

Model

Designation	SCE25MNIX	220-240V/60Hz 1~	Sales code:	104H8450
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290, 0, 0
Oil viscosity	32cSt	Displacement	25cm³ / 1,53cu.in
Oil quantity	500cm³ / 16,9fl.oz	Compressors on pallet	48
Refr. charge - tech. limit	500g / 17,6oz		
Free gas volume comp.	3150cm³ / 106,5fl.oz		
Weight	14,9kg / 32,8lbs		
Motor protection	1# internal		
Winding resistance main	2,2Ω (at 25°C)		
Winding resistance aux	5,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	140°C / 284°F		



General - Configurations with SCE25MNIX

Conf. 1

Motor configuration	CSCR
Power supply (nominal)	220-240V/60Hz
Number of phases	1
Voltage range	195-254V
Approvals	
Starting torque	HST
Note	Starter kit(relay), cover and cord relief are included and pre-assembled.

Applications with SCE25MNIX

Conf. 1

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

Electrical data - Configurations with SCE25MNIX

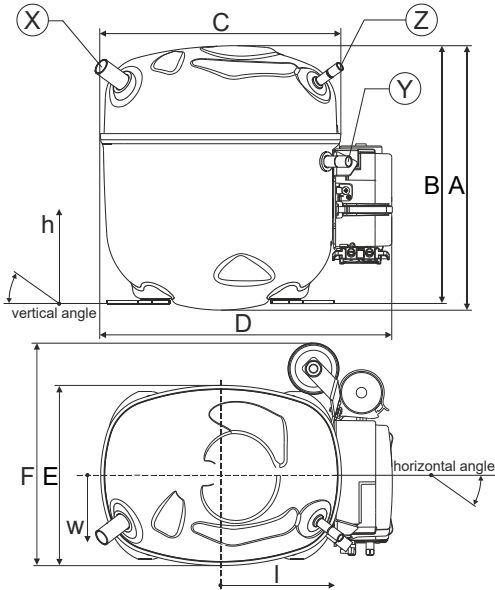
Conf. 1

Starting device type	relay
Run capacitor	15μF
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	32A
RLA (rated load amps / 1s/ U(N))	3,9A
Cut in current (U(N))	

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Compressor dimensions

Housing	A Height	236,4mm / 9,31in	
	B Height	230,6mm / 9,08in	
	C Length shell	217mm / 8,54in	
	D Length w. cover	263,4mm / 10,37in	
	E Width	161,1mm / 6,34in	
	F Width with equipment	199mm / 7,83in	
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 12,81-12,99	øi 8,11-8,29	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,5-0,51	øi 0,32-0,33	øi 0,25-0,26
Material	steel/CU	copper	copper
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-111/212/57	116/127/81	110/94/72
	[in] -4,4/8,3/2,2	4,5/5/3,2	4,3/3,7/2,8
Straight tube l. [mm]	12	12	12
	[in] 0,5	0,5	0,5



Compressor fixation

Technical drawing of the compressor baseplate showing dimensions: BI, S2I, SI, LI, LW, QW, SW, BW, QI, and LI. The drawing includes a top view and a side view, with dimensions labeled in millimeters and inches.

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

Diagram of the bolt joint fixation method. Labels: Washer, Nut, Sleeve, Compressor base, Cabinet base, Bolt, Rubber grommet.

Snap-on

Diagram of the snap-on fixation method. Labels: Washer, Clip, Steel pin, Compressor base, Cabinet base, Rubber grommet.

Mounting accessories

Bolt joint | M6 | ø16mm

one comp.

multi pack

Bolt joint | ø1/4" | ø16mm

118-1917

118-1918

Bolt joint | ø1/4" | ø19mm

118-1946

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

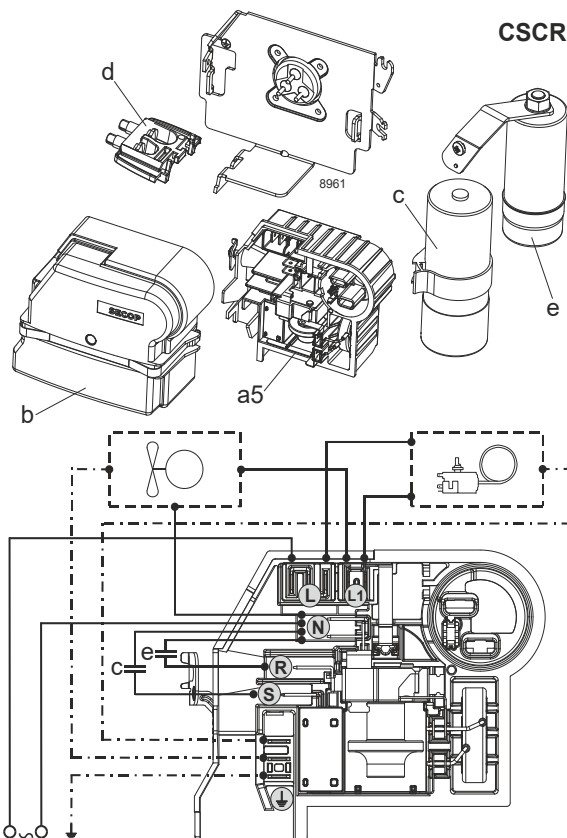
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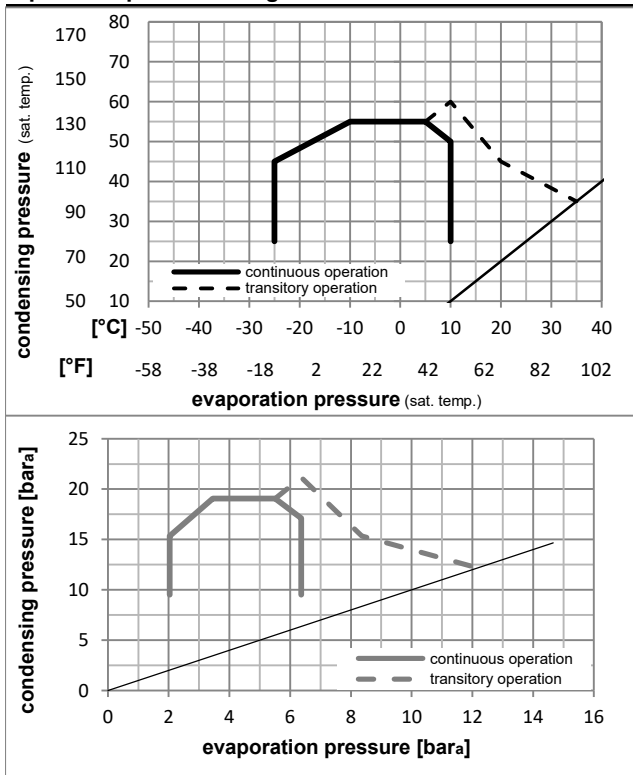
Electrical accessories / wiring diagram



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

a5	SC starter kit	117U8102
b	cover terminal board + clamp	117U1036
c	start capacitor (80µF)	117U5352
e	run capacitor (15µF, 6.3mm)	117-7167
e1	retaining clamp	117-0313
	screw M4x8mm	117-0301
d	cord relief	103N1007

Model

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Optimization + standard conditions

R290, 230V/60Hz, CSCR, fan 3m/s,

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1	I	Ref. mass flow			
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-7	54	35	46	2442,9	8343	2102,3	2,05	7,00	1,76	1192,5	5,62	27,87	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	1920,4	6558	1652,7	1,70	5,81	1,46	1129,6	5,33	24,29	cecomaf MBP
[°F]	14	131	90	131										
[°C]	-10	45	20	45	2242,9	7660	1930,2	2,16	7,38	1,86	1037,5	4,91	27,54	EN12900 MBP
[°F]	14	113	68	113										
[°C]	-7	49	18	49	2352,9	8035	2024,9	2,10	7,18	1,81	1119,7	5,28	30,55	ARI540 MBP
[°F]	20	120	65	120										
[°C]	-10	45	32	45	2334,9	7974	2009,5	2,25	7,69	1,94	1037,5	4,91	26,71	opt
[°F]	14	113	90	113										
[°C]	-25	45	32	45	1152,2	3935	991,6	1,47	5,02	1,26	784,1	3,78	12,99	opt
[°F]	-13	113	90	113										