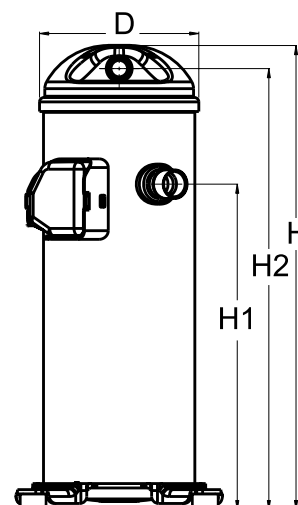


General Characteristics

| | | |
|---|---|---------------------------|
| Model number (on compressor nameplate) | | DCJ121T7LC6 |
| Code number for Singlepack* | | 121L5021 |
| Code number for Industrial pack** | | 121L5020 |
| 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

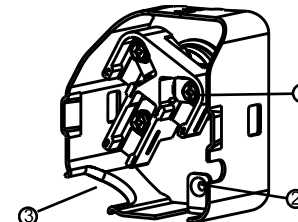


D=184 mm
H=565 mm
H1=404.7 mm
H2=537.8 mm
H3=- mm

Electrical Characteristics

| | |
|--|-----------------------------|
| Nominal voltage | 575V/3/60Hz |
| Voltage range | 517-633 V @ 60Hz |
| Winding resistance between phases 1-2 +/- 7% at 25°C | 1.600 Ω |
| Winding resistance between phases 1-3 +/- 7% at 25°C | 1.600 Ω |
| Winding resistance between phases 2-3 +/- 7% at 25°C | 1.600 Ω |
| Rated Load Amps (RLA) | 12.8 A |
| Maximum Continuous Current (MCC) | 20 A |
| Locked Rotor Amps (LRA) | 110 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 |
|--|----------|

Crankcase heaters
Code no.

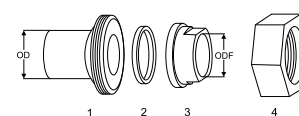
| | |
|--|----------|
| Belt type crankcase heater, 70 W, 230 V, UL | 120Z5011 |
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 120Z0059 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 120Z0060 |
| Belt type crankcase heater, 70 W, 460 V, UL | 120Z5012 |
| Belt type crankcase heater,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

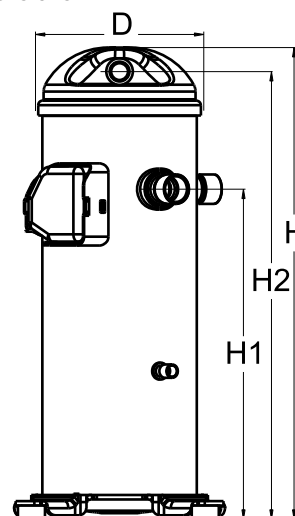
Solder sleeve adapter set


- 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) | | DCJ121T7LC8 |
| Code number for Singlepack* | | 121L5047 |
| Code number for Industrial pack** | | 121L5046 |
| 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

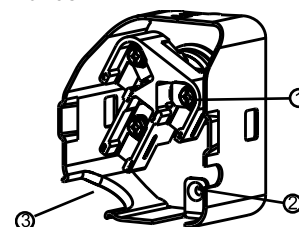


D=184 mm
H=565 mm
H1=404.7 mm
H2=537.8 mm
H3=- mm

Electrical Characteristics

| | |
|--|-----------------------------|
| Nominal voltage | 575V/3/60Hz |
| Voltage range | 517-633 V @ 60Hz |
| Winding resistance between phases 1-2 +/- 7% at 25°C | 1.600 Ω |
| Winding resistance between phases 1-3 +/- 7% at 25°C | 1.600 Ω |
| Winding resistance between phases 2-3 +/- 7% at 25°C | 1.600 Ω |
| Rated Load Amps (RLA) | 12.8 A |
| Maximum Continuous Current (MCC) | 20 A |
| Locked Rotor Amps (LRA) | 110 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 |
|--|----------|

Crankcase heaters
Code no.

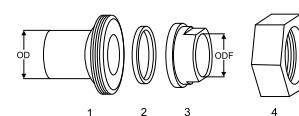
| | |
|--|----------|
| Belt type crankcase heater, 70 W, 230 V, UL | 120Z5011 |
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 120Z0059 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 120Z0060 |
| Belt type crankcase heater, 70 W, 460 V, UL | 120Z5012 |
| Belt type crankcase heater, 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 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 | - | 7.75 | 7.85 | 7.76 | 7.55 | 7.18 | - | - | - |
| 30 | - | 8.56 | 8.73 | 8.77 | 8.74 | 8.61 | 8.35 | - | - |
| 40 | - | 9.93 | 9.99 | 10.06 | 10.11 | 10.12 | 10.05 | 9.57 | - |
| 50 | - | - | 11.89 | 11.89 | 11.92 | 11.97 | 11.99 | 11.88 | - |
| 60 | - | - | - | 14.52 | 14.44 | 14.43 | 14.45 | 14.49 | - |
| 65 | - | - | - | - | 16.05 | 15.97 | 15.95 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-------|---|
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | - | 338 | 488 | 580 | 685 | 805 | - | - | - |
| 30 | - | 330 | 483 | 577 | 684 | 806 | 944 | - | - |
| 40 | - | 317 | 471 | 566 | 674 | 796 | 936 | 1 269 | - |
| 50 | - | - | 451 | 545 | 653 | 776 | 916 | 1 250 | - |
| 60 | - | - | - | 515 | 622 | 745 | 884 | 1 217 | - |
| 65 | - | - | - | - | 603 | 725 | 863 | - | - |

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 | 11.97 | A |
| Mass flow | 776 | 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 | - | 7.75 | 7.85 | 7.76 | 7.55 | 7.18 | - | - | - |
| 30 | - | 8.56 | 8.73 | 8.77 | 8.74 | 8.61 | 8.35 | - | - |
| 40 | - | 9.93 | 9.99 | 10.06 | 10.11 | 10.12 | 10.05 | 9.57 | - |
| 50 | - | - | 11.89 | 11.89 | 11.92 | 11.97 | 11.99 | 11.88 | - |
| 60 | - | - | - | 14.52 | 14.44 | 14.43 | 14.45 | 14.49 | - |
| 65 | - | - | - | - | 16.05 | 15.97 | 15.95 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|---|-----|-----|-----|-----|-----|-----|-------|---|
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | - | 336 | 485 | 576 | 681 | 800 | - | - | - |
| 30 | - | 328 | 480 | 573 | 680 | 800 | 937 | - | - |
| 40 | - | 315 | 468 | 562 | 669 | 791 | 929 | 1 259 | - |
| 50 | - | - | 448 | 542 | 649 | 771 | 909 | 1 240 | - |
| 60 | - | - | - | 512 | 618 | 740 | 877 | 1 207 | - |
| 65 | - | - | - | - | 599 | 720 | 857 | - | - |

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 | 12.97 | A |
| Mass flow | 817 | 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