

Model

Designation	SCE21MNDX	220-240V/50Hz 1~	Sales code:	104H6160
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	20,95cm³ / 1,28cu.in
Oil quantity	429cm³ / 14,5fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	550g / 19,4oz		
Free gas volume comp.	1330cm³ / 45fl.oz		
Weight	13,7kg / 30,2lbs		
Motor protection	1# internal		
Winding resistance main	4,5Ω (at 25°C)		
Winding resistance aux	15,2Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	140°C / 284°F		



General - Configurations with SCE21MNDX

Conf. 1

Motor configuration	CSCR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC
Starting torque	HST
Note	Starter kit(relay), cover and cord relief are included and pre-assembled.

Applications with SCE21MNDX

Conf. 1

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

Electrical data - Configurations with SCE21MNDX

Conf. 1

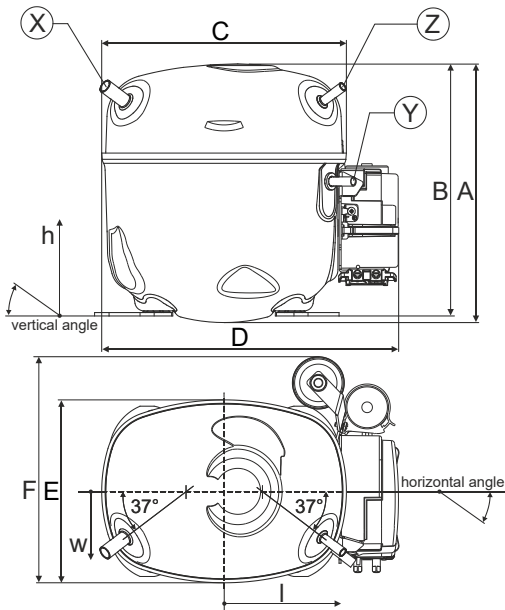
Starting device type	relay
Run capacitor	15μF
Start capacitor	100μF
LRA (locked rotor amps / 4s/ U(N))	
RLA (rated load amps / 1s/ U(N))	3A
Cut in current (U(N))	

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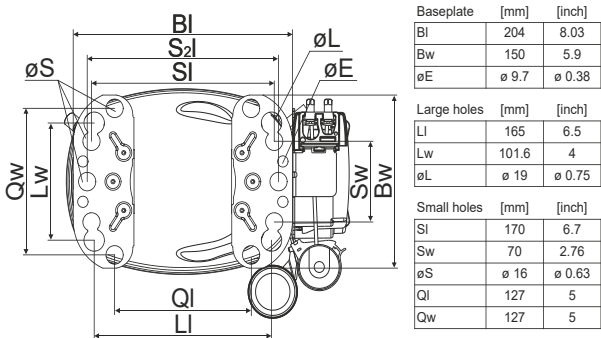
Compressor dimensions

Housing	A Height	228mm / 8,98in
	B Height	222mm / 8,74in
	C Length shell	217mm / 8,54in
	D Length w. cover	263,4mm / 10,37in
	E Width	161,1mm / 6,34in

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°	37°
Vertical angle	±2° 36°	0°	36°
Position l/h/w [mm]	-104/202/54	114/118/63	106/202/53
	[in] -4,1/8/2,1	4,5/4,6/2,5	4,2/8/2,1
Straight tube l.	[mm] 12	12	12
	[in] 0,5	0,5	0,5

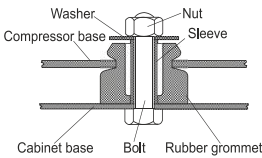


Compressor fixation

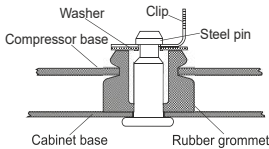


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
QI	127	5
Qw	127	5

Bolt joint



Snap-on

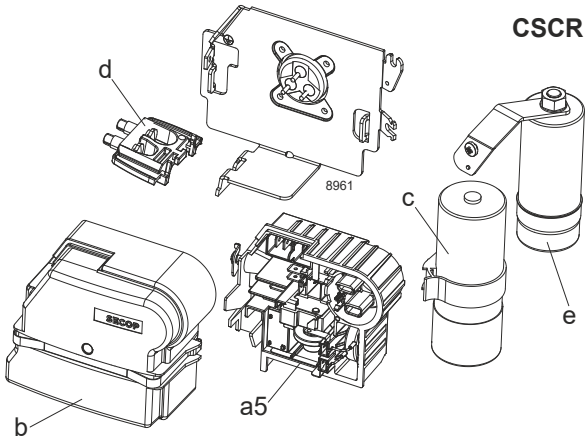
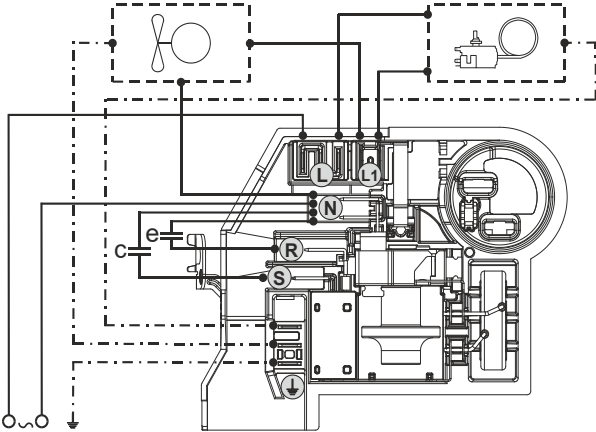


Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Application notes

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

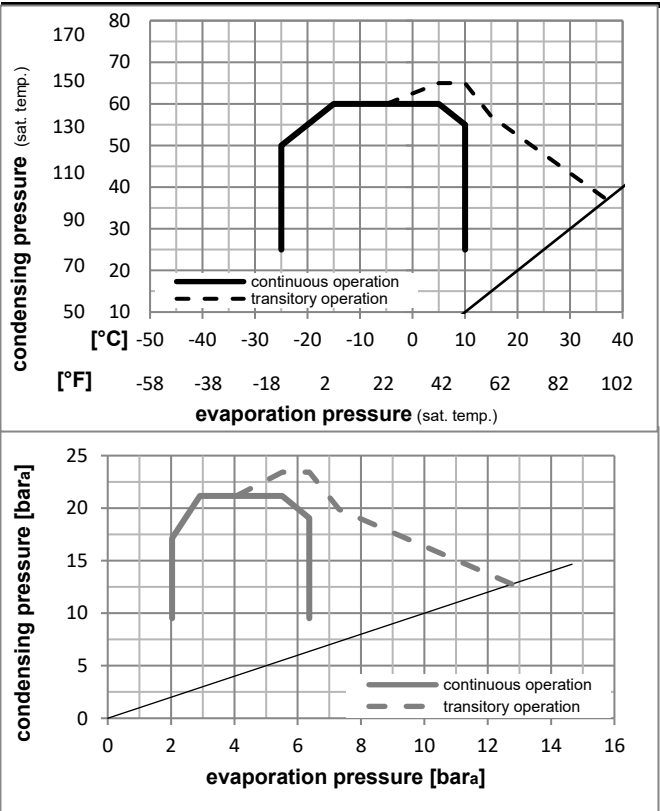
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Configuration		Electrical accessories / wiring diagram		
Motor configuration	CSCR	 CSCR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R290			
Application	MBP			
Voltage range	198-254V			
Starting torque	HST			
Approvals	VDE CCC			

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 (Starter kit (a5)+cover (b) +cord relief (d): pre assembled)

a5	SC starter kit	117U8100
c	start capacitor (100µF)	117U5354
e	run capacitor (15µF, 6.3mm)	117-7167
b	cover terminal board + clamp	117U1036
e1	retaining clamp	117-0313
	screw M4x8mm	117-0301
d	cord relief	103N1007

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Optimization + standard conditions

R290, 220V/50Hz, CSCR, fan 3m/s, VDE, CCC

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption				ASHRAE MBP
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/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]			
[°C]	-7	54	35	46	1799,5	6145	1548,6	2,14	7,30	1,84	841,9	4,09	20,53		
[°F]	20	130	95	115											

[°C]	-10	55	32	55	1424,6	4865	1226,0	1,78	6,06	1,53	802,2	3,90	18,02	cecomaf MBP
[°F]	14	131	90	131										

[°C]	-10	45	20	45	1595,0	5447	1372,7	2,17	7,41	1,87	734,7	3,57	19,58	EN12900 MBP
[°F]	14	113	68	113										

[°C]	-7	49	18	49	1697,0	5796	1460,5	2,13	7,26	1,83	798,2	3,88	22,02	ARI540 MBP
[°F]	20	120	65	120										

[°C]	-10	45	32	45	1660,5	5671	1429,1	2,26	7,72	1,95	734,7	3,57	19,00	opt
[°F]	14	113	90	113										

[°C]	-25	45	32	45	868,6	2966	747,5	1,51	5,16	1,30	574,6	2,83	9,80	opt
[°F]	-13	113	90	113										

Performance tables

R290, 220V/50Hz, CSCR, fan 3m/s, VDE, CCC

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/W/h]	[kcal/W/h]	[W]	[A]	[kg/h]
[°C / °F]	-25	-13	868,6	2966	747,5	1,51	5,16	1,30	574,6	2,83	9,80
cond. pressure	-20	-4	1099,5	3755	946,2	1,75	5,97	1,50	629,2	3,08	12,45
pc= 45/113	-15	5	1362,8	4654	1172,9	1,99	6,81	1,72	683,5	3,33	15,51
return gas temp.	-10	14	1660,5	5671	1429,1	2,26	7,72	1,95	734,7	3,57	19,00
RGT= 32/90	0	32	2366,3	8081	2036,5	2,90	9,90	2,49	816,7	3,97	27,45
liquid temp	5	41	2778,1	9488	2390,9	3,30	11,27	2,84	842,0	4,08	32,50
Tliq= 45/113	10	50	3231,6	11037	2781,2	3,79	12,93	3,26	853,3	4,12	38,19
[°C / °F]	-25	-13	721,1	2463	620,6	1,21	4,12	1,04	597,4	2,94	8,98
cond. pressure	-20	-4	926,9	3166	797,7	1,39	4,76	1,20	665,1	3,25	11,59
pc= 55/131	-15	5	1160,8	3964	999,0	1,58	5,40	1,36	734,3	3,57	14,59
return gas temp	-10	14	1424,6	4865	1226,0	1,78	6,06	1,53	802,2	3,90	18,02
RGT= 32/90	0	32	2049,5	7000	1763,9	2,22	7,58	1,91	923,4	4,48	26,32
liquid temp	5	41	2414,3	8245	2077,8	2,49	8,49	2,14	971,0	4,71	31,31
Tliq= 55/131	10	50	2816,5	9619	2423,9	2,80	9,56	2,41	1006,4	4,86	36,93