

NF8.4FX.2 Standard Compressor R134a 115-127V 60Hz

General

Code number	105G5918
Approvals	UL984
Compressors on pallet	80

Application

Application	LBP/MBP			
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		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		-	-	-	F ₂	F ₁	-
100°F		-	-	-	F ₂	F ₁	-
110°F		-	-	-	F ₂	F ₁	-
Remarks on application:							

Motor

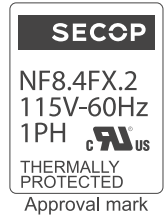
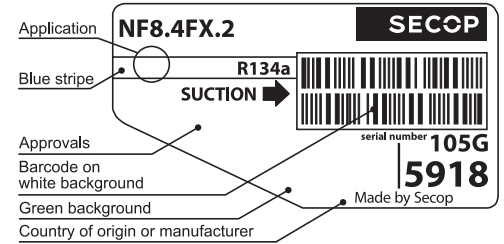
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	28.0	-
Cut in Current, HST LST	A	28.0	-
Resistance, main start winding (77°F)	Ω	1.9	6.6

Design

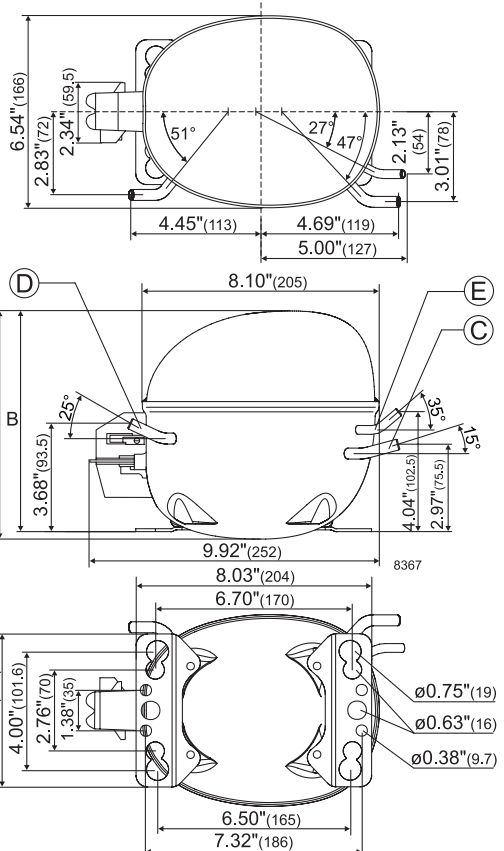
Displacement	cu.in	0.51
Oil quantity (type)	fl.oz.	9.13 (polyolester)
Maximum refrigerant charge	oz.	14.0
Free gas volume in compressor	fl.oz.	79.7
Weight without electrical equipment	lbs.	22.0

Dimensions

Height	inch	A	7.76
		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
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



ASHRAE LBP

115V, 60Hz, fan cooling F₁

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			486	729	933	1030	1398	1843	2044	2373	2996	3724	3802	4129			
Power cons. in W			165	208	236	248	286	323	338	361	401	444	448	467			
Current cons. in A			3.38	3.52	3.63	3.68	3.86	4.08	4.17	4.31	4.58	4.87	4.90	5.02			
EER in BTU/Wh			2.95	3.51	3.95	4.16	4.89	5.71	6.05	6.57	7.48	8.39	8.48	8.84			

ASHRAE MBP

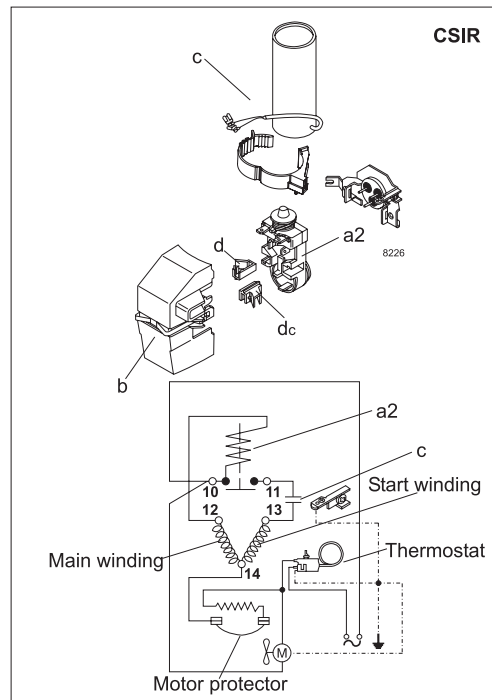
115V, 60Hz, fan cooling F₁

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			432	648	829	915	1243	1637	1815	2106	2658	3300	3370	3658			
Power cons. in W			165	208	236	248	286	323	338	361	401	444	448	467			
Current cons. in A			3.38	3.52	3.63	3.68	3.86	4.08	4.17	4.31	4.58	4.87	4.90	5.02			
EER in BTU/Wh			2.62	3.12	3.51	3.69	4.35	5.07	5.37	5.83	6.63	7.44	7.52	7.83			

EN 12900 Household (CECOMAF)

115V, 60Hz, fan cooling F₁

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in W			115	172	221	244	331	436	484	561	709	880	899	975			
Power cons. in W			164	207	236	248	286	324	339	362	402	446	450	469			
Current cons. in A			3.38	3.52	3.63	3.68	3.87	4.08	4.18	4.32	4.59	4.88	4.91	5.03			
COP in W/W			0.70	0.83	0.94	0.98	1.16	1.35	1.43	1.55	1.76	1.97	2.00	2.08			



Accessories for	NF8.4FX.2	Figure	Code number	Test conditions	ASHRAE LBP	ASHRAE MBP	EN 12900/CECOMAF
Starting relay	1/4 in. spade connect.	a2	117U4129	Condensing temp.	130°F	130°F	131°F
Protector 3/4 in.	Texas Instruments		MRT22AFZ-6	Ambient temp.	90°F	95°F	90°F
Start. capacitor 280 µF	1/4 in. spade connect.	c	117U5025	Suction gas temp.	90°F	95°F	90°F
Cover		b	117U1021	Liquid temperature	90°F	115°F	no subcooling
Cord relief		d	117U0349	Mounting accessories			
Cord relief for capacitor		dc	117U0349	Code number			
				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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