

## NF6FK Standard Compressor R134a 115-127V 60Hz

### General

Code number (pre-assembled CSIR start equipment)	105G5645
Approvals	UL984
Compressors on pallet	80

### Application

Application	Hz	LBP/MBP	
		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		-	-	-	S	S	-
100°F		-	-	-	S	S	-
110°F		-	-	-	F <sub>1</sub>	F <sub>1</sub>	-
Remarks on application:							

### Motor

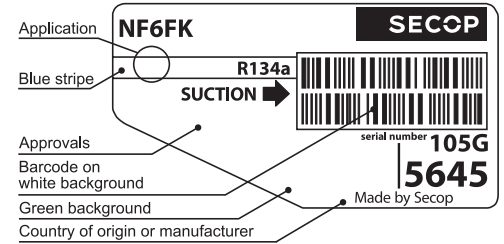
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	29.4
Cut in Current, HST   LST	A	-	29.4
Resistance, main   start winding (77°F)	Ω	2.0	9.1

### Design

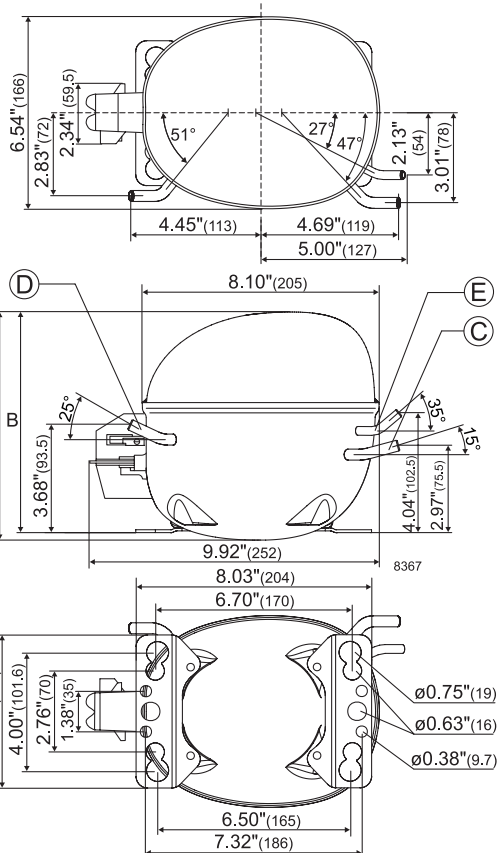
Displacement	cu.in	0.37
Oil quantity (type)	fl.oz.	9.13 (polyolester)
Maximum refrigerant charge	oz.	14.0
Free gas volume in compressor	fl.oz.	79.7
Weight without electrical equipment	lbs.	23.0

### Dimensions

Height	inch	A	7.72
		B	7.52
		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**

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			286	462	602	668	912	1206	1344	1560	1982	2081	2484	2768			
Power cons. in W			100	138	162	172	204	232	243	259	285	290	310	323			
Current cons. in A			2.33	2.49	2.60	2.65	2.82	3.00	3.08	3.19	3.39	3.43	3.59	3.69			
EER in BTU/Wh			2.87	3.35	3.71	3.87	4.48	5.19	5.53	6.01	6.95	7.17	8.00	8.57			

**ASHRAE MBP**

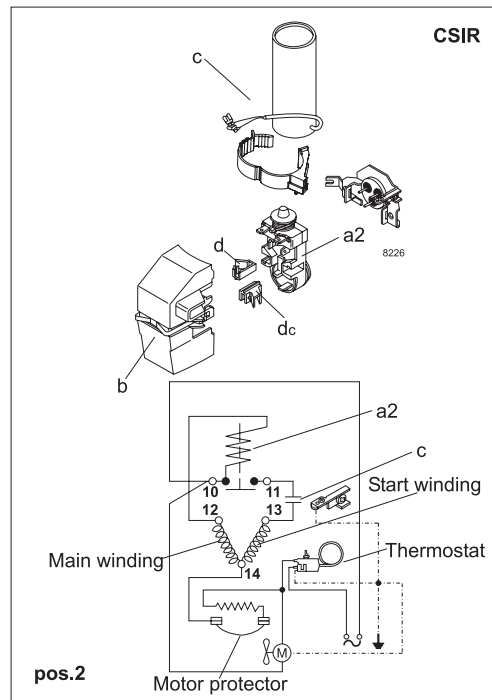
115V, 60Hz, fan cooling F<sub>1</sub>

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			254	411	535	593	811	1071	1194	1384	1758	1849	2202	2452			
Power cons. in W			100	138	162	172	204	232	243	259	285	290	310	323			
Current cons. in A			2.33	2.49	2.60	2.65	2.82	3.00	3.08	3.19	3.39	3.43	3.59	3.69			
EER in BTU/Wh			2.55	2.98	3.30	3.44	3.98	4.61	4.91	5.34	6.16	6.38	7.09	7.59			

**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			67	109	143	158	216	286	317	369	468	490	586	653			
Power cons. in W			100	138	162	172	204	232	244	259	285	291	310	323			
Current cons. in A			2.33	2.49	2.60	2.65	2.82	3.00	3.08	3.19	3.39	3.44	3.59	3.69			
COP in W/W			0.68	0.79	0.88	0.92	1.06	1.23	1.30	1.42	1.64	1.68	1.88	2.01			



Accessories for	NF6FK	Figure	Code number	Test conditions	ASHRAE LBP	ASHRAE MBP	EN 12900/CECOMAF
Starting relay	1/4 in. spade connect.	a2	117U4132	Condensing temp.	130°F	130°F	131°F
Protector 3/4 in.	Texas Instruments		MRT30AEZ-6	Ambient temp.	90°F	95°F	90°F
Start. capacitor 320 µF	1/4 in. spade connect.	c	117U5022	Suction gas temp.	90°F	95°F	90°F
Cord relief for capacitor		dc	117U0349	Liquid temperature	90°F	115°F	131°F
Cord relief		d	117U0349				
Cover		b	117U1021				
<b>Mounting accessories</b>					<b>Code number</b>		
Bolt joint for one comp.					Ø: 5/8 in.	118-1917	
Bolt joint in quantities					Ø: 5/8 in.	118-1918	
Snap-on in quantities					Ø: 5/8 in.	118-1919	

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