

SC15CLX.2 LBP Compressor R404A/R507 115V 60Hz

Data Sheet (Replaces CJ.54.I1.22)

General

Compressor (CU-plated steel connectors)	SC15CLX.2
Codenumber	104L1853

Application

Application		LBP
Evaporating temperature range	°F (°C)	-40 to 20 (-40 to -6.7)
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)	F ₂

Design

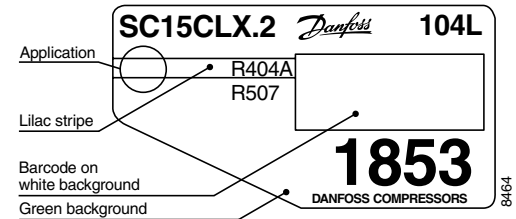
Displacement	cu.in. (cm ³)	0.93 (15.28)
Oil quantity	fl.oz. (cm ³)	18.6 (550)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm ³)	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	30.2 (13.7)

Motor

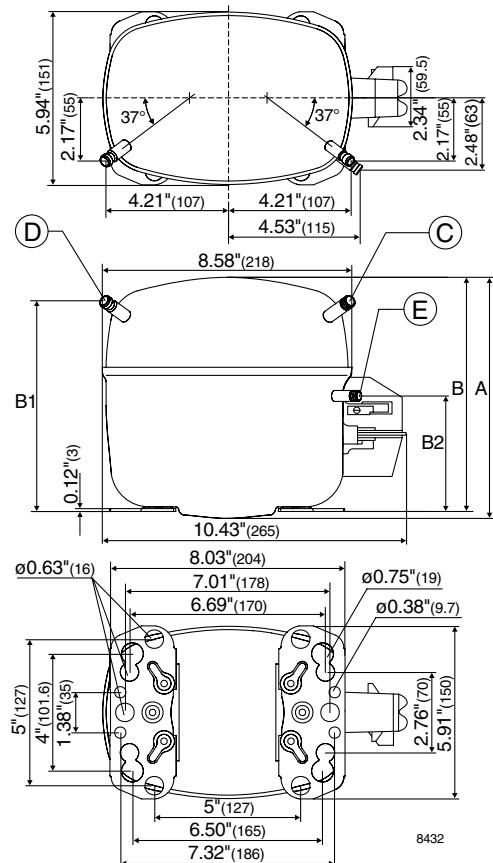
Motor size	watt	755
LRA (rated after 4 sec.UL984) HST	A	53
Cut-in current HST	A	53
Resistance, main and start winding (77°F) Ω		0.7/2.9
Approvals		UL984/CSA-C22.2

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
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary



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

Evap. temp in °F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in °C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP	57	989	1964	2671	2980	4037	5134	6270
ASHRAE LBP*	783	1605	2473	3106	3384	4337	5331	6364
EN 12900	175	387	611	773	845	1088	1342	1604

Power consumption (ASHRAE, EN 12900/CECOMAF) watt

Evap. temp in °F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in °C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP	231	428	589	686	724	839	944	1046
ASHRAE LBP*	356	499	616	687	715	804	890	983
EN 12900	341	491	614	688	717	809	898	991

Current consumption (ASHRAE, EN 12900/CECOMAF) A

Evap. temp in °F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in °C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP	6.70	7.40	8.13	8.65	8.87	9.64	10.42	11.23
ASHRAE LBP*	7.03	7.62	8.23	8.67	8.86	9.51	10.18	10.87
EN 12900	7.00	7.61	8.24	8.69	8.88	9.55	10.24	10.95

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

Evap. temp in °F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in °C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP	0.25	2.31	3.33	3.90	4.12	4.81	5.44	6.00
ASHRAE LBP*	2.20	3.22	4.01	4.52	4.73	5.40	5.99	6.48
EN 12900	0.51	0.79	0.99	1.12	1.18	1.34	1.49	1.62

Test conditions	ASHRAE LBP	ASHRAE LBP*	EN 12900
Condensing temp.	130°F (54.4°C)	110°F (43.3°C)	45°C (113°F)
Suction gas temp.	90°F (32°C)	90°F (32°C)	32°C (90°F)
Ambient temp.	90°F (32°C)	90°F (32°C)	32°C (90°F)
Liquid temp.	90°F (32°C)	90°F (32°C)	45°C (113°F)
Cooling	Fan F2	Fan F2	Fan F2
V/Hz	115/60	115/60	115/60

Design limits:
 Max. cond. temp. °F (°C) stable 120 (49)
 Max. cond. temp. °F (°C) peak 135 (58)

Accessories

Devices	Fig.	SC15CLX.2	
Starting relay	a2	117-7441	
Starting capacitor 410 µF	c	117U5042	
Cover	b	parts of compressor	(117U1021)
Protector	f		(117U3212)
Protector holder	h		(117U0438)
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	

