

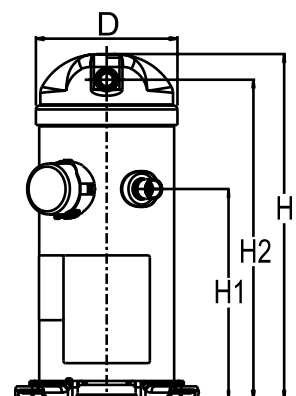
Datasheets

Danfoss scroll compressors **H series**



General Characteristics

Model number (on compressor nameplate)		HRP058T4LC8
Code number for Singlepack*		120U1706
Code number for Industrial pack**		120U1703
Drawing number		0XR6049B-2
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		1/2"
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		78.17 cm ³ /rev
Displacement @ Nominal speed		13.6 m ³ /h @ 2900 rpm - 16.4 m ³ /h @ 3500 rpm
Net weight		37.19 kg
Oil charge		1.57 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		5.44 kg
Approved refrigerants		R407C

Dimensions


D=183.5 mm

H=455 mm

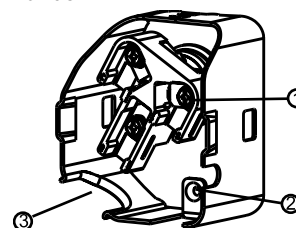
H1=280 mm

H2=422 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	2.316 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	2.330 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	2.360 Ω
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	14 A
Locked Rotor Amps (LRA)	70 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	52.5 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 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side
Code no.

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Solder sleeve adapter set


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

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
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, 50 W, 230 V, CE mark, UL	120Z0057
Belt type crankcase heater, 50 W, 400 V, CE mark, UL	120Z0058

Miscellaneous accessories
Code no.

Acoustic hood	120Z5044
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	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
No translation for 120Z5018	120Z5018

Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 190	5 337	6 739	8 426	10 424	12 762	15 468	18 569
35	-	3 892	4 988	6 325	7 931	9 834	12 063	14 644	17 607
40	-	3 605	4 645	5 913	7 435	9 240	11 356	13 809	16 629
45	-	-	4 303	5 497	6 932	8 635	10 633	12 955	15 627
50	-	-	-	5 070	6 414	8 011	9 888	12 074	14 595
55	-	-	-	-	5 873	7 360	9 113	11 158	13 524
60	-	-	-	-	-	6 676	8 299	10 200	12 405
65	-	-	-	-	-	-	7 439	9 190	11 230

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	180	218	263	313	371
35	-	94	117	145	178	216	260	310	368
40	-	91	115	142	175	213	257	307	365
45	-	-	111	139	171	209	253	303	362
50	-	-	-	134	166	204	248	299	357
55	-	-	-	-	160	198	242	293	351
60	-	-	-	-	-	190	234	285	344
65	-	-	-	-	-	-	225	276	335

Coefficient of performance (C.O.P.)

30	-	1.95	2.41	2.94	3.57	4.28	5.07	5.95	6.90
35	-	1.49	1.89	2.36	2.93	3.57	4.31	5.14	6.05
40	-	1.17	1.51	1.92	2.41	2.98	3.65	4.40	5.24
45	-	-	1.21	1.56	1.98	2.48	3.06	3.73	4.48
50	-	-	-	1.27	1.62	2.05	2.55	3.12	3.78
55	-	-	-	-	1.32	1.67	2.10	2.58	3.14
60	-	-	-	-	-	1.35	1.70	2.11	2.58
65	-	-	-	-	-	-	1.36	1.69	2.08

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

Cooling capacity	12 074	W
Power input	3 865	W
Current consumption	4.96	A
Mass flow	299	kg/h
C.O.P.	3.12	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 500	5 724	7 220	9 016	11 142	13 628	16 501	19 791
35	-	4 201	5 375	6 808	8 526	10 560	12 938	15 689	18 844
40	-	3 913	5 035	6 399	8 036	9 973	12 241	14 868	17 883
45	-	-	4 694	5 988	7 539	9 376	11 530	14 028	16 900
50	-	-	-	5 564	7 026	8 761	10 796	13 162	15 888
55	-	-	-	-	6 491	8 118	10 032	12 263	14 838
60	-	-	-	-	-	7 442	9 231	11 321	13 743
65	-	-	-	-	-	-	8 383	10 331	12 595

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	179	217	261	311	369
35	-	93	117	144	177	215	258	309	366
40	-	91	114	142	174	211	255	306	363
45	-	-	111	138	170	208	251	302	359
50	-	-	-	133	165	203	246	297	355
55	-	-	-	-	159	196	240	291	349
60	-	-	-	-	-	189	233	284	342
65	-	-	-	-	-	-	223	275	334

Coefficient of performance (C.O.P.)

30	-	2.10	2.58	3.15	3.82	4.57	5.41	6.34	7.35
35	-	1.61	2.03	2.54	3.14	3.84	4.63	5.51	6.47
40	-	1.27	1.63	2.08	2.60	3.22	3.93	4.74	5.63
45	-	-	1.32	1.70	2.16	2.69	3.32	4.04	4.84
50	-	-	-	1.39	1.78	2.24	2.78	3.41	4.11
55	-	-	-	-	1.46	1.85	2.31	2.84	3.45
60	-	-	-	-	-	1.51	1.89	2.34	2.85
65	-	-	-	-	-	-	1.53	1.90	2.33

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

Cooling capacity	13 469	W
Power input	4 252	W
Current consumption	5.32	A
Mass flow	316	kg/h
C.O.P.	3.17	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 190	5 337	6 739	8 426	10 424	12 762	15 468	18 569
35	-	3 892	4 988	6 325	7 931	9 834	12 063	14 644	17 607
40	-	3 605	4 645	5 913	7 435	9 240	11 356	13 809	16 629
45	-	-	4 303	5 497	6 932	8 635	10 633	12 955	15 627
50	-	-	-	5 070	6 414	8 011	9 888	12 074	14 595
55	-	-	-	-	5 873	7 360	9 113	11 158	13 524
60	-	-	-	-	-	6 676	8 299	10 200	12 405
65	-	-	-	-	-	-	7 439	9 190	11 230

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	180	218	263	313	371
35	-	94	117	145	178	216	260	310	368
40	-	91	115	142	175	213	257	307	365
45	-	-	111	139	171	209	253	303	362
50	-	-	-	134	166	204	248	299	357
55	-	-	-	-	160	198	242	293	351
60	-	-	-	-	-	190	234	285	344
65	-	-	-	-	-	-	225	276	335

Coefficient of performance (C.O.P.)

30	-	1.95	2.41	2.94	3.57	4.28	5.07	5.95	6.90
35	-	1.49	1.89	2.36	2.93	3.57	4.31	5.14	6.05
40	-	1.17	1.51	1.92	2.41	2.98	3.65	4.40	5.24
45	-	-	1.21	1.56	1.98	2.48	3.06	3.73	4.48
50	-	-	-	1.27	1.62	2.05	2.55	3.12	3.78
55	-	-	-	-	1.32	1.67	2.10	2.58	3.14
60	-	-	-	-	-	1.35	1.70	2.11	2.58
65	-	-	-	-	-	-	1.36	1.69	2.08

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

Cooling capacity	12 074	W
Power input	3 865	W
Current consumption	4.96	A
Mass flow	299	kg/h
C.O.P.	3.12	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 500	5 724	7 220	9 016	11 142	13 628	16 501	19 791
35	-	4 201	5 375	6 808	8 526	10 560	12 938	15 689	18 844
40	-	3 913	5 035	6 399	8 036	9 973	12 241	14 868	17 883
45	-	-	4 694	5 988	7 539	9 376	11 530	14 028	16 900
50	-	-	-	5 564	7 026	8 761	10 796	13 162	15 888
55	-	-	-	-	6 491	8 118	10 032	12 263	14 838
60	-	-	-	-	-	7 442	9 231	11 321	13 743
65	-	-	-	-	-	-	8 383	10 331	12 595

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	179	217	261	311	369
35	-	93	117	144	177	215	258	309	366
40	-	91	114	142	174	211	255	306	363
45	-	-	111	138	170	208	251	302	359
50	-	-	-	133	165	203	246	297	355
55	-	-	-	-	159	196	240	291	349
60	-	-	-	-	-	189	233	284	342
65	-	-	-	-	-	-	223	275	334

Coefficient of performance (C.O.P.)

30	-	2.10	2.58	3.15	3.82	4.57	5.41	6.34	7.35
35	-	1.61	2.03	2.54	3.14	3.84	4.63	5.51	6.47
40	-	1.27	1.63	2.08	2.60	3.22	3.93	4.74	5.63
45	-	-	1.32	1.70	2.16	2.69	3.32	4.04	4.84
50	-	-	-	1.39	1.78	2.24	2.78	3.41	4.11
55	-	-	-	-	1.46	1.85	2.31	2.84	3.45
60	-	-	-	-	-	1.51	1.89	2.34	2.85
65	-	-	-	-	-	-	1.53	1.90	2.33

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

Cooling capacity	13 469	W
Power input	4 252	W
Current consumption	5.32	A
Mass flow	316	kg/h
C.O.P.	3.17	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	dB(A)

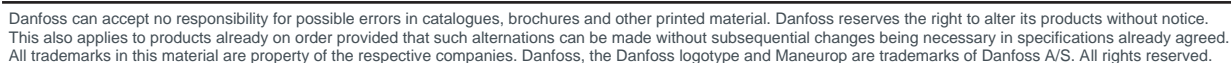
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

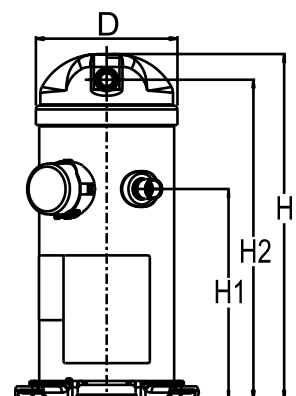
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General Characteristics

Model number (on compressor nameplate)		HRP058T4LP6
Code number for Singlepack*		120U1701
Code number for Industrial pack**		120U1698
Drawing number		0XR6002B-2
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		78.17 cm ³ /rev
Displacement @ Nominal speed		13.6 m ³ /h @ 2900 rpm - 16.4 m ³ /h @ 3500 rpm
Net weight		37.19 kg
Oil charge		1.57 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		5.44 kg
Approved refrigerants		R407C

Dimensions



D=183.5 mm

H=455 mm

H1=280 mm

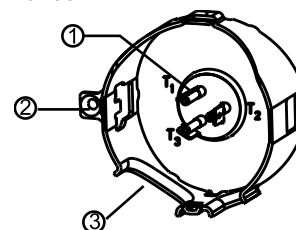
H2=422 mm

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	2.316 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	2.330 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	2.360 Ω
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	14 A
Locked Rotor Amps (LRA)	70 A
Motor protection	Internal overload protector

Terminal box



Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

IP22

1: Spade connectors 1/4"

2: Earth connection

3: Power cable passage

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

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side

Code no.

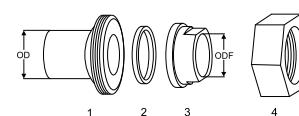
Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side

Code no.

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Solder sleeve adapter set



Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
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, 50 W, 230 V, CE mark, UL	120Z0057
Belt type crankcase heater, 50 W, 400 V, CE mark, UL	120Z0058

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

Miscellaneous accessories

Code no.

Acoustic hood	120Z5044
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

Spare parts

Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
No translation for 120Z5015	120Z5015

Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 190	5 337	6 739	8 426	10 424	12 762	15 468	18 569
35	-	3 892	4 988	6 325	7 931	9 834	12 063	14 644	17 607
40	-	3 605	4 645	5 913	7 435	9 240	11 356	13 809	16 629
45	-	-	4 303	5 497	6 932	8 635	10 633	12 955	15 627
50	-	-	-	5 070	6 414	8 011	9 888	12 074	14 595
55	-	-	-	-	5 873	7 360	9 113	11 158	13 524
60	-	-	-	-	-	6 676	8 299	10 200	12 405
65	-	-	-	-	-	-	7 439	9 190	11 230

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	180	218	263	313	371
35	-	94	117	145	178	216	260	310	368
40	-	91	115	142	175	213	257	307	365
45	-	-	111	139	171	209	253	303	362
50	-	-	-	134	166	204	248	299	357
55	-	-	-	-	160	198	242	293	351
60	-	-	-	-	-	190	234	285	344
65	-	-	-	-	-	-	225	276	335

Coefficient of performance (C.O.P.)

30	-	1.95	2.41	2.94	3.57	4.28	5.07	5.95	6.90
35	-	1.49	1.89	2.36	2.93	3.57	4.31	5.14	6.05
40	-	1.17	1.51	1.92	2.41	2.98	3.65	4.40	5.24
45	-	-	1.21	1.56	1.98	2.48	3.06	3.73	4.48
50	-	-	-	1.27	1.62	2.05	2.55	3.12	3.78
55	-	-	-	-	1.32	1.67	2.10	2.58	3.14
60	-	-	-	-	-	1.35	1.70	2.11	2.58
65	-	-	-	-	-	-	1.36	1.69	2.08

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

Cooling capacity	12 074	W
Power input	3 865	W
Current consumption	4.96	A
Mass flow	299	kg/h
C.O.P.	3.12	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With accoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 500	5 724	7 220	9 016	11 142	13 628	16 501	19 791
35	-	4 201	5 375	6 808	8 526	10 560	12 938	15 689	18 844
40	-	3 913	5 035	6 399	8 036	9 973	12 241	14 868	17 883
45	-	-	4 694	5 988	7 539	9 376	11 530	14 028	16 900
50	-	-	-	5 564	7 026	8 761	10 796	13 162	15 888
55	-	-	-	-	6 491	8 118	10 032	12 263	14 838
60	-	-	-	-	-	7 442	9 231	11 321	13 743
65	-	-	-	-	-	-	8 383	10 331	12 595

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	179	217	261	311	369
35	-	93	117	144	177	215	258	309	366
40	-	91	114	142	174	211	255	306	363
45	-	-	111	138	170	208	251	302	359
50	-	-	-	133	165	203	246	297	355
55	-	-	-	-	159	196	240	291	349
60	-	-	-	-	-	189	233	284	342
65	-	-	-	-	-	-	223	275	334

Coefficient of performance (C.O.P.)

30	-	2.10	2.58	3.15	3.82	4.57	5.41	6.34	7.35
35	-	1.61	2.03	2.54	3.14	3.84	4.63	5.51	6.47
40	-	1.27	1.63	2.08	2.60	3.22	3.93	4.74	5.63
45	-	-	1.32	1.70	2.16	2.69	3.32	4.04	4.84
50	-	-	-	1.39	1.78	2.24	2.78	3.41	4.11
55	-	-	-	-	1.46	1.85	2.31	2.84	3.45
60	-	-	-	-	-	1.51	1.89	2.34	2.85
65	-	-	-	-	-	-	1.53	1.90	2.33

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

Cooling capacity	13 469	W
Power input	4 252	W
Current consumption	5.32	A
Mass flow	316	kg/h
C.O.P.	3.17	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 190	5 337	6 739	8 426	10 424	12 762	15 468	18 569
35	-	3 892	4 988	6 325	7 931	9 834	12 063	14 644	17 607
40	-	3 605	4 645	5 913	7 435	9 240	11 356	13 809	16 629
45	-	-	4 303	5 497	6 932	8 635	10 633	12 955	15 627
50	-	-	-	5 070	6 414	8 011	9 888	12 074	14 595
55	-	-	-	-	5 873	7 360	9 113	11 158	13 524
60	-	-	-	-	-	6 676	8 299	10 200	12 405
65	-	-	-	-	-	-	7 439	9 190	11 230

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	180	218	263	313	371
35	-	94	117	145	178	216	260	310	368
40	-	91	115	142	175	213	257	307	365
45	-	-	111	139	171	209	253	303	362
50	-	-	-	134	166	204	248	299	357
55	-	-	-	-	160	198	242	293	351
60	-	-	-	-	-	190	234	285	344
65	-	-	-	-	-	-	225	276	335

Coefficient of performance (C.O.P.)

30	-	1.95	2.41	2.94	3.57	4.28	5.07	5.95	6.90
35	-	1.49	1.89	2.36	2.93	3.57	4.31	5.14	6.05
40	-	1.17	1.51	1.92	2.41	2.98	3.65	4.40	5.24
45	-	-	1.21	1.56	1.98	2.48	3.06	3.73	4.48
50	-	-	-	1.27	1.62	2.05	2.55	3.12	3.78
55	-	-	-	-	1.32	1.67	2.10	2.58	3.14
60	-	-	-	-	-	1.35	1.70	2.11	2.58
65	-	-	-	-	-	-	1.36	1.69	2.08

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

Cooling capacity	12 074	W
Power input	3 865	W
Current consumption	4.96	A
Mass flow	299	kg/h
C.O.P.	3.12	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	4 500	5 724	7 220	9 016	11 142	13 628	16 501	19 791
35	-	4 201	5 375	6 808	8 526	10 560	12 938	15 689	18 844
40	-	3 913	5 035	6 399	8 036	9 973	12 241	14 868	17 883
45	-	-	4 694	5 988	7 539	9 376	11 530	14 028	16 900
50	-	-	-	5 564	7 026	8 761	10 796	13 162	15 888
55	-	-	-	-	6 491	8 118	10 032	12 263	14 838
60	-	-	-	-	-	7 442	9 231	11 321	13 743
65	-	-	-	-	-	-	8 383	10 331	12 595

Power input in W

30	-	2 146	2 217	2 289	2 362	2 438	2 517	2 601	2 691
35	-	2 611	2 642	2 675	2 711	2 751	2 797	2 850	2 910
40	-	3 091	3 085	3 084	3 087	3 096	3 113	3 139	3 174
45	-	-	3 555	3 523	3 498	3 480	3 472	3 475	3 489
50	-	-	-	4 000	3 950	3 910	3 882	3 865	3 863
55	-	-	-	-	4 452	4 394	4 349	4 318	4 303
60	-	-	-	-	-	4 939	4 882	4 841	4 817
65	-	-	-	-	-	-	5 487	5 440	5 412

Current consumption in A

30	-	3.17	3.12	3.18	3.31	3.46	3.60	3.68	3.66
35	-	4.00	3.86	3.85	3.91	4.01	4.10	4.14	4.09
40	-	4.57	4.37	4.30	4.31	4.36	4.42	4.43	4.37
45	-	-	4.75	4.63	4.61	4.63	4.67	4.67	4.60
50	-	-	-	4.95	4.90	4.92	4.95	4.96	4.90
55	-	-	-	-	5.30	5.32	5.36	5.39	5.36
60	-	-	-	-	-	5.94	6.01	6.08	6.09
65	-	-	-	-	-	-	7.00	7.12	7.19

Mass flow in kg/h

30	-	95	119	147	179	217	261	311	369
35	-	93	117	144	177	215	258	309	366
40	-	91	114	142	174	211	255	306	363
45	-	-	111	138	170	208	251	302	359
50	-	-	-	133	165	203	246	297	355
55	-	-	-	-	159	196	240	291	349
60	-	-	-	-	-	189	233	284	342
65	-	-	-	-	-	-	223	275	334

Coefficient of performance (C.O.P.)

30	-	2.10	2.58	3.15	3.82	4.57	5.41	6.34	7.35
35	-	1.61	2.03	2.54	3.14	3.84	4.63	5.51	6.47
40	-	1.27	1.63	2.08	2.60	3.22	3.93	4.74	5.63
45	-	-	1.32	1.70	2.16	2.69	3.32	4.04	4.84
50	-	-	-	1.39	1.78	2.24	2.78	3.41	4.11
55	-	-	-	-	1.46	1.85	2.31	2.84	3.45
60	-	-	-	-	-	1.51	1.89	2.34	2.85
65	-	-	-	-	-	-	1.53	1.90	2.33

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

Cooling capacity	13 469	W
Power input	4 252	W
Current consumption	5.32	A
Mass flow	316	kg/h
C.O.P.	3.17	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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