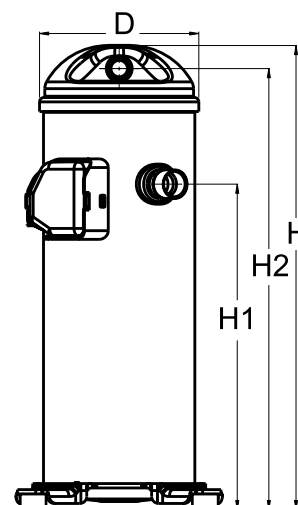


General Characteristics

Model number (on compressor nameplate)		DCJ091T2LC6
Code number for Singlepack*		121L5003
Code number for Industrial pack**		121L5002
Drawing number		OSR4109B1
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		86.9 cm ³ /rev
Displacement @ Nominal speed	15.1 m ³ /h @ 2900 rpm - 18.3 m ³ /h @ 3500 rpm	
Net weight		49 kg
Oil charge		2.46 litre, PVE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		-
Refrigerant charge limit		7.26 kg
Approved refrigerants		R410A

Dimensions

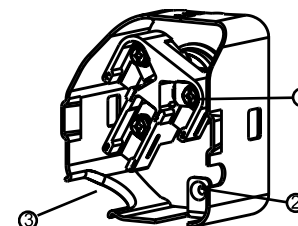


D=184 mm
H=565 mm
H1=404.7 mm
H2=537.8 mm
H3=- mm

Electrical Characteristics

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 25°C	0.280 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.280 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.260 Ω
Rated Load Amps (RLA)	27.9 A
Maximum Continuous Current (MCC)	43.5 A
Locked Rotor Amps (LRA)	250 A
Motor protection	Internal overload protector

Terminal box



IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	0 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Rotolock accessories, suction side
Code no.

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants
Code no.

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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Crankcase heaters
Code no.

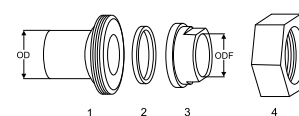
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012
Belt type crankcase heater, 70 W, 575 V, UL	120Z5013

Miscellaneous accessories
Code no.

Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5064
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box cover	120Z5018

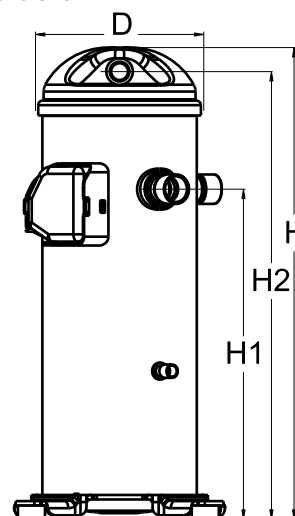
Solder sleeve adapter set


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

General Characteristics

Model number (on compressor nameplate)		DCJ091T2LC8
Code number for Singlepack*		121L5029
Code number for Industrial pack**		121L5028
Drawing number		OSR4110B1
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		None
Oil equalisation connection		1/2"
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		86.9 cm ³ /rev
Displacement @ Nominal speed	15.1 m ³ /h @ 2900 rpm - 18.3 m ³ /h @ 3500 rpm	
Net weight		49 kg
Oil charge		2.46 litre, PVE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		-
Refrigerant charge limit		7.26 kg
Approved refrigerants		R410A

Dimensions

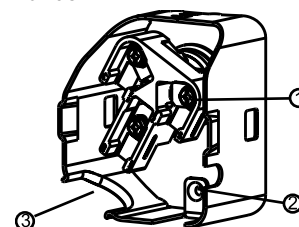


D=184 mm
H=565 mm
H1=404.7 mm
H2=537.8 mm
H3=- mm

Electrical Characteristics

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 25°C	0.280 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.280 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.260 Ω
Rated Load Amps (RLA)	27.9 A
Maximum Continuous Current (MCC)	43.5 A
Locked Rotor Amps (LRA)	250 A
Motor protection	Internal overload protector

Terminal box



IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	0 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

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Code no.

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants
Code no.

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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Crankcase heaters
Code no.

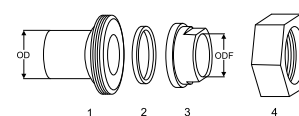
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012
Belt type crankcase heater, 70 W, 575 V, UL	120Z5013

Miscellaneous accessories
Code no.

Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5064
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
Terminal box cover	120Z5018

Solder sleeve adapter set


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

Performance data at 50 Hz, EN 12900 rating conditions
R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-20	-10	-5	0	5	10	20

Cooling capacity in W

15	-	-	-	-	-	-	-	-	-
20	-	10 747	16 190	19 597	23 525	28 023	-	-	-
30	-	9 583	14 632	17 779	21 406	25 559	30 289	-	-
40	-	8 303	12 876	15 722	19 003	22 768	27 065	37 444	-
50	-	-	10 939	13 437	16 327	19 656	23 470	32 741	-
60	-	-	-	10 895	13 333	16 161	19 424	27 434	-
65	-	-	-	-	11 640	14 175	17 114	-	-

Power input in W

15	-	-	-	-	-	-	-	-	-
20	-	3 373	3 420	3 374	3 257	3 048	-	-	-
30	-	4 101	4 197	4 217	4 193	4 104	3 932	-	-
40	-	5 071	5 127	5 167	5 190	5 177	5 106	4 717	-
50	-	-	6 356	6 371	6 396	6 412	6 398	6 203	-
60	-	-	-	7 977	7 958	7 957	7 954	7 863	-
65	-	-	-	-	8 919	8 893	8 878	-	-

Current consumption in A

15	-	-	-	-	-	-	-	-	-
20	-	17.71	17.83	17.76	17.59	17.27	-	-	-
30	-	18.90	19.07	19.09	19.03	18.87	18.59	-	-
40	-	20.82	20.92	20.96	20.96	20.90	20.76	20.13	-
50	-	-	23.69	23.69	23.68	23.66	23.59	23.23	-
60	-	-	-	27.57	27.50	27.45	27.40	27.17	-
65	-	-	-	-	29.92	29.83	29.76	-	-

Mass flow in kg/h

15	-	-	-	-	-	-	-	-	-
20	-	204	300	359	427	504	-	-	-
30	-	199	296	355	423	501	588	-	-
40	-	192	289	348	416	493	581	791	-
50	-	-	279	338	405	482	569	778	-
60	-	-	-	324	391	467	553	761	-
65	-	-	-	-	382	458	544	-	-

Coefficient of performance (C.O.P.)

15	-	-	-	-	-	-	-	-	-
20	-	3.19	4.73	5.81	7.22	9.19	-	-	-
30	-	2.34	3.49	4.22	5.11	6.23	7.70	-	-
40	-	1.64	2.51	3.04	3.66	4.40	5.30	7.94	-
50	-	-	1.72	2.11	2.55	3.07	3.67	5.28	-
60	-	-	-	1.37	1.68	2.03	2.44	3.49	-
65	-	-	-	-	1.31	1.59	1.93	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	19 656	W
Power input	6 412	W
Current consumption	23.66	A
Mass flow	482	kg/h
C.O.P.	3.07	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	75	dB(A)
With acoustic hood	69	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions
R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-10	-5	0	5	10	20	25

Cooling capacity in W

15	-	-	-	-	-	-	-	-	-
20	-	11 479	17 264	20 881	25 048	29 817	-	-	-
30	-	10 338	15 754	19 125	23 006	27 448	32 502	-	-
40	-	9 083	14 051	17 136	20 691	24 766	29 412	40 621	-
50	-	-	12 184	14 943	18 132	21 799	25 997	36 189	-
60	-	-	-	12 577	15 359	18 580	22 290	31 384	-
65	-	-	-	-	13 902	16 884	20 336	-	-

Power input in W

15	-	-	-	-	-	-	-	-	-
20	-	3 373	3 420	3 374	3 257	3 048	-	-	-
30	-	4 101	4 197	4 217	4 193	4 104	3 932	-	-
40	-	5 071	5 127	5 167	5 190	5 177	5 106	4 717	-
50	-	-	6 356	6 371	6 396	6 412	6 398	6 203	-
60	-	-	-	7 977	7 958	7 957	7 954	7 863	-
65	-	-	-	-	8 919	8 893	8 878	-	-

Current consumption in A

15	-	-	-	-	-	-	-	-	-
20	-	17.71	17.83	17.76	17.59	17.27	-	-	-
30	-	18.90	19.07	19.09	19.03	18.87	18.59	-	-
40	-	20.82	20.92	20.96	20.96	20.90	20.76	20.13	-
50	-	-	23.69	23.69	23.68	23.66	23.59	23.23	-
60	-	-	-	27.57	27.50	27.45	27.40	27.17	-
65	-	-	-	-	29.92	29.83	29.76	-	-

Mass flow in kg/h

15	-	-	-	-	-	-	-	-	-
20	-	203	298	357	424	500	-	-	-
30	-	198	294	353	420	497	584	-	-
40	-	191	287	346	413	490	577	785	-
50	-	-	277	336	403	479	565	772	-
60	-	-	-	322	388	464	549	755	-
65	-	-	-	-	380	455	540	-	-

Coefficient of performance (C.O.P.)

15	-	-	-	-	-	-	-	-	-
20	-	3.40	5.05	6.19	7.69	9.78	-	-	-
30	-	2.52	3.75	4.53	5.49	6.69	8.27	-	-
40	-	1.79	2.74	3.32	3.99	4.78	5.76	8.61	-
50	-	-	1.92	2.35	2.83	3.40	4.06	5.83	-
60	-	-	-	1.58	1.93	2.33	2.80	3.99	-
65	-	-	-	-	1.56	1.90	2.29	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	22 101	W
Power input	7 047	W
Current consumption	25.16	A
Mass flow	509	kg/h
C.O.P.	3.14	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	75	dB(A)
With acoustic hood	69	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions
R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-10	-5	0	5	10	20	25

Cooling capacity in W

15	-	-	-	-	-	-	-	-	-
20	-	13 194	19 770	23 886	28 634	34 072	-	-	-
30	-	11 797	17 880	21 674	26 045	31 055	36 760	-	-
40	-	10 289	15 797	19 224	23 177	27 714	32 892	45 404	-
50	-	-	13 512	16 527	20 014	24 029	28 628	39 809	-
60	-	-	-	13 517	16 473	19 896	23 842	33 521	-
65	-	-	-	-	14 453	17 532	21 096	-	-

Power input in W

15	-	-	-	-	-	-	-	-	-
20	-	4 133	4 226	4 149	3 945	3 578	-	-	-
30	-	4 920	5 114	5 160	5 128	4 983	4 691	-	-
40	-	6 013	6 151	6 243	6 305	6 303	6 203	5 572	-
50	-	-	7 532	7 592	7 670	7 734	7 747	7 491	-
60	-	-	-	9 404	9 420	9 471	9 520	9 481	-
65	-	-	-	-	10 501	10 515	10 553	-	-

Current consumption in A

15	-	-	-	-	-	-	-	-	-
20	-	16.74	16.96	16.83	16.46	15.81	-	-	-
30	-	18.00	18.39	18.46	18.39	18.12	17.60	-	-
40	-	20.12	20.39	20.53	20.62	20.60	20.41	19.37	-
50	-	-	23.34	23.43	23.54	23.63	23.64	23.25	-
60	-	-	-	27.52	27.52	27.59	27.66	27.66	-
65	-	-	-	-	30.03	30.03	30.09	-	-

Mass flow in kg/h

15	-	-	-	-	-	-	-	-	-
20	-	249	364	434	515	608	-	-	-
30	-	243	359	430	511	604	709	-	-
40	-	236	352	423	504	596	701	952	-
50	-	-	342	412	493	585	689	939	-
60	-	-	-	399	479	571	674	923	-
65	-	-	-	-	471	562	665	-	-

Coefficient of performance (C.O.P.)

15	-	-	-	-	-	-	-	-	-
20	-	3.19	4.68	5.76	7.26	9.52	-	-	-
30	-	2.40	3.50	4.20	5.08	6.23	7.84	-	-
40	-	1.71	2.57	3.08	3.68	4.40	5.30	8.15	-
50	-	-	1.79	2.18	2.61	3.11	3.70	5.31	-
60	-	-	-	1.44	1.75	2.10	2.50	3.54	-
65	-	-	-	-	1.38	1.67	2.00	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	24 029	W
Power input	7 734	W
Current consumption	23.63	A
Mass flow	585	kg/h
C.O.P.	3.11	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	78	dB(A)
With acoustic hood	73	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Performance data at 60 Hz, ARI rating conditions

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-10	-5	0	5	10	20	25

Cooling capacity in W

15	-	-	-	-	-	-	-	-	-
20	-	14 091	21 081	25 451	30 488	36 254	-	-	-
30	-	12 727	19 252	23 314	27 993	33 350	39 446	-	-
40	-	11 256	17 238	20 954	25 235	30 145	35 744	49 257	-
50	-	-	15 050	18 380	22 226	26 649	31 711	44 000	-
60	-	-	-	15 605	18 975	22 873	27 359	38 347	-
65	-	-	-	-	17 263	20 883	25 067	-	-

Power input in W

15	-	-	-	-	-	-	-	-	-
20	-	4 133	4 226	4 149	3 945	3 578	-	-	-
30	-	4 920	5 114	5 160	5 128	4 983	4 691	-	-
40	-	6 013	6 151	6 243	6 305	6 303	6 203	5 572	-
50	-	-	7 532	7 592	7 670	7 734	7 747	7 491	-
60	-	-	-	9 404	9 420	9 471	9 520	9 481	-
65	-	-	-	-	10 501	10 515	10 553	-	-

Current consumption in A

15	-	-	-	-	-	-	-	-	-
20	-	16.74	16.96	16.83	16.46	15.81	-	-	-
30	-	18.00	18.39	18.46	18.39	18.12	17.60	-	-
40	-	20.12	20.39	20.53	20.62	20.60	20.41	19.37	-
50	-	-	23.34	23.43	23.54	23.63	23.64	23.25	-
60	-	-	-	27.52	27.52	27.59	27.66	27.66	-
65	-	-	-	-	30.03	30.03	30.09	-	-

Mass flow in kg/h

15	-	-	-	-	-	-	-	-	-
20	-	247	361	432	512	604	-	-	-
30	-	242	357	427	508	599	703	-	-
40	-	234	349	420	500	592	696	944	-
50	-	-	340	410	490	581	684	932	-
60	-	-	-	397	476	567	669	915	-
65	-	-	-	-	468	558	660	-	-

Coefficient of performance (C.O.P.)

15	-	-	-	-	-	-	-	-	-
20	-	3.41	4.99	6.13	7.73	10.13	-	-	-
30	-	2.59	3.76	4.52	5.46	6.69	8.41	-	-
40	-	1.87	2.80	3.36	4.00	4.78	5.76	8.84	-
50	-	-	2.00	2.42	2.90	3.45	4.09	5.87	-
60	-	-	-	1.66	2.01	2.42	2.87	4.04	-
65	-	-	-	-	1.64	1.99	2.38	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	27 060	W
Power input	8 471	W
Current consumption	25.27	A
Mass flow	619	kg/h
C.O.P.	3.19	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	78	dB(A)
With acoustic hood	73	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900