

SC15G Universal Compressor R134a 115V 60Hz

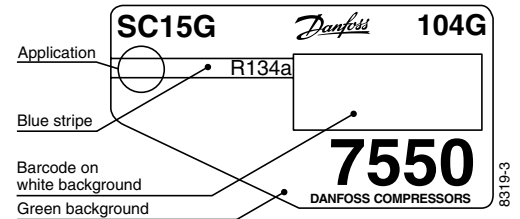
Data Sheet (Replaces CG.44.A2.22)

General

Compressor (CU-plated steel connectors)	SC15G
Codenumber	104G7550
Codenumber	104G7551
Codenumber compressor with oil cooler	104G7560

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-31 to 50 (-35 to 10)
Voltage range	V/Hz	103 - 127 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F ₁



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Design

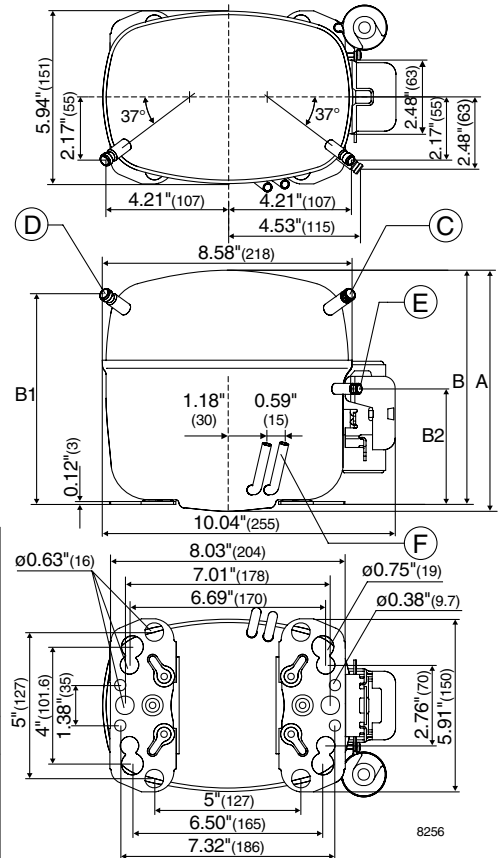
Displacement	cu.in. (cm ³)	0.93 (15.30)
Oil quantity	fl.oz. (cm ³)	20.3 (600)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm ³)	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	27.7 (12.6)

Motor

Motor size	watt	540
LRA (rated after 4 sec.UL984) HST	A	42.0
Cut-in current HST	A	42.0
Resistance, main and start winding (77°F) Ω		1.0/4.3
Approvals		UL984/CSA-C22.2

Dimensions

		104G7550/60	104G7551
Height	mm	A	8.23 (209)
		B	8.00 (203)
		B1	7.20 (183)
		B2	3.94 (100)
Suction connector	location/I.D. mm	C 0.320-0.327 (8.2±0.09)	0.378-0.385 (9.7±0.09)
Process connector	location/I.D. mm	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D. mm	E 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Oil cooler	location/I.D. mm	F 0.252-0.259 (6.5±0.09)	
Compressors on a pallet	pcs.	80	



Capacity at LBP conditions (ASHRAE)
Btu/h

Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	455	780	1088	1241	1837	2570	3440	4448	5595	6222	6884

Capacity at HBP conditions (ASHRAE)
Btu/h

Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	403	692	965	1100	1628	2276	3045	3934	4945	5496	6078

Capacity (EN 12900/CECOMAF)
watt

Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
SC15G	109	187	260	297	439	614	821	1060	1331	1479	1635

Power consumption
watt

Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	175	252	306	329	408	486	566	645	726	766	807

Current consumption
A

Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	4.45	4.70	4.91	5.02	5.40	5.85	6.35	6.91	7.52	7.84	8.18

EER at LBP conditions (ASHRAE)
Btu/Wh

Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	2.60	3.10	3.56	3.77	4.51	5.28	6.08	6.89	7.71	8.12	8.53

EER at HBP conditions (ASHRAE)
Btu/Wh

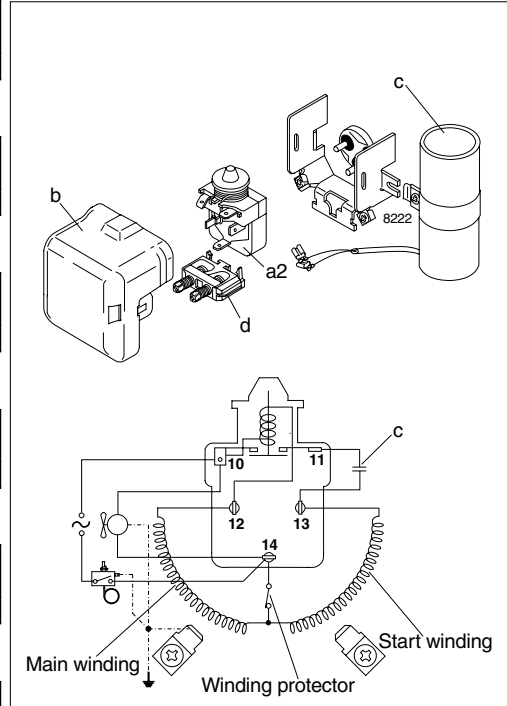
Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	2.31	2.75	3.15	3.34	3.99	4.68	5.38	6.10	6.81	7.17	7.54

COP (EN 12900/CECOMAF)
W/W

Comp. °C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp. °F	-30	-20	-13	-10	0	10	20	30	40	45	50
SC15G	0.62	0.74	0.85	0.90	1.08	1.26	1.45	1.64	1.83	1.93	2.03

Accessories

Devices	Fig.	SC15G
Starting relay	a2	117U6020
Cover	b	103N2008
Starting capacitor 240 µF	c	117U5023
Cord relief	d	103N1004
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919


Test conditions

1. Condensing temperature
2. Ambient and suction gas temp.
3. Liquid temperature

 Fan cooling F_{11} , 115V 60Hz

ASHRAE

1. LBP 130°F (54.4°C)
2. 90°F (32°C)
3. 90°F (32°C)

EN 12900/CECOMAF

1. HBP 130°F (54.4 °C)
2. 95°F (35°C)
3. 115°F (46°C)