

SC10/10DL MBP/HBP Twin Compressor R404A/R507 & R407C 220-240V 50Hz

General

Code number	104L4091
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	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

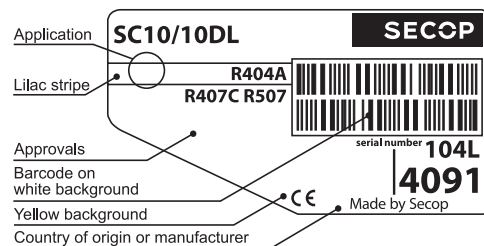
* Operational current for the second compressor time-delayed.

Design

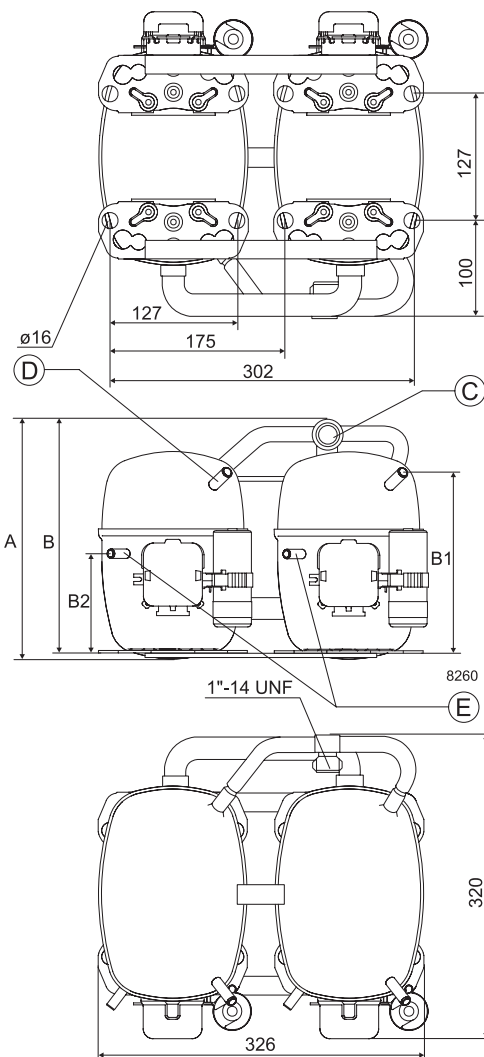
Displacement	cm ³	2 x 10.29
Oil quantity (type)	cm ³	1220 (polyolester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm ³	2820
Weight without electrical equipment	kg	26.8

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		Copper Rubber plug
Discharge connector	location/I.D. mm angle	E	6.2 37°
	material comment		Copper Rubber plug
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) R404A/R507, 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							943	1222	1550	1798	1935	2383	2900	3152	3494	4169	
Power cons. in W							747	858	957	1016	1044	1118	1180	1203	1228	1262	
Current cons. in A							5.11	5.55	5.95	6.18	6.30	6.60	6.85	6.95	7.06	7.21	
COP in W/W							1.26	1.42	1.62	1.77	1.85	2.13	2.46	2.62	2.85	3.30	

ASHRAE LBP R404A/R507, 220V, 50Hz, fan cooling F₂

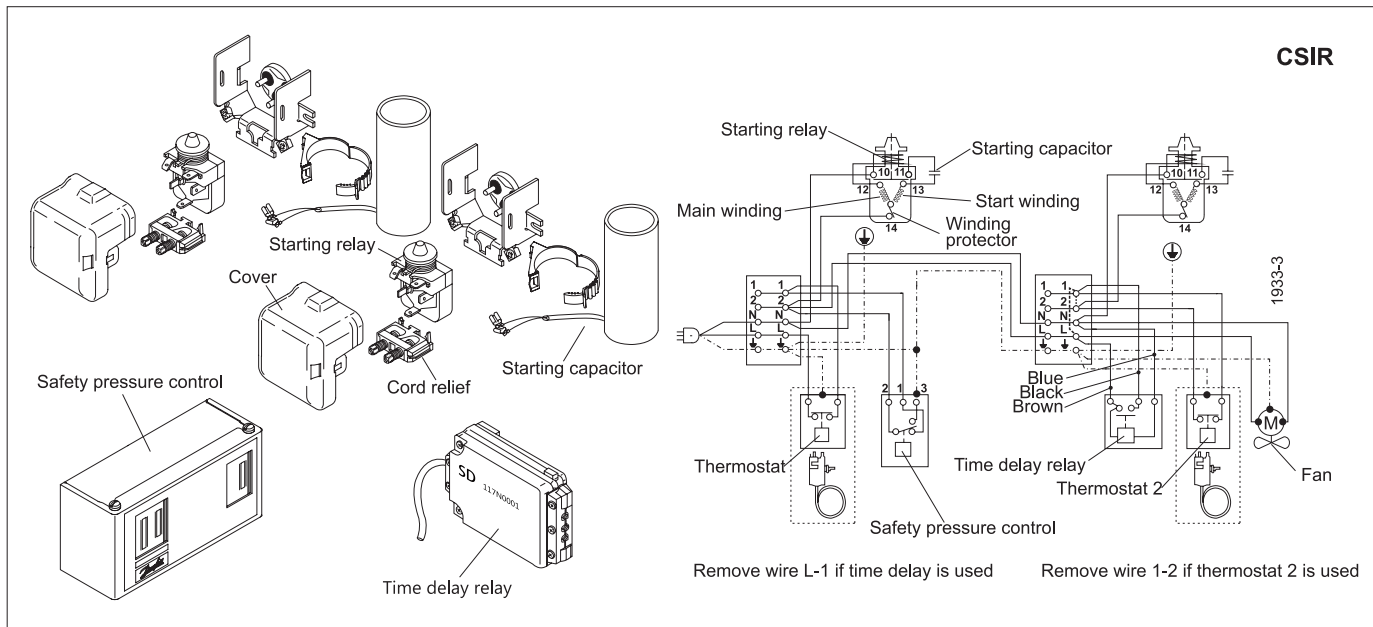
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W							1095	1420	1804	2085	2256	2782	3392	3690	4095	4901	
Power cons. in W							747	858	957	1016	1044	1118	1180	1203	1228	1262	
Current cons. in A							5.11	5.55	5.95	6.18	6.30	6.60	6.85	6.95	7.06	7.21	
COP in W/W							1.47	1.66	1.89	2.05	2.16	2.49	2.88	3.07	3.34	3.88	

EN 12900 Household (CECOMAF) R407C, 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							961	1272	1503	1642	1761	2077	2586	2835	3176	3855	
Power cons. in W							693	788	842	874	951	1020	1047	1081	1135		
Current cons. in A							5.00	5.32	5.51	5.62	5.90	6.16	6.27	6.40	6.63		
COP in W/W							1.39	1.61	1.78	1.88	2.18	2.54	2.71	2.94	3.40		

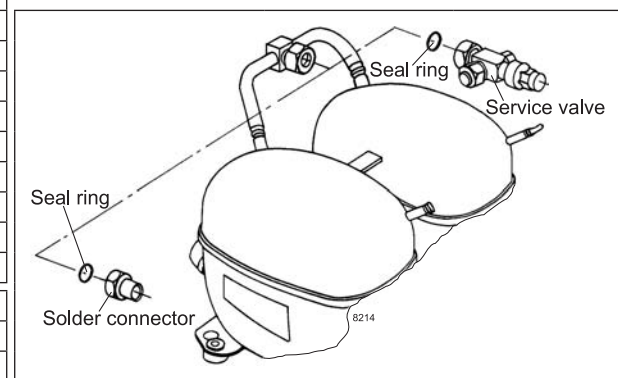
ASHRAE LBP R407C, 220V, 50Hz, fan cooling F₂

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							1030	1364	1612	1761	2229	2776	3045	3412	4146		
Power cons. in W							693	788	842	874	951	1020	1047	1081	1135		
Current cons. in A							5.00	5.32	5.51	5.62	5.90	6.16	6.27	6.40	6.63		
COP in W/W							1.49	1.73	1.91	2.01	2.34	2.72	2.91	3.16	3.65		



Accessories	SC10/10DL	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
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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