

SC12/12DL MBP/HBP Twin Compressor R404A/R507 220-240V 50Hz

Data Sheet (Replaces CF.54.O2.02)

General

Compressor	SC12/12DL
Code number	104L4092

Application

Application		MBP/HBP
Evaporating temperature range	°C	-20 to 15
Voltage range	V/Hz	198 - 254 /50
Motor type		CSIR
Max. ambient temperature	°C	38
Comp. cooling at ambient temp.	32°C	F ₂
	38°C	F ₂

Design

Displacement	cm ³	2 x 12.87
Oil quantity	cm ³	1220
Maximum refrigerant charge	g	2200
Free gas vol. in compressor	cm ³	2920
Weight without electrical equipment	kg	27.8

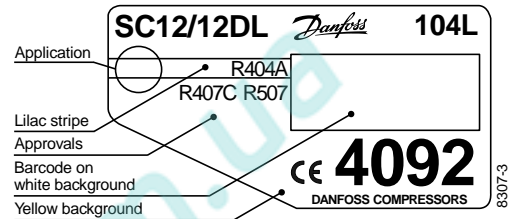
Motor

Motor size	watt	2 x 495
LRA (rated after 4 sec. UL984) HST*	A	18.6
Cut-in current HST*	A	18.6
Resistance, main and start winding (25°C)	Ω	3.7/14.1
Approvals		EN 60335-2-34

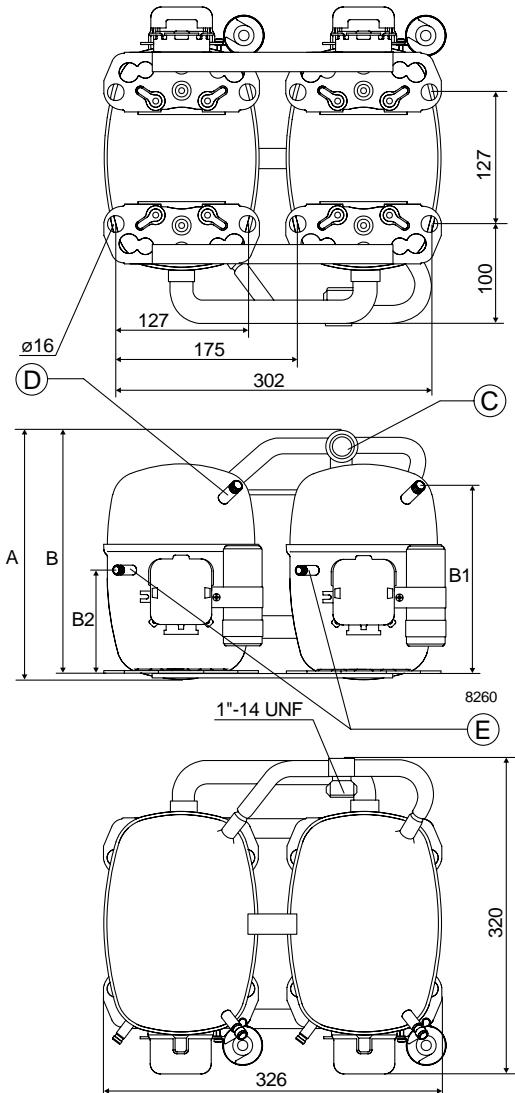
* Operational current for the second compressor time-delayed.

Dimensions

Height	mm	A	249
		B	244
		B1	183
		B2	100
Suction connector			
Service valve	location/I.D. mm	C	12
Solder connector	location/I.D. mm	C	12
Process connector	location/I.D. mm	D	6.2 ±0.09
Discharge connector	location/I.D. mm	E	6.2 ±0.09
Compressors on a pallet	pcs.		18



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



Capacity (EN 12900/CECOMAF)

watt

Comp. °C	-20	-15	-10	-5	0	5	7.2	10	15
SC12/12DL	1217	1612	2055	2559	3130	3780	4092	4516	5348

Capacity (ASHRAE)

watt

Comp. °C	-20	-15	-10	-5	0	5	7.2	10	15
SC12/12DL	1414	1874	2393	2982	3654	4421	4791	5294	6287

Power consumption

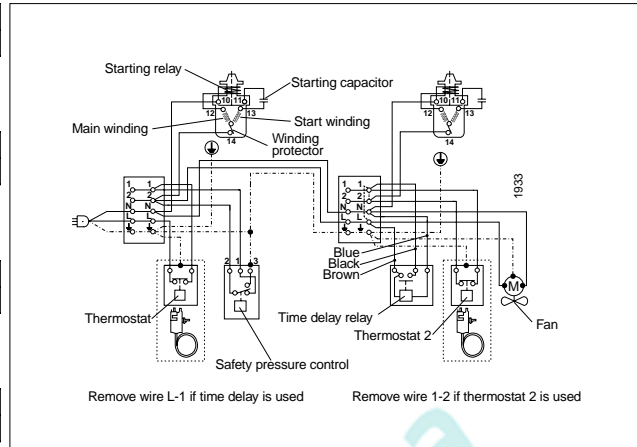
watt

Comp. °C	-20	-15	-10	-5	0	5	7.2	10	15
SC12/12DL	978	1125	1248	1349	1433	1500	1526	1555	1600

Current consumption

A

Comp. °C	-20	-15	-10	-5	0	5	7.2	10	15
SC12/12DL	6.74	7.29	7.78	8.21	8.58	8.88	9.00	9.13	9.31



COP (EN 12900/CECOMAF)

W/W

Comp. °C	-20	-15	-10	-5	0	5	7.2	10	15
SC12/12DL	1.24	1.43	1.65	1.90	2.18	2.52	2.68	2.90	3.34

COP (ASHRAE)

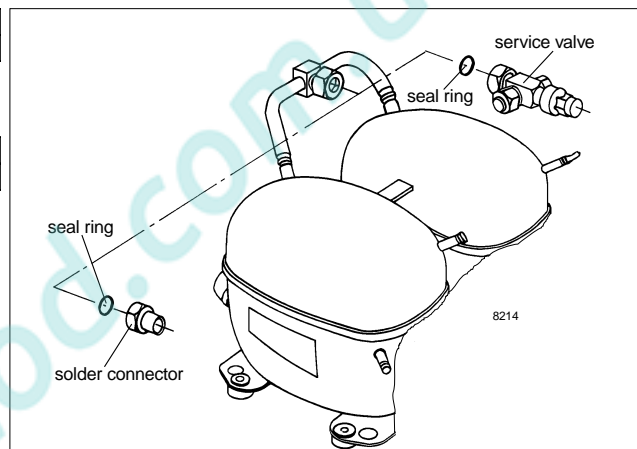
W/W

Comp. °C	-20	-15	-10	-5	0	5	7.2	10	15
SC12/12DL	1.45	1.67	1.92	2.21	2.55	2.95	3.14	3.40	3.93

Test conditions
 Condensing temperature 45°C
 Ambient and suction gas temp. 32°C
 Liquid temperature 45°C
 Fan cooling F₂, 220V 50Hz

EN 12900/CECOMAF
 45°C
 32°C
 45°C

ASHRAE
 45°C
 32°C
 32°C



Accessories

Devices	pcs.	SC12/12DL
Starting relay	2	117U6019
Starting capacitor 80 µF	2	117U5017
Cover	2	103N2009
Cord relief	2	103N1004
Time-delay relay	1	117N0001
Check valve (to be used with time-delay relay)	2	020-1014
Service valve	1	118-7350 (12 mm)
Solder connector (alternative)	1	104B0584 (12 mm)
Seal ring for service valve and solder connector	1	118-3638
Mounting accessories		
Bolt joint for one compressor	2	118-1917
Bolt joint in quantities		118-1918