

## SC10GHH Heat Pump Compressor R134a 220-240V 50Hz

### General

Code number	104G8071
Approvals	EN 60335-2-34
Compressors on pallet	80

### Application

Application	HBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-15 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		-	-	O	-	-	O
38°C		-	-	O	-	-	O
43°C		-	-	O	-	-	O
Remarks on application:							

### Motor

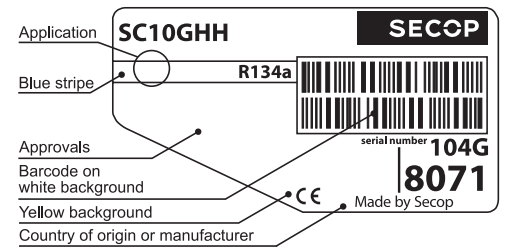
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST   LST	A	8.9	-
Cut in Current, HST   LST	A	8.9	-
Resistance, main   start winding (25°C)	Ω	10.9	37.3

### Design

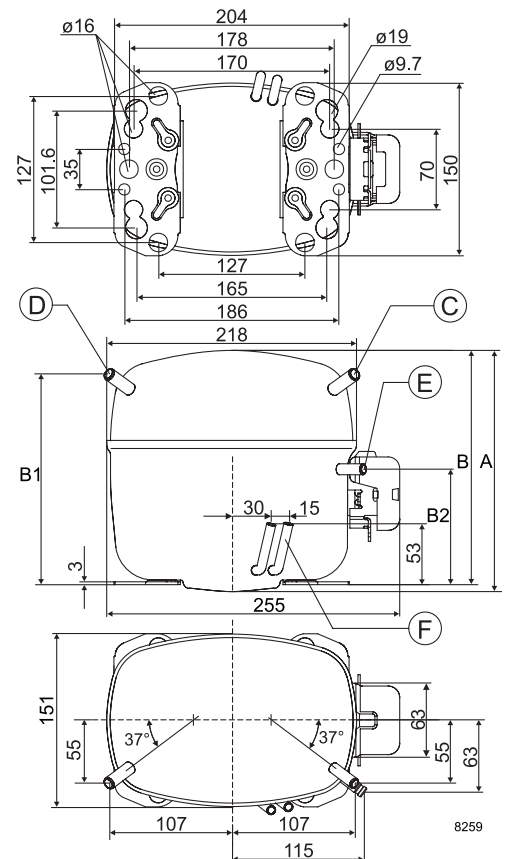
Displacement	cm <sup>3</sup>	10.29
Oil quantity (type)	cm <sup>3</sup>	450 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm <sup>3</sup>	1640
Weight without electrical equipment	kg	13.3

### Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
Suction connector	location/I.D. mm   angle	C	10.2   37°
	material   comment	Copper   Rubber plug	
Process connector	location/I.D. mm   angle	D	6.2   37°
	material   comment	Copper   Rubber plug	
Discharge connector	location/I.D. mm   angle	E	8.2   37°
	material   comment	Copper   Rubber plug	
Oil cooler connector	location/I.D. mm   angle	F	8.2   -
	material   comment	Copper   Rubber plug	
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

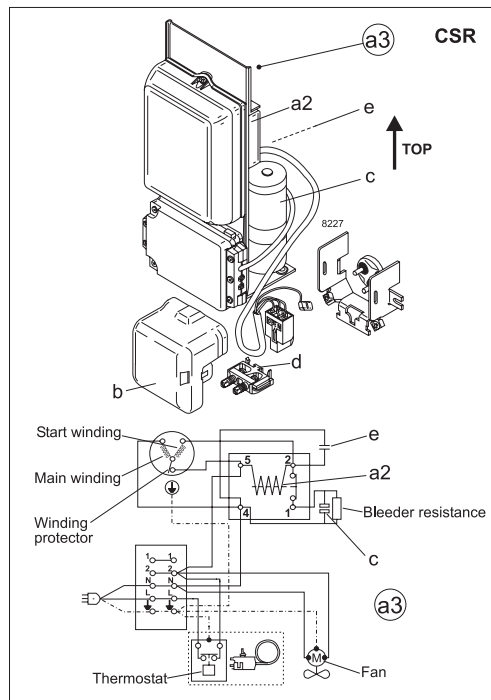


**EN 12900 Household (CECOMAF)** 220V, 50Hz, fan cooling F<sub>1</sub>

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								259	352	412	467	604	762	855	942	1144	
Power cons. in W								230	260	272	290	318	345	367	371	395	
Current cons. in A								1.03	1.15	1.20	1.28	1.40	1.53	1.60	1.66	1.77	
COP in W/W								1.13	1.35	1.51	1.61	1.90	2.21	2.33	2.54	2.90	

**ASHRAE HBP** 220V, 50Hz, fan cooling F<sub>1</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								319	434	496	577	746	943	1060	1168	1421	
Power cons. in W								230	260	272	290	318	345	367	371	395	
Current cons. in A								1.03	1.15	1.20	1.28	1.40	1.53	1.60	1.66	1.77	
COP in W/W								1.39	1.67	1.82	1.99	2.35	2.73	2.89	3.15	3.60	



Accessories for	SC10GHH	Figure	Code number	
Starting device	550 mm cable length	a3	117-7025	
	1000 mm cable length		117-7014	
Cover		b	103N2009	
Starting relay		a2	Components of starting device	
Start. capacitor		c		
Run capacitor		e		
Cord relief		d		103N1004

Test conditions	EN 12900/CECOMAF	ASHRAE HBP
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		Code number
Bolt joint for one comp.	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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