

# SC15FT Tropical Compressor R134a 220-240V 50/60Hz

Data Sheet (Replaces CD.44.D1.02)

## General

Compressor	<b>SC15FT</b>
Code number	104G8505
Code number compressor with oil cooler	104G8515

## Application

Application	LBP	
Evaporating temperature range	°C	-35 to -5
Voltage range	V/Hz	LBP: 187 - 254 /50
		LBP: 198 - 254 /60
Motor type	RSIR/CSIR	
Max. ambient temperature	°C	43
Comp. cooling at ambient temp.	32°C	LBP: O/F <sub>1</sub>
	38°C	LBP: O/F <sub>1</sub>
	43°C	LBP: F <sub>2</sub> *)

\*) O/F<sub>1</sub> possible at 220V nominal (187-242V)

## Design

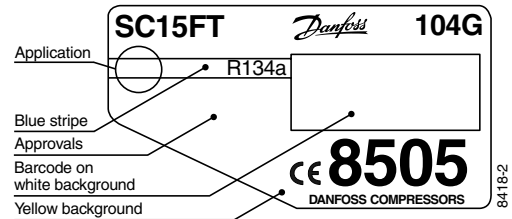
Displacement	cm <sup>3</sup>	15.28
Oil quantity	cm <sup>3</sup>	550 (500 on comp. with oil cooler)
Maximum refrigerant charge	g	1300
Free gas vol. in compressor	cm <sup>3</sup>	1410
Weight without electrical equipment	kg	13.1

## Motor

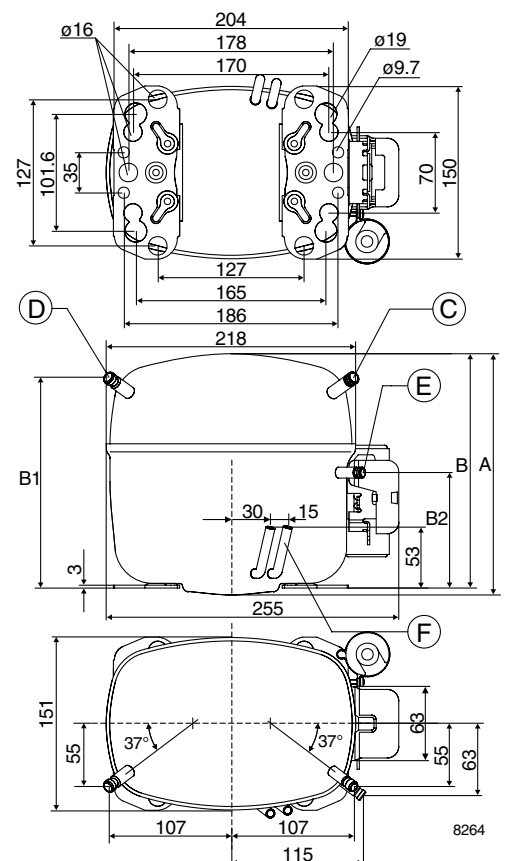
Motor size	watt	385
LRA (rated after 4 sec. UL984) LST/HST	A	15.5/14.8
Cut-in current LST/HST	A	19.9/14.8
Resistance, main and start winding (25°C)	Ω	5.0/13.7
Approvals	EN 60335-2-34	

## Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
Suction connector	location/I.D. mm	C	10.2 ±0.09
Process connector	location/I.D. mm	D	6.2 ±0.09
Discharge connector	location/I.D. mm	E	6.2 ±0.09
Oil cooler	location/I.D. mm	F	6.2 ±0.09
Compressors on a pallet	pcs.	80	



- 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



**Capacity (EN 12900/CECOMAF)**

**watt**

Evap. temp in °C	-35	-30	-25	-23.3	-20	-15	-10	-5
SC15FT, 50Hz	126	197	280	311	376	489	620	772
SC15FT, 60Hz	154	235	330	365	441	571	724	904

**Capacity (ASHRAE)**

**watt**

Evap. temp in °C	-35	-30	-25	-23.3	-20	-15	-10	-5
SC15FT, 50Hz	155	243	345	384	465	604	766	955
SC15FT, 60Hz	189	290	407	451	544	705	895	1118

**Power consumption**

**watt**

Evap. temp in °C	-35	-30	-25	-23.3	-20	-15	-10	-5
SC15FT, 50Hz	223	267	311	326	356	403	451	500
SC15FT, 60Hz	231	294	356	377	418	478	537	596

**Current consumption**

**A**

Evap. temp in °C	-35	-30	-25	-23.3	-20	-15	-10	-5
SC15FT, 50Hz	2.22	2.31	2.42	2.46	2.54	2.69	2.86	3.05
SC15FT, 60Hz	1.87	2.07	2.27	2.34	2.48	2.70	2.93	3.16

**COP (EN 12900/CECOMAF)**

**W/W**

Evap. temp in °C	-35	-30	-25	-23.3	-20	-15	-10	-5
SC15FT, 50Hz	0.56	0.74	0.90	0.95	1.06	1.21	1.38	1.54
SC15FT, 60Hz	0.66	0.80	0.92	0.97	1.05	1.19	1.35	1.52

**COP (ASHRAE)**

**W/W**

Evap. temp in °C	-35	-30	-25	-23.3	-20	-15	-10	-5
SC15FT, 50Hz	0.70	0.91	1.11	1.18	1.30	1.50	1.70	1.91
SC15FT, 60Hz	0.82	0.98	1.14	1.19	1.30	1.48	1.67	1.88

Test conditions	EN 12900/CECOMAF	ASHRAE
Condensing temperature	55°C	55°C
Ambient and suction gas temp.	32°C	32°C
Liquid temperature	55°C	32°C
50Hz: Fan cooling $F_{p1}$ , 220V		
60Hz: Fan cooling $F_{p2}$ , 220V		

**Accessories**

Devices	Fig.	SC15FT
PTC starting device 6.3 mm spades	a1	103N0002
Starting relay	a2	117U6005
Cover	b	103N2009
Starting capacitor 80 µF	c	117U5017
Cord relief	d	103N1004
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap-on in quantities		118-1919

