Technical Data Compressor

SECOP

Model

Designation	**NL7.3CNX.2**	**115V/60Hz 1~**	Sales code:	**105H6792**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R290**
Oil viscosity	32cSt	Displacement	7,27cm³ / 0,44cu.in
Oil quantity	268cm³ / 9,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	10,5kg / 23,1lbs		
Motor protection	1# internal		
Winding resistance main	1,3Ω (at 25°C)		
Winding resistance aux	7Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		

General - Configurations with NL7.3CNX.2

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

Applications with NL7.3CNX.2

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

Electrical data - Configurations with NL7.3CNX.2

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	125µF
LRA (locked rotor amps / 4s/ $U_{(N)}$)	26,4A
RLA (rated load amps / 1s/ $U_{(N)}$)	5,3A
Cut in current ($U_{(N)}$)	26,4A

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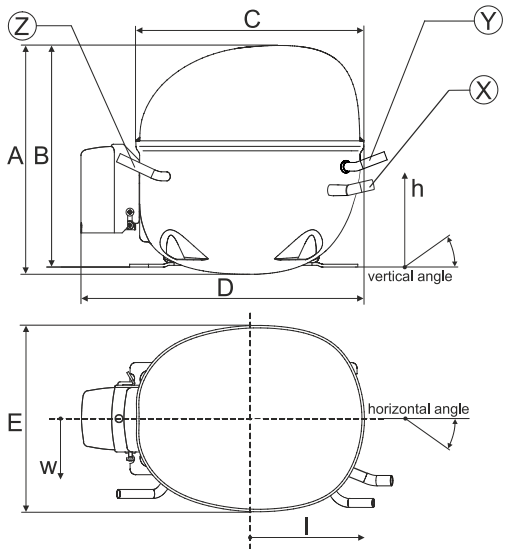
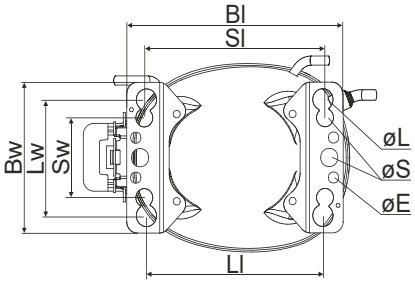
Compressor dimensions

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



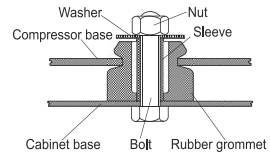
Connectors		**Suction** **X**	**Discharge** **Y**	**Process** **Z**
Diameter	[mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	35°	155°
Position l/h/w	[mm]	126/76/78	133/103/54	-107/94/72
	[in]	4,9/3/3,1	5,2/4/2,1	-4,2/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

Compressor fixation

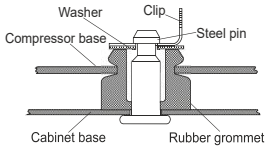


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38
Large holes	**[mm]**	**[inch]**
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes	**[mm]**	**[inch]**
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63

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

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

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Configuration

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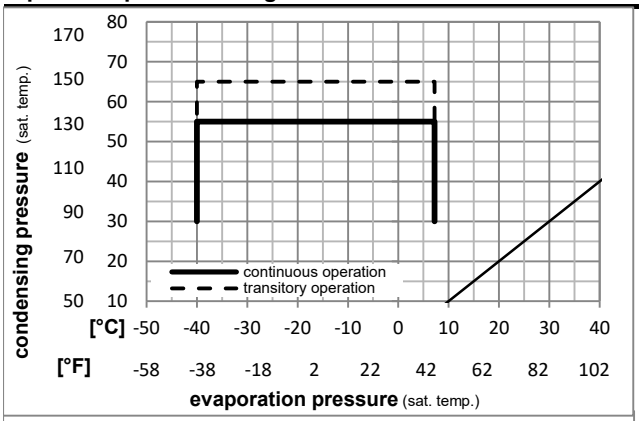
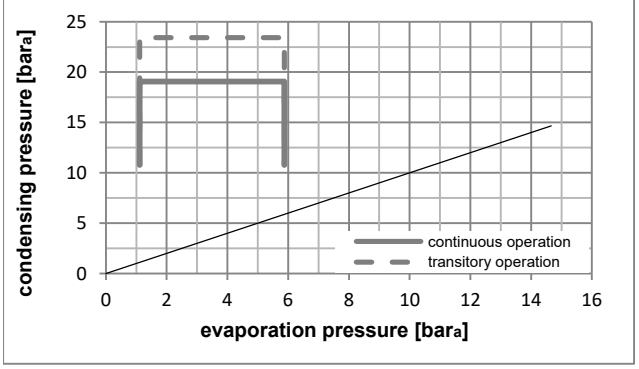
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-135V
Starting torque	HST
Approvals	UL

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

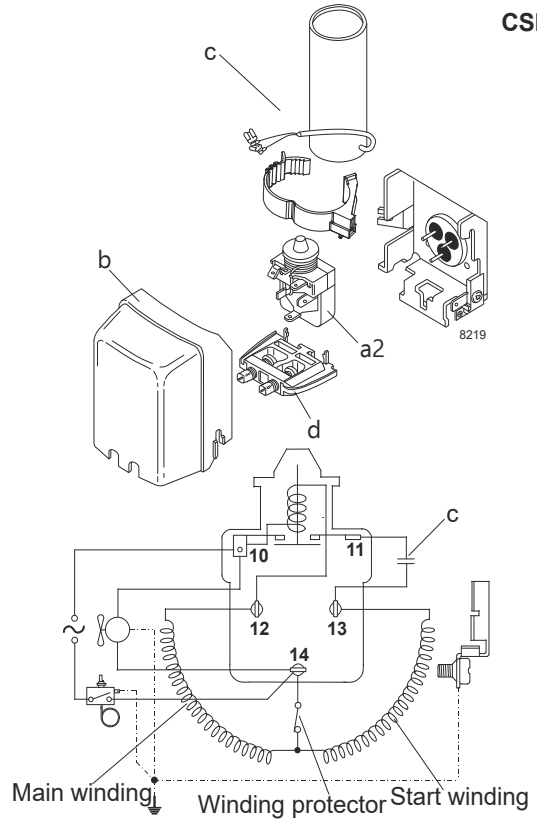
Operation pressure range





Electrical accessories / wiring diagram

CSIR



Components (inci. and pre. assembi.)

a2	relay	117U7013
c	start capacitor (125µF, 6,3mm)	117U5035
b	plastic cover	103N2011
d	cord relief	103N1010

Model

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Optimization + standard conditions R290, 115V/60Hz, CSIR, fan 3m/s, UL

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	420,6	1436	361,9	1,43	4,89	1,23	293,6	3,82	4,26	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	314,7	1075	270,9	1,11	3,79	0,96	283,3	3,75	3,92	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	230,6	788	198,5	1,01	3,45	0,87	228,3	3,41	2,63	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	768,5	2624	661,4	1,96	6,68	1,68	392,7	4,55	8,77	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	-10	55	32	55	607,0	2073	522,4	1,62	5,53	1,39	375,0	4,41	7,68	**cecomaf MBP**
[°F]	14	131	90	131										
[°C]	-10	45	20	45	679,4	2320	584,7	1,94	6,64	1,67	349,7	4,22	8,34	**EN12900 MBP**
[°F]	14	113	68	113										

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]	-34	-30	232,7	795	200,2	1,00	3,43	0,86	231,9	3,43	2,61
cond. pressure	-34	-30	232,7	795	200,2	1,00	3,43	0,86	231,9	3,43	2,61
pc= 45/113	-23	-10	398,7	1362	343,2	1,39	4,74	1,19	287,5	3,77	4,50
return gas temp.	-15	5	576,9	1970	496,5	1,76	6,02	1,52	327,2	4,05	6,56
RGT= 32/90	-4	25	891,7	3045	767,4	2,38	8,11	2,04	375,3	4,42	10,28
liquid temp	0	32	1023,9	3497	881,2	2,62	8,96	2,26	390,3	4,53	11,88
Tliq= 45/113	7,2	45	1301,3	4444	1119,9	3,13	10,70	2,70	415,2	4,70	15,29
[°C / °F]	-34	-30	202,3	691	174,1	0,90	3,08	0,78	224,1	3,40	2,50
cond. pressure	-34	-30	202,3	691	174,1	0,90	3,08	0,78	224,1	3,40	2,50
pc= 55/131	-23	-10	340,1	1161	292,7	1,16	3,95	1,00	293,7	3,82	4,24
return gas temp	-15	5	493,2	1684	424,5	1,43	4,88	1,23	345,1	4,18	6,20
RGT= 32/90	-4	25	769,4	2628	662,2	1,88	6,41	1,61	410,2	4,68	9,82
liquid temp	0	32	886,8	3028	763,2	2,05	7,02	1,77	431,6	4,85	11,39
Tliq= 55/131	7,2	45	1134,6	3875	976,5	2,42	8,26	2,08	469,0	5,13	14,78