

## SC12CLX.2 LBP Compressor R404A/R507 115V 60Hz

### General

Code number	104L1686
Approvals	UL984
Compressors on pallet	80

### Application

Application	LBP			
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-49 to 14	
Voltage range	V	-	95 - 135	
Max. condensing temperature continuous (short)	°F	-	131 (140)	
Max. winding temperature continuous (short)	°F	-	257 (275)	

### Cooling requirements

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

### Motor

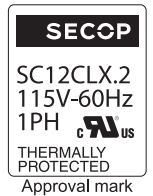
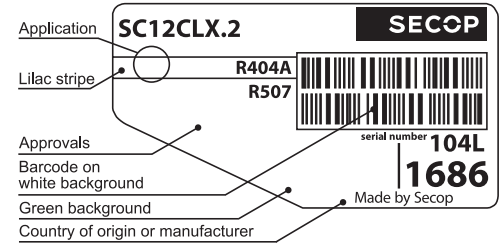
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	41.9	-
Cut in Current, HST   LST	A	41.9	-
Resistance, main   start winding (77°F)	Ω	1.0	4.3

### Design

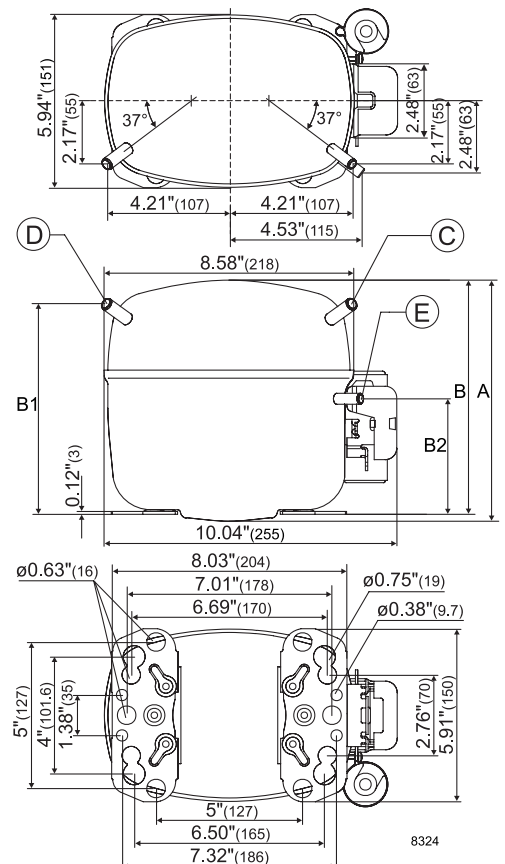
Displacement	cu.in	0.78
Oil quantity (type)	fl.oz.	18.6 (polyolester)
Maximum refrigerant charge	oz.	45.8
Free gas volume in compressor	fl.oz.	51.1
Weight without electrical equipment	lbs.	27.7

### Dimensions

Height	inch	A	8.23
		B	8.00
		B1	7.20
		B2	3.93
Suction connector	location, I.D. in.   angle	C	0.378-0.385   37°
	material   comment		Copper   Rubber plug
Process connector	location, I.D. in.   angle	D	0.252-0.259   37°
	material   comment		Copper   Rubber plug
Discharge connector	location, I.D. in.   angle	E	0.252-0.259   37°
	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>2</sub>

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	35	517	1095	1738	2237	2466	3299	4260	4685								
Power cons. in W	161	291	417	530	604	634	735	837	879								
Current cons. in A	5.04	5.44	5.96	6.54	7.00	7.20	7.93	8.73	9.07								
EER in BTU/Wh	0.21	1.78	2.62	3.28	3.71	3.89	4.49	5.09	5.33								

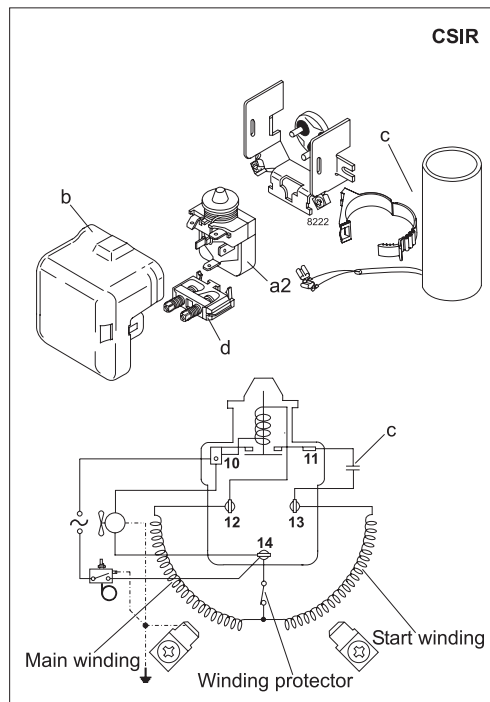
**ASHRAE LBP\***

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

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in BTU/h	481	898	1420	2020	2496	2716	3525	4464	4880								
Power cons. in W	258	353	448	534	593	618	705	799	840								
Current cons. in A	5.41	5.70	6.10	6.57	6.94	7.11	7.72	8.41	8.70								
EER in BTU/Wh	1.86	2.54	3.17	3.78	4.21	4.39	5.00	5.59	5.81								

**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	40	41	45	50	59	68
Capacity in BTU/h	363	731	1188	1711	2123	2314	3011	3819	4176								
Power cons. in W	245	346	444	535	595	621	709	804	845								
Current cons. in A	5.35	5.66	6.08	6.57	6.95	7.12	7.76	8.46	8.76								
EER in BTU/Wh	1.48	2.11	2.67	3.20	3.57	3.72	4.24	4.75	4.94								



Accessories for	SC12CLX.2	Figure	Code number
PTC starting device	1/4 in. spade connect.	-	-
	3/16 in. spade connect.		-
Starting relay	1/4 in. spade connect.	a2	117U6020
Cover		b	103N2008
Start. capacitor 240 µF	1/4 in. spade connect.	c	117U5023
Cord relief		d	103N1004
Protection screen for PTC		-	-

Test conditions	ASHRAE LBP	ASHRAE LBP*	EN 12900/CECOMAF*
Condensing temp.	130°F	110°F	113°F
Ambient temperature	90°F	90°F	90°F
Suction gas temp.	90°F	90°F	90°F
Liquid temperature	90°F	90°F	no subcooling

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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