

## Single Pack FR7.5CL 220-240V 50Hz CSIR

Single pack code number: **195B4181**

Position	Title	Code	Amount
1	Compressor FR7.5CL	103U2790	1
2	Starting relay	117U6016	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5015	1
4	Cord relief	103N1010	1
5	Cover	103N2011	1
6	Bolt joint for one compressor   M6   ø16mm	118-1917	1

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**FR7.5CL**  
**LBP/MBP Compressor**  
**R404A/R507**  
**220-240V 50Hz**

## General

Code number	103U2790
Approvals	EN 60335-2-34
Compressors on pallet	80

## Application

Application		LBP/MBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-45 to -5	—
Voltage range	V	198 - 254	—
Max. condensing temperature continuous (short)	°C	50 (60)	—
Max. winding temperature continuous (short)	°C	125 (135)	—

### Cooling requirements

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

## Motor

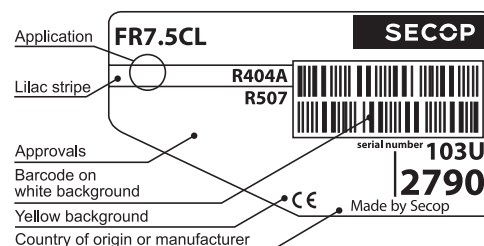
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	9.1	–
Cut in Current, HST   LST	A	9.1	–
Resistance, main   start winding (25°C)	Ω	8.8	12.0

## Design

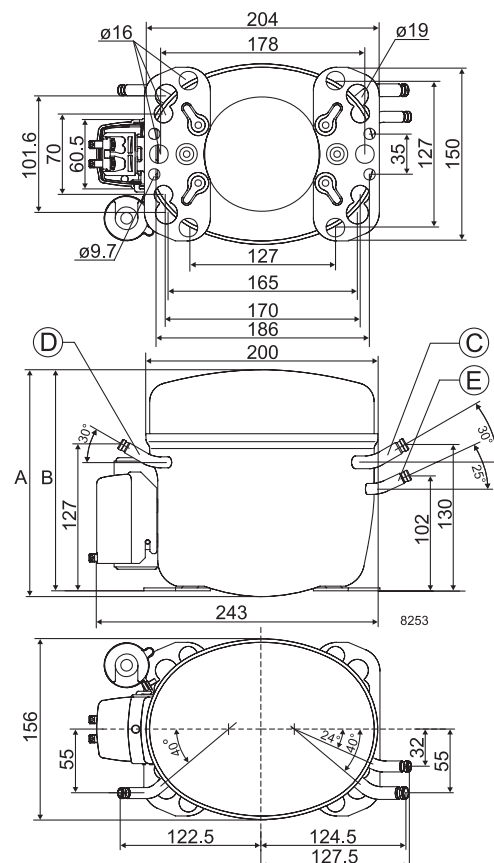
Displacement	cm <sup>3</sup>	6.93
Oil quantity (type)	cm <sup>3</sup>	450 (polyolester)
Maximum refrigerant charge	g	850
Free gas volume in compressor	cm <sup>3</sup>	1350
Weight without electrical equipment	kg	10.6

## Dimensions

Dimensions		mm	
Height		A	196
		B	191
		B1	–
		B2	–
Suction connector	location/I.D. mm   angle	C	8.2   30°
	material   comment	Cu-plated steel   Al cap	
Process connector	location/I.D. mm   angle	D	6.2   30°
	material   comment	Cu-plated steel   Al cap	
Discharge connector	location/I.D. mm   angle	E	6.2   25°
	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



**EN 12900 Household (CECOMAF)**

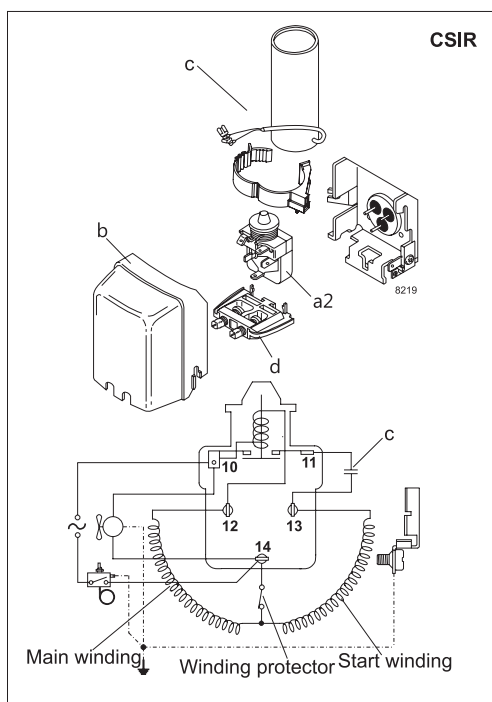
 220V, 50Hz, fan cooling F<sub>2</sub>

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	86	114	154	202	262	285	333	418	515	587	630						
Power cons. in W	142	168	197	231	267	280	307	349	395	425	440						
Current cons. in A	1.39	1.44	1.52	1.62	1.75	1.81	1.91	2.09	2.28	2.43	2.51						
COP in W/W	0.61	0.68	0.78	0.88	0.98	1.02	1.09	1.20	1.30	1.38	1.43						

**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	101	132	178	235	305	333	388	488	602	688	737						
Power cons. in W	142	168	197	231	267	280	307	349	395	425	440						
Current cons. in A	1.39	1.44	1.52	1.62	1.75	1.81	1.91	2.09	2.28	2.44	2.51						
COP in W/W	0.71	0.79	0.90	1.02	1.14	1.19	1.27	1.40	1.53	1.62	1.67						



Accessories for	FR7.5CL	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE LBP*
PTC starting device	6.3 mm spade connectors	a1	—	Condensing temperature	45°C	45°C
	4.8 mm spade connectors		—	Ambient temperature	32°C	32°C
Starting relay	6.3 mm spade connectors	a2	117U6016	Suction gas temperature	32°C	32°C
Cover		b	103N2010	Liquid temperature	no subcooling	32°C
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5015	<b>Mounting accessories</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		
Cord relief		d	103N1010			
Protection screen for PTC		g	—			

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