# Single Packs



## Single Pack FR8.5CL 220-240V 50Hz CSIR

Single pack code number: 195B4038

Position	Title	Code	Amount
1	Compressor FR8.5CL	103U2890	1
2	Starting relay	117U6010	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5015	1
4	Cord relief	103N1010	1
5	Cover	103N2010	1
6	Bolt joint for one compressor   M6   ø16mm	118-1917	1

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### FR8.5CL LBP Compressor R404A/R507 220-240V 50Hz

#### General

Code number	103U2890
Approvals	EN 60335-2-34
Compressors on pallet	80

#### Application

Application		LBP			
Frequency	Hz	50	60		
Evaporating temperature	°C	-45 to -10	_		
Voltage range	V	198 - 254	_		
Max. condensing temperature continuous (short)	°C	50 (60)	_		
Max. winding temperature continuous (short)	°C	125 (135)	_		

**Cooling requirements** 

Application         LBP MBP HBP LBP MBP HBP         HBP HBP LBP MBP HBP           32°C         F2            38°C         F2            43°C	Frequency	Hz		50			60	
38°C	Application		LBP	MBP	HBP	LBP	MBP	HBP
	32°C		F <sub>2</sub>	_	_	_	_	_
43°C	38°C		F <sub>2</sub>	_	_	_	_	_
	43°C		_	_	_	_	_	_

Remarks on application:

Application FR8.5CL

Lilac stripe R404A
R507

Approvals

Barcode on white background

Yellow background

Country of origin or manufacturer

SECOP

R404A
R507

Made by Secop

S = Static cooling normally sufficient

= 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 sufficent

= not applicable in this area

#### Motor

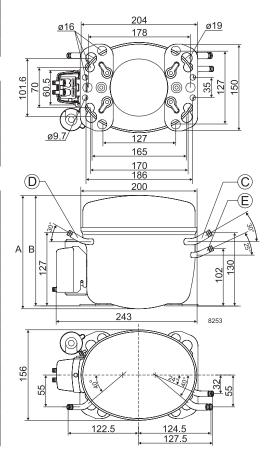
Motor type	CSIR			
LRA (rated after 4 sec. UL984), HST   LST	Α	10.0	_	
Cut in Current, HST   LST	А	10.0	-	
Resistance, main   start winding (25°C)	Ω	7.3	12.0	

#### Design

Displacement	cm <sup>3</sup>	7.95
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**

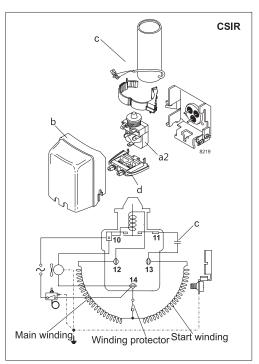
Height	mm	Α	196
		В	191
		B1	_
		B2	_
Suction connector	location/I.D. mm   angle	С	8.2   30°
	material   comment	Cu-p	olated steel   Al cap
Process connector	location/I.D. mm   angle	D	6.2   30°
	material   comment	Cu-p	olated steel   Al cap
Discharge connector	location/I.D. mm   angle	E	6.2   25°
	material   comment	Cu-p	olated steel   Al cap
Oil cooler connector	location/I.D. mm   angle	F	_
	material   comment		_
Connector tolerance	I.D. mm		±0.09
Remarks:			



EN 12900 Househol	ld (CEC	COMAF	)	220V,	50Hz, f	an cooli	ng 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	
Capacity in W	99	126	168	222	290	317	372	468	577								
. 144	4-74	400	004	074	0.45	004	004	447	470								

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	99	126	168	222	290	317	372	468	577								
Power cons. in W	171	198	231	271	315	331	364	417	472								
Current cons. in A	1.61	1.64	1.72	1.83	1.97	2.03	2.15	2.35	2.57								
COP in W/W	0.58	0.64	0.72	0.82	0.92	0.96	1.02	1.12	1.22								

ASHRAE LBP*				220V,	50Hz, f	an cool	ing 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	115	147	195	259	338	369	434	546	674								
Power cons. in W	171	198	231	271	315	331	364	417	472								
Current cons. in A	1.61	1.64	1.72	1.83	1.97	2.03	2.15	2.35	2.57								
COP in W/W	0.67	0.74	0.84	0.96	1.07	1.11	1.19	1.31	1.43								



Accessories for	FR8.5CL	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	_
	4.8 mm spade connectors	аі	_
Starting relay	6.3 mm spade connectors	a2	117U6010
Cover		b	103N2010
Start. capacitor 80 µl	6.3 mm spade connectors	С	117U5015
Cord relief		d	103N1010
Protection screen for	PTC	g	_

Test conditions	EN 12900/CECOMAF	ASHRAE LBP*			
Condensing temperature	45°C	45°C			
Ambient temperature	32°C	32°C			
Suction gas temperature	32°C	32°C			
Liquid temperature	no subcooling	32°C			

Mounting accessories		Code number
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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