

## SC18/18G Universal Twin Compressor R134a 220-240V 50Hz

### General

Code number	104G8880
Approvals	EN 60335-2-34, CCC
Compressors on pallet	18

### Application

Application	LBP/HBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-25 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 18.6	-
Cut in Current *, HST   LST	A	2 x 18.6	-
Resistance, main   start winding (25°C)	Ω	3.7	14.1

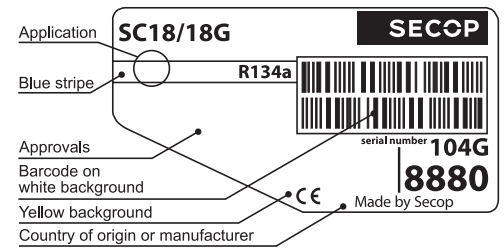
\* Operational current for the second compressor time-delayed.

### Design

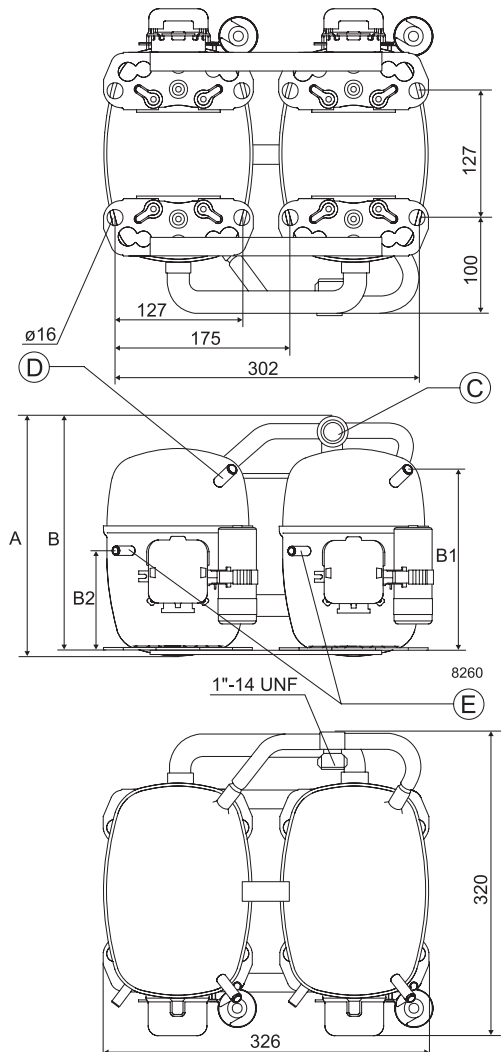
Displacement	cm <sup>3</sup>	2 x 17.69
Oil quantity (type)	cm <sup>3</sup>	1120 (polyolester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm <sup>3</sup>	2920
Weight without electrical equipment	kg	28.0

### Dimensions

Height	mm	A	259
		B	254
		B1	193
		B2	110
Suction connector (service valve)	location/I.D. mm	C	16   37°
Suction connector (solder connector)	location/I.D. mm	C	16   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

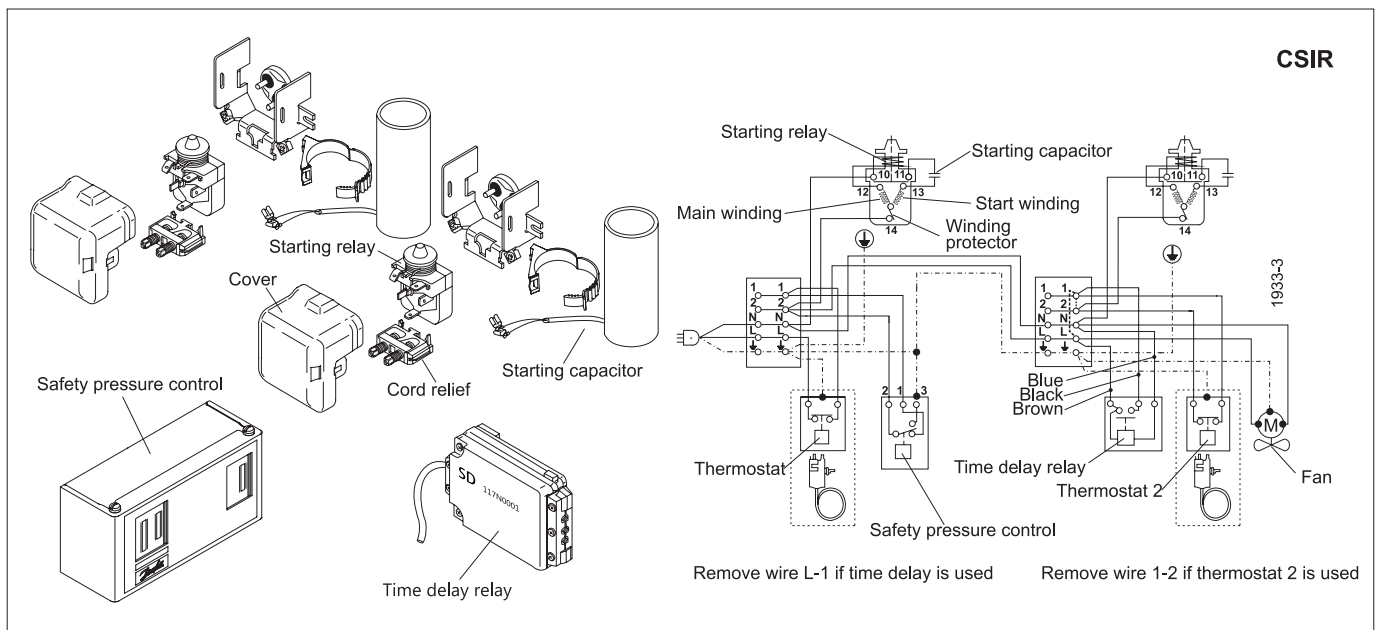


**EN 12900 Household (CECOMAF)** 220V, 50Hz, fan cooling F<sub>2</sub>

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					566	637	787	1053	1369	1608	1741	2174	2675	2918	3248	3900	
Power cons. in W					662	701	778	895	1014	1094	1135	1260	1390	1449	1526	1669	
Current cons. in A					5.13	5.23	5.44	5.76	6.10	6.35	6.49	6.92	7.43	7.67	8.01	8.68	
COP in W/W					0.86	0.91	1.01	1.18	1.35	1.47	1.53	1.72	1.92	2.01	2.13	2.34	

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

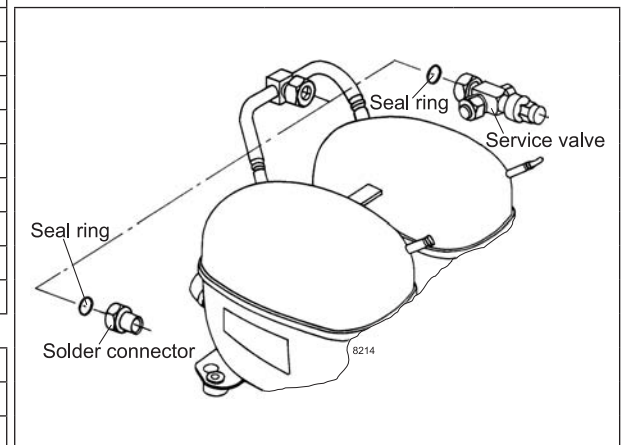
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W					695	782	969	1298	1689	1985	2150	2687	3310	3613	4025	4841	
Power cons. in W					658	697	774	890	1008	1087	1128	1253	1382	1440	1517	1659	
Current cons. in A					5.12	5.22	5.43	5.74	6.08	6.33	6.46	6.90	7.39	7.63	7.97	8.63	
COP in W/W					1.06	1.12	1.25	1.46	1.68	1.83	1.91	2.15	2.40	2.51	2.65	2.92	



Accessories	SC18/18G	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	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 with time-delay relay)		2	020-1014
Service valve	12 mm	1	-
Solder connector (alternative)	12 mm	1	-
Service valve	16 mm	1	118-7351
Solder connector (alternative)	16 mm	1	118-7405
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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