

## Single Pack NF7FX 220V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4495**

Position	Title	Code	Amount
1	Compressor NF7FX	105G6743	1
2	Starting relay (overload protector MRP59EN-6)	117U4140	1
3	Starting capacitor (125µF 220V, 6.3mm)	117U5018	1
4	Cord relief	117U0317	1
5	Cord relief	117U0349	1
6	Cover	117U1023	1
7	Bolt joint for one compressor   M6   ø16mm	118-1917	1

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## NF7FX Standard Compressor R134a 220V 50/60Hz

### General

Code number	105G6743
Approvals	—
Compressors on pallet	80

### Application

Application		LBP/MBP	
Frequency	Hz	50	60
Evaporating temperature	°F	-30 to 45	-30 to 45
Voltage range	V	198 - 242	198 - 242
Max. condensing temperature continuous (short)	°F	140 (158)	140 (158)
Max. winding temperature continuous (short)	°F	257 (275)	257 (275)

### Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		S	S	—	F <sub>1</sub>	F <sub>1</sub>	—
100°F		F <sub>1</sub>	F <sub>1</sub>	—	F <sub>1</sub>	F <sub>1</sub>	—
110°F		—	—	—	—	—	—
Remarks on application:							

### Motor

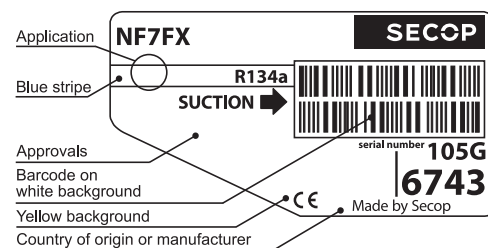
Motor type		CSIR	
LRA (rated after 4 sec. UL984), HST   LST	A	15.8	—
Cut in Current, HST   LST	A	15.8	—
Resistance, main   start winding (77°F)	Ω	5.8	12.6

### Design

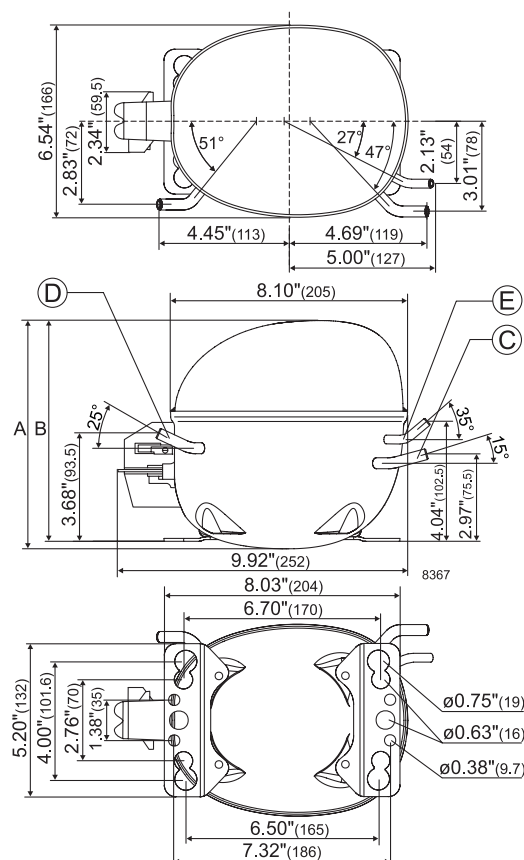
Displacement	cu.in	0.44
Oil quantity (type)	fl.oz.	9.13 (polyolester)
Maximum refrigerant charge	oz.	14.0
Free gas volume in compressor	fl.oz.	79.7
Weight without electrical equipment	lbs.	23.0

### Dimensions

Height	inch	A	8.00
		B	7.76
		B1	—
		B2	—
Suction connector	location, I.D. in.   angle	C	0.320-0.327   15°
	material   comment		Copper   Rubber plug
Process connector	location, I.D. in.   angle	D	0.252-0.259   25°
	material   comment		Copper   Rubber plug
Discharge connector	location, I.D. in.   angle	E	0.252-0.259   35°
	material   comment		Copper   Rubber plug
Oil cooler connector	location, I.D. in.   angle	F	—
	material   comment		—
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s  
(compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**ASHRAE LBP**

220V, 50Hz, static cooling

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in BTU/h			341	496	630	696	943	1255	1400	1630	2086	2604	2670	2899			
Power cons. in W			134	158	176	184	209	235	247	261	287	314	318	327			
Current cons. in A			1.70	1.73	1.76	1.78	1.83	1.89	1.91	1.95	2.02	2.10	2.11	2.14			
EER in BTU/Wh			2.55	3.13	3.58	3.79	4.52	5.36	5.73	6.27	7.29	8.35	8.48	8.90			

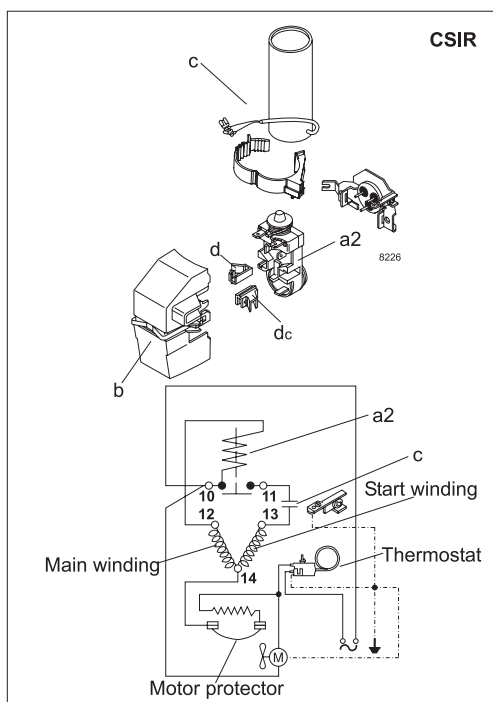
**ASHRAE MBP**

220V, 50Hz, static cooling

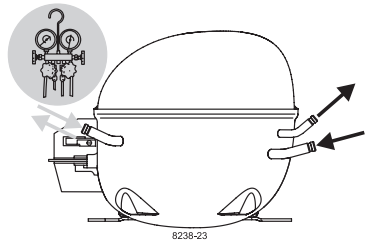
Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in BTU/h			304	442	562	620	840	1117	1250	1450	1854	2312	2370	2573			
Power cons. in W			134	158	176	184	209	235	247	261	287	314	318	327			
Current cons. in A			1.70	1.73	1.76	1.78	1.83	1.89	1.91	1.95	2.02	2.10	2.11	2.14			
EER in BTU/Wh			2.27	2.80	3.19	3.37	4.02	4.76	5.08	5.56	6.46	7.36	7.46	7.87			

**EN 12900 Household (CECOMAF)** 220V, 50Hz, static cooling

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in W			82	119	151	167	226	301	336	390	498	622	638	691			
Power cons. in W			134	158	176	184	209	235	247	261	287	314	318	327			
Current cons. in A			1.70	1.73	1.76	1.78	1.83	1.89	1.91	1.95	2.02	2.10	2.11	2.14			
COP in W/W			0.61	0.75	0.86	0.91	1.08	1.28	1.36	1.49	1.73	1.98	2.01	2.11			

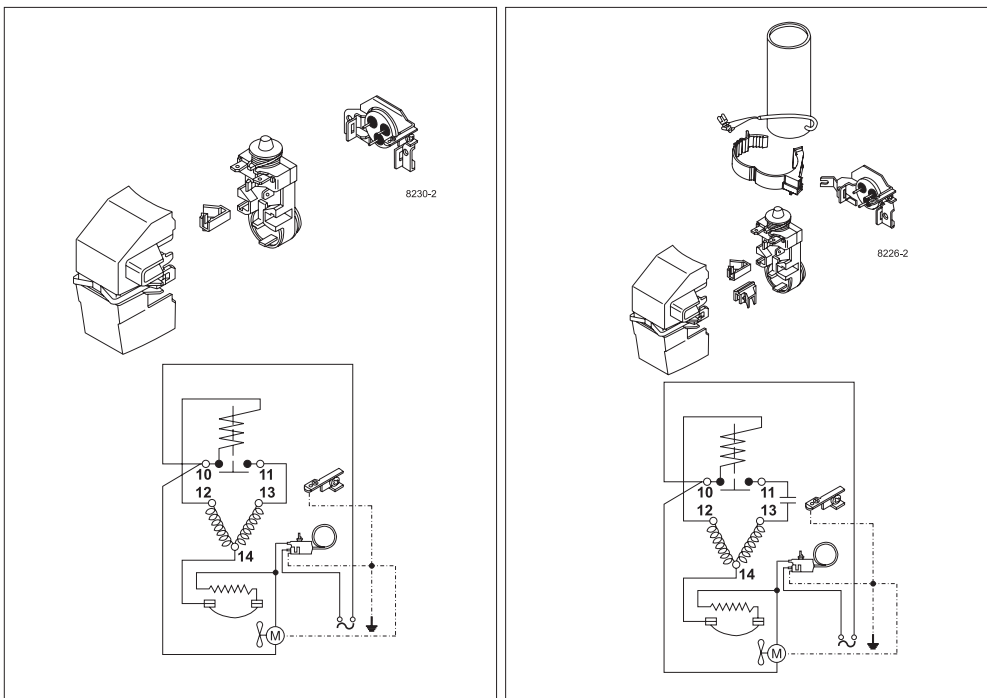


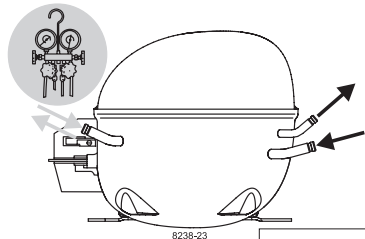
Accessories for NF7FX		Figure	Code number	Test conditions	ASHRAE LBP	ASHRAE MBP	EN 12900/CECOMAF
Starting relay	1/4 in. spade connect.	a2	117U4140	Condensing temp.	130°F	130°	131°F
Protector 3/4 in.	Texas Instruments		MRP59EN-6	Ambient temp.	90°F	95°	90°F
Cover		b	117U1023	Suction gas temp	90°F	95°	90°F
Start. capacitor 125 µF	1/4 in. spade connect.	c	117U5018	Liquid temperature	90°F	115°F	no subcooling
Cord relief		d	117U0349				
Cord relief capacitor		dc	117U0349				



# NF Compressors

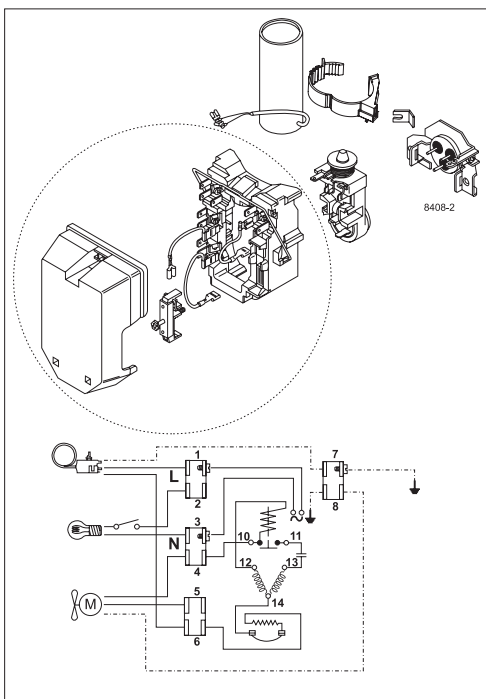
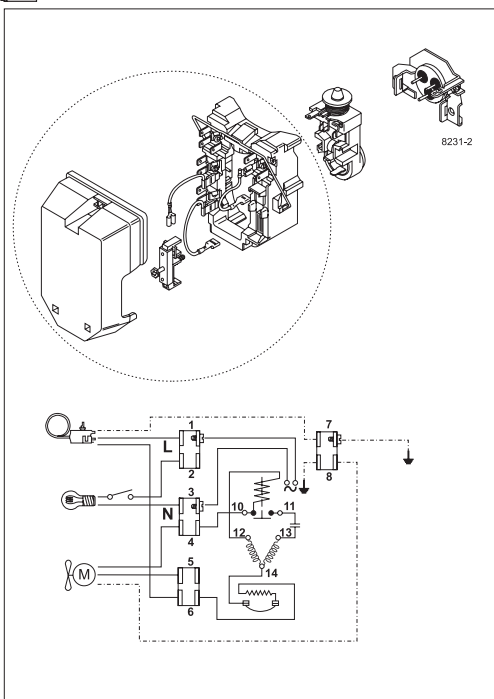
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