

SC12/12DL MBP/HBP Twin Compressor R404A/R507 & R407C 220-240V 50Hz

General

Code number	104L4092
Approvals	EN 60335-2-34
Compressors on pallet	18

Application

Application		MBP/HBP				
Frequency	Hz	50	60			
Evaporating temperature	°C	-20 to 15	_			
Voltage range	V	198 - 254	_			
Max. condensing temperature continuous (short)	°C	55 (60)	_			
Max. winding temperature continuous (short)	°C	125 (135)	_			

Cooling requirements

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

Motor

Motor type						
LRA (rated after 4 sec. UL984) *, HST LST	Α	2 x 18.6	_			
Cut in Current *, HST LST	Α	2 x 18.6	_			
Resistance, main start winding (25°C)	Ω	3.7	14.1			

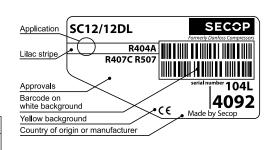
 $\ensuremath{^{\star}}$ Operational current for the second compressor time-delayed.

Design

Displacement	cm ³	2 x 12.87
Oil quantity (type)	cm ³	1220 (polyolester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm ³	2920
Weight without electrical equipment	kg	27.8

Dimensions

Diffictions				
Height		mm	Α	249
			В	244
			В1	183
			B2	100
Suction connector (service va	ılve)	location/I.D. mm	С	12 37°
Suction connector (solder cor	nector)	location/I.D. mm	С	12 37°
Process connector	location	on/I.D. mm angle	D	6.2 37°
	n	naterial comment		Cu-plated steel Al cap
Discharge connector	location	on/I.D. mm angle	Е	6.2 37°
	n	naterial comment		Cu-plated steel Al cap
Oil cooler connector	location	on/I.D. mm angle	F	-
	n	naterial comment		<u>-</u>
Connector tolerance		I.D. mm		±0.09
Remarks:				



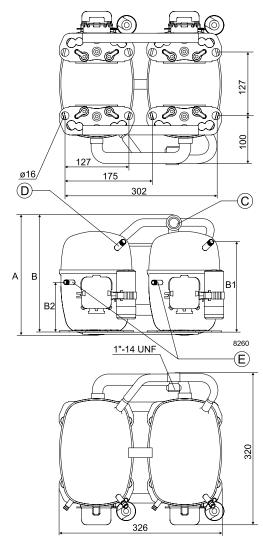
= Static cooling normally sufficient

O = Oil cooling

F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)

F₂ = Fan cooling 3.0 m/s necessary SG = Suction gas cooling normally sufficent

= not applicable in this area

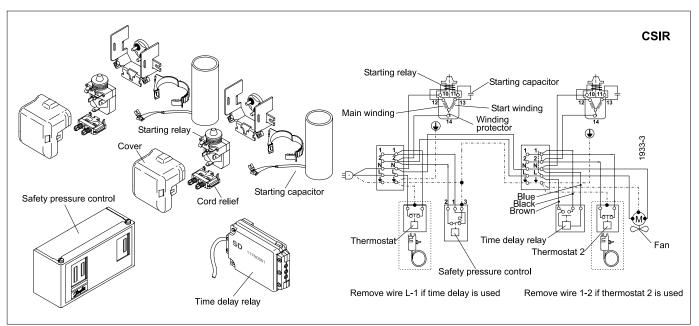


EN 12900 Household (CECOMAF)	220V, 50Hz, fan cooling F ₂
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Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W							1217	1612	2055	2380	2559	3130	3780	4092	4516	5348	
Power cons. in W							978	1125	1248	1317	1349	1433	1500	1526	1555	160	
Current cons. in A							6.74	7.29	7.78	8.07	8.21	8.58	8.88	9.00	9.13	9.31	
COP in W/W							1.24	1.43	1.65	1.81	1.90	2.18	2.52	2.68	2.90	3.34	

fan cooling F
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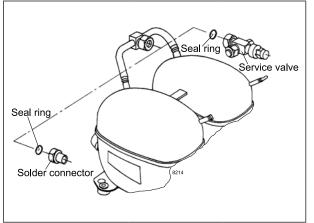
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W							1414	1874	2393	2761	2982	3654	4421	4791	5294	6287	
Power cons. in W							978	1125	1248	1317	1349	1433	1500	1526	1555	160	
Current cons. in A							6.74	7.29	7.78	8.07	8.21	8.58	8.88	9.00	9.13	9.31	
COP in W/W							1.45	1.67	1.92	2.10	2.21	2.55	2.95	3.14	3.40	3.93	



Accessories	pcs.	Code number					
Starting device	Starting device 470 mm cable length						
	550 mm cable length	2	_				
	650 mm cable length		_				
Starting relay	6.3 mm spade connectors	2	117U6019				
Start. capacitor 80 µF	6.3 mm spade connectors	2	117U5017				
Cover		2	103N2009				
Cord relief		2	103N1004				
Time-delay relay		1	117N0001				
Check valve (to be used	d with time-delay relay)	2	020-1014				
Service valve	12 mm	1	118-7350				
Solder connector (altern	native) 12 mm	1	104B0584				
Service valve	16 mm	1	_				
Solder connector (altern	native) 16 mm	1	_				
Seal ring for service val	1	118-3638					

Mounting accessories		pcs.	Code number
Bolt joint for one compressor	Ø: 16 mm	2	118-1917
Bolt joint in quantities	Ø: 16 mm	2	118-1918

Test conditions	EN 12900/ CECOMAF	ASHRAE MBP/HBP
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



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