

## SC12/12G Universal Twin Compressor R134a 220-240V 50Hz

### General

Code number	104G8280
Approvals	EN 60335-2-34
Compressors on pallet	18

### Application

Application	LBP/HBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to 15	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	60 (70)	-
Max. winding temperature continuous (short)	°C	125 (135)	-

### Cooling requirements

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

### Motor

Motor type	CSIR		
LRA (rated after 4 sec. UL984) *, HST   LST	A	2 x 12.6	-
Cut in Current *, HST   LST	A	2 x 12.6	-
Resistance, main   start winding (25°C)	Ω	6.7	11.8

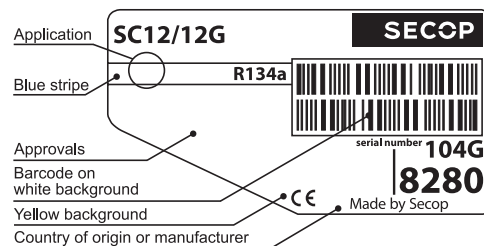
\* Operational current for the second compressor time-delayed.

### Design

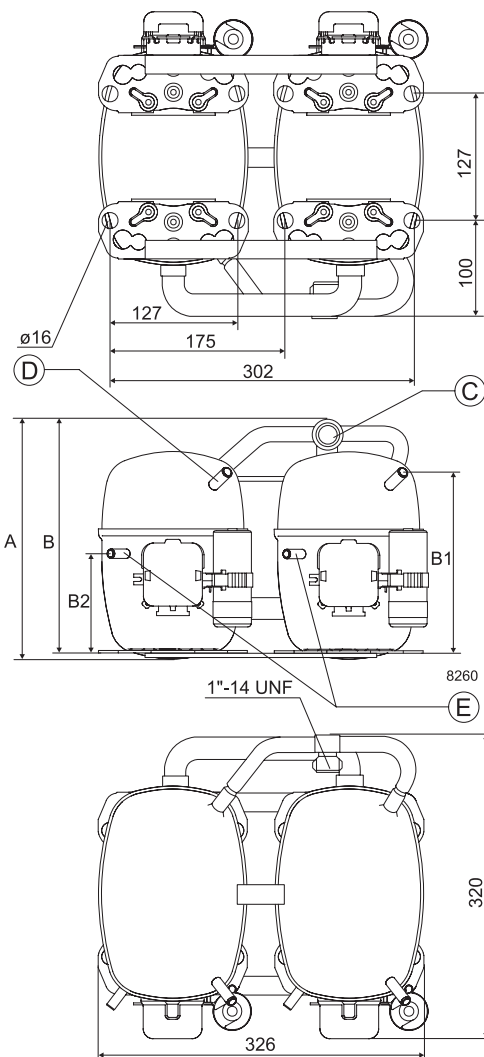
Displacement	cm <sup>3</sup>	2 x 12.87
Oil quantity (type)	cm <sup>3</sup>	1120 (polyolester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm <sup>3</sup>	3020
Weight without electrical equipment	kg	28.0

### 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
- 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

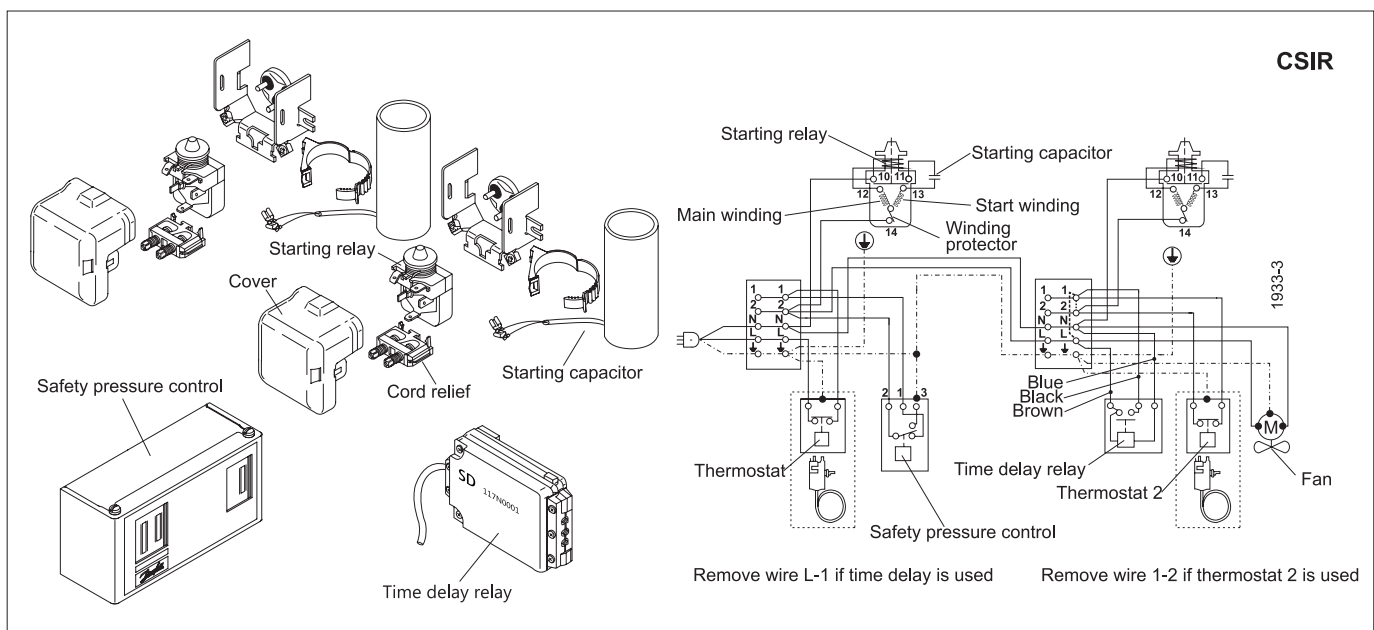


**EN 12900 Household (CECOMAF)** 220V, 50Hz, fan cooling F<sub>2</sub>

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			129	226	350	399	505	696	928	1106	1206	1535	1920	2108	2364	2875	
Power cons. in W			296	373	454	481	537	622	710	769	800	892	986	1028	1081	1177	
Current cons. in A			3.25	3.44	3.66	3.74	3.90	4.17	4.47	4.68	4.79	5.14	5.52	5.69	5.92	6.35	
COP in W/W			0.44	0.61	0.77	0.83	0.94	1.12	1.31	1.44	1.51	1.72	1.95	2.05	2.19	2.44	

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

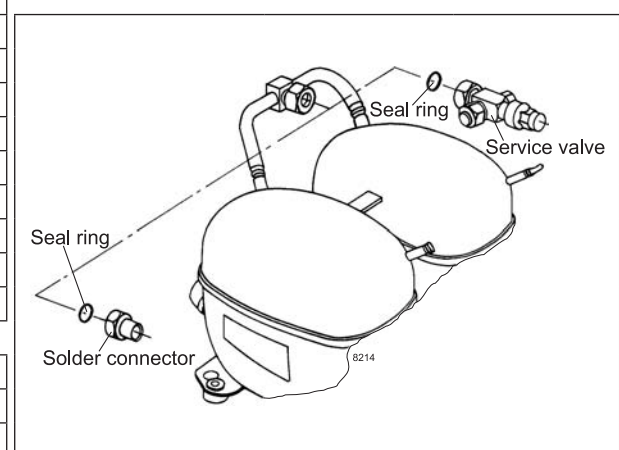
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			159	279	432	492	623	860	1147	1368	1493	1902	2382	2617	2939	3580	
Power cons. in W			296	373	454	481	537	622	710	769	800	892	986	1028	1081	1177	
Current cons. in A			3.25	3.44	3.66	3.74	3.90	4.17	4.47	4.68	4.79	5.14	5.52	5.69	5.92	6.35	
COP in W/W			0.54	0.75	0.95	1.02	1.16	1.38	1.62	1.78	1.87	2.13	2.42	2.55	2.72	3.04	



Accessories	SC12/12G	pcs.	Code number
Starting device	470 mm cable length		-
	550 mm cable length	2	-
	650 mm cable length		-
Starting relay	6.3 mm spade connectors	2	117U6003
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
Condensing temperature	55°C	55°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	55°C	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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