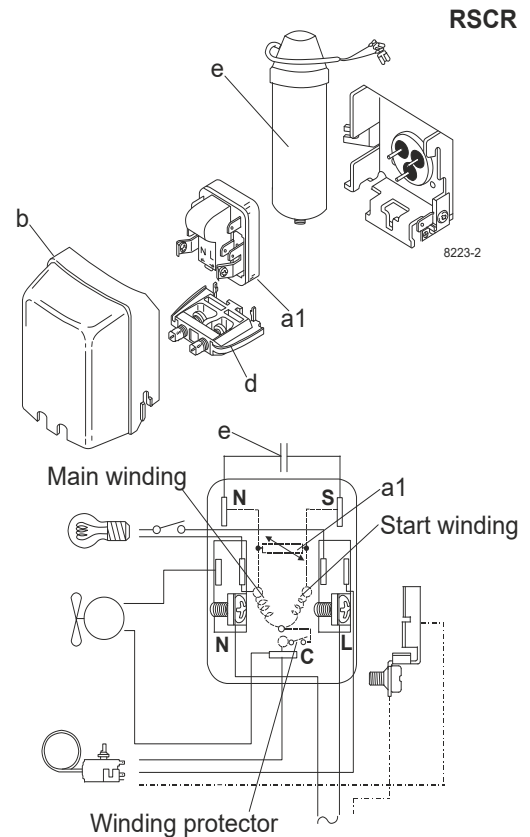
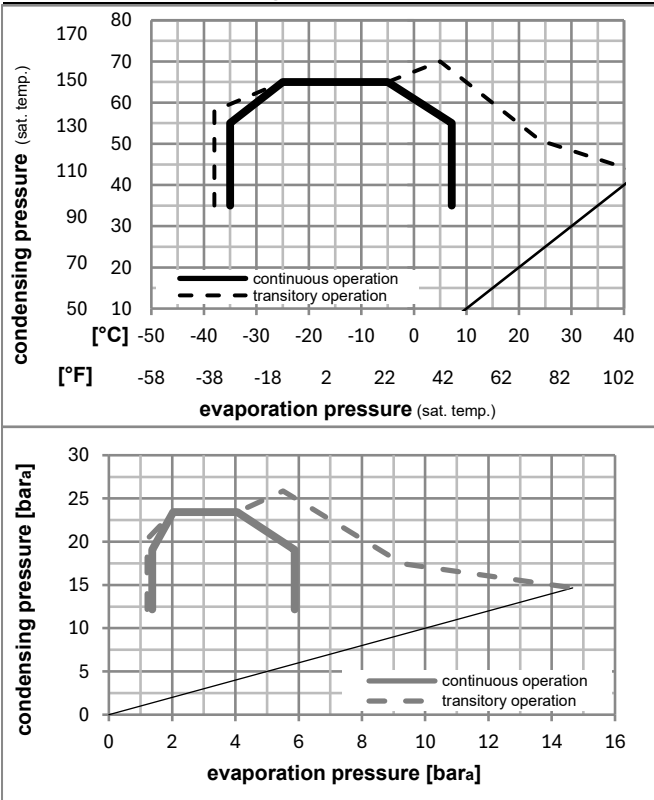
Motorconfiguration	RSCR
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-135V
Starting torque	LST
Approvals	CCC
	UL

Electrical accessories / wiring diagram

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range



Components

a1	e-PTC starter	103N0058
e	run capacitor (20μF, 6.3mm)	117-7147
b	plastic cover	103N2011
d	cord relief	103N1010
	bracket for run capacitor	117-0300
	screw M4x8mm	117-0301

Alternative components

a1	e-PTC starter (115V, 50hm, 6.3mm, 4.8-cap)	103N0057
e	run capacitor (20μF, 4.8mm)	117-7146
b	plastic cover	103N2011
d	cord relief	103N1010
	bracket for run capacitor	117-0300
	screw M4x8mm	117-0301

Optimization + standard conditions

R290, 115V/60Hz, RSCR, fan 3m/s, CCC, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Current consumption									
Liquid temp.					Ref. mass flow									
Cooling capacity					COP		EER		P1		I		ṁ	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/W/h]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	463,5	1583	398,9	1,70	5,81	1,46	272,5	3,32	4,69	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	346,8	1184	298,5	1,32	4,50	1,13	263,2	3,26	4,32	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	272,2	929	234,2	1,32	4,52	1,14	205,5	2,97	3,11	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	381,3	1302	328,2	1,43	4,87	1,23	267,2	3,30	5,28	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	511,2	1746	439,9	1,99	6,81	1,72	256,4	3,24	5,18	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	256,4	876	220,7	1,24	4,24	1,07	206,6	2,97	2,87	opt
[°F]	-31	113	90	113										

Performance tables

R290, 115V/60Hz, RSCR, fan 3m/s, CCC, UL

	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	256,4	876	220,7	1,24	4,24	1,07	206,6	2,97	2,87
cond. pressure	-23	-10	447,8	1529	385,4	1,70	5,82	1,47	263,0	3,27	5,06
pc= 45/113	-15	5	630,1	2152	542,3	2,10	7,18	1,81	299,9	3,52	7,17
return gas temp.	-9	15	780,0	2664	671,2	2,42	8,27	2,08	322,2	3,68	8,93
RGT= 32/90	-4	25	956,8	3268	823,4	2,80	9,55	2,41	342,3	3,83	11,03
liquid temp	0	32	1098,7	3752	945,5	3,10	10,58	2,67	354,7	3,92	12,74
Tliq= 45/113	7,2	45	1406,5	4803	1210,4	3,76	12,85	3,24	373,9	4,04	16,52
[°C / °F]	-35	-31	199,4	681	171,6	0,98	3,35	0,85	203,1	2,93	2,47
cond. pressure	-23	-10	374,9	1280	322,6	1,37	4,69	1,18	273,0	3,33	4,67
pc= 55/131	-15	5	536,4	1832	461,6	1,67	5,71	1,44	320,7	3,66	6,74
return gas temp	-9	15	667,9	2281	574,8	1,90	6,50	1,64	350,7	3,88	8,46
RGT= 32/90	-4	25	823,0	2811	708,3	2,17	7,42	1,87	378,8	4,09	10,50
liquid temp	0	32	947,5	3236	815,5	2,39	8,15	2,05	397,1	4,23	12,17
Tliq= 55/131	7,2	45	1218,6	4162	1048,8	2,85	9,73	2,45	427,8	4,46	15,88