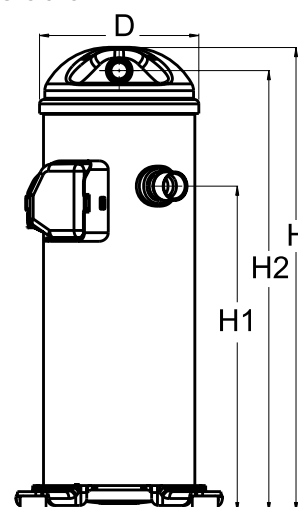


**General Characteristics**

Model number (on compressor nameplate)		<b>DCJ121T2LC6</b>
Code number for Singlepack*		121L5019
Code number for Industrial pack**		121L5018
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 <sup>3</sup> /rev
Displacement @ Nominal speed	15.1 m <sup>3</sup> /h @ 2900 rpm - 18.3 m <sup>3</sup> /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**

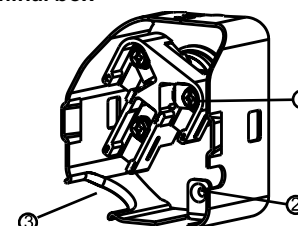


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**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)	34 A
Maximum Continuous Current (MCC)	53 A
Locked Rotor Amps (LRA)	265 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.**

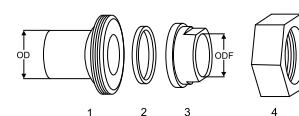
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012
Belt type crankcase heater, 70 W, 575 V, UL	120Z5013

**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

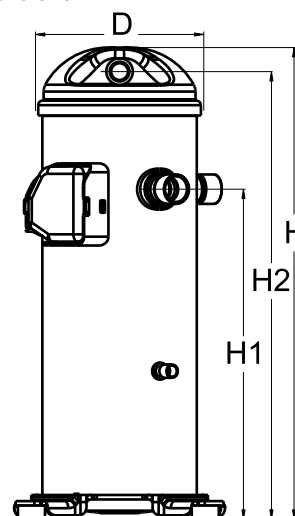
**Solder sleeve adapter set**


- 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)		<b>DCJ121T2LC8</b>
Code number for Singlepack*		121L5045
Code number for Industrial pack**		121L5044
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 <sup>3</sup> /rev
Displacement @ Nominal speed	15.1 m <sup>3</sup> /h @ 2900 rpm - 18.3 m <sup>3</sup> /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**

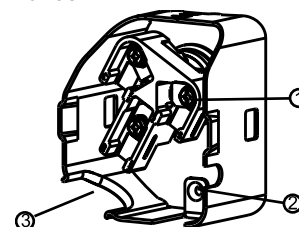


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**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)	34 A
Maximum Continuous Current (MCC)	53 A
Locked Rotor Amps (LRA)	265 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.**

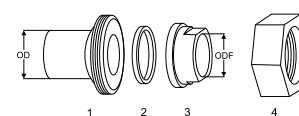
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

**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
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	-	14 719	21 898	26 387	31 561	37 482	-	-	-
30	-	13 072	19 815	24 011	28 840	34 365	40 649	-	-
40	-	11 135	17 285	21 108	25 512	30 559	36 310	50 175	-
50	-	-	14 383	17 749	21 642	26 124	31 254	43 701	-
60	-	-	-	13 956	17 236	21 043	25 436	36 213	-
65	-	-	-	-	14 759	18 163	22 116	-	-

**Power input in W**

15	-	-	-	-	-	-	-	-	-
20	-	4 317	4 411	4 388	4 281	4 066	-	-	-
30	-	5 275	5 384	5 434	5 445	5 390	5 243	-	-
40	-	6 695	6 644	6 680	6 721	6 740	6 711	6 401	-
50	-	-	8 480	8 414	8 397	8 403	8 404	8 286	-
60	-	-	-	10 923	10 761	10 666	10 610	10 510	-
65	-	-	-	-	12 291	12 112	11 995	-	-

**Current consumption in A**

15	-	-	-	-	-	-	-	-	-
20	-	21.93	22.26	22.32	22.24	21.96	-	-	-
30	-	22.78	22.96	23.05	23.06	22.96	22.68	-	-
40	-	26.07	25.91	25.92	25.94	25.90	25.76	24.99	-
50	-	-	30.95	30.80	30.71	30.65	30.55	30.07	-
60	-	-	-	37.54	37.26	37.07	36.92	36.53	-
65	-	-	-	-	41.16	40.86	40.64	-	-

**Mass flow in kg/h**

15	-	-	-	-	-	-	-	-	-
20	-	276	401	478	566	665	-	-	-
30	-	269	396	474	563	665	780	-	-
40	-	254	383	462	552	654	770	1 048	-
50	-	-	362	441	531	633	749	1 028	-
60	-	-	-	410	499	601	717	994	-
65	-	-	-	-	480	581	696	-	-

**Coefficient of performance (C.O.P.)**

15	-	-	-	-	-	-	-	-	-
20	-	3.41	4.96	6.01	7.37	9.22	-	-	-
30	-	2.48	3.68	4.42	5.30	6.38	7.75	-	-
40	-	1.66	2.60	3.16	3.80	4.53	5.41	7.84	-
50	-	-	1.70	2.11	2.58	3.11	3.72	5.27	-
60	-	-	-	1.28	1.60	1.97	2.40	3.45	-
65	-	-	-	-	1.20	1.50	1.84	-	-

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

Cooling capacity	26 124	W
Power input	8 403	W
Current consumption	30.65	A
Mass flow	633	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	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	-	15 720	23 350	28 116	33 605	39 882	-	-	-
30	-	14 101	21 334	25 829	30 997	36 905	43 619	-	-
40	-	12 181	18 862	23 007	27 778	33 240	39 458	54 433	-
50	-	-	16 020	19 739	24 034	28 973	34 619	48 303	-
60	-	-	-	16 111	19 854	24 191	29 188	41 427	-
65	-	-	-	-	17 628	21 635	26 278	-	-

**Power input in W**

15	-	-	-	-	-	-	-	-	-
20	-	4 317	4 411	4 388	4 281	4 066	-	-	-
30	-	5 275	5 384	5 434	5 445	5 390	5 243	-	-
40	-	6 695	6 644	6 680	6 721	6 740	6 711	6 401	-
50	-	-	8 480	8 414	8 397	8 403	8 404	8 286	-
60	-	-	-	10 923	10 761	10 666	10 610	10 510	-
65	-	-	-	-	12 291	12 112	11 995	-	-

**Current consumption in A**

15	-	-	-	-	-	-	-	-	-
20	-	21.93	22.26	22.32	22.24	21.96	-	-	-
30	-	22.78	22.96	23.05	23.06	22.96	22.68	-	-
40	-	26.07	25.91	25.92	25.94	25.90	25.76	24.99	-
50	-	-	30.95	30.80	30.71	30.65	30.55	30.07	-
60	-	-	-	37.54	37.26	37.07	36.92	36.53	-
65	-	-	-	-	41.16	40.86	40.64	-	-

**Mass flow in kg/h**

15	-	-	-	-	-	-	-	-	-
20	-	275	399	475	562	661	-	-	-
30	-	267	394	471	560	660	774	-	-
40	-	253	381	459	548	650	765	1 040	-
50	-	-	360	438	527	629	744	1 020	-
60	-	-	-	407	496	597	711	986	-
65	-	-	-	-	476	577	691	-	-

**Coefficient of performance (C.O.P.)**

15	-	-	-	-	-	-	-	-	-
20	-	3.64	5.29	6.41	7.85	9.81	-	-	-
30	-	2.67	3.96	4.75	5.69	6.85	8.32	-	-
40	-	1.82	2.84	3.44	4.13	4.93	5.88	8.50	-
50	-	-	1.89	2.35	2.86	3.45	4.12	5.83	-
60	-	-	-	1.47	1.85	2.27	2.75	3.94	-
65	-	-	-	-	1.43	1.79	2.19	-	-

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

Cooling capacity	29 201	W
Power input	9 301	W
Current consumption	33.23	A
Mass flow	665	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	-	17 915	26 527	31 911	38 116	45 216	-	-	-
30	-	16 025	24 104	29 131	34 916	41 534	49 061	-	-
40	-	13 822	21 193	25 772	31 046	37 089	43 976	60 579	-
50	-	-	17 854	21 891	26 558	31 927	38 072	52 980	-
60	-	-	-	17 481	21 423	25 993	31 263	44 184	-
65	-	-	-	-	18 507	22 602	27 350	-	-

**Power input in W**

15	-	-	-	-	-	-	-	-	-
20	-	5 272	5 418	5 355	5 137	4 717	-	-	-
30	-	6 367	6 598	6 686	6 693	6 570	6 270	-	-
40	-	7 961	8 025	8 138	8 243	8 292	8 235	7 617	-
50	-	-	10 044	10 057	10 135	10 228	10 289	10 124	-
60	-	-	-	12 788	12 711	12 723	12 776	12 813	-
65	-	-	-	-	14 364	14 288	14 290	-	-

**Current consumption in A**

15	-	-	-	-	-	-	-	-	-
20	-	19.97	20.22	20.00	19.45	18.50	-	-	-
30	-	22.04	22.50	22.61	22.53	22.19	21.51	-	-
40	-	25.58	25.74	25.92	26.05	26.07	25.89	24.67	-
50	-	-	30.63	30.62	30.71	30.83	30.90	30.60	-
60	-	-	-	37.41	37.20	37.16	37.23	37.34	-
65	-	-	-	-	41.35	41.14	41.10	-	-

**Mass flow in kg/h**

15	-	-	-	-	-	-	-	-	-
20	-	337	487	579	685	805	-	-	-
30	-	330	483	577	684	805	944	-	-
40	-	317	471	565	673	796	935	1 269	-
50	-	-	450	545	653	776	915	1 249	-
60	-	-	-	515	622	744	883	1 216	-
65	-	-	-	-	603	724	862	-	-

**Coefficient of performance (C.O.P.)**

15	-	-	-	-	-	-	-	-	-
20	-	3.40	4.90	5.96	7.42	9.59	-	-	-
30	-	2.52	3.65	4.36	5.22	6.32	7.83	-	-
40	-	1.74	2.64	3.17	3.77	4.47	5.34	7.95	-
50	-	-	1.78	2.18	2.62	3.12	3.70	5.23	-
60	-	-	-	1.37	1.69	2.04	2.45	3.45	-
65	-	-	-	-	1.29	1.58	1.91	-	-

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

Cooling capacity	31 927	W
Power input	10 228	W
Current consumption	30.83	A
Mass flow	776	kg/h
C.O.P.	3.12	

**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	-	19 134	28 286	34 002	40 584	48 111	-	-	-
30	-	17 287	25 953	31 336	37 527	44 604	52 646	-	-
40	-	15 121	23 126	28 091	33 803	40 343	47 789	65 719	-
50	-	-	19 886	24 346	29 493	35 409	42 172	58 558	-
60	-	-	-	20 181	24 677	29 882	35 876	50 545	-
65	-	-	-	-	22 105	26 922	32 498	-	-

Power input in W

15	-	-	-	-	-	-	-	-	-
20	-	5 272	5 418	5 355	5 137	4 717	-	-	-
30	-	6 367	6 598	6 686	6 693	6 570	6 270	-	-
40	-	7 961	8 025	8 138	8 243	8 292	8 235	7 617	-
50	-	-	10 044	10 057	10 135	10 228	10 289	10 124	-
60	-	-	-	12 788	12 711	12 723	12 776	12 813	-
65	-	-	-	-	14 364	14 288	14 290	-	-

Current consumption in A

15	-	-	-	-	-	-	-	-	-
20	-	19.97	20.22	20.00	19.45	18.50	-	-	-
30	-	22.04	22.50	22.61	22.53	22.19	21.51	-	-
40	-	25.58	25.74	25.92	26.05	26.07	25.89	24.67	-
50	-	-	30.63	30.62	30.71	30.83	30.90	30.60	-
60	-	-	-	37.41	37.20	37.16	37.23	37.34	-
65	-	-	-	-	41.35	41.14	41.10	-	-

Mass flow in kg/h

15	-	-	-	-	-	-	-	-	-
20	-	335	484	576	680	799	-	-	-
30	-	328	480	573	679	800	937	-	-
40	-	315	468	562	669	790	928	1 258	-
50	-	-	448	541	648	770	908	1 239	-
60	-	-	-	512	618	739	877	1 206	-
65	-	-	-	-	599	719	856	-	-

Coefficient of performance (C.O.P.)

15	-	-	-	-	-	-	-	-	-
20	-	3.63	5.22	6.35	7.90	10.20	-	-	-
30	-	2.72	3.93	4.69	5.61	6.79	8.40	-	-
40	-	1.90	2.88	3.45	4.10	4.87	5.80	8.63	-
50	-	-	1.98	2.42	2.91	3.46	4.10	5.78	-
60	-	-	-	1.58	1.94	2.35	2.81	3.94	-
65	-	-	-	-	1.54	1.88	2.27	-	-

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

Cooling capacity	35 771	W
Power input	11 271	W
Current consumption	33.43	A
Mass flow	817	kg/h
C.O.P.	3.17	

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