

SC12/12CL LBP/MBP Twin Compressor R404A/R507 220-240V 50Hz

General

Code number	104L4088
Approvals	EN 60335-2-34
Compressors on pallet	18

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	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	CSIR		
LRA (rated after 4 sec. UL984) *, HST LST	A	2 x 14.8	-
Cut in Current *, HST LST	A	2 x 14.8	-
Resistance, main start winding (25°C)	Ω	5.0	13.7

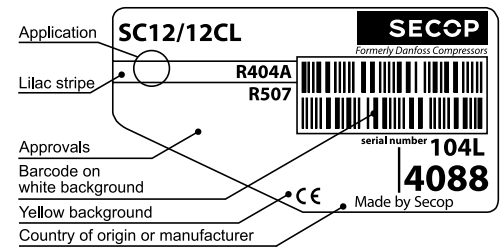
* Operational current for the second compressor time-delayed.

Design

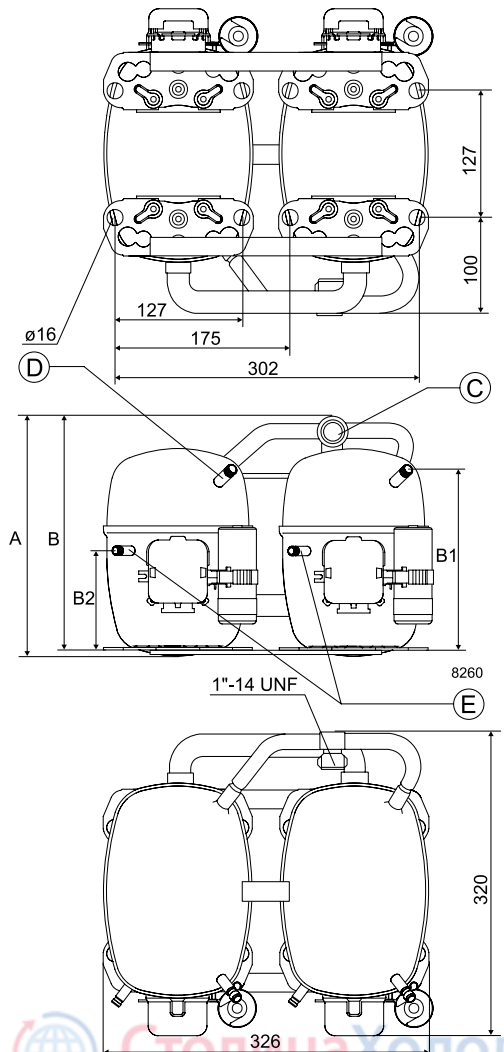
Displacement	cm ³	2 x 12.87
Oil quantity (type)	cm ³	1220 (polyolester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm ³	2820
Weight without electrical equipment	kg	27.3

Dimensions

Height	mm	A	249
		B	244
		B1	183
		B2	100
Suction connector (service valve)	location/I.D. mm	C	12 37°
Suction connector (solder connector)	location/I.D. mm	C	12 37°
Process connector	location/I.D. mm angle	D	6.2 37°
	material comment		Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	E	6.2 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
- 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 sufficient
- = not applicable in this area

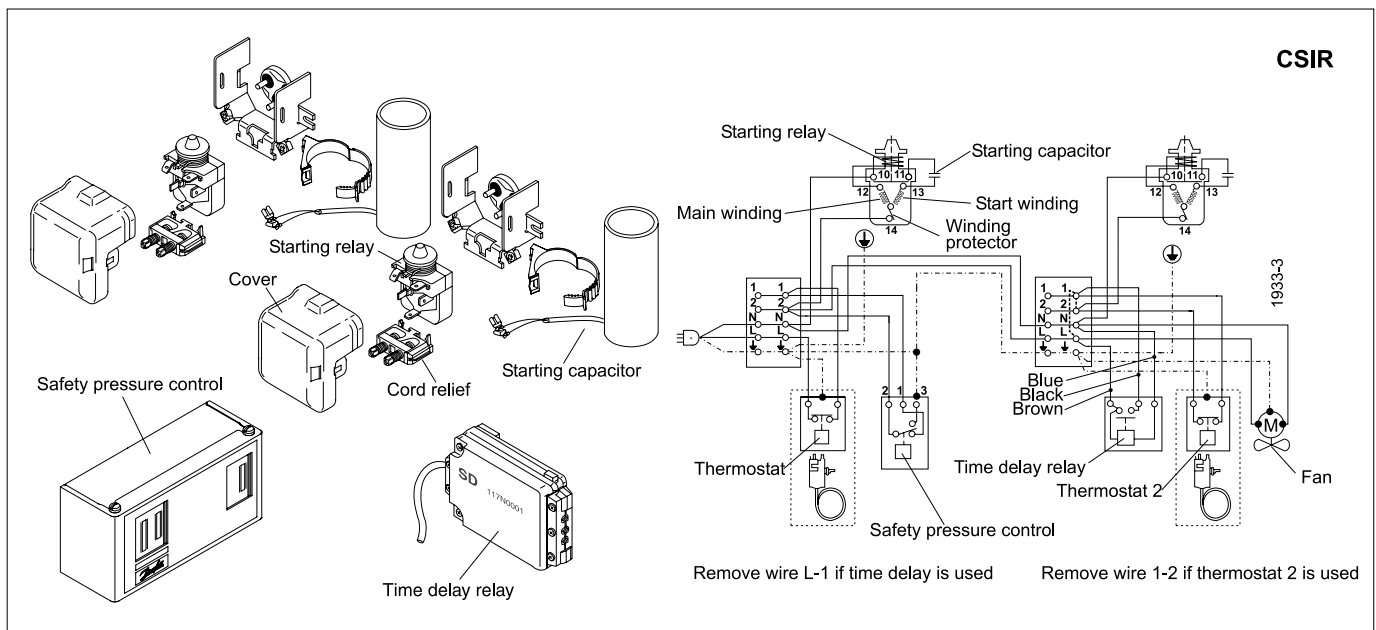


EN 12900 Household (CECOMAF)* 220V, 50Hz, fan cooling F₂

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	279	475	706	980	1083	1299	1670	2096	2411	2583						
Power cons. in W	379	506	633	761	891	936	1024	1163	1308	1407	1460						
Current cons. in A	4.30	4.55	4.85	5.22	5.64	5.80	6.13	6.67	7.27	7.71	7.94						
COP in W/W	0.30	0.55	0.75	0.93	1.10	1.16	1.27	1.44	1.60	1.71	1.77						

ASHRAE LBP/MBP 220V, 50Hz, fan cooling F₂

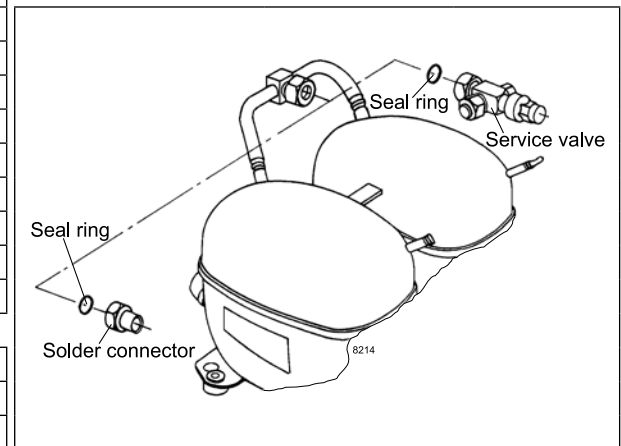
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W	134	323	550	819	1137	1257	1509	1941	2440	2796	3011						
Power cons. in W	379	506	633	761	891	936	1024	1163	1308	1407	1460						
Current cons. in A	4.30	4.55	4.85	5.22	5.64	5.80	6.13	6.67	7.27	7.71	7.94						
COP in W/W	0.35	0.64	0.87	1.08	1.28	1.34	1.47	1.67	1.87	1.99	2.06						



Accessories	SC12/12CL	pcs.	Code number
Starting device	470 mm cable length	2	-
	550 mm cable length		-
	650 mm cable length		-
Starting relay	6.3 mm spade connectors	2	117U6005
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 with time-delay relay)		2	020-1014
Service valve	12 mm	1	118-7350
Solder connector (alternative)	12 mm	1	104B0584
Service valve	16 mm	1	-
Solder connector (alternative)	16 mm	1	-
Seal ring for service valve and solder connector		1	118-3638

Test conditions	EN 12900/CECOMAF*	ASHRAE LBP/MBP
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		pcs.	Code number
Bolt joint for one compressor	Ø: 16 mm	2	118-1917
Bolt joint in quantities	Ø: 16 mm	2	118-1918



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