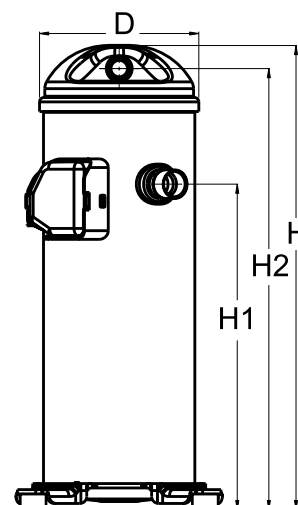


**General Characteristics**

Model number (on compressor nameplate)		<b>DCJ121T4LC6</b>
Code number for Singlepack*		121L5017
Code number for Industrial pack**		121L5016
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**

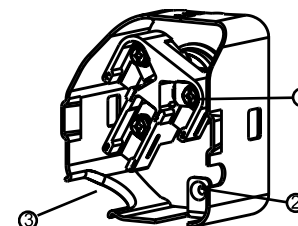


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.100 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.100 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.100 Ω
Rated Load Amps (RLA)	16 A
Maximum Continuous Current (MCC)	25 A
Locked Rotor Amps (LRA)	125 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.**

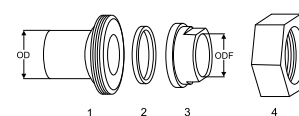
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012
Belt type crankcase heater, 70 W, 575 V, UL	120Z5013

**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

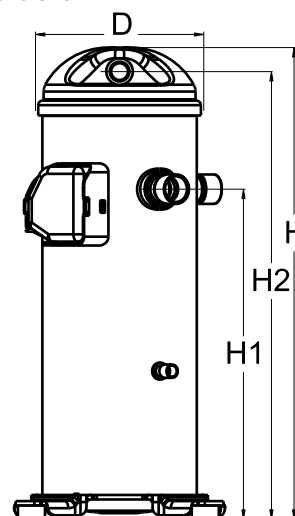
**Solder sleeve adapter set**


- 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>DCJ121T4LC8</b>
Code number for Singlepack*		121L5043
Code number for Industrial pack**		121L5042
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**

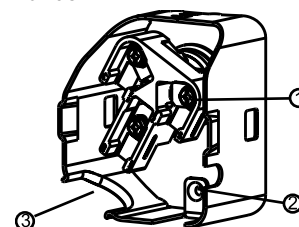


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.100 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.100 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.100 Ω
Rated Load Amps (RLA)	16 A
Maximum Continuous Current (MCC)	25 A
Locked Rotor Amps (LRA)	125 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.**

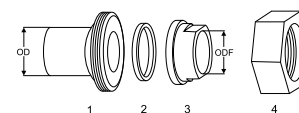
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

**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	-	14 787	21 999	26 509	31 707	37 655	-	-	-
30	-	13 132	19 906	24 122	28 974	34 524	40 836	-	-
40	-	11 186	17 365	21 205	25 630	30 700	36 478	50 407	-
50	-	-	14 449	17 831	21 743	26 244	31 398	43 903	-
60	-	-	-	14 021	17 316	21 140	25 553	36 380	-
65	-	-	-	-	14 827	18 247	22 218	-	-

**Power input in W**

15	-	-	-	-	-	-	-	-	-
20	-	4 332	4 426	4 403	4 296	4 079	-	-	-
30	-	5 293	5 403	5 453	5 464	5 409	5 261	-	-
40	-	6 718	6 667	6 703	6 744	6 763	6 734	6 423	-
50	-	-	8 509	8 443	8 426	8 431	8 432	8 315	-
60	-	-	-	10 960	10 798	10 702	10 646	10 546	-
65	-	-	-	-	12 333	12 153	12 036	-	-

**Current consumption in A**

15	-	-	-	-	-	-	-	-	-
20	-	10.52	10.68	10.70	10.66	10.53	-	-	-
30	-	10.92	11.01	11.05	11.06	11.01	10.88	-	-
40	-	12.50	12.42	12.43	12.44	12.42	12.35	11.98	-
50	-	-	14.84	14.77	14.73	14.70	14.65	14.42	-
60	-	-	-	18.00	17.87	17.78	17.70	17.52	-
65	-	-	-	-	19.74	19.60	19.49	-	-

**Mass flow in kg/h**

15	-	-	-	-	-	-	-	-	-
20	-	278	403	480	568	669	-	-	-
30	-	270	398	476	566	668	784	-	-
40	-	256	385	464	554	657	774	1 053	-
50	-	-	364	443	533	636	753	1 033	-
60	-	-	-	412	502	604	720	999	-
65	-	-	-	-	482	583	699	-	-

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

15	-	-	-	-	-	-	-	-	-
20	-	3.41	4.97	6.02	7.38	9.23	-	-	-
30	-	2.48	3.68	4.42	5.30	6.38	7.76	-	-
40	-	1.67	2.60	3.16	3.80	4.54	5.42	7.85	-
50	-	-	1.70	2.11	2.58	3.11	3.72	5.28	-
60	-	-	-	1.28	1.60	1.98	2.40	3.45	-
65	-	-	-	-	1.20	1.50	1.85	-	-

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

Cooling capacity	26 244	W
Power input	8 431	W
Current consumption	14.70	A
Mass flow	636	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

Cooling capacity in W

15	-	-	-	-	-	-	-	-	-
20	-	15 793	23 458	28 246	33 760	40 066	-	-	-
30	-	14 167	21 433	25 948	31 140	37 076	43 820	-	-
40	-	12 237	18 949	23 114	27 906	33 393	39 641	54 684	-
50	-	-	16 094	19 830	24 146	29 106	34 779	48 526	-
60	-	-	-	16 186	19 946	24 303	29 323	41 618	-
65	-	-	-	-	17 709	21 735	26 400	-	-

Power input in W

15	-	-	-	-	-	-	-	-	-
20	-	4 332	4 426	4 403	4 296	4 079	-	-	-
30	-	5 293	5 403	5 453	5 464	5 409	5 261	-	-
40	-	6 718	6 667	6 703	6 744	6 763	6 734	6 423	-
50	-	-	8 509	8 443	8 426	8 431	8 432	8 315	-
60	-	-	-	10 960	10 798	10 702	10 646	10 546	-
65	-	-	-	-	12 333	12 153	12 036	-	-

Current consumption in A

15	-	-	-	-	-	-	-	-	-
20	-	10.52	10.68	10.70	10.66	10.53	-	-	-
30	-	10.92	11.01	11.05	11.06	11.01	10.88	-	-
40	-	12.50	12.42	12.43	12.44	12.42	12.35	11.98	-
50	-	-	14.84	14.77	14.73	14.70	14.65	14.42	-
60	-	-	-	18.00	17.87	17.78	17.70	17.52	-
65	-	-	-	-	19.74	19.60	19.49	-	-

Mass flow in kg/h

15	-	-	-	-	-	-	-	-	-
20	-	276	401	477	564	664	-	-	-
30	-	268	395	473	562	663	778	-	-
40	-	254	383	461	551	653	768	1 045	-
50	-	-	361	440	530	632	747	1 024	-
60	-	-	-	409	498	600	715	991	-
65	-	-	-	-	479	579	694	-	-

Coefficient of performance (C.O.P.)

15	-	-	-	-	-	-	-	-	-
20	-	3.65	5.30	6.42	7.86	9.82	-	-	-
30	-	2.68	3.97	4.76	5.70	6.85	8.33	-	-
40	-	1.82	2.84	3.45	4.14	4.94	5.89	8.51	-
50	-	-	1.89	2.35	2.87	3.45	4.12	5.84	-
60	-	-	-	1.48	1.85	2.27	2.75	3.95	-
65	-	-	-	-	1.44	1.79	2.19	-	-

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

Cooling capacity	29 336	W
Power input	9 333	W
Current consumption	15.94	A
Mass flow	668	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	-	17 891	26 491	31 868	38 064	45 155	-	-	-
30	-	16 003	24 072	29 092	34 869	41 478	48 995	-	-
40	-	13 803	21 164	25 737	31 004	37 039	43 917	60 497	-
50	-	-	17 830	21 862	26 522	31 884	38 021	52 908	-
60	-	-	-	17 458	21 394	25 958	31 221	44 125	-
65	-	-	-	-	18 482	22 571	27 313	-	-

**Power input in W**

15	-	-	-	-	-	-	-	-	-
20	-	5 202	5 346	5 284	5 069	4 655	-	-	-
30	-	6 282	6 510	6 597	6 604	6 483	6 186	-	-
40	-	7 855	7 918	8 030	8 134	8 182	8 126	7 516	-
50	-	-	9 911	9 924	10 000	10 092	10 152	9 990	-
60	-	-	-	12 618	12 542	12 554	12 606	12 643	-
65	-	-	-	-	14 173	14 099	14 100	-	-

**Current consumption in A**

15	-	-	-	-	-	-	-	-	-
20	-	9.60	9.72	9.62	9.35	8.89	-	-	-
30	-	10.60	10.82	10.87	10.83	10.67	10.34	-	-
40	-	12.30	12.38	12.46	12.53	12.53	12.45	11.86	-
50	-	-	14.73	14.72	14.77	14.82	14.86	14.71	-
60	-	-	-	17.99	17.89	17.87	17.90	17.95	-
65	-	-	-	-	19.88	19.78	19.76	-	-

**Mass flow in kg/h**

15	-	-	-	-	-	-	-	-	-
20	-	337	487	579	684	804	-	-	-
30	-	330	482	576	683	804	942	-	-
40	-	316	470	565	672	795	934	1 267	-
50	-	-	450	544	652	775	914	1 247	-
60	-	-	-	514	621	743	882	1 215	-
65	-	-	-	-	602	723	861	-	-

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

15	-	-	-	-	-	-	-	-	-
20	-	3.44	4.96	6.03	7.51	9.70	-	-	-
30	-	2.55	3.70	4.41	5.28	6.40	7.92	-	-
40	-	1.76	2.67	3.20	3.81	4.53	5.40	8.05	-
50	-	-	1.80	2.20	2.65	3.16	3.75	5.30	-
60	-	-	-	1.38	1.71	2.07	2.48	3.49	-
65	-	-	-	-	1.30	1.60	1.94	-	-

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

Cooling capacity	31 884	W
Power input	10 092	W
Current consumption	14.82	A
Mass flow	775	kg/h
C.O.P.	3.16	

**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	-	19 108	28 248	33 956	40 529	48 046	-	-	-
30	-	17 264	25 918	31 294	37 476	44 543	52 575	-	-
40	-	15 100	23 095	28 053	33 758	40 288	47 724	65 630	-
50	-	-	19 859	24 313	29 453	35 361	42 115	58 479	-
60	-	-	-	20 154	24 644	29 842	35 827	50 477	-
65	-	-	-	-	22 075	26 886	32 454	-	-

**Power input in W**

15	-	-	-	-	-	-	-	-	-
20	-	5 202	5 346	5 284	5 069	4 655	-	-	-
30	-	6 282	6 510	6 597	6 604	6 483	6 186	-	-
40	-	7 855	7 918	8 030	8 134	8 182	8 126	7 516	-
50	-	-	9 911	9 924	10 000	10 092	10 152	9 990	-
60	-	-	-	12 618	12 542	12 554	12 606	12 643	-
65	-	-	-	-	14 173	14 099	14 100	-	-

**Current consumption in A**

15	-	-	-	-	-	-	-	-	-
20	-	9.60	9.72	9.62	9.35	8.89	-	-	-
30	-	10.60	10.82	10.87	10.83	10.67	10.34	-	-
40	-	12.30	12.38	12.46	12.53	12.53	12.45	11.86	-
50	-	-	14.73	14.72	14.77	14.82	14.86	14.71	-
60	-	-	-	17.99	17.89	17.87	17.90	17.95	-
65	-	-	-	-	19.88	19.78	19.76	-	-

**Mass flow in kg/h**

15	-	-	-	-	-	-	-	-	-
20	-	335	484	575	679	798	-	-	-
30	-	328	479	572	678	799	936	-	-
40	-	314	467	561	668	789	927	1 257	-
50	-	-	447	541	648	769	907	1 237	-
60	-	-	-	511	617	738	875	1 205	-
65	-	-	-	-	598	718	855	-	-

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

15	-	-	-	-	-	-	-	-	-
20	-	3.67	5.28	6.43	8.00	10.32	-	-	-
30	-	2.75	3.98	4.74	5.67	6.87	8.50	-	-
40	-	1.92	2.92	3.49	4.15	4.92	5.87	8.73	-
50	-	-	2.00	2.45	2.95	3.50	4.15	5.85	-
60	-	-	-	1.60	1.96	2.38	2.84	3.99	-
65	-	-	-	-	1.56	1.91	2.30	-	-

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

Cooling capacity	35 723	W
Power input	11 122	W
Current consumption	16.07	A
Mass flow	815	kg/h
C.O.P.	3.21	

**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