Technical Data Compressor

SECOP

Model

Designation	**SCE15MNX**	**220-240V/50Hz 1~**	Sales code:	**104H8549**

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	550g / 19,4oz		
Free gas volume comp.	1460cm³ / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	4,07Ω (at 25°C)		
Winding resistance aux	15,88Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SCE15MNX

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE
Starting torque	HST
Note	Protector, relay and cover are included and pre-assembled to compressor.

Applications with SCE15MNX

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

Electrical data - Configurations with SCE15MNX

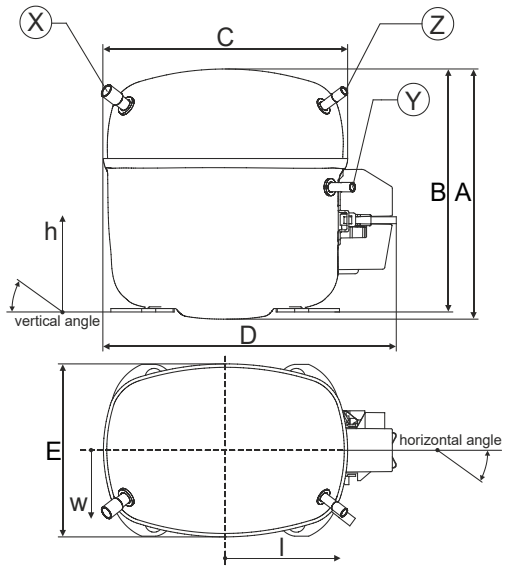
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80µF
LRA (locked rotor amps / 4s)	17,47A
RLA (rated load amps / 1s)	2,92A
Cut in current	17,47A

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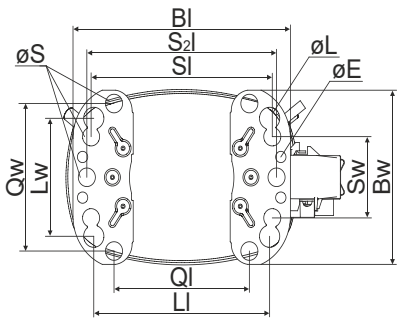
Compressor dimensions

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 10,11-10,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,4-0,41	øi 0,24-0,25	øi 0,24-0,25
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

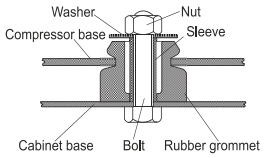


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38

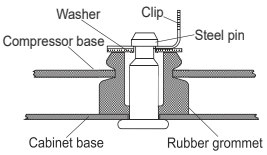
Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
Ql	127	5
Qw	127	5

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

Model

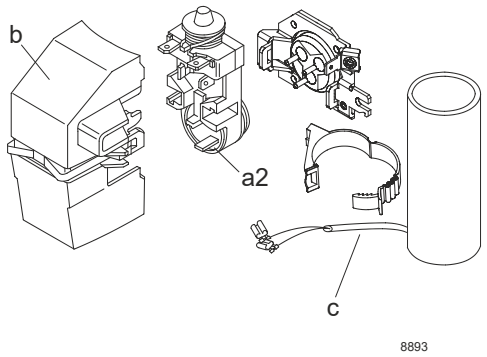
Designation					
	SCE15MNX	**220-240V/50Hz**	**Conf. 1**	Sales code:	**104H8549**

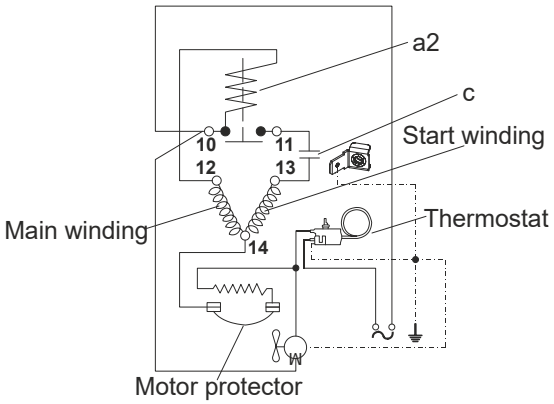
Configuration

Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254V
Starting torque	HST
Approvals	VDE

Electrical accessories / wiring diagram

CSIR



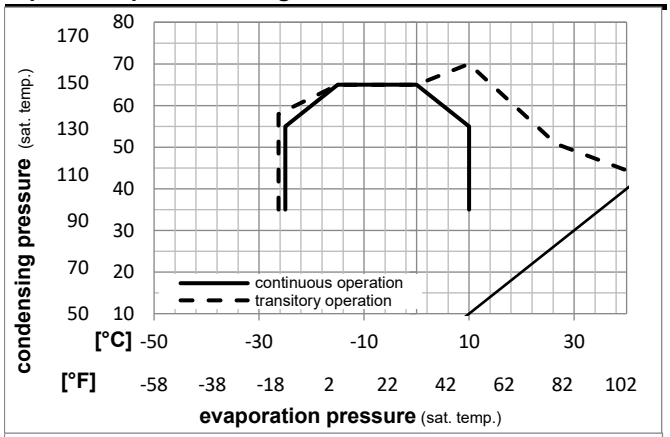


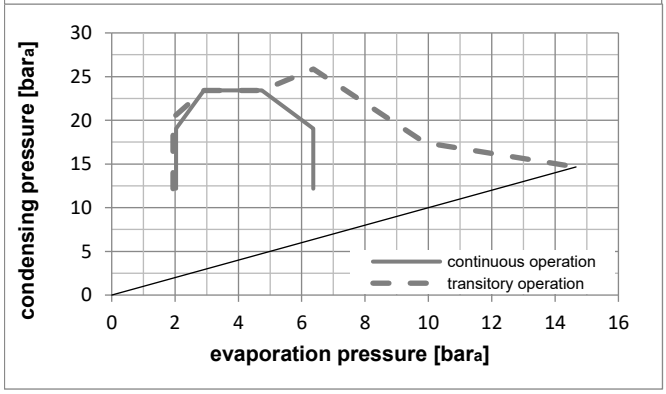
Ambient/ machine room temperatures minimum /maximum

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 Limits

Operation pressure range





Components (relay + cover: pre-assembled)

a2	assy. relay + ext. protector (T1133)	117U7405
c	start capacitor (80µF)	117U5017
d	cord relief	103N1004
b	plastic cover + clamp	117U1033

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Optimization + standard conditions R290, 230V/50Hz, CSIR, fan 3m/s, VDE

	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]	-7	54	35	46	1268,8	4333	1091,9	2,04	6,96	1,75	622,8	3,37	14,47	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	-10	55	32	55	998,9	3411	859,7	1,69	5,77	1,45	591,4	3,26	12,64	**cecomaf MBP**
[°F]	14	131	90	131										
[°C]	-10	45	20	45	1121,9	3832	965,5	2,06	7,05	1,78	543,4	3,12	13,78	**EN12900 MBP**
[°F]	14	113	68	113										
[°C]	-7	49	18	49	1199,1	4095	1032,0	2,03	6,92	1,74	591,7	3,27	15,57	**ARI540 MBP**
[°F]	20	120	65	120										
[°C]	-10	45	32	45	1168,0	3989	1005,2	2,15	7,34	1,85	543,4	3,12	13,36	**opt**
[°F]	14	113	90	113										
[°C]	-25	45	32	45	584,9	1998	503,4	1,42	4,85	1,22	411,5	2,66	6,60	**opt**
[°F]	-13	113	90	113										

Performance tables R290, 230V/50Hz, CSIR, fan 3m/s, VDE

	pe [°C]	[°F]	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	P1 [W]	I [A]	m [kg/h]
[°C / °F]	-25	-13	584,9	1998	503,4	1,42	4,85	1,22	411,5	2,66	6,60
cond. pressure	-20	-4	751,4	2566	646,7	1,64	5,61	1,41	457,6	2,82	8,51
pc= 45/113	-15	5	945,4	3229	813,6	1,88	6,43	1,62	502,2	2,98	10,76
return gas temp.	-10	14	1168,0	3989	1005,2	2,15	7,34	1,85	543,4	3,12	13,36
RGT= 32/90	0	32	1703,7	5819	1466,2	2,80	9,55	2,41	609,0	3,36	19,76
liquid temp	5	41	2019,1	6896	1737,7	3,21	10,95	2,76	629,9	3,44	23,62
Tliq= 45/113	10	50	2367,7	8086	2037,7	3,70	12,62	3,18	640,5	3,49	27,98
[°C / °F]	-25	-13	484,7	1655	417,2	1,14	3,90	0,98	424,7	2,65	6,04
cond. pressure	-20	-4	632,6	2160	544,4	1,31	4,49	1,13	481,0	2,85	7,91
pc= 55/131	-15	5	803,6	2744	691,6	1,50	5,11	1,29	537,2	3,06	10,10
return gas temp	-10	14	998,9	3411	859,7	1,69	5,77	1,45	591,4	3,26	12,64
RGT= 32/90	0	32	1466,9	5010	1262,4	2,13	7,29	1,84	687,2	3,63	18,84
liquid temp	5	41	1741,9	5949	1499,1	2,40	8,20	2,07	725,3	3,79	22,59
Tliq= 55/131	10	50	2045,7	6987	1760,6	2,71	9,26	2,33	754,6	3,94	26,82