

Model

Designation	SC15FTX	100-127V/60Hz 1~	Sales code:	104G7505
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	22cSt	Displacement	15,28cm ³ / 0,93cu.in
Oil quantity	550cm ³ / 18,6fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1460cm ³ / 49,4fl.oz		
Weight	13,2kg / 29,1lbs		
Motor protection	1# internal		
Winding resistance main	1Ω (at 25°C)		
Winding resistance aux	4,2Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	140°C / 284°F		



General - Configurations with SC15FTX

	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	115V/60Hz	100-115V/50Hz
Number of phases	1	1
Voltage range	90-135V	90-110V
Approvals	UL	UL
Starting torque	HST	HST
Note	- / -	

Applications with SC15FTX

	Conf. 1	Conf. 2
Refrigerant	R134a	R134a
Application	LBP+MBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Electrical data - Configurations with SC15FTX

	Conf. 1	Conf. 2
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	240μF	240μF
LRA (locked rotor amps / 4s/ U(N))	39,7A	
RLA (rated load amps / 1s/ U(N))	7,6A	-/-A
Cut in current (U(N))	39,7A	

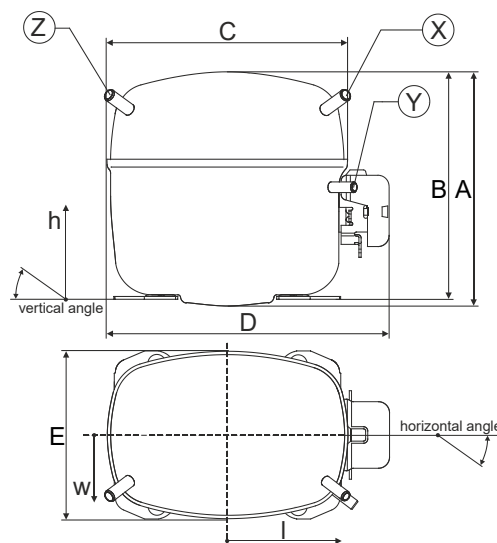
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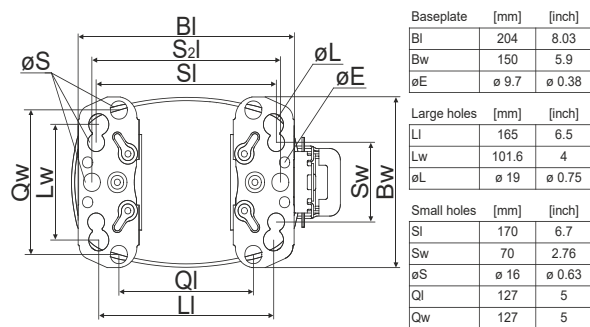
Compressor dimensions

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

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° 37°	37°	143°
Vertical angle	±2° 30°	0°	150°
Position l/h/w [mm]	107/183/55	115/100/63	-107/183/55
	[in] 4,2/7,2/2,2	4,5/3,9/2,5	-4,2/7,2/2,2
Straight tube l.	[mm] 12	12	12
	[in] 0,5	0,5	0,5

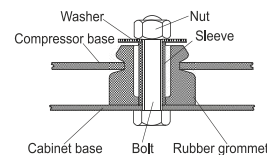


Compressor fixation

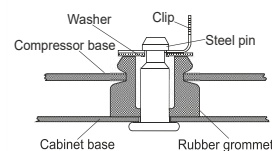


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
QI	127	5
Qw	127	5

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

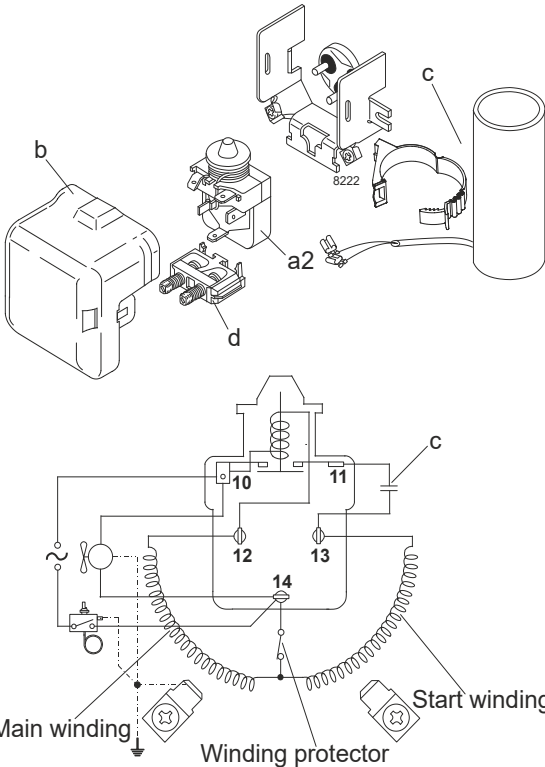
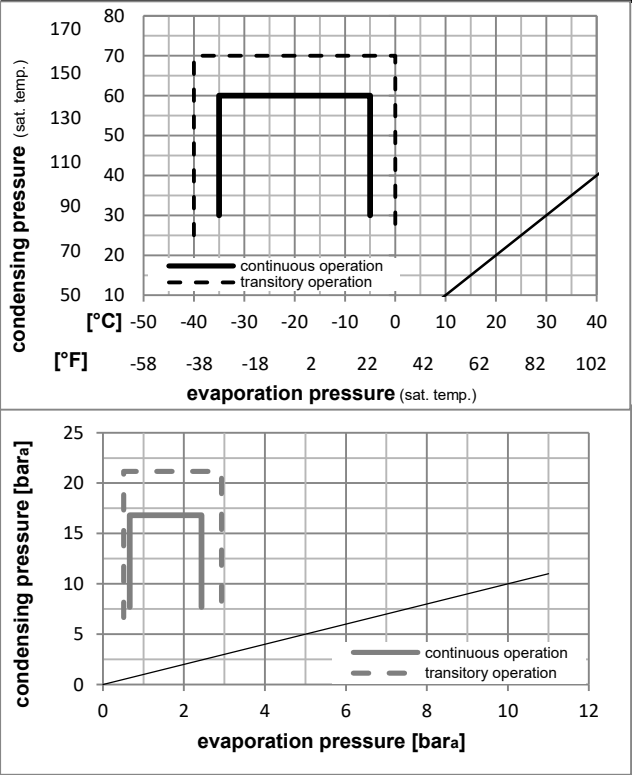
Model				
Designation	SC15FTX	115V/60Hz	Conf. 1	Sales code: 104G7505

Configuration		Electrical accessories / wiring diagram		
Motor configuration	CSIR	CSIR		
Power supply (nominal)	115V/60Hz 1~			
Refrigerant	R134a			
Application	LBP+MBP			
Voltage range	90-135V			
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



Components		
a2	relay	117U6020
c	start capacitor (240μF)	117U5023
d	cord relief	103N1004
b	plastic cover	103N2008

Model

Designation	SC15FTX	115V/60Hz	Conf. 1	Sales code:	104G7505
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Optimization + standard conditions

R134a, 115V/60Hz, CSIR, fan 3m/s, UL

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]	ṁ		
[°C]	[°C]											[kg/h]		
[°C]	-23	54	32	32	454,4	1552	391,1	1,12	3,83	0,97	405,1	5,75	8,82	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	332,3	1135	286,0	0,87	2,98	0,75	380,8	5,62	7,95	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	233,6	798	201,1	0,83	2,83	0,71	282,0	4,98	5,13	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	925,5	3161	796,5	1,46	5,00	1,26	632,5	7,39	20,19	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	721,9	2465	621,2	1,23	4,20	1,06	587,6	7,07	17,45	cecomaf MBP
[°F]	14	131	90	131										
[°C]	-10	45	20	45	803,0	2742	691,0	1,47	5,02	1,27	545,8	6,58	18,80	EN12900 MBP
[°F]	14	113	68	113										

Performance tables

R134a, 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]	-29	-20	320,0	1093	275,4	0,94	3,20	0,81	341,6	5,20	6,92
cond. pressure	-29	-20	320,0	1093	275,4	0,94	3,20	0,81	341,6	5,20	6,92
pc= 45/113	-26	-15	375,6	1283	323,3	1,01	3,45	0,87	371,5	5,38	8,13
return gas temp.	-23	-10	437,3	1494	376,4	1,09	3,73	0,94	400,6	5,57	9,48
RGT= 32/90	-21	-5	505,5	1726	435,1	1,18	4,02	1,01	429,6	5,76	10,98
liquid temp	-15	5	663,5	2266	571,0	1,36	4,64	1,17	488,7	6,17	14,46
Tliq= 45/113	-5	23	1031,7	3523	887,9	1,69	5,78	1,46	609,2	7,00	22,69
[°C / °F]	-29	-20	258,3	882	222,3	0,80	2,73	0,69	323,0	5,28	6,16
cond. pressure	-29	-20	258,3	882	222,3	0,80	2,73	0,69	323,0	5,28	6,16
pc= 55/131	-26	-15	310,2	1059	267,0	0,85	2,91	0,73	364,6	5,52	7,41
return gas temp	-23	-10	366,9	1253	315,8	0,91	3,10	0,78	404,6	5,76	8,78
RGT= 32/90	-21	-5	428,9	1465	369,1	0,97	3,30	0,83	443,4	6,02	10,28
liquid temp	-15	5	570,8	1950	491,3	1,10	3,76	0,95	519,1	6,56	13,74
Tliq= 55/131	-5	23	898,0	3067	772,8	1,36	4,65	1,17	659,3	7,61	21,83

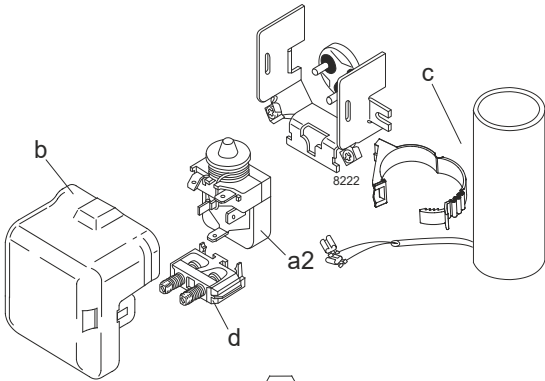
Model				
Designation	SC15FTX	100-115V/50Hz	Conf. 2	Sales code: 104G7505

Configuration

Electrical accessories / wiring diagram

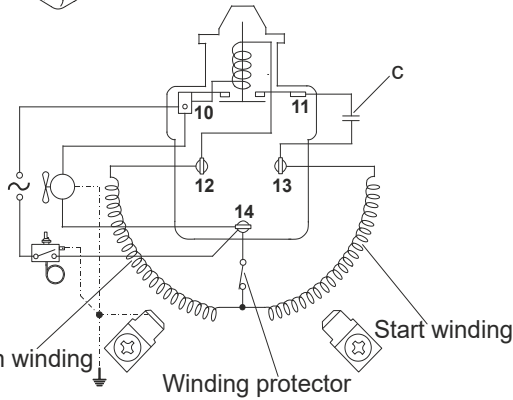
Motor configuration	CSIR
Power supply (nominal)	100-115V/50Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	90-110V
Starting torque	HST
Approvals	UL

CSIR

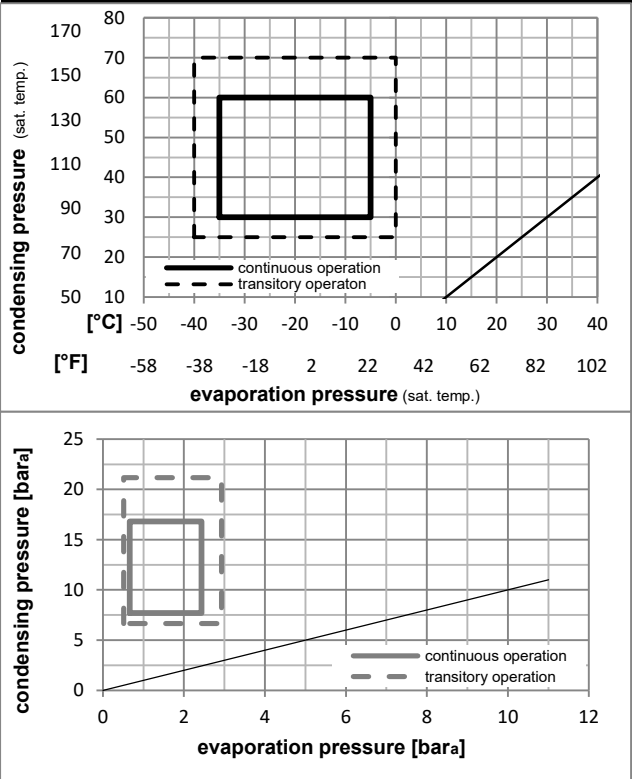


Ambient/ machine room temperatures minimum /maximum

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 pressure range



Components

a2	relay	117U6020
c	start capacitor (240µF)	117U5023
d	cord relief	103N1004
b	plastic cover	103N2008

Model

Designation **SC15FTX** **100-115V/50Hz** Conf. 2 Sales code: **104G7505**

Optimization + standard conditions

R134a, 115V/50Hz, CSIR, fan 3m/s, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption				
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]	-23	54	32	32	388,4	1326	334,2	0,96	3,27	0,83	405,1	5,75	7,54	ASHRAE LBP	
[°F]	-10	130	90	90											
[°C]	-25	55	32	55	284,0	970	244,4	0,75	2,55	0,64	380,8	5,62	6,79	cecomaf LBP	
[°F]	-13	131	90	131											
[°C]	-35	40	20	40	199,7	682	171,9	0,71	2,42	0,61	282,0	4,98	4,38	EN12900 LBP	
[°F]	-31	104	68	104											
[°C]	-7	54	35	46	791,0	2701	680,7	1,25	4,27	1,08	632,5	7,39	17,26	ASHRAE MBP	
[°F]	20	130	95	115											
[°C]	-10	55	32	55	617,0	2107	531,0	1,05	3,59	0,90	587,6	7,07	14,92	cecomaf MBP	
[°F]	14	131	90	131											
[°C]	-10	45	20	45	686,3	2344	590,6	1,26	4,29	1,08	545,8	6,58	16,06	EN12900 MBP	
[°F]	14	113	68	113											

Performance tables

R134a, 115V/50Hz, 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]	-35	-31	184,6	631	158,9	0,68	2,32	0,59	271,5	4,84	3,98
cond. pressure	-29	-20	273,5	934	235,3	0,80	2,73	0,69	341,6	5,20	5,91
pc= 45/113	-26	-15	321,1	1096	276,3	0,86	2,95	0,74	371,5	5,38	6,95
return gas temp.	-23	-10	373,8	1277	321,7	0,93	3,19	0,80	400,6	5,57	8,10
RGT= 32/90	-21	-5	432,1	1476	371,8	1,01	3,43	0,87	429,6	5,76	9,38
liquid temp	-15	5	567,1	1937	488,0	1,16	3,96	1,00	488,7	6,17	12,36
Tliq= 45/113	-5	23	881,8	3011	758,9	1,45	4,94	1,25	609,2	7,00	19,39
[°C / °F]	-35	-31	135,4	462	116,5	0,61	2,07	0,52	223,3	4,78	3,22
cond. pressure	-29	-20	220,8	754	190,0	0,68	2,33	0,59	323,0	5,28	5,27
pc= 55/131	-26	-15	265,1	905	228,2	0,73	2,48	0,63	364,6	5,52	6,34
return gas temp	-23	-10	313,6	1071	269,9	0,78	2,65	0,67	404,6	5,76	7,51
RGT= 32/90	-21	-5	366,6	1252	315,5	0,83	2,82	0,71	443,4	6,02	8,79
liquid temp	-15	5	487,9	1666	419,9	0,94	3,21	0,81	519,1	6,56	11,75
Tliq= 55/131	-5	23	767,5	2621	660,5	1,16	3,98	1,00	659,3	7,61	18,66