

## NF7FX Standard Compressor R134a 115-127V 60Hz

### General

Code number (pre-assembled CSIR start equipment)	105G5744
Approvals	UL984
Compressors on pallet	80

### Application

Application	LBP/MBP			
	Hz	50	60	
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-31 to 45	
Voltage range	V	-	95 - 135	
Max. condensing temperature continuous (short)	°F	-	140 (158)	
Max. winding temperature continuous (short)	°F	-	257 (275)	

### Cooling requirements

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

### Motor

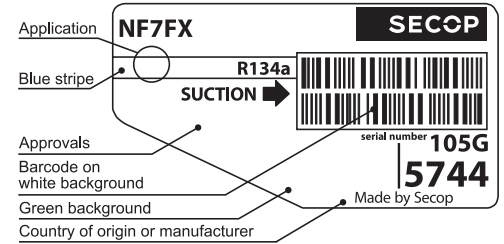
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	28.0	-
Cut in Current, HST   LST	A	28.0	-
Resistance, main   start winding (77°F)	Ω	1.9	6.6

### Design

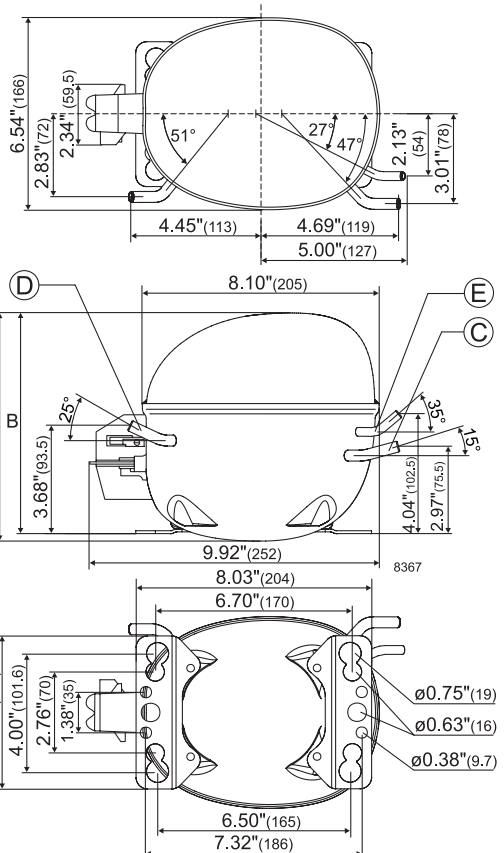
Displacement	cu.in	0.44
Oil quantity (type)	fl.oz.	9.13 (polyolester)
Maximum refrigerant charge	oz.	17.5
Free gas volume in compressor	fl.oz.	79.7
Weight without electrical equipment	lbs.	22.0

### Dimensions

Height	inch	A	7.76
		B	7.52
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**

115V, 60Hz, fan cooling F<sub>1</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h			414	618	782	858	1147	1495	1656	1918	2428	2544	3037	3383			
Power cons. in W			145	181	205	215	247	279	291	310	341	347	372	388			
Current cons. in A			2.97	3.14	3.26	3.32	3.50	3.70	3.78	3.90	4.11	4.16	4.33	4.45			
EER in BTU/Wh			2.85	3.42	3.82	4.00	4.63	5.36	5.69	6.19	7.12	7.33	8.16	8.72			

**ASHRAE MBP**

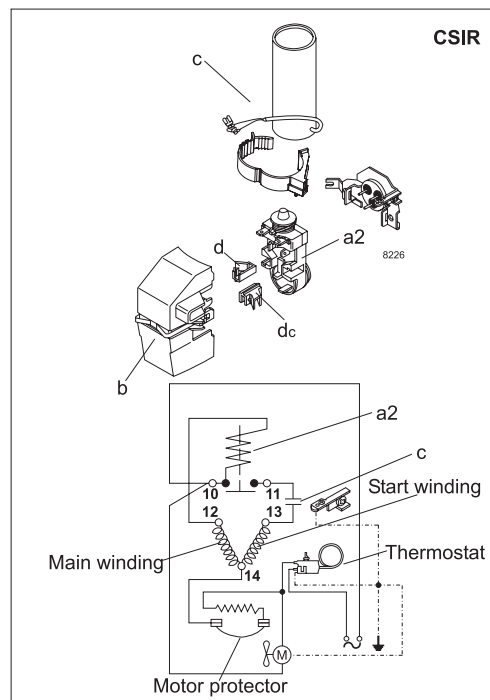
115V, 60Hz, fan cooling F<sub>1</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h			368	550	695	763	1019	1328	1475	1703	2153	2264	2692	2997			
Power cons. in W			145	181	205	215	247	279	291	310	341	347	372	388			
Current cons. in A			2.97	3.14	3.26	3.32	3.50	3.70	3.78	3.90	4.11	4.16	4.33	4.45			
EER in BTU/Wh			2.54	3.04	3.39	3.55	4.12	4.76	5.07	5.49	6.32	6.52	7.24	7.73			

**EN 12900 Household (CECOMAF)**

115V, 60Hz, fan cooling F<sub>1</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in W			98	147	186	204	272	355	396	454	574	606	717	799			
Power cons. in W			145	181	205	215	247	279	291	310	341	347	372	388			
Current cons. in A			2.97	3.14	3.26	3.32	3.50	3.70	3.78	3.90	4.11	4.16	4.33	4.45			
COP in W/W			0.67	0.81	0.90	0.94	1.10	1.27	1.36	1.46	1.68	1.75	1.92	2.05			



Accessories for	NF7FX	Figure	Code number	Test conditions	ASHRAE LBP	ASHRAE MBP	EN 12900/CECOMAF
Starting relay	1/4 in. spade connect.	a2	117U4061	Condensing temp.	130°F	130°F	131°F
Protector 3/4 in.	Texas Instruments		MRT26AFZ-6	Ambient temp.	90°F	95°F	90°F
Protector 3/4 in.	Electrica		T 0772/06	Suction gas temp.	90°F	95°F	90°F
Start. capacitor 280 µF	1/4 in. spade connect.	c	117U5025	Liquid temperature	90°F	115°F	131°F
Cover		b	117U1021	<b>Mounting accessories</b>			
Cord relief		d	117U0349	<b>Bolt joint for one comp.</b>		<b>Code number</b>	
Cord relief for capacitor		dc	117U0349	Ø: 5/8 in.		118-1917	
				Ø: 5/8 in.		118-1918	
				Ø: 5/8 in.		118-1919	

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