Single
Packs

Single Pack SC10MNX 220-240V 50Hz CSIR

Single pack code number: **195B4376**

Position	Title	Code	Amount
1	Compressor SC10MNX	104H8075	1
2	Starting relay	117U7005	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	1
4	Cord relief	103N1004	1
5	Cover	103N2008	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC10MNX

Sales code:
104H8075

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**13.10 kg / 28.88lbs**
Displacement	**10.29 cm3 / 0.63cu.in**
Compressors on pallet	**80**

General – Configurations With SC10MNX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC, EAC, VDE
Starting torque	HST
Refrigerant	R290
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

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

Model
SC10MNX

Sales code:
104H8075

Compressor Design

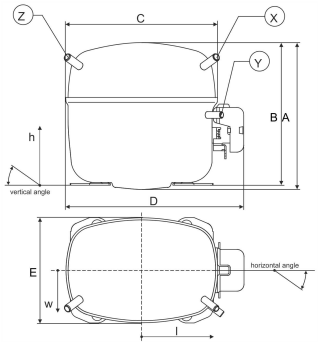
Oil type	**POE**	Winding resistance main	**5.13 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**13.51 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,410 cm3 / 47.68fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

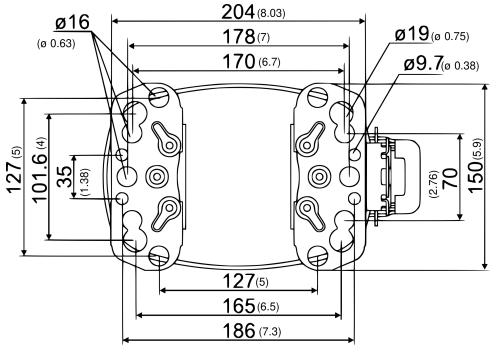
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



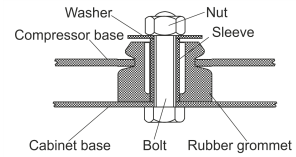
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

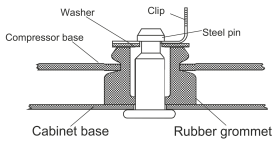


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
SC10MNX Configuration 1

Sales code:
104H8075

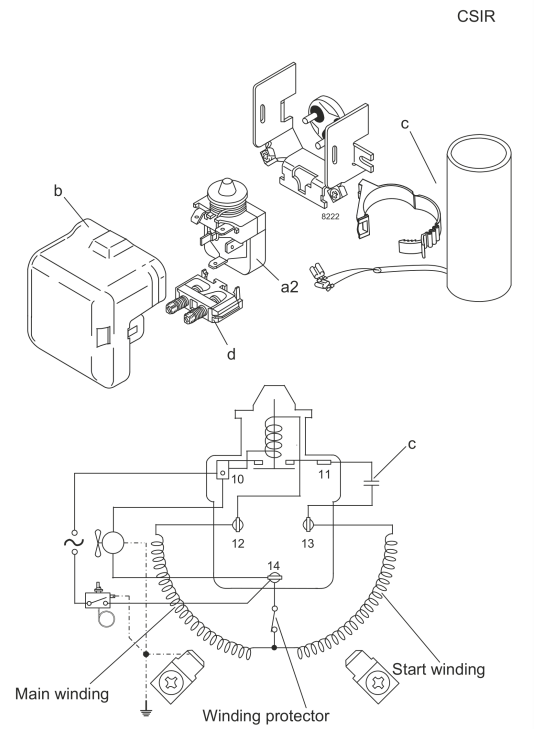
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**CCC, EAC, VDE**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**16.2 A**
RLA (rated load amps / 1s/ U(N))	**3.1 A**
Cut in current (U(N))	**16.2 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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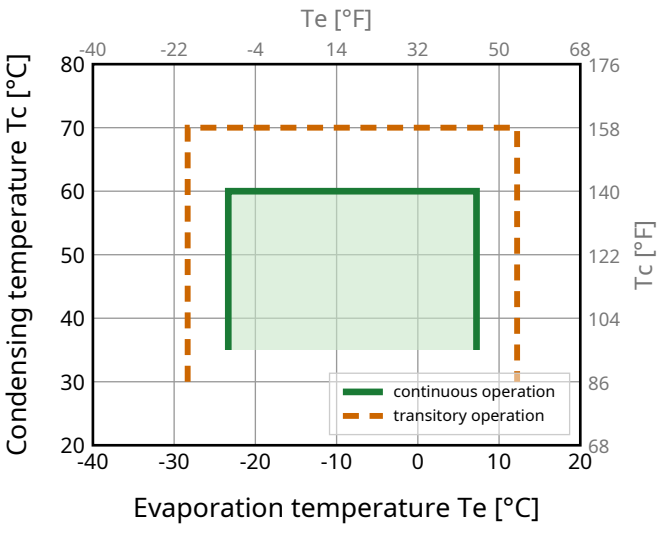
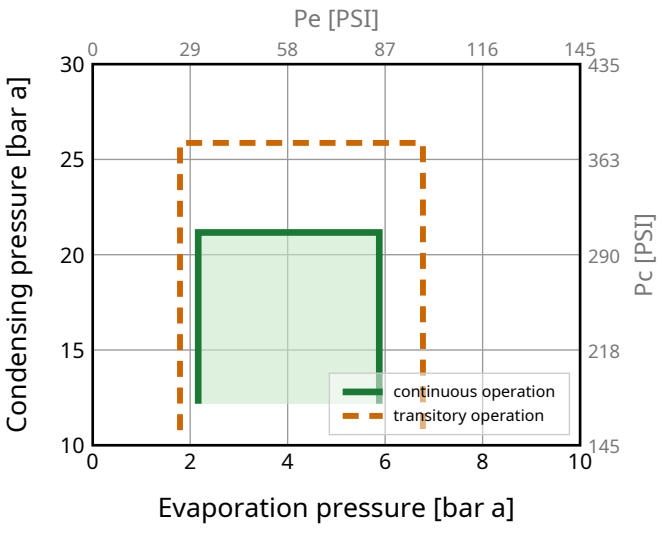
Components
a2 relay 117U7005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Alternative components
a2 relay 117U7005
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2008

Operation Pressure Range





Model
SC10MNX Configuration 1

Sales code:
104H8075

Standard Conditions

R290, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	**766**	2615	659	**1.70**	5.80	451	2.83	8.78	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**593**	2024	510	**1.38**	4.71	430	2.76	7.54	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**687**	2345	591	**1.72**	5.86	400	2.67	8.46	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**735**	2508	632	**1.71**	5.83	430	2.76	9.56	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**715**	2438	615	**1.78**	6.09	400	2.67	8.21	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**328**	1118	282	**1.12**	3.83	292	2.39	3.71	**opt MBP 2**

Performance Tables

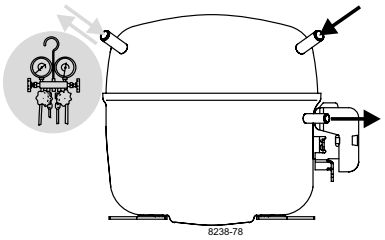
R290, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-23.3	-10	**364**	1241	313	**1.18**	4.03	308	2.42	4.13
-20	-4	**439**	1499	378	**1.30**	4.45	337	2.49	5.00
-15	5	**567**	1936	488	**1.52**	5.19	373	2.58	6.48
-10	14	**715**	2438	615	**1.78**	6.09	400	2.67	8.21
-5	23	**883**	3012	759	**2.09**	7.14	422	2.75	10.20
0	32	**1074**	3665	924	**2.45**	8.36	438	2.82	12.49
5	41	**1291**	4404	1110	**2.85**	9.74	452	2.88	15.13
7.2	45	**1394**	4758	1199	**3.05**	10.40	458	2.91	16.41

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-23.3	-10	**283**	964	243	**0.96**	3.29	293	2.43	3.55
-20	-4	**350**	1193	301	**1.05**	3.57	334	2.51	4.40
-15	5	**463**	1581	398	**1.20**	4.08	387	2.64	5.86
-10	14	**593**	2024	510	**1.38**	4.71	430	2.76	7.54
-5	23	**742**	2531	638	**1.60**	5.46	464	2.87	9.49
0	32	**911**	3107	783	**1.85**	6.33	491	2.98	11.74
5	41	**1102**	3760	948	**2.15**	7.33	513	3.07	14.34
7.2	45	**1194**	4074	1027	**2.29**	7.81	522	3.12	15.60



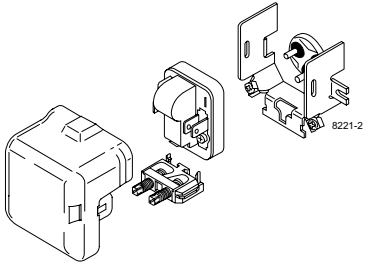
SC Compressors

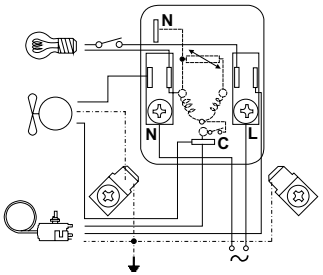
SECOP

Keep electrical equipment clear from oil, chemicals, and water

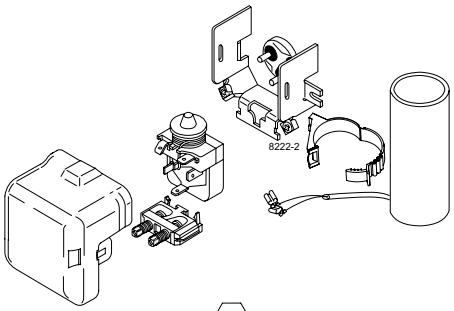
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

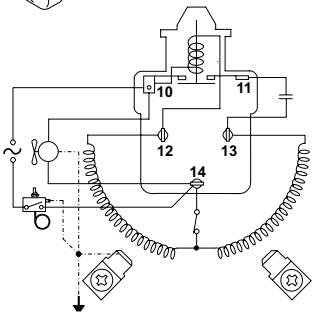
RSIR



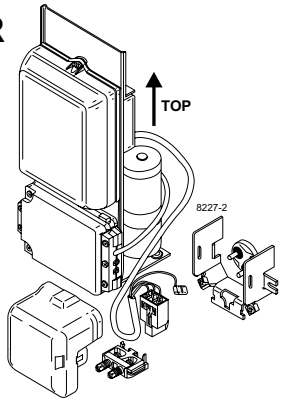


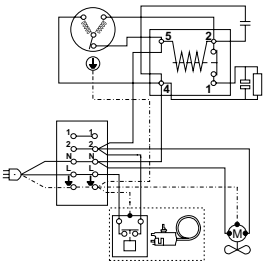
CSIR

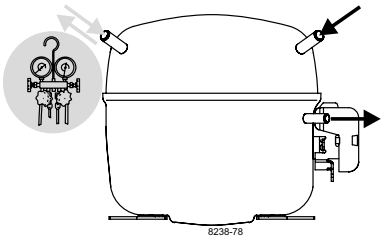




CSCR







SC Compressors

SECOP

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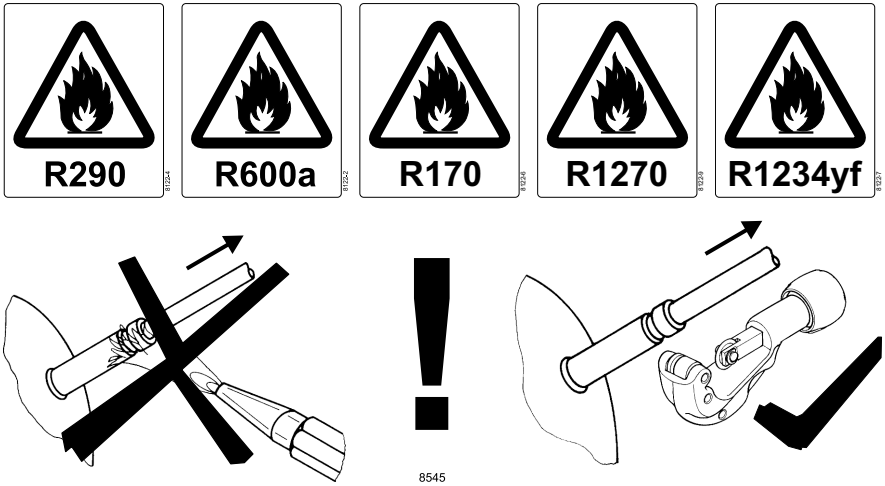
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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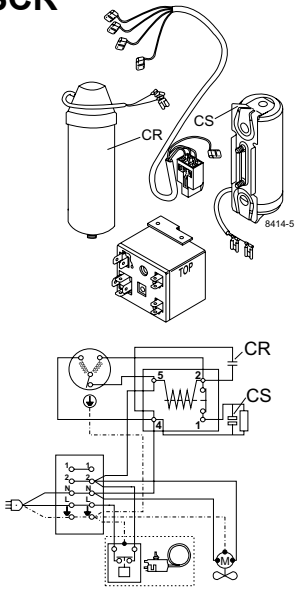

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**