

Model
NF7.3FX.2

Sales code:
105G5722

Compressor Data

Refrigerant(s)	R134a / R513A
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.00 kg / 22.05lbs
Displacement	7.27 cm3 / 0.44cu.in
Compressors on pallet	80



General – Configurations With NF7.3FX.2

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL, EAC	UL, EAC
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	LBP+MBP	LBP+MBP
Long interval pull down	OK	OK

Application Notes

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

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Compressor Design

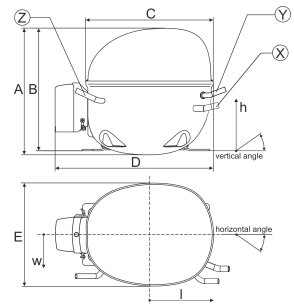
Oil type	POE	Winding resistance main	1.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	6.2 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

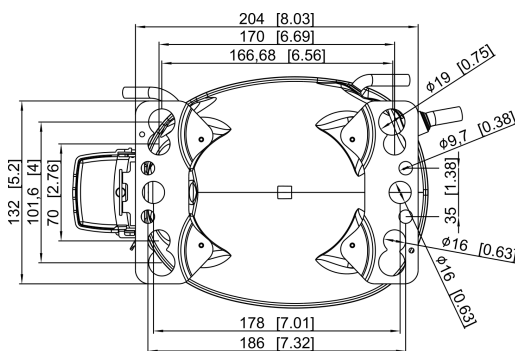
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

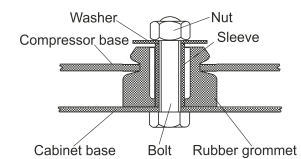


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

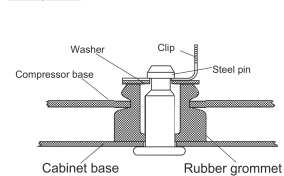
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF

Ambient/ machine room temperatures minimum /maximum

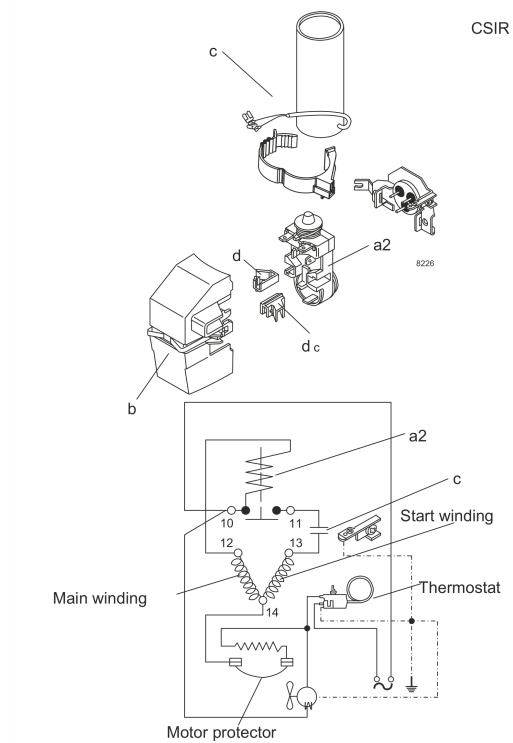
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay (protector: TI MRP30AEN-6) 117U4061

c start capacitor (280µF) 117U5025

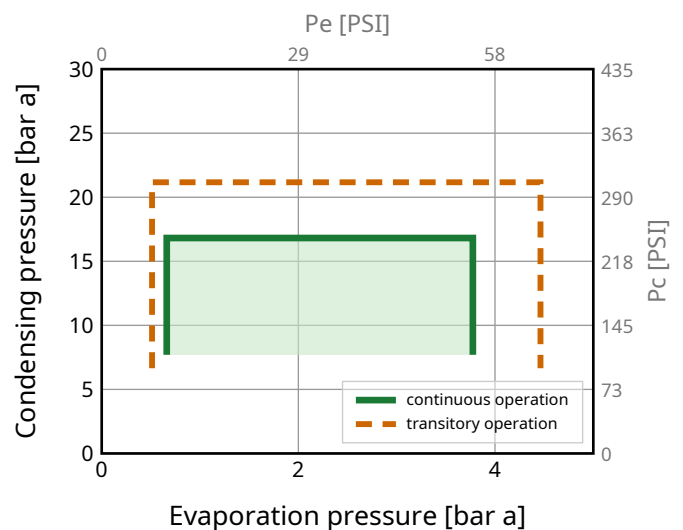
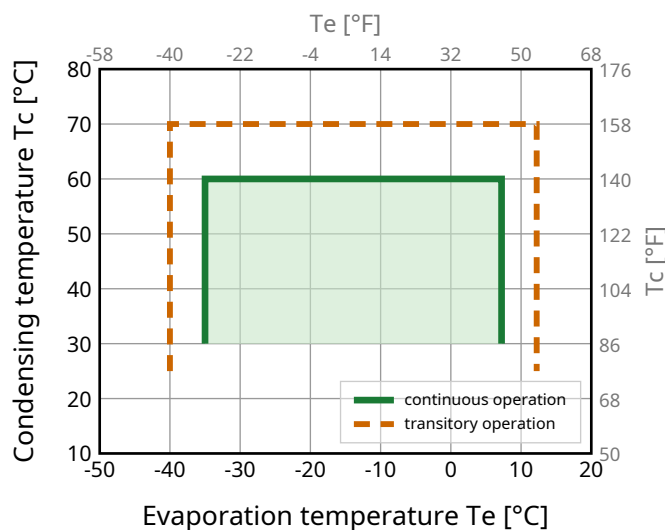
b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Alternative components

b assy. terminal board 6.3mm 117U1024

Operation Pressure Range



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Configuration 1

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Standard Conditions

R134a, 115 V/60 Hz, CSIR, fan 1,5m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	262	893	225	1.16	3.95	226	3.57	5.08	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	190	649	164	0.88	3.01	216	3.53	4.54	CECOMAF LBP
-35 -31	40 104	20 68	40 104	128	436	110	0.76	2.58	169	3.35	2.79	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	547	1867	471	1.70	5.80	322	4.11	11.91	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	426	1452	366	1.40	4.79	303	4.00	10.26	CECOMAF MBP
-10 14	45 113	20 68	45 113	480	1638	413	1.66	5.67	289	3.90	11.19	EN12900 MBP

Performance Tables

R134a, 115 V/60 Hz, CSIR, fan 1,5m/s

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

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	117	400	101	0.71	2.43	164	3.34	2.52
-30	-22	170	581	147	0.89	3.03	192	3.41	3.68
-20	-4	308	1052	265	1.28	4.35	242	3.62	6.69
-10	14	497	1696	428	1.72	5.87	289	3.90	10.86
0	32	747	2549	643	2.20	7.49	340	4.25	16.49
7.2	45	971	3313	835	2.53	8.64	383	4.54	21.64

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

-35	-31	91	312	79	0.61	2.07	151	3.31	2.17
-30	-22	136	464	117	0.74	2.51	184	3.41	3.23
-20	-4	256	873	220	1.04	3.56	246	3.67	6.12
-10	14	426	1452	366	1.40	4.79	303	4.00	10.26
0	32	656	2237	564	1.80	6.14	364	4.40	15.98
7.2	45	864	2949	743	2.09	7.13	414	4.73	21.31

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Configuration 2

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R513A
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF

Ambient/ machine room temperatures minimum /maximum

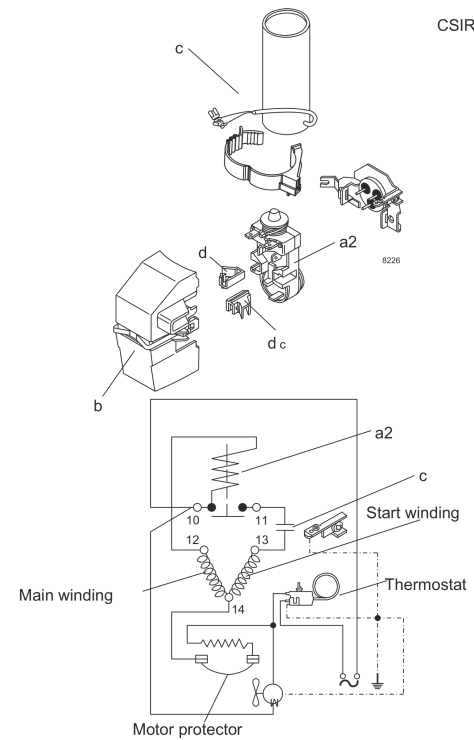
Ambient temperature range: 10 - 43°C / 50 - 109°F

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System Cooling

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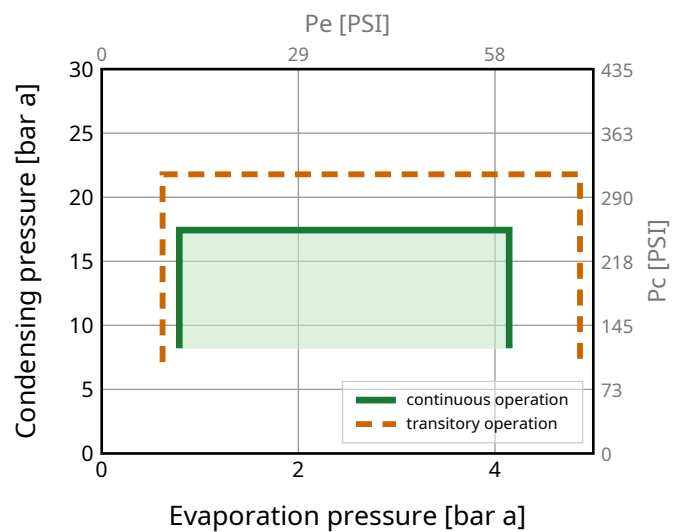
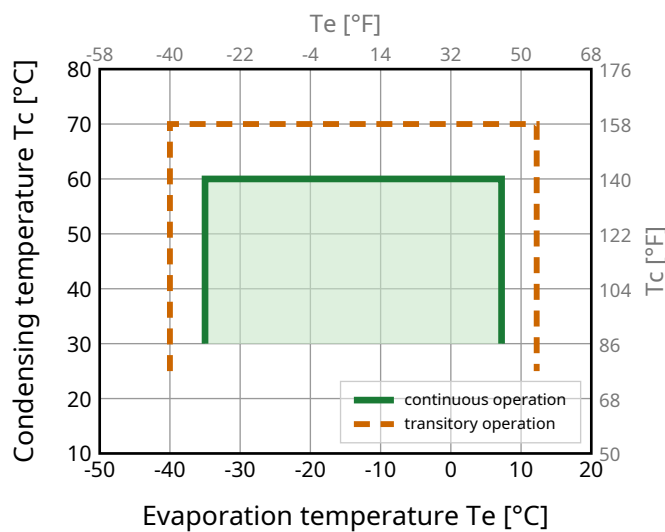
b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Alternative components

b assy. terminal board 6.3mm 117U1024

Operation Pressure Range



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Standard Conditions

R513A, 115 V/60 Hz, CSIR, fan 1,5m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	288	984	248	1.18	4.03	244	3.88	6.31	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	205	699	176	0.88	2.99	234	3.81	5.67	CECOMAF LBP
-35 -31	40 104	20 68	40 104	142	485	122	0.78	2.65	183	3.68	3.57	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	574	1957	493	1.69	5.75	340	4.40	14.30	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	441	1506	380	1.37	4.67	322	4.30	12.38	CECOMAF MBP
-10 14	45 113	20 68	45 113	499	1703	429	1.63	5.57	306	4.20	13.52	EN12900 MBP

Performance Tables

R513A, 115 V/60 Hz, CSIR, fan 1,5m/s

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

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	132	449	113	0.74	2.52	178	3.62	3.24
-30	-22	188	641	162	0.91	3.09	208	3.76	4.64
-20	-4	331	1130	285	1.28	4.37	259	3.99	8.22
-10	14	524	1787	450	1.71	5.84	306	4.20	13.11
0	32	775	2644	666	2.17	7.41	357	4.47	19.63
7.2	45	998	3405	858	2.50	8.52	400	4.74	25.57

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

-35	-31	103	350	88	0.62	2.12	166	3.39	2.83
-30	-22	149	508	128	0.74	2.52	201	3.62	4.11
-20	-4	271	926	233	1.03	3.50	264	3.99	7.54
-10	14	441	1506	380	1.37	4.67	322	4.30	12.38
0	32	669	2282	575	1.75	5.97	382	4.65	19.01
7.2	45	874	2980	751	2.02	6.91	431	4.95	25.16