

# SC15MLX MBP Compressor R404A/R507 115V 60Hz

Data Sheet (Replaces CJ.54.E1.22)

## General

Compressor (CU-plated steel connectors)	<b>SC15MLX</b>
Codenumber	104L1805

## Application

Application		MBP
Evaporating temperature range	°F (°C)	-10 to 45 (-23.3 to 7.2)
Voltage range	V/Hz	CSR: 95 - 135 /60 CSIR: 103 - 135 /60
Motor type		CSIR/CSR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F <sub>2</sub>

## Design

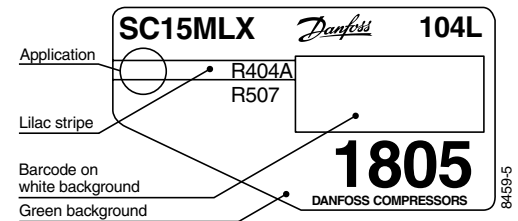
Displacement	cu.in. (cm <sup>3</sup> )	0.93 (15.28)
Oil quantity	fl.oz. (cm <sup>3</sup> )	20.3 (600)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm <sup>3</sup> )	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	30.9 (14.0)

## Motor

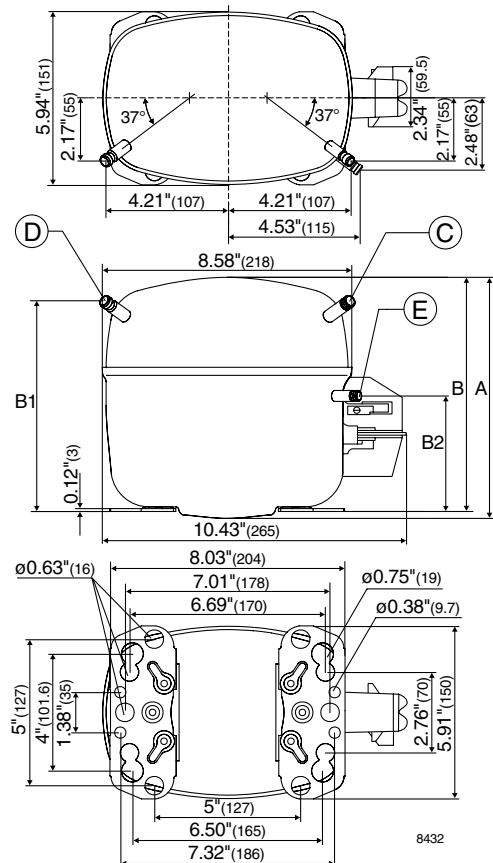
Motor size	watt	965
LRA (rated after 4 sec.UL984) HST	A	64
Cut-in current HST	A	64
Resistance, main and start winding (77°F) Ω		0.6/2.7
Approvals		UL984/CSA-C22.2

## Dimensions

Height	in. (mm)	A	8.62 (219)
		B	8.39 (213)
		B1	7.60 (193)
		B2	4.33 (110)
Suction connector	location/I.D. in. (mm)	C	0.387-0.385 (9.7±0.09)
Process connector	location/I.D. in. (mm)	D	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D. in. (mm)	E	0.252-0.259 (6.5±0.09)
Compressors on a pallet	pcs.		60



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary



**Capacity ASHRAE in Btu/h - EN 12900/CECOMAF in watt**

Evap. temp in °F	-10	0	10	20	30	40	41	45
Evap. temp in °C	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	5	7.2
ASHRAE MBP	2295	3049	3967	5070	6383	7928	8096	8795
EN 12900	770	998	1274	1603	1992	2446	2495	2698

**Power consumption (ASHRAE, EN12900/CECOMAF) watt**

Evap. temp in °F	-10	0	10	20	30	40	41	45
Evap. temp in °C	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	5	7.2
ASHRAE MBP	719	837	954	1070	1188	1309	1321	1371
EN 12900	729	819	910	1004	1102	1205	1216	1259

**Current consumption (ASHRAE, EN12900/CECOMAF) A**

Evap. temp in °F	-10	0	10	20	30	40	41	45
Evap. temp in °C	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	5	7.2
ASHRAE MBP	9.88	10.59	11.37	12.24	13.17	14.19	14.29	14.72
EN 12900	9.88	10.43	11.05	11.75	12.52	13.37	13.46	13.82

**EER / COP ASHRAE in Btu/Wh - EN 12900/CECOMAF in W/W**

Evap. temp in °F	-10	0	10	20	30	40	41	45
Evap. temp in °C	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	5	7.2
ASHRAE MBP	3.19	3.64	4.16	4.74	5.37	6.06	6.13	6.42
EN 12900	1.06	1.22	1.40	1.60	1.81	2.03	2.05	2.14

Test conditions	ASHRAE MBP	EN 12900/CECOMAF
Condensing temp.	130°F (54.4°C)	45°C (113°F)
Suction gas temp.	95°F (35°C)	32°C (90°F)
Ambient temp.	90°F (32°C)	32°C (90°F)
Liquid temp.	115°F (46°C)	45°C (113°C)
Cooling	Fan F2	Fan F2
V/Hz	115/60	115/60

**Design limits:**

Max. cond. temp. °F (°C) stable 120 (49)  
 Max. cond. temp. °F (°C) peak 135 (58)  
 preliminary data

**Accessories**

Devices	Fig.	CSR (pos.1)
Run capacitor 23.5 µF	e	117-7114
Starting capacitor 410 µF	c	117U5043
Devices	Fig.	CSIR (pos.2)
Starting capacitor 410 µF	c	117U5042
Devices	Fig.	CSR/CSIR (pos.1 & pos.2)
Starting relay	a2	117-7441
Cover	b	(117U1021)
Protector	f	parts of compressor (117U3212)
Protector holder	h	(117U0438)
Mounting accessories	∅ 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

