

Datasheets

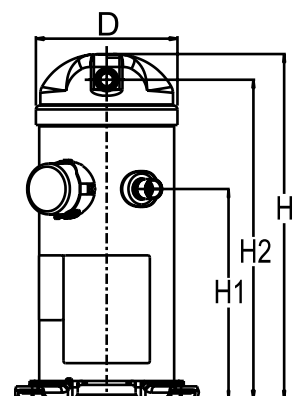
# Danfoss scroll compressors **H series**



## General Characteristics

Model number (on compressor nameplate)		<b>HRP060T4LC8</b>
Code number for Singlepack*		120U1731
Code number for Industrial pack**		120U1728
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		80.95 cm <sup>3</sup> /rev
Displacement @ Nominal speed	14.1 m <sup>3</sup> /h @ 2900 rpm - 17.0 m <sup>3</sup> /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

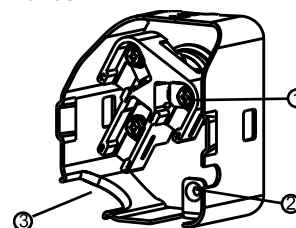
H2=422 mm

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)	15 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

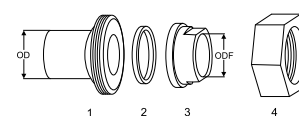
\*\*Industrial pack: 12 or 16 Unboxed compressors on pallet

**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	-	4 339	5 528	6 980	8 725	10 792	13 211	16 012	19 224
35	-	4 026	5 160	6 542	8 202	10 170	12 474	15 144	18 210
40	-	3 726	4 801	6 109	7 680	9 543	11 728	14 263	17 178
45	-	-	4 444	5 674	7 152	8 906	10 966	13 361	16 121
50	-	-	-	5 231	6 611	8 252	10 183	12 434	15 033
55	-	-	-	-	6 051	7 574	9 371	11 472	13 906
60	-	-	-	-	-	6 866	8 524	10 471	12 734
65	-	-	-	-	-	-	7 635	9 422	11 508

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	99	123	153	187	226	272	324	384
35	-	97	121	150	184	223	269	321	381
40	-	94	119	147	180	220	265	317	377
45	-	-	115	143	176	215	261	313	373
50	-	-	-	138	171	210	255	308	368
55	-	-	-	-	164	203	249	301	361
60	-	-	-	-	-	195	240	293	353
65	-	-	-	-	-	-	231	283	344

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

30	-	1.94	2.38	2.91	3.53	4.24	5.03	5.90	6.84
35	-	1.49	1.88	2.36	2.92	3.57	4.31	5.13	6.02
40	-	1.17	1.51	1.92	2.42	3.00	3.67	4.42	5.25
45	-	-	1.22	1.57	2.00	2.51	3.10	3.77	4.52
50	-	-	-	1.28	1.65	2.08	2.60	3.19	3.85
55	-	-	-	-	1.35	1.71	2.15	2.66	3.23
60	-	-	-	-	-	1.39	1.76	2.18	2.67
65	-	-	-	-	-	-	1.41	1.76	2.17

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

Cooling capacity	12 434	W
Power input	3 903	W
Current consumption	6.49	A
Mass flow	308	kg/h
C.O.P.	3.19	

**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	-	4 660	5 929	7 478	9 336	11 536	14 107	17 081	20 489
35	-	4 345	5 561	7 042	8 818	10 920	13 379	16 225	19 490
40	-	4 044	5 203	6 612	8 301	10 300	12 642	15 356	18 474
45	-	-	4 848	6 180	7 777	9 670	11 891	14 468	17 434
50	-	-	-	5 741	7 242	9 024	11 118	13 554	16 365
55	-	-	-	-	6 687	8 353	10 317	12 608	15 258
60	-	-	-	-	-	7 653	9 481	11 622	14 107
65	-	-	-	-	-	-	8 604	10 591	12 906

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	98	123	152	186	225	270	322	382
35	-	96	121	149	183	222	267	319	379
40	-	94	118	146	179	218	264	316	375
45	-	-	114	142	175	214	259	311	371
50	-	-	-	137	170	209	254	306	365
55	-	-	-	-	164	202	247	299	359
60	-	-	-	-	-	194	239	291	351
65	-	-	-	-	-	-	229	282	342

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

30	-	2.08	2.55	3.12	3.78	4.53	5.37	6.30	7.29
35	-	1.61	2.03	2.54	3.14	3.83	4.62	5.49	6.45
40	-	1.27	1.63	2.08	2.61	3.24	3.95	4.76	5.65
45	-	-	1.33	1.71	2.17	2.72	3.36	4.09	4.89
50	-	-	-	1.41	1.80	2.28	2.83	3.47	4.19
55	-	-	-	-	1.49	1.89	2.37	2.92	3.54
60	-	-	-	-	-	1.55	1.95	2.42	2.96
65	-	-	-	-	-	-	1.59	1.98	2.43

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

Cooling capacity	13 852	W
Power input	4 258	W
Current consumption	7.04	A
Mass flow	325	kg/h
C.O.P.	3.25	

**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 = 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	-	4 339	5 528	6 980	8 725	10 792	13 211	16 012	19 224
35	-	4 026	5 160	6 542	8 202	10 170	12 474	15 144	18 210
40	-	3 726	4 801	6 109	7 680	9 543	11 728	14 263	17 178
45	-	-	4 444	5 674	7 152	8 906	10 966	13 361	16 121
50	-	-	-	5 231	6 611	8 252	10 183	12 434	15 033
55	-	-	-	-	6 051	7 574	9 371	11 472	13 906
60	-	-	-	-	-	6 866	8 524	10 471	12 734
65	-	-	-	-	-	-	7 635	9 422	11 508

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	99	123	153	187	226	272	324	384
35	-	97	121	150	184	223	269	321	381
40	-	94	119	147	180	220	265	317	377
45	-	-	115	143	176	215	261	313	373
50	-	-	-	138	171	210	255	308	368
55	-	-	-	-	164	203	249	301	361
60	-	-	-	-	-	195	240	293	353
65	-	-	-	-	-	-	231	283	344

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

30	-	1.94	2.38	2.91	3.53	4.24	5.03	5.90	6.84
35	-	1.49	1.88	2.36	2.92	3.57	4.31	5.13	6.02
40	-	1.17	1.51	1.92	2.42	3.00	3.67	4.42	5.25
45	-	-	1.22	1.57	2.00	2.51	3.10	3.77	4.52
50	-	-	-	1.28	1.65	2.08	2.60	3.19	3.85
55	-	-	-	-	1.35	1.71	2.15	2.66	3.23
60	-	-	-	-	-	1.39	1.76	2.18	2.67
65	-	-	-	-	-	-	1.41	1.76	2.17

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

Cooling capacity	12 434	W
Power input	3 903	W
Current consumption	6.49	A
Mass flow	308	kg/h
C.O.P.	3.19	

**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	-	4 660	5 929	7 478	9 336	11 536	14 107	17 081	20 489
35	-	4 345	5 561	7 042	8 818	10 920	13 379	16 225	19 490
40	-	4 044	5 203	6 612	8 301	10 300	12 642	15 356	18 474
45	-	-	4 848	6 180	7 777	9 670	11 891	14 468	17 434
50	-	-	-	5 741	7 242	9 024	11 118	13 554	16 365
55	-	-	-	-	6 687	8 353	10 317	12 608	15 258
60	-	-	-	-	-	7 653	9 481	11 622	14 107
65	-	-	-	-	-	-	8 604	10 591	12 906

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	98	123	152	186	225	270	322	382
35	-	96	121	149	183	222	267	319	379
40	-	94	118	146	179	218	264	316	375
45	-	-	114	142	175	214	259	311	371
50	-	-	-	137	170	209	254	306	365
55	-	-	-	-	164	202	247	299	359
60	-	-	-	-	-	194	239	291	351
65	-	-	-	-	-	-	229	282	342

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

30	-	2.08	2.55	3.12	3.78	4.53	5.37	6.30	7.29
35	-	1.61	2.03	2.54	3.14	3.83	4.62	5.49	6.45
40	-	1.27	1.63	2.08	2.61	3.24	3.95	4.76	5.65
45	-	-	1.33	1.71	2.17	2.72	3.36	4.09	4.89
50	-	-	-	1.41	1.80	2.28	2.83	3.47	4.19
55	-	-	-	-	1.49	1.89	2.37	2.92	3.54
60	-	-	-	-	-	1.55	1.95	2.42	2.96
65	-	-	-	-	-	-	1.59	1.98	2.43

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

Cooling capacity	13 852	W
Power input	4 258	W
Current consumption	7.04	A
Mass flow	325	kg/h
C.O.P.	3.25	

**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 = 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	-	5 031	6 458	8 191	10 265	12 714	15 572	18 875	22 655
35	-	4 729	6 083	7 728	9 698	12 026	14 748	17 896	21 507
40	-	4 408	5 691	7 248	9 114	11 322	13 907	16 902	20 342
45	-	-	5 273	6 743	8 505	10 593	13 041	15 882	19 152
50	-	-	-	6 201	7 860	9 828	12 139	14 827	17 926
55	-	-	-	-	7 171	9 018	11 192	13 726	16 654
60	-	-	-	-	-	8 155	10 191	12 569	15 324
65	-	-	-	-	-	-	9 125	11 345	13 924

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	113	142	177	218	266	321	383	453
35	-	112	141	175	216	263	318	380	450
40	-	110	139	173	214	261	315	376	446
45	-	-	136	170	211	257	311	372	442
50	-	-	-	166	206	253	307	368	437
55	-	-	-	-	201	248	301	362	431
60	-	-	-	-	-	240	294	355	424
65	-	-	-	-	-	-	285	346	415

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

30	-	1.61	2.08	2.65	3.33	4.15	5.15	6.37	7.89
35	-	1.34	1.74	2.22	2.80	3.49	4.33	5.34	6.59
40	-	1.11	1.45	1.85	2.34	2.93	3.62	4.47	5.49
45	-	-	1.19	1.54	1.95	2.44	3.02	3.72	4.56
50	-	-	-	1.26	1.60	2.01	2.50	3.08	3.77
55	-	-	-	-	1.30	1.64	2.05	2.53	3.09
60	-	-	-	-	-	1.32	1.66	2.05	2.52
65	-	-	-	-	-	-	1.32	1.64	2.03

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

Cooling capacity	14 827	W
Power input	4 817	W
Current consumption	6.33	A
Mass flow	368	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	74	dB(A)
With accoustic hood	69	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	-	5 403	6 926	8 775	10 984	13 590	16 629	20 135	24 146
35	-	5 103	6 556	8 318	10 425	12 913	15 817	19 174	23 018
40	-	4 785	6 168	7 845	9 850	12 220	14 991	18 198	21 877
45	-	-	5 752	7 344	9 248	11 502	14 140	17 198	20 712
50	-	-	-	6 805	8 610	10 747	13 253	16 164	19 514
55	-	-	-	-	7 925	9 947	12 322	15 085	18 272
60	-	-	-	-	-	9 090	11 335	13 952	16 976
65	-	-	-	-	-	-	10 282	12 754	15 617

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	112	141	176	217	264	319	381	450
35	-	111	140	174	215	262	316	378	447
40	-	109	138	172	213	259	313	374	443
45	-	-	135	169	209	256	309	370	439
50	-	-	-	166	205	252	305	366	434
55	-	-	-	-	200	246	299	360	428
60	-	-	-	-	-	239	292	353	421
65	-	-	-	-	-	-	283	344	412

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

30	-	1.73	2.23	2.83	3.56	4.44	5.50	6.79	8.41
35	-	1.45	1.87	2.39	3.01	3.75	4.64	5.72	7.05
40	-	1.21	1.57	2.01	2.53	3.16	3.91	4.81	5.90
45	-	-	1.30	1.67	2.12	2.65	3.28	4.03	4.93
50	-	-	-	1.38	1.76	2.20	2.73	3.36	4.10
55	-	-	-	-	1.44	1.81	2.26	2.78	3.40
60	-	-	-	-	-	1.48	1.84	2.28	2.79
65	-	-	-	-	-	-	1.49	1.85	2.27

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

Cooling capacity	16 573	W
Power input	5 334	W
Current consumption	6.79	A
Mass flow	390	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	74	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

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	-	5 031	6 458	8 191	10 265	12 714	15 572	18 875	22 655
35	-	4 729	6 083	7 728	9 698	12 026	14 748	17 896	21 507
40	-	4 408	5 691	7 248	9 114	11 322	13 907	16 902	20 342
45	-	-	5 273	6 743	8 505	10 593	13 041	15 882	19 152
50	-	-	-	6 201	7 860	9 828	12 139	14 827	17 926
55	-	-	-	-	7 171	9 018	11 192	13 726	16 654
60	-	-	-	-	-	8 155	10 191	12 569	15 324
65	-	-	-	-	-	-	9 125	11 345	13 924

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	113	142	177	218	266	321	383	453
35	-	112	141	175	216	263	318	380	450
40	-	110	139	173	214	261	315	376	446
45	-	-	136	170	211	257	311	372	442
50	-	-	-	166	206	253	307	368	437
55	-	-	-	-	201	248	301	362	431
60	-	-	-	-	-	240	294	355	424
65	-	-	-	-	-	-	285	346	415

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

30	-	1.61	2.08	2.65	3.33	4.15	5.15	6.37	7.89
35	-	1.34	1.74	2.22	2.80	3.49	4.33	5.34	6.59
40	-	1.11	1.45	1.85	2.34	2.93	3.62	4.47	5.49
45	-	-	1.19	1.54	1.95	2.44	3.02	3.72	4.56
50	-	-	-	1.26	1.60	2.01	2.50	3.08	3.77
55	-	-	-	-	1.30	1.64	2.05	2.53	3.09
60	-	-	-	-	-	1.32	1.66	2.05	2.52
65	-	-	-	-	-	-	1.32	1.64	2.03

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

Cooling capacity	14 827	W
Power input	4 817	W
Current consumption	6.33	A
Mass flow	368	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	74	dB(A)
With accoustic hood	69	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	-	5 403	6 926	8 775	10 984	13 590	16 629	20 135	24 146
35	-	5 103	6 556	8 318	10 425	12 913	15 817	19 174	23 018
40	-	4 785	6 168	7 845	9 850	12 220	14 991	18 198	21 877
45	-	-	5 752	7 344	9 248	11 502	14 140	17 198	20 712
50	-	-	-	6 805	8 610	10 747	13 253	16 164	19 514
55	-	-	-	-	7 925	9 947	12 322	15 085	18 272
60	-	-	-	-	-	9 090	11 335	13 952	16 976
65	-	-	-	-	-	-	10 282	12 754	15 617

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	112	141	176	217	264	319	381	450
35	-	111	140	174	215	262	316	378	447
40	-	109	138	172	213	259	313	374	443
45	-	-	135	169	209	256	309	370	439
50	-	-	-	166	205	252	305	366	434
55	-	-	-	-	200	246	299	360	428
60	-	-	-	-	-	239	292	353	421
65	-	-	-	-	-	-	283	344	412

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

30	-	1.73	2.23	2.83	3.56	4.44	5.50	6.79	8.41
35	-	1.45	1.87	2.39	3.01	3.75	4.64	5.72	7.05
40	-	1.21	1.57	2.01	2.53	3.16	3.91	4.81	5.90
45	-	-	1.30	1.67	2.12	2.65	3.28	4.03	4.93
50	-	-	-	1.38	1.76	2.20	2.73	3.36	4.10
55	-	-	-	-	1.44	1.81	2.26	2.78	3.40
60	-	-	-	-	-	1.48	1.84	2.28	2.79
65	-	-	-	-	-	-	1.49	1.85	2.27

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

Cooling capacity	16 573	W
Power input	5 334	W
Current consumption	6.79	A
Mass flow	390	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	74	dB(A)
With acoustic hood	69	dB(A)

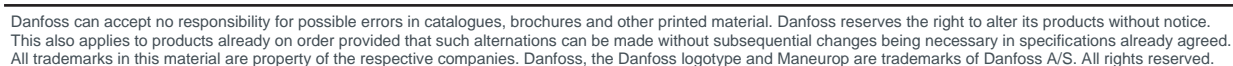
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

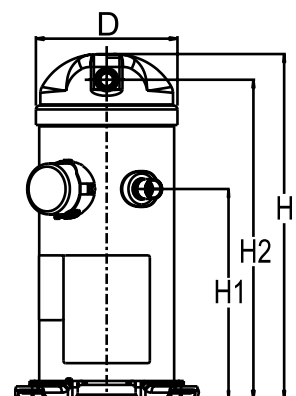
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### General Characteristics

Model number (on compressor nameplate)		<b>HRP060T4LP6</b>
Code number for Singlepack*		120U1726
Code number for Industrial pack**		120U1723
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		80.95 cm <sup>3</sup> /rev
Displacement @ Nominal speed	14.1 m <sup>3</sup> /h @ 2900 rpm - 17.0 m <sup>3</sup> /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

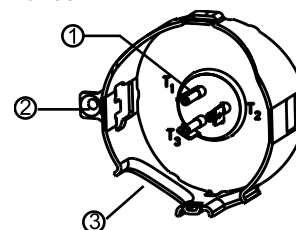
H2=422 mm

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)	15 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

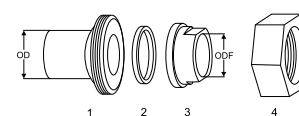
\*\*Industrial pack: 12 or 16 Unboxed compressors on pallet

**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**


- 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	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	-	4 339	5 528	6 980	8 725	10 792	13 211	16 012	19 224
35	-	4 026	5 160	6 542	8 202	10 170	12 474	15 144	18 210
40	-	3 726	4 801	6 109	7 680	9 543	11 728	14 263	17 178
45	-	-	4 444	5 674	7 152	8 906	10 966	13 361	16 121
50	-	-	-	5 231	6 611	8 252	10 183	12 434	15 033
55	-	-	-	-	6 051	7 574	9 371	11 472	13 906
60	-	-	-	-	-	6 866	8 524	10 471	12 734
65	-	-	-	-	-	-	7 635	9 422	11 508

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	99	123	153	187	226	272	324	384
35	-	97	121	150	184	223	269	321	381
40	-	94	119	147	180	220	265	317	377
45	-	-	115	143	176	215	261	313	373
50	-	-	-	138	171	210	255	308	368
55	-	-	-	-	164	203	249	301	361
60	-	-	-	-	-	195	240	293	353
65	-	-	-	-	-	-	231	283	344

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

30	-	1.94	2.38	2.91	3.53	4.24	5.03	5.90	6.84
35	-	1.49	1.88	2.36	2.92	3.57	4.31	5.13	6.02
40	-	1.17	1.51	1.92	2.42	3.00	3.67	4.42	5.25
45	-	-	1.22	1.57	2.00	2.51	3.10	3.77	4.52
50	-	-	-	1.28	1.65	2.08	2.60	3.19	3.85
55	-	-	-	-	1.35	1.71	2.15	2.66	3.23
60	-	-	-	-	-	1.39	1.76	2.18	2.67
65	-	-	-	-	-	-	1.41	1.76	2.17

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

Cooling capacity	12 434	W
Power input	3 903	W
Current consumption	6.49	A
Mass flow	308	kg/h
C.O.P.	3.19	

**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	-	4 660	5 929	7 478	9 336	11 536	14 107	17 081	20 489
35	-	4 345	5 561	7 042	8 818	10 920	13 379	16 225	19 490
40	-	4 044	5 203	6 612	8 301	10 300	12 642	15 356	18 474
45	-	-	4 848	6 180	7 777	9 670	11 891	14 468	17 434
50	-	-	-	5 741	7 242	9 024	11 118	13 554	16 365
55	-	-	-	-	6 687	8 353	10 317	12 608	15 258
60	-	-	-	-	-	7 653	9 481	11 622	14 107
65	-	-	-	-	-	-	8 604	10 591	12 906

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	98	123	152	186	225	270	322	382
35	-	96	121	149	183	222	267	319	379
40	-	94	118	146	179	218	264	316	375
45	-	-	114	142	175	214	259	311	371
50	-	-	-	137	170	209	254	306	365
55	-	-	-	-	164	202	247	299	359
60	-	-	-	-	-	194	239	291	351
65	-	-	-	-	-	-	229	282	342

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

30	-	2.08	2.55	3.12	3.78	4.53	5.37	6.30	7.29
35	-	1.61	2.03	2.54	3.14	3.83	4.62	5.49	6.45
40	-	1.27	1.63	2.08	2.61	3.24	3.95	4.76	5.65
45	-	-	1.33	1.71	2.17	2.72	3.36	4.09	4.89
50	-	-	-	1.41	1.80	2.28	2.83	3.47	4.19
55	-	-	-	-	1.49	1.89	2.37	2.92	3.54
60	-	-	-	-	-	1.55	1.95	2.42	2.96
65	-	-	-	-	-	-	1.59	1.98	2.43

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

Cooling capacity	13 852	W
Power input	4 258	W
Current consumption	7.04	A
Mass flow	325	kg/h
C.O.P.	3.25	

**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 = 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	-	4 339	5 528	6 980	8 725	10 792	13 211	16 012	19 224
35	-	4 026	5 160	6 542	8 202	10 170	12 474	15 144	18 210
40	-	3 726	4 801	6 109	7 680	9 543	11 728	14 263	17 178
45	-	-	4 444	5 674	7 152	8 906	10 966	13 361	16 121
50	-	-	-	5 231	6 611	8 252	10 183	12 434	15 033
55	-	-	-	-	6 051	7 574	9 371	11 472	13 906
60	-	-	-	-	-	6 866	8 524	10 471	12 734
65	-	-	-	-	-	-	7 635	9 422	11 508

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	99	123	153	187	226	272	324	384
35	-	97	121	150	184	223	269	321	381
40	-	94	119	147	180	220	265	317	377
45	-	-	115	143	176	215	261	313	373
50	-	-	-	138	171	210	255	308	368
55	-	-	-	-	164	203	249	301	361
60	-	-	-	-	-	195	240	293	353
65	-	-	-	-	-	-	231	283	344

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

30	-	1.94	2.38	2.91	3.53	4.24	5.03	5.90	6.84
35	-	1.49	1.88	2.36	2.92	3.57	4.31	5.13	6.02
40	-	1.17	1.51	1.92	2.42	3.00	3.67	4.42	5.25
45	-	-	1.22	1.57	2.00	2.51	3.10	3.77	4.52
50	-	-	-	1.28	1.65	2.08	2.60	3.19	3.85
55	-	-	-	-	1.35	1.71	2.15	2.66	3.23
60	-	-	-	-	-	1.39	1.76	2.18	2.67
65	-	-	-	-	-	-	1.41	1.76	2.17

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

Cooling capacity	12 434	W
Power input	3 903	W
Current consumption	6.49	A
Mass flow	308	kg/h
C.O.P.	3.19	

**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	-	4 660	5 929	7 478	9 336	11 536	14 107	17 081	20 489
35	-	4 345	5 561	7 042	8 818	10 920	13 379	16 225	19 490
40	-	4 044	5 203	6 612	8 301	10 300	12 642	15 356	18 474
45	-	-	4 848	6 180	7 777	9 670	11 891	14 468	17 434
50	-	-	-	5 741	7 242	9 024	11 118	13 554	16 365
55	-	-	-	-	6 687	8 353	10 317	12 608	15 258
60	-	-	-	-	-	7 653	9 481	11 622	14 107
65	-	-	-	-	-	-	8 604	10 591	12 906

**Power input in W**

30	-	2 241	2 322	2 397	2 471	2 546	2 625	2 712	2 810
35	-	2 707	2 743	2 777	2 812	2 851	2 897	2 953	3 023
40	-	3 189	3 184	3 179	3 178	3 183	3 199	3 227	3 271
45	-	-	3 651	3 610	3 576	3 551	3 538	3 541	3 563
50	-	-	-	4 077	4 013	3 960	3 923	3 903	3 905
55	-	-	-	-	4 495	4 418	4 358	4 319	4 305
60	-	-	-	-	-	4 931	4 852	4 797	4 768
65	-	-	-	-	-	-	5 411	5 342	5 303

**Current consumption in A**

30	-	4.66	4.67	4.69	4.71	4.73	4.77	4.83	4.89
35	-	5.01	5.02	5.03	5.05	5.08	5.11	5.16	5.22
40	-	5.39	5.41	5.42	5.44	5.46	5.50	5.54	5.59
45	-	-	5.85	5.87	5.89	5.91	5.94	5.98	6.03
50	-	-	-	6.39	6.41	6.43	6.46	6.49	6.53
55	-	-	-	-	7.03	7.05	7.07	7.10	7.14
60	-	-	-	-	-	7.78	7.80	7.82	7.86
65	-	-	-	-	-	-	8.66	8.68	8.71

**Mass flow in kg/h**

30	-	98	123	152	186	225	270	322	382
35	-	96	121	149	183	222	267	319	379
40	-	94	118	146	179	218	264	316	375
45	-	-	114	142	175	214	259	311	371
50	-	-	-	137	170	209	254	306	365
55	-	-	-	-	164	202	247	299	359
60	-	-	-	-	-	194	239	291	351
65	-	-	-	-	-	-	229	282	342

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

30	-	2.08	2.55	3.12	3.78	4.53	5.37	6.30	7.29
35	-	1.61	2.03	2.54	3.14	3.83	4.62	5.49	6.45
40	-	1.27	1.63	2.08	2.61	3.24	3.95	4.76	5.65
45	-	-	1.33	1.71	2.17	2.72	3.36	4.09	4.89
50	-	-	-	1.41	1.80	2.28	2.83	3.47	4.19
55	-	-	-	-	1.49	1.89	2.37	2.92	3.54
60	-	-	-	-	-	1.55	1.95	2.42	2.96
65	-	-	-	-	-	-	1.59	1.98	2.43

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

Cooling capacity	13 852	W
Power input	4 258	W
Current consumption	7.04	A
Mass flow	325	kg/h
C.O.P.	3.25	

**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 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	-	5 031	6 458	8 191	10 265	12 714	15 572	18 875	22 655
35	-	4 729	6 083	7 728	9 698	12 026	14 748	17 896	21 507
40	-	4 408	5 691	7 248	9 114	11 322	13 907	16 902	20 342
45	-	-	5 273	6 743	8 505	10 593	13 041	15 882	19 152
50	-	-	-	6 201	7 860	9 828	12 139	14 827	17 926
55	-	-	-	-	7 171	9 018	11 192	13 726	16 654
60	-	-	-	-	-	8 155	10 191	12 569	15 324
65	-	-	-	-	-	-	9 125	11 345	13 924

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	113	142	177	218	266	321	383	453
35	-	112	141	175	216	263	318	380	450
40	-	110	139	173	214	261	315	376	446
45	-	-	136	170	211	257	311	372	442
50	-	-	-	166	206	253	307	368	437
55	-	-	-	-	201	248	301	362	431
60	-	-	-	-	-	240	294	355	424
65	-	-	-	-	-	-	285	346	415

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

30	-	1.61	2.08	2.65	3.33	4.15	5.15	6.37	7.89
35	-	1.34	1.74	2.22	2.80	3.49	4.33	5.34	6.59
40	-	1.11	1.45	1.85	2.34	2.93	3.62	4.47	5.49
45	-	-	1.19	1.54	1.95	2.44	3.02	3.72	4.56
50	-	-	-	1.26	1.60	2.01	2.50	3.08	3.77
55	-	-	-	-	1.30	1.64	2.05	2.53	3.09
60	-	-	-	-	-	1.32	1.66	2.05	2.52
65	-	-	-	-	-	-	1.32	1.64	2.03

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

Cooling capacity	14 827	W
Power input	4 817	W
Current consumption	6.33	A
Mass flow	368	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	74	dB(A)
With accoustic hood	69	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	-	5 403	6 926	8 775	10 984	13 590	16 629	20 135	24 146
35	-	5 103	6 556	8 318	10 425	12 913	15 817	19 174	23 018
40	-	4 785	6 168	7 845	9 850	12 220	14 991	18 198	21 877
45	-	-	5 752	7 344	9 248	11 502	14 140	17 198	20 712
50	-	-	-	6 805	8 610	10 747	13 253	16 164	19 514
55	-	-	-	-	7 925	9 947	12 322	15 085	18 272
60	-	-	-	-	-	9 090	11 335	13 952	16 976
65	-	-	-	-	-	-	10 282	12 754	15 617

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	112	141	176	217	264	319	381	450
35	-	111	140	174	215	262	316	378	447
40	-	109	138	172	213	259	313	374	443
45	-	-	135	169	209	256	309	370	439
50	-	-	-	166	205	252	305	366	434
55	-	-	-	-	200	246	299	360	428
60	-	-	-	-	-	239	292	353	421
65	-	-	-	-	-	-	283	344	412

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

30	-	1.73	2.23	2.83	3.56	4.44	5.50	6.79	8.41
35	-	1.45	1.87	2.39	3.01	3.75	4.64	5.72	7.05
40	-	1.21	1.57	2.01	2.53	3.16	3.91	4.81	5.90
45	-	-	1.30	1.67	2.12	2.65	3.28	4.03	4.93
50	-	-	-	1.38	1.76	2.20	2.73	3.36	4.10
55	-	-	-	-	1.44	1.81	2.26	2.78	3.40
60	-	-	-	-	-	1.48	1.84	2.28	2.79
65	-	-	-	-	-	-	1.49	1.85	2.27

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

Cooling capacity	16 573	W
Power input	5 334	W
Current consumption	6.79	A
Mass flow	390	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	74	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

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	-	5 031	6 458	8 191	10 265	12 714	15 572	18 875	22 655
35	-	4 729	6 083	7 728	9 698	12 026	14 748	17 896	21 507
40	-	4 408	5 691	7 248	9 114	11 322	13 907	16 902	20 342
45	-	-	5 273	6 743	8 505	10 593	13 041	15 882	19 152
50	-	-	-	6 201	7 860	9 828	12 139	14 827	17 926
55	-	-	-	-	7 171	9 018	11 192	13 726	16 654
60	-	-	-	-	-	8 155	10 191	12 569	15 324
65	-	-	-	-	-	-	9 125	11 345	13 924

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	113	142	177	218	266	321	383	453
35	-	112	141	175	216	263	318	380	450
40	-	110	139	173	214	261	315	376	446
45	-	-	136	170	211	257	311	372	442
50	-	-	-	166	206	253	307	368	437
55	-	-	-	-	201	248	301	362	431
60	-	-	-	-	-	240	294	355	424
65	-	-	-	-	-	-	285	346	415

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

30	-	1.61	2.08	2.65	3.33	4.15	5.15	6.37	7.89
35	-	1.34	1.74	2.22	2.80	3.49	4.33	5.34	6.59
40	-	1.11	1.45	1.85	2.34	2.93	3.62	4.47	5.49
45	-	-	1.19	1.54	1.95	2.44	3.02	3.72	4.56
50	-	-	-	1.26	1.60	2.01	2.50	3.08	3.77
55	-	-	-	-	1.30	1.64	2.05	2.53	3.09
60	-	-	-	-	-	1.32	1.66	2.05	2.52
65	-	-	-	-	-	-	1.32	1.64	2.03

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

Cooling capacity	14 827	W
Power input	4 817	W
Current consumption	6.33	A
Mass flow	368	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	74	dB(A)
With accoustic hood	69	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	-	5 403	6 926	8 775	10 984	13 590	16 629	20 135	24 146
35	-	5 103	6 556	8 318	10 425	12 913	15 817	19 174	23 018
40	-	4 785	6 168	7 845	9 850	12 220	14 991	18 198	21 877
45	-	-	5 752	7 344	9 248	11 502	14 140	17 198	20 712
50	-	-	-	6 805	8 610	10 747	13 253	16 164	19 514
55	-	-	-	-	7 925	9 947	12 322	15 085	18 272
60	-	-	-	-	-	9 090	11 335	13 952	16 976
65	-	-	-	-	-	-	10 282	12 754	15 617

**Power input in W**

30	-	3 125	3 107	3 095	3 083	3 063	3 026	2 965	2 872
35	-	3 528	3 500	3 482	3 466	3 444	3 409	3 351	3 265
40	-	3 970	3 934	3 911	3 892	3 870	3 836	3 784	3 705
45	-	-	4 416	4 389	4 368	4 347	4 317	4 270	4 199
50	-	-	-	4 924	4 902	4 883	4 857	4 817	4 756
55	-	-	-	-	5 501	5 484	5 464	5 432	5 381
60	-	-	-	-	-	6 160	6 146	6 123	6 084
65	-	-	-	-	-	-	6 910	6 897	6 870

**Current consumption in A**

30	-	4.04	3.98	4.06	4.22	4.42	4.60	4.70	4.68
35	-	5.10	4.93	4.92	4.99	5.12	5.23	5.28	5.22
40	-	5.84	5.58	5.49	5.50	5.57	5.64	5.66	5.57
45	-	-	6.06	5.91	5.88	5.91	5.96	5.96	5.88
50	-	-	-	6.32	6.26	6.28	6.32	6.33	6.26
55	-	-	-	-	6.77	6.79	6.85	6.88	6.84
60	-	-	-	-	-	7.59	7.68	7.76	7.78
65	-	-	-	-	-	-	8.94	9.09	9.18

**Mass flow in kg/h**

30	-	112	141	176	217	264	319	381	450
35	-	111	140	174	215	262	316	378	447
40	-	109	138	172	213	259	313	374	443
45	-	-	135	169	209	256	309	370	439
50	-	-	-	166	205	252	305	366	434
55	-	-	-	-	200	246	299	360	428
60	-	-	-	-	-	239	292	353	421
65	-	-	-	-	-	-	283	344	412

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

30	-	1.73	2.23	2.83	3.56	4.44	5.50	6.79	8.41
35	-	1.45	1.87	2.39	3.01	3.75	4.64	5.72	7.05
40	-	1.21	1.57	2.01	2.53	3.16	3.91	4.81	5.90
45	-	-	1.30	1.67	2.12	2.65	3.28	4.03	4.93
50	-	-	-	1.38	1.76	2.20	2.73	3.36	4.10
55	-	-	-	-	1.44	1.81	2.26	2.78	3.40
60	-	-	-	-	-	1.48	1.84	2.28	2.79
65	-	-	-	-	-	-	1.49	1.85	2.27

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

Cooling capacity	16 573	W
Power input	5 334	W
Current consumption	6.79	A
Mass flow	390	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	74	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

All performance data +/- 5%

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