

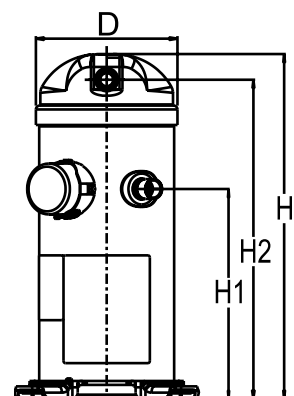
Datasheets

Danfoss scroll compressors **H series**



General Characteristics

Model number (on compressor nameplate)		HRP025T4LP6
Code number for Singlepack*		120U3088
Code number for Industrial pack**		120U3087
Drawing number		0XC6301B-2
Suction and discharge connections		Brazed
Suction connection		3/4 " 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		33.77 cm ³ /rev
Displacement @ Nominal speed		5.9 m ³ /h @ 2900 rpm - 7.1 m ³ /h @ 3500 rpm
Net weight		30.8 kg
Oil charge		1.06 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		3.63 kg
Approved refrigerants		R407C

Dimensions


D=164.5 mm

H=413 mm

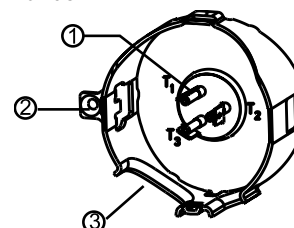
H1=250 mm

H2=379 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	6.724 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	6.724 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	4.952 Ω
Rated Load Amps (RLA)	4.5 A
Maximum Continuous Current (MCC)	7 A
Locked Rotor Amps (LRA)	30 A
Motor protection	Internal overload protector

Terminal box


IP22

1: Spade connectors 1/4"

2: Earth connection

3: Power cable passage

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

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

*Singlepack: Compressor in cardboard box

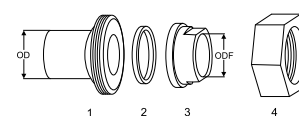
**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side
Code no.

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
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, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
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, 40 W, 230 V, CE mark, UL	120Z0055
Belt type crankcase heater, 40 W, 400 V, CE mark, UL	120Z0056

Miscellaneous accessories
Code no.

Acoustic hood	120Z5043
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	-	1 921	2 414	2 997	3 673	4 450	5 333	6 327	7 440
35	-	1 781	2 263	2 830	3 486	4 238	5 091	6 052	7 126
40	-	1 645	2 112	2 658	3 289	4 012	4 831	5 754	6 785
45	-	-	1 968	2 490	3 092	3 781	4 562	5 442	6 425
50	-	-	-	2 335	2 903	3 554	4 292	5 124	6 056
55	-	-	-	-	2 731	3 339	4 031	4 811	5 686
60	-	-	-	-	-	3 145	3 785	4 508	5 322
65	-	-	-	-	-	-	3 561	4 223	4 971

Power input in W

30	-	1 000	1 029	1 058	1 086	1 115	1 147	1 181	1 218
35	-	1 109	1 146	1 178	1 208	1 236	1 262	1 289	1 316
40	-	1 217	1 264	1 304	1 337	1 366	1 391	1 412	1 432
45	-	-	1 383	1 433	1 473	1 506	1 532	1 552	1 566
50	-	-	-	1 565	1 616	1 656	1 685	1 706	1 718
55	-	-	-	-	1 764	1 814	1 850	1 875	1 888
60	-	-	-	-	-	1 980	2 026	2 058	2 075
65	-	-	-	-	-	-	2 214	2 255	2 279

Current consumption in A

30	-	1.80	1.86	1.91	1.96	2.01	2.07	2.13	2.20
35	-	2.00	2.07	2.13	2.18	2.23	2.28	2.32	2.37
40	-	2.20	2.28	2.35	2.41	2.46	2.51	2.55	2.58
45	-	-	2.50	2.58	2.66	2.72	2.76	2.80	2.83
50	-	-	-	2.82	2.92	2.99	3.04	3.08	3.10
55	-	-	-	-	3.18	3.27	3.34	3.38	3.41
60	-	-	-	-	-	3.57	3.66	3.71	3.74
65	-	-	-	-	-	-	3.99	4.07	4.11

Mass flow in kg/h

30	-	37	47	59	73	89	108	129	153
35	-	36	46	58	72	88	107	129	153
40	-	34	45	57	71	88	107	128	152
45	-	-	43	55	70	86	106	127	151
50	-	-	-	53	68	85	104	126	150
55	-	-	-	-	66	83	103	124	149
60	-	-	-	-	-	81	100	123	147
65	-	-	-	-	-	-	98	120	145

Coefficient of performance (C.O.P.)

30	-	1.92	2.35	2.83	3.38	3.99	4.65	5.36	6.11
35	-	1.61	1.98	2.40	2.89	3.43	4.03	4.70	5.42
40	-	1.35	1.67	2.04	2.46	2.94	3.47	4.07	4.74
45	-	-	1.42	1.74	2.10	2.51	2.98	3.51	4.10
50	-	-	-	1.49	1.80	2.15	2.55	3.00	3.52
55	-	-	-	-	1.55	1.84	2.18	2.57	3.01
60	-	-	-	-	-	1.59	1.87	2.19	2.56
65	-	-	-	-	-	-	1.61	1.87	2.18

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

Cooling capacity	5 124	W
Power input	1 706	W
Current consumption	3.08	A
Mass flow	126	kg/h
C.O.P.	3.00	

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	67	dB(A)
With acoustic hood	62	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	-	2 063	2 590	3 210	3 930	4 757	5 694	6 750	7 929
35	-	1 922	2 439	3 046	3 747	4 550	5 461	6 484	7 627
40	-	1 786	2 289	2 876	3 555	4 330	5 208	6 195	7 297
45	-	-	2 147	2 712	3 362	4 105	4 947	5 892	6 949
50	-	-	-	2 562	3 180	3 886	4 686	5 586	6 592
55	-	-	-	-	3 019	3 683	4 437	5 287	6 238
60	-	-	-	-	-	3 506	4 209	5 004	5 896
65	-	-	-	-	-	-	4 013	4 748	5 575

Power input in W

30	-	1 000	1 029	1 058	1 086	1 115	1 147	1 181	1 218
35	-	1 109	1 146	1 178	1 208	1 236	1 262	1 289	1 316
40	-	1 217	1 264	1 304	1 337	1 366	1 391	1 412	1 432
45	-	-	1 383	1 433	1 473	1 506	1 532	1 552	1 566
50	-	-	-	1 565	1 616	1 656	1 685	1 706	1 718
55	-	-	-	-	1 764	1 814	1 850	1 875	1 888
60	-	-	-	-	-	1 980	2 026	2 058	2 075
65	-	-	-	-	-	-	2 214	2 255	2 279

Current consumption in A

30	-	1.80	1.86	1.91	1.96	2.01	2.07	2.13	2.20
35	-	2.00	2.07	2.13	2.18	2.23	2.28	2.32	2.37
40	-	2.20	2.28	2.35	2.41	2.46	2.51	2.55	2.58
45	-	-	2.50	2.58	2.66	2.72	2.76	2.80	2.83
50	-	-	-	2.82	2.92	2.99	3.04	3.08	3.10
55	-	-	-	-	3.18	3.27	3.34	3.38	3.41
60	-	-	-	-	-	3.57	3.66	3.71	3.74
65	-	-	-	-	-	-	3.99	4.07	4.11

Mass flow in kg/h

30	-	37	47	58	72	89	107	128	152
35	-	36	46	58	72	88	107	128	152
40	-	34	44	57	71	87	106	127	151
45	-	-	43	55	69	86	105	126	151
50	-	-	-	53	68	84	104	125	150
55	-	-	-	-	66	83	102	124	148
60	-	-	-	-	-	80	100	122	147
65	-	-	-	-	-	-	97	120	144

Coefficient of performance (C.O.P.)

30	-	2.06	2.52	3.04	3.62	4.26	4.97	5.72	6.51
35	-	1.73	2.13	2.58	3.10	3.68	4.33	5.03	5.80
40	-	1.47	1.81	2.21	2.66	3.17	3.74	4.39	5.10
45	-	-	1.55	1.89	2.28	2.73	3.23	3.80	4.44
50	-	-	-	1.64	1.97	2.35	2.78	3.27	3.84
55	-	-	-	-	1.71	2.03	2.40	2.82	3.30
60	-	-	-	-	-	1.77	2.08	2.43	2.84
65	-	-	-	-	-	-	1.81	2.11	2.45

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

Cooling capacity	5 731	W
Power input	1 861	W
Current consumption	3.36	A
Mass flow	134	kg/h
C.O.P.	3.08	

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	67	dB(A)
With acoustic hood	62	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	-	1 921	2 414	2 997	3 673	4 450	5 333	6 327	7 440
35	-	1 781	2 263	2 830	3 486	4 238	5 091	6 052	7 126
40	-	1 645	2 112	2 658	3 289	4 012	4 831	5 754	6 785
45	-	-	1 968	2 490	3 092	3 781	4 562	5 442	6 425
50	-	-	-	2 335	2 903	3 554	4 292	5 124	6 056
55	-	-	-	-	2 731	3 339	4 031	4 811	5 686
60	-	-	-	-	-	3 145	3 785	4 508	5 322
65	-	-	-	-	-	-	3 561	4 223	4 971

Power input in W

30	-	1 000	1 029	1 058	1 086	1 115	1 147	1 181	1 218
35	-	1 109	1 146	1 178	1 208	1 236	1 262	1 289	1 316
40	-	1 217	1 264	1 304	1 337	1 366	1 391	1 412	1 432
45	-	-	1 383	1 433	1 473	1 506	1 532	1 552	1 566
50	-	-	-	1 565	1 616	1 656	1 685	1 706	1 718
55	-	-	-	-	1 764	1 814	1 850	1 875	1 888
60	-	-	-	-	-	1 980	2 026	2 058	2 075
65	-	-	-	-	-	-	2 214	2 255	2 279

Current consumption in A

30	-	1.80	1.86	1.91	1.96	2.01	2.07	2.13	2.20
35	-	2.00	2.07	2.13	2.18	2.23	2.28	2.32	2.37
40	-	2.20	2.28	2.35	2.41	2.46	2.51	2.55	2.58
45	-	-	2.50	2.58	2.66	2.72	2.76	2.80	2.83
50	-	-	-	2.82	2.92	2.99	3.04	3.08	3.10
55	-	-	-	-	3.18	3.27	3.34	3.38	3.41
60	-	-	-	-	-	3.57	3.66	3.71	3.74
65	-	-	-	-	-	-	3.99	4.07	4.11

Mass flow in kg/h

30	-	37	47	59	73	89	108	129	153
35	-	36	46	58	72	88	107	129	153
40	-	34	45	57	71	88	107	128	152
45	-	-	43	55	70	86	106	127	151
50	-	-	-	53	68	85	104	126	150
55	-	-	-	-	66	83	103	124	149
60	-	-	-	-	-	81	100	123	147
65	-	-	-	-	-	-	98	120	145

Coefficient of performance (C.O.P.)

30	-	1.92	2.35	2.83	3.38	3.99	4.65	5.36	6.11
35	-	1.61	1.98	2.40	2.89	3.43	4.03	4.70	5.42
40	-	1.35	1.67	2.04	2.46	2.94	3.47	4.07	4.74
45	-	-	1.42	1.74	2.10	2.51	2.98	3.51	4.10
50	-	-	-	1.49	1.80	2.15	2.55	3.00	3.52
55	-	-	-	-	1.55	1.84	2.18	2.57	3.01
60	-	-	-	-	-	1.59	1.87	2.19	2.56
65	-	-	-	-	-	-	1.61	1.87	2.18

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

Cooling capacity	5 124	W
Power input	1 706	W
Current consumption	3.08	A
Mass flow	126	kg/h
C.O.P.	3.00	

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	67	dB(A)
With acoustic hood	62	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	-	2 063	2 590	3 210	3 930	4 757	5 694	6 750	7 929
35	-	1 922	2 439	3 046	3 747	4 550	5 461	6 484	7 627
40	-	1 786	2 289	2 876	3 555	4 330	5 208	6 195	7 297
45	-	-	2 147	2 712	3 362	4 105	4 947	5 892	6 949
50	-	-	-	2 562	3 180	3 886	4 686	5 586	6 592
55	-	-	-	-	3 019	3 683	4 437	5 287	6 238
60	-	-	-	-	-	3 506	4 209	5 004	5 896
65	-	-	-	-	-	-	4 013	4 748	5 575

Power input in W

30	-	1 000	1 029	1 058	1 086	1 115	1 147	1 181	1 218
35	-	1 109	1 146	1 178	1 208	1 236	1 262	1 289	1 316
40	-	1 217	1 264	1 304	1 337	1 366	1 391	1 412	1 432
45	-	-	1 383	1 433	1 473	1 506	1 532	1 552	1 566
50	-	-	-	1 565	1 616	1 656	1 685	1 706	1 718
55	-	-	-	-	1 764	1 814	1 850	1 875	1 888
60	-	-	-	-	-	1 980	2 026	2 058	2 075
65	-	-	-	-	-	-	2 214	2 255	2 279

Current consumption in A

30	-	1.80	1.86	1.91	1.96	2.01	2.07	2.13	2.20
35	-	2.00	2.07	2.13	2.18	2.23	2.28	2.32	2.37
40	-	2.20	2.28	2.35	2.41	2.46	2.51	2.55	2.58
45	-	-	2.50	2.58	2.66	2.72	2.76	2.80	2.83
50	-	-	-	2.82	2.92	2.99	3.04	3.08	3.10
55	-	-	-	-	3.18	3.27	3.34	3.38	3.41
60	-	-	-	-	-	3.57	3.66	3.71	3.74
65	-	-	-	-	-	-	3.99	4.07	4.11

Mass flow in kg/h

30	-	37	47	58	72	89	107	128	152
35	-	36	46	58	72	88	107	128	152
40	-	34	44	57	71	87	106	127	151
45	-	-	43	55	69	86	105	126	151
50	-	-	-	53	68	84	104	125	150
55	-	-	-	-	66	83	102	124	148
60	-	-	-	-	-	80	100	122	147
65	-	-	-	-	-	-	97	120	144

Coefficient of performance (C.O.P.)

30	-	2.06	2.52	3.04	3.62	4.26	4.97	5.72	6.51
35	-	1.73	2.13	2.58	3.10	3.68	4.33	5.03	5.80
40	-	1.47	1.81	2.21	2.66	3.17	3.74	4.39	5.10
45	-	-	1.55	1.89	2.28	2.73	3.23	3.80	4.44
50	-	-	-	1.64	1.97	2.35	2.78	3.27	3.84
55	-	-	-	-	1.71	2.03	2.40	2.82	3.30
60	-	-	-	-	-	1.77	2.08	2.43	2.84
65	-	-	-	-	-	-	1.81	2.11	2.45

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

Cooling capacity	5 731	W
Power input	1 861	W
Current consumption	3.36	A
Mass flow	134	kg/h
C.O.P.	3.08	

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	67	dB(A)
With acoustic hood	62	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 60 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	-	2 305	2 897	3 596	4 408	5 340	6 399	7 593	8 928
35	-	2 137	2 716	3 396	4 183	5 085	6 109	7 263	8 552
40	-	1 974	2 534	3 189	3 947	4 814	5 798	6 905	8 142
45	-	-	2 362	2 988	3 710	4 537	5 474	6 530	7 710
50	-	-	-	2 802	3 484	4 265	5 151	6 149	7 267
55	-	-	-	-	3 278	4 007	4 837	5 773	6 823
60	-	-	-	-	-	3 774	4 541	5 410	6 386
65	-	-	-	-	-	-	4 273	5 068	5 965

Power input in W

30	-	1 183	1 220	1 255	1 290	1 326	1 364	1 405	1 451
35	-	1 307	1 354	1 396	1 433	1 468	1 501	1 533	1 567
40	-	1 431	1 491	1 542	1 585	1 622	1 653	1 681	1 706
45	-	-	1 630	1 694	1 746	1 788	1 821	1 847	1 866
50	-	-	-	1 850	1 915	1 965	2 003	2 030	2 047
55	-	-	-	-	2 090	2 153	2 199	2 230	2 248
60	-	-	-	-	-	2 350	2 408	2 447	2 468
65	-	-	-	-	-	-	2 629	2 679	2 708

Current consumption in A

30	-	1.86	1.91	1.97	2.02	2.08	2.14	2.20	2.28
35	-	2.05	2.12	2.19	2.25	2.30	2.35	2.41	2.46
40	-	2.25	2.34	2.42	2.49	2.54	2.59	2.64	2.68
45	-	-	2.56	2.66	2.74	2.81	2.86	2.90	2.93
50	-	-	-	2.90	3.00	3.08	3.14	3.18	3.21
55	-	-	-	-	3.28	3.38	3.45	3.50	3.53
60	-	-	-	-	-	3.69	3.78	3.84	3.87
65	-	-	-	-	-	-	4.12	4.20	4.25

Mass flow in kg/h

30	-	44	56	71	87	107	129	155	184
35	-	43	55	70	87	106	129	154	183
40	-	41	54	68	85	105	128	154	183
45	-	-	52	66	84	104	127	153	182
50	-	-	-	64	82	102	125	151	181
55	-	-	-	-	79	100	123	149	179
60	-	-	-	-	-	97	120	147	177
65	-	-	-	-	-	-	117	144	174

Coefficient of performance (C.O.P.)

30	-	1.95	2.37	2.86	3.42	4.03	4.69	5.40	6.15
35	-	1.63	2.01	2.43	2.92	3.46	4.07	4.74	5.46
40	-	1.38	1.70	2.07	2.49	2.97	3.51	4.11	4.77
45	-	-	1.45	1.76	2.12	2.54	3.01	3.54	4.13
50	-	-	-	1.51	1.82	2.17	2.57	3.03	3.55
55	-	-	-	-	1.57	1.86	2.20	2.59	3.04
60	-	-	-	-	-	1.61	1.89	2.21	2.59
65	-	-	-	-	-	-	1.63	1.89	2.20

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

Cooling capacity	6 149	W
Power input	2 030	W
Current consumption	3.18	A
Mass flow	151	kg/h
C.O.P.	3.03	

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	71	dB(A)
With acoustic hood	66	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 60 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	-	2 475	3 107	3 852	4 717	5 708	6 833	8 100	9 515
35	-	2 306	2 927	3 655	4 497	5 460	6 553	7 781	9 152
40	-	2 143	2 746	3 451	4 266	5 196	6 250	7 434	8 756
45	-	-	2 577	3 254	4 035	4 926	5 936	7 071	8 338
50	-	-	-	3 075	3 816	4 664	5 624	6 704	7 911
55	-	-	-	-	3 622	4 420	5 325	6 344	7 486
60	-	-	-	-	-	4 207	5 051	6 005	7 075
65	-	-	-	-	-	-	4 815	5 697	6 691

Power input in W

30	-	1 183	1 220	1 255	1 290	1 326	1 364	1 405	1 451
35	-	1 307	1 354	1 396	1 433	1 468	1 501	1 533	1 567
40	-	1 431	1 491	1 542	1 585	1 622	1 653	1 681	1 706
45	-	-	1 630	1 694	1 746	1 788	1 821	1 847	1 866
50	-	-	-	1 850	1 915	1 965	2 003	2 030	2 047
55	-	-	-	-	2 090	2 153	2 199	2 230	2 248
60	-	-	-	-	-	2 350	2 408	2 447	2 468
65	-	-	-	-	-	-	2 629	2 679	2 708

Current consumption in A

30	-	1.86	1.91	1.97	2.02	2.08	2.14	2.20	2.28
35	-	2.05	2.12	2.19	2.25	2.30	2.35	2.41	2.46
40	-	2.25	2.34	2.42	2.49	2.54	2.59	2.64	2.68
45	-	-	2.56	2.66	2.74	2.81	2.86	2.90	2.93
50	-	-	-	2.90	3.00	3.08	3.14	3.18	3.21
55	-	-	-	-	3.28	3.38	3.45	3.50	3.53
60	-	-	-	-	-	3.69	3.78	3.84	3.87
65	-	-	-	-	-	-	4.12	4.20	4.25

Mass flow in kg/h

30	-	44	56	70	87	106	129	154	183
35	-	43	55	69	86	106	128	153	182
40	-	41	53	68	85	105	127	153	182
45	-	-	51	66	83	103	126	152	181
50	-	-	-	64	81	101	124	150	179
55	-	-	-	-	79	99	122	149	178
60	-	-	-	-	-	96	120	146	176
65	-	-	-	-	-	-	117	143	173

Coefficient of performance (C.O.P.)

30	-	2.09	2.55	3.07	3.66	4.30	5.01	5.76	6.56
35	-	1.76	2.16	2.62	3.14	3.72	4.37	5.07	5.84
40	-	1.50	1.84	2.24	2.69	3.20	3.78	4.42	5.13
45	-	-	1.58	1.92	2.31	2.76	3.26	3.83	4.47
50	-	-	-	1.66	1.99	2.37	2.81	3.30	3.87
55	-	-	-	-	1.73	2.05	2.42	2.84	3.33
60	-	-	-	-	-	1.79	2.10	2.45	2.87
65	-	-	-	-	-	-	1.83	2.13	2.47

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

Cooling capacity	6 877	W
Power input	2 214	W
Current consumption	3.47	A
Mass flow	161	kg/h
C.O.P.	3.11	

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	71	dB(A)
With acoustic hood	66	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 60 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	-	2 305	2 897	3 596	4 408	5 340	6 399	7 593	8 928
35	-	2 137	2 716	3 396	4 183	5 085	6 109	7 263	8 552
40	-	1 974	2 534	3 189	3 947	4 814	5 798	6 905	8 142
45	-	-	2 362	2 988	3 710	4 537	5 474	6 530	7 710
50	-	-	-	2 802	3 484	4 265	5 151	6 149	7 267
55	-	-	-	-	3 278	4 007	4 837	5 773	6 823
60	-	-	-	-	-	3 774	4 541	5 410	6 386
65	-	-	-	-	-	-	4 273	5 068	5 965

Power input in W

30	-	1 183	1 220	1 255	1 290	1 326	1 364	1 405	1 451
35	-	1 307	1 354	1 396	1 433	1 468	1 501	1 533	1 567
40	-	1 431	1 491	1 542	1 585	1 622	1 653	1 681	1 706
45	-	-	1 630	1 694	1 746	1 788	1 821	1 847	1 866
50	-	-	-	1 850	1 915	1 965	2 003	2 030	2 047
55	-	-	-	-	2 090	2 153	2 199	2 230	2 248
60	-	-	-	-	-	2 350	2 408	2 447	2 468
65	-	-	-	-	-	-	2 629	2 679	2 708

Current consumption in A

30	-	1.86	1.91	1.97	2.02	2.08	2.14	2.20	2.28
35	-	2.05	2.12	2.19	2.25	2.30	2.35	2.41	2.46
40	-	2.25	2.34	2.42	2.49	2.54	2.59	2.64	2.68
45	-	-	2.56	2.66	2.74	2.81	2.86	2.90	2.93
50	-	-	-	2.90	3.00	3.08	3.14	3.18	3.21
55	-	-	-	-	3.28	3.38	3.45	3.50	3.53
60	-	-	-	-	-	3.69	3.78	3.84	3.87
65	-	-	-	-	-	-	4.12	4.20	4.25

Mass flow in kg/h

30	-	44	56	71	87	107	129	155	184
35	-	43	55	70	87	106	129	154	183
40	-	41	54	68	85	105	128	154	183
45	-	-	52	66	84	104	127	153	182
50	-	-	-	64	82	102	125	151	181
55	-	-	-	-	79	100	123	149	179
60	-	-	-	-	-	97	120	147	177
65	-	-	-	-	-	-	117	144	174

Coefficient of performance (C.O.P.)

30	-	1.95	2.37	2.86	3.42	4.03	4.69	5.40	6.15
35	-	1.63	2.01	2.43	2.92	3.46	4.07	4.74	5.46
40	-	1.38	1.70	2.07	2.49	2.97	3.51	4.11	4.77
45	-	-	1.45	1.76	2.12	2.54	3.01	3.54	4.13
50	-	-	-	1.51	1.82	2.17	2.57	3.03	3.55
55	-	-	-	-	1.57	1.86	2.20	2.59	3.04
60	-	-	-	-	-	1.61	1.89	2.21	2.59
65	-	-	-	-	-	-	1.63	1.89	2.20

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

Cooling capacity	6 149	W
Power input	2 030	W
Current consumption	3.18	A
Mass flow	151	kg/h
C.O.P.	3.03	

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	71	dB(A)
With acoustic hood	66	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 60 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	-	2 475	3 107	3 852	4 717	5 708	6 833	8 100	9 515
35	-	2 306	2 927	3 655	4 497	5 460	6 553	7 781	9 152
40	-	2 143	2 746	3 451	4 266	5 196	6 250	7 434	8 756
45	-	-	2 577	3 254	4 035	4 926	5 936	7 071	8 338
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55	-	-	-	-	3 622	4 420	5 325	6 344	7 486
60	-	-	-	-	-	4 207	5 051	6 005	7 075
65	-	-	-	-	-	-	4 815	5 697	6 691

Power input in W

30	-	1 183	1 220	1 255	1 290	1 326	1 364	1 405	1 451
35	-	1 307	1 354	1 396	1 433	1 468	1 501	1 533	1 567
40	-	1 431	1 491	1 542	1 585	1 622	1 653	1 681	1 706
45	-	-	1 630	1 694	1 746	1 788	1 821	1 847	1 866
50	-	-	-	1 850	1 915	1 965	2 003	2 030	2 047
55	-	-	-	-	2 090	2 153	2 199	2 230	2 248
60	-	-	-	-	-	2 350	2 408	2 447	2 468
65	-	-	-	-	-	-	2 629	2 679	2 708

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35	-	2.05	2.12	2.19	2.25	2.30	2.35	2.41	2.46
40	-	2.25	2.34	2.42	2.49	2.54	2.59	2.64	2.68
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50	-	-	-	2.90	3.00	3.08	3.14	3.18	3.21
55	-	-	-	-	3.28	3.38	3.45	3.50	3.53
60	-	-	-	-	-	3.69	3.78	3.84	3.87
65	-	-	-	-	-	-	4.12	4.20	4.25

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30	-	44	56	70	87	106	129	154	183
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40	-	41	53	68	85	105	127	153	182
45	-	-	51	66	83	103	126	152	181
50	-	-	-	64	81	101	124	150	179
55	-	-	-	-	79	99	122	149	178
60	-	-	-	-	-	96	120	146	176
65	-	-	-	-	-	-	117	143	173

Coefficient of performance (C.O.P.)

30	-	2.09	2.55	3.07	3.66	4.30	5.01	5.76	6.56
35	-	1.76	2.16	2.62	3.14	3.72	4.37	5.07	5.84
40	-	1.50	1.84	2.24	2.69	3.20	3.78	4.42	5.13
45	-	-	1.58	1.92	2.31	2.76	3.26	3.83	4.47
50	-	-	-	1.66	1.99	2.37	2.81	3.30	3.87
55	-	-	-	-	1.73	2.05	2.42	2.84	3.33
60	-	-	-	-	-	1.79	2.10	2.45	2.87
65	-	-	-	-	-	-	1.83	2.13	2.47

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

Cooling capacity	6 877	W
Power input	2 214	W
Current consumption	3.47	A
Mass flow	161	kg/h
C.O.P.	3.11	

Pressure switch settings

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

Sound power data

Sound power level	71	dB(A)
With acoustic hood	66	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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