

# SC10CLX LBP/MBP Compressor R404A/R507 220-240V 50/60Hz

## General

Code number	104L2536
Approvals	EN 60335-2-34, UL984
Compressors on pallet	80

## Application

Application	LBP/MBP						
Frequency	Hz	50			60		
Evaporating temperature	°C	-35 to 5			-35 to -5		
Voltage range	V	198 - 254			198 - 254		
Max. condensing temperature continuous (short)	°C	50 (60)			50 (60)		
Max. winding temperature continuous (short)	°C	125 (135)			125 (135)		

## Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		F <sub>2</sub>	F <sub>2</sub>	-	F <sub>2</sub>	F <sub>2</sub>	-
38°C		F <sub>2</sub>	F <sub>2</sub>	-	F <sub>2</sub>	F <sub>2</sub>	-
43°C		-	-	-	-	-	-
Remarks on application:							

## Motor

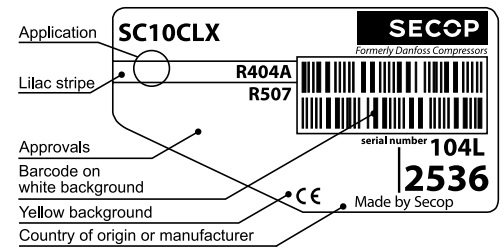
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	14.8	-
Cut in Current, HST   LST	A	14.8	-
Resistance, main   start winding (25°C)	Ω	5.0	13.7

## Design

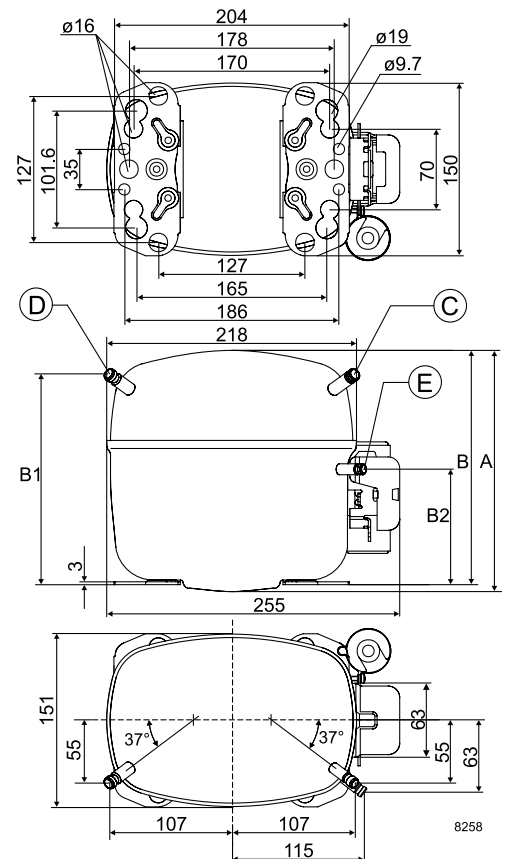
Displacement	cm <sup>3</sup>	10.29
Oil quantity (type)	cm <sup>3</sup>	550 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm <sup>3</sup>	1460
Weight without electrical equipment	kg	13.1

## Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
Suction connector	location/I.D. mm   angle	C	8.2   37°
	material   comment	Cu-plated steel   Al cap	
Process connector	location/I.D. mm   angle	D	6.5   37°
	material   comment	Cu-plated steel   Al cap	
Discharge connector	location/I.D. mm   angle	E	6.5   37°
	material   comment	Cu-plated steel   Al cap	
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment	-	
Connector tolerance	I.D. mm		±0.09
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\***

 230V, 60Hz, fan cooling F<sub>2</sub>

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			274	399	537	587	690	862	1057	1200	1279						
Power cons. in W			312	374	430	449	487	547	617	670	700						
Current cons. in A			2.21	2.37	2.55	2.62	2.76	3.00	3.27	3.46	3.57						
COP in W/W			0.88	1.07	1.25	1.31	1.42	1.57	1.71	1.79	1.83						

**ASHRAE LBP\***

 220V, 50Hz, fan cooling F<sub>2</sub>

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			202	306	428	474	571	738	930	1071	1149	1399	1682				
Power cons. in W			260	304	353	370	404	455	503	533	548	585	614				
Current cons. in A			2.01	2.16	2.32	2.38	2.50	2.70	2.92	3.08	3.16	3.42	3.69				
COP in W/W			0.78	1.01	1.21	1.28	1.42	1.62	1.85	2.01	2.10	2.39	2.74				

**EN 12900 Household (CECOMAF)**

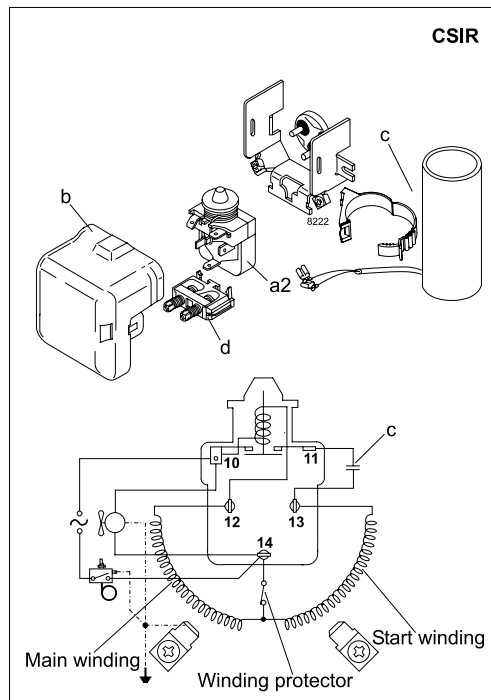
 230V, 60Hz, fan cooling F<sub>2</sub>

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			224	335	455	499	588	738	906	1028	1096						
Power cons. in W			304	370	430	450	489	552	623	677	707						
Current cons. in A			2.19	2.36	2.55	2.62	2.77	3.02	3.30	3.50	3.61						
COP in W/W			0.74	0.90	1.06	1.11	1.20	1.34	1.45	1.52	1.55						

**EN 12900 Household (CECOMAF)**

 220V, 50Hz, fan cooling F<sub>2</sub>

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			166	255	360	400	483	625	789	910	977	1190	1430				
Power cons. in W			258	302	352	369	404	457	508	540	556	597	631				
Current cons. in A			2.00	2.15	2.32	2.38	2.51	2.72	2.94	3.10	3.19	3.45	3.73				
COP in W/W			0.64	0.84	1.02	1.08	1.20	1.37	1.55	1.68	1.76	1.99	2.27				



Accessories for	SC10CLX	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE LBP*
PTC starting device	6.3 mm spade connectors	a1	-	Condensing temperature	45°C	43.3°C
	4.8 mm spade connectors		-	Ambient temperature	32°C	32°C
Starting relay	6.3 mm spade connectors	a2	117U6005	Suction gas temperature	32°C	32°C
Cover		b	103N2008	Liquid temperature	no subcooling	32°C
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017			
Cord relief		d	103N1004			
Protection screen for PTC		g	-			
				<b>Mounting accessories</b>	<b>Code number</b>	
				Bolt joint for one comp.	Ø: 16 mm	118-1917
				Bolt joint in quantities	Ø: 16 mm	118-1918
				Snap-on in quantities	Ø: 16 mm	118-1919

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