

# NF5.5CLX LBP/MBP Compressor R404A/R507 115V 60Hz



## General

Code number	105F1621
Approvals	UL984
Compressors on pallet	80

## Application

Application	LBP/MBP			
	Hz	50	60	
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-49 to 45	
Voltage range	V	-	95 - 135	
Max. condensing temperature continuous (short)	°F	-	122 (140)	
Max. winding temperature continuous (short)	°F	-	257 (275)	

## Cooling requirements

Frequency	Hz	50			60		
		LBP	MBP	HBP	LBP	MBP	HBP
90°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
100°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
110°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
Remarks on application: MBP 108 - 135V, 60Hz							

## Motor

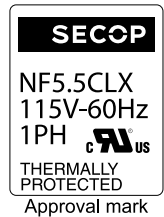
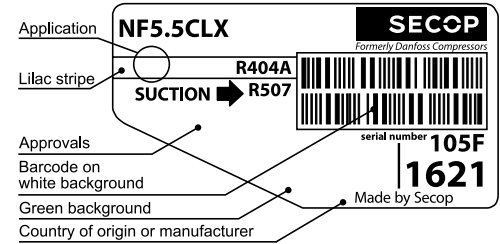
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	30.0	-
Cut in Current, HST   LST	A	30.0	-
Resistance, main   start winding (77°F)	Ω	1.9	6.6

## Design

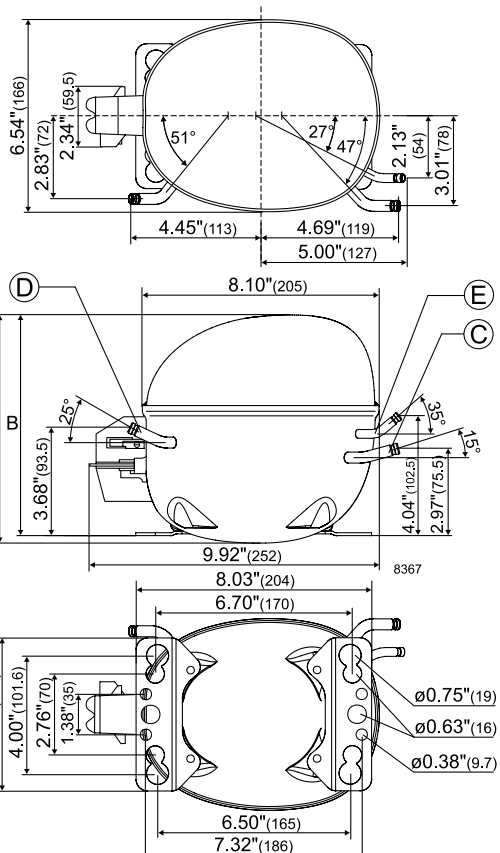
Displacement	cu.in	0.37
Oil quantity (type)	fl.oz.	10.8 (polyolester)
Maximum refrigerant charge	oz.	14.0
Free gas volume in compressor	fl.oz.	76.9
Weight without electrical equipment	lbs.	22.2

## 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		Cu-plated steel   Al cap
Process connector	location, I.D. in.   angle	D	0.252-0.259   25°
	material   comment		Cu-plated steel   Al cap
Discharge connector	location, I.D. in.   angle	E	0.252-0.259   35°
	material   comment		Cu-plated steel   Al cap
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>2</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	398	565	788	1056	1274	1376	1756	2202	2401	2723	3325	4017	4092	4399			
Power cons. in W	155	185	219	253	277	288	324	362	378	404	449	498	503	524			
Current cons. in A	3.35	3.43	3.54	3.69	3.82	3.88	4.09	4.34	4.45	4.63	4.94	5.29	5.33	5.48			
EER in BTU/Wh	2.57	3.05	3.59	4.17	4.60	4.78	5.42	6.08	6.35	6.75	7.41	8.07	8.13	8.39			

**ASHRAE MBP**

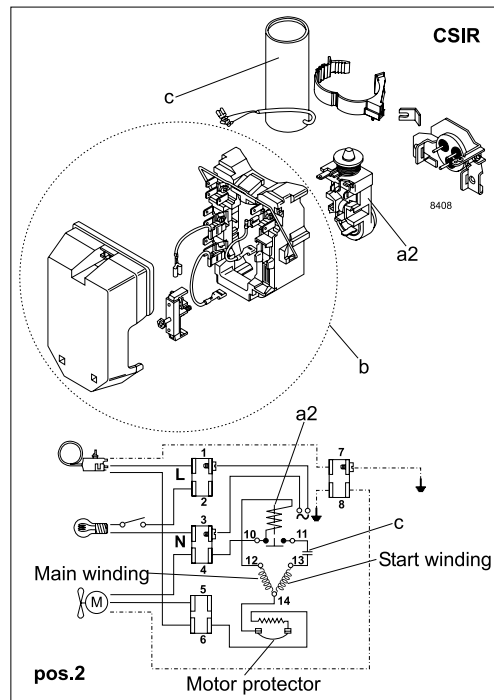
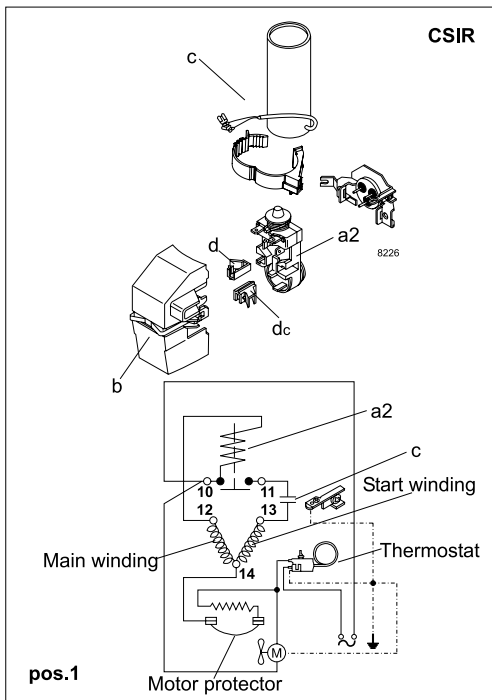
115V, 60Hz, fan cooling F<sub>2</sub>

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	261	397	579	799	980	1065	1384	1763	1933	2209	2730	3334	3399	3669			
Power cons. in W	142	179	218	257	285	297	338	382	400	428	477	530	536	559			
Current cons. in A	3.32	3.42	3.57	3.75	3.90	3.96	4.21	4.49	4.62	4.81	5.16	5.54	5.58	5.74			
EER in BTU/Wh	1.83	2.22	2.65	3.11	3.44	3.58	4.09	4.62	4.84	5.17	5.72	6.29	6.34	6.56			

**EN 12900 Household (CECOMAF)**

115V, 60Hz, fan cooling F<sub>2</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	332	477	669	901	1089	1177	1504	1889	2060	2337	2854	3446	3510	3772			
Power cons. in W	153	185	219	254	279	290	327	366	382	408	454	504	509	530			
Current cons. in A	3.35	3.43	3.55	3.70	3.83	3.89	4.11	4.37	4.48	4.65	4.98	5.33	5.37	5.52			
EER in BTU/Wh	2.17	2.58	3.05	3.54	3.91	4.06	4.61	5.17	5.39	5.73	6.29	6.84	6.90	7.11			



Accessories for	NF5.5CLX	Figure	Code number
Starting relay	1/4 in. spade connect.	a2	117U4061
Protector 3/4 in.	Texas Instruments		MRP30AEN-6
Cover (standard)		b	117U1021
Cord relief		d	117U0349
Cord relief for capacitor		dc	117U0349
Cover (alternative) with terminal board		(pos.1)	
Cover (alternative) with terminal board		b	117U1024
Start. capacitor 280 µF	1/4 in. spade connect.	c	117U5025

Test conditions	ASHRAE LBP*	ASHRAE MBP	EN 12900/CECOMAF
Condensing temp.	110°F	130°F	113°F
Ambient temp.	90°F	95°F	90°F
Suction gas temp.	90°F	95°F	90°F
Liquid temperature	90°F	115°F	113°F

Mounting accessories	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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