

Datasheets

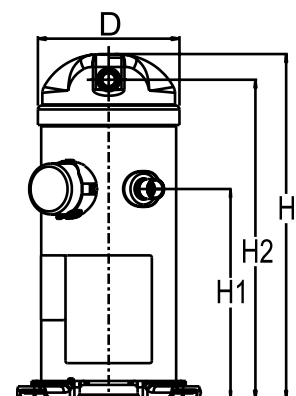
# Danfoss scroll compressors **H series**



## General Characteristics

Model number (on compressor nameplate)		<b>HRP034T4LP6</b>
Code number for Singlepack*		120U2024
Code number for Industrial pack**		120U2021
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		46.21 cm <sup>3</sup> /rev
Displacement @ Nominal speed		8.0 m <sup>3</sup> /h @ 2900 rpm - 9.7 m <sup>3</sup> /h @ 3500 rpm
Net weight		30.84 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

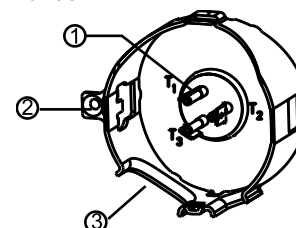
H2=379 mm

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	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	4.660 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	3.422 Ω
Rated Load Amps (RLA)	6.1 A
Maximum Continuous Current (MCC)	9.5 A
Locked Rotor Amps (LRA)	45 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	-	2 456	3 155	4 002	5 015	6 212	7 610	9 228	11 082
35	-	2 299	2 963	3 766	4 725	5 859	7 184	8 720	10 482
40	-	2 129	2 758	3 517	4 424	5 495	6 749	8 202	9 873
45	-	-	2 539	3 255	4 109	5 118	6 300	7 673	9 254
50	-	-	-	2 976	3 778	4 726	5 837	7 129	8 619
55	-	-	-	-	3 429	4 316	5 356	6 568	7 968
60	-	-	-	-	-	3 885	4 855	5 986	7 295
65	-	-	-	-	-	-	4 329	5 379	6 598

**Power input in W**

30	-	1 519	1 509	1 504	1 498	1 489	1 471	1 441	1 395
35	-	1 726	1 710	1 701	1 693	1 682	1 665	1 637	1 594
40	-	1 957	1 936	1 923	1 914	1 903	1 886	1 860	1 821
45	-	-	2 191	2 175	2 164	2 153	2 138	2 115	2 080
50	-	-	-	2 459	2 447	2 437	2 424	2 404	2 374
55	-	-	-	-	2 768	2 758	2 748	2 732	2 707
60	-	-	-	-	-	3 121	3 114	3 103	3 084
65	-	-	-	-	-	-	3 526	3 520	3 507

**Current consumption in A**

30	-	3.40	3.45	3.48	3.49	3.49	3.49	3.48	3.47
35	-	3.55	3.60	3.63	3.65	3.66	3.66	3.67	3.68
40	-	3.76	3.80	3.82	3.83	3.84	3.86	3.87	3.90
45	-	-	4.05	4.06	4.06	4.07	4.08	4.10	4.14
50	-	-	-	4.37	4.36	4.35	4.35	4.37	4.41
55	-	-	-	-	4.72	4.70	4.69	4.69	4.72
60	-	-	-	-	-	5.12	5.09	5.08	5.10
65	-	-	-	-	-	-	5.58	5.54	5.54

**Mass flow in kg/h**

30	-	55	69	87	107	130	157	187	222
35	-	54	69	85	105	128	155	185	219
40	-	53	67	84	104	127	153	183	216
45	-	-	66	82	102	124	150	180	213
50	-	-	-	80	99	122	147	177	210
55	-	-	-	-	96	118	144	173	206
60	-	-	-	-	-	115	140	169	202
65	-	-	-	-	-	-	135	164	196

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

30	-	1.62	2.09	2.66	3.35	4.17	5.17	6.40	7.95
35	-	1.33	1.73	2.21	2.79	3.48	4.31	5.33	6.58
40	-	1.09	1.42	1.83	2.31	2.89	3.58	4.41	5.42
45	-	-	1.16	1.50	1.90	2.38	2.95	3.63	4.45
50	-	-	-	1.21	1.54	1.94	2.41	2.97	3.63
55	-	-	-	-	1.24	1.56	1.95	2.40	2.94
60	-	-	-	-	-	1.24	1.56	1.93	2.37
65	-	-	-	-	-	-	1.23	1.53	1.88

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

Cooling capacity	7 129	W
Power input	2 404	W
Current consumption	4.37	A
Mass flow	177	kg/h
C.O.P.	2.97	

**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	-	2 638	3 384	4 287	5 367	6 640	8 127	9 844	11 811
35	-	2 481	3 193	4 053	5 080	6 291	7 706	9 342	11 219
40	-	2 311	2 990	3 807	4 781	5 931	7 275	8 831	10 618
45	-	-	2 770	3 545	4 468	5 558	6 832	8 309	10 007
50	-	-	-	3 266	4 139	5 168	6 373	7 772	9 383
55	-	-	-	-	3 789	4 760	5 897	7 218	8 742
60	-	-	-	-	-	4 330	5 399	6 644	8 082
65	-	-	-	-	-	-	4 878	6 047	7 400

**Power input in W**

30	-	1 519	1 509	1 504	1 498	1 489	1 471	1 441	1 395
35	-	1 726	1 710	1 701	1 693	1 682	1 665	1 637	1 594
40	-	1 957	1 936	1 923	1 914	1 903	1 886	1 860	1 821
45	-	-	2 191	2 175	2 164	2 153	2 138	2 115	2 080
50	-	-	-	2 459	2 447	2 437	2 424	2 404	2 374
55	-	-	-	-	2 768	2 758	2 748	2 732	2 707
60	-	-	-	-	-	3 121	3 114	3 103	3 084
65	-	-	-	-	-	-	3 526	3 520	3 507

**Current consumption in A**

30	-	3.40	3.45	3.48	3.49	3.49	3.49	3.48	3.47
35	-	3.55	3.60	3.63	3.65	3.66	3.66	3.67	3.68
40	-	3.76	3.80	3.82	3.83	3.84	3.86	3.87	3.90
45	-	-	4.05	4.06	4.06	4.07	4.08	4.10	4.14
50	-	-	-	4.37	4.36	4.35	4.35	4.37	4.41
55	-	-	-	-	4.72	4.70	4.69	4.69	4.72
60	-	-	-	-	-	5.12	5.09	5.08	5.10
65	-	-	-	-	-	-	5.58	5.54	5.54

**Mass flow in kg/h**

30	-	55	69	86	106	129	156	186	220
35	-	54	68	85	105	128	154	184	218
40	-	53	67	84	103	126	152	182	215
45	-	-	65	82	101	124	150	179	212
50	-	-	-	79	99	121	147	176	209
55	-	-	-	-	96	118	143	172	205
60	-	-	-	-	-	114	139	168	201
65	-	-	-	-	-	-	134	163	195

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

30	-	1.74	2.24	2.85	3.58	4.46	5.52	6.83	8.47
35	-	1.44	1.87	2.38	3.00	3.74	4.63	5.71	7.04
40	-	1.18	1.54	1.98	2.50	3.12	3.86	4.75	5.83
45	-	-	1.26	1.63	2.07	2.58	3.20	3.93	4.81
50	-	-	-	1.33	1.69	2.12	2.63	3.23	3.95
55	-	-	-	-	1.37	1.73	2.15	2.64	3.23
60	-	-	-	-	-	1.39	1.73	2.14	2.62
65	-	-	-	-	-	-	1.38	1.72	2.11

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

Cooling capacity	7 934	W
Power input	2 681	W
Current consumption	4.66	A
Mass flow	187	kg/h
C.O.P.	2.96	

**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	-	2 456	3 155	4 002	5 015	6 212	7 610	9 228	11 082
35	-	2 299	2 963	3 766	4 725	5 859	7 184	8 720	10 482
40	-	2 129	2 758	3 517	4 424	5 495	6 749	8 202	9 873
45	-	-	2 539	3 255	4 109	5 118	6 300	7 673	9 254
50	-	-	-	2 976	3 778	4 726	5 837	7 129	8 619
55	-	-	-	-	3 429	4 316	5 356	6 568	7 968
60	-	-	-	-	-	3 885	4 855	5 986	7 295
65	-	-	-	-	-	-	4 329	5 379	6 598

**Power input in W**

30	-	1 519	1 509	1 504	1 498	1 489	1 471	1 441	1 395
35	-	1 726	1 710	1 701	1 693	1 682	1 665	1 637	1 594
40	-	1 957	1 936	1 923	1 914	1 903	1 886	1 860	1 821
45	-	-	2 191	2 175	2 164	2 153	2 138	2 115	2 080
50	-	-	-	2 459	2 447	2 437	2 424	2 404	2 374
55	-	-	-	-	2 768	2 758	2 748	2 732	2 707
60	-	-	-	-	-	3 121	3 114	3 103	3 084
65	-	-	-	-	-	-	3 526	3 520	3 507

**Current consumption in A**

30	-	3.40	3.45	3.48	3.49	3.49	3.49	3.48	3.47
35	-	3.55	3.60	3.63	3.65	3.66	3.66	3.67	3.68
40	-	3.76	3.80	3.82	3.83	3.84	3.86	3.87	3.90
45	-	-	4.05	4.06	4.06	4.07	4.08	4.10	4.14
50	-	-	-	4.37	4.36	4.35	4.35	4.37	4.41
55	-	-	-	-	4.72	4.70	4.69	4.69	4.72
60	-	-	-	-	-	5.12	5.09	5.08	5.10
65	-	-	-	-	-	-	5.58	5.54	5.54

**Mass flow in kg/h**

30	-	55	69	87	107	130	157	187	222
35	-	54	69	85	105	128	155	185	219
40	-	53	67	84	104	127	153	183	216
45	-	-	66	82	102	124	150	180	213
50	-	-	-	80	99	122	147	177	210
55	-	-	-	-	96	118	144	173	206
60	-	-	-	-	-	115	140	169	202
65	-	-	-	-	-	-	135	164	196

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

30	-	1.62	2.09	2.66	3.35	4.17	5.17	6.40	7.95
35	-	1.33	1.73	2.21	2.79	3.48	4.31	5.33	6.58
40	-	1.09	1.42	1.83	2.31	2.89	3.58	4.41	5.42
45	-	-	1.16	1.50	1.90	2.38	2.95	3.63	4.45
50	-	-	-	1.21	1.54	1.94	2.41	2.97	3.63
55	-	-	-	-	1.24	1.56	1.95	2.40	2.94
60	-	-	-	-	-	1.24	1.56	1.93	2.37
65	-	-	-	-	-	-	1.23	1.53	1.88

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

Cooling capacity	7 129	W
Power input	2 404	W
Current consumption	4.37	A
Mass flow	177	kg/h
C.O.P.	2.97	

**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 accoustic 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	-	2 638	3 384	4 287	5 367	6 640	8 127	9 844	11 811
35	-	2 481	3 193	4 053	5 080	6 291	7 706	9 342	11 219
40	-	2 311	2 990	3 807	4 781	5 931	7 275	8 831	10 618
45	-	-	2 770	3 545	4 468	5 558	6 832	8 309	10 007
50	-	-	-	3 266	4 139	5 168	6 373	7 772	9 383
55	-	-	-	-	3 789	4 760	5 897	7 218	8 742
60	-	-	-	-	-	4 330	5 399	6 644	8 082
65	-	-	-	-	-	-	4 878	6 047	7 400

**Power input in W**

30	-	1 519	1 509	1 504	1 498	1 489	1 471	1 441	1 395
35	-	1 726	1 710	1 701	1 693	1 682	1 665	1 637	1 594
40	-	1 957	1 936	1 923	1 914	1 903	1 886	1 860	1 821
45	-	-	2 191	2 175	2 164	2 153	2 138	2 115	2 080
50	-	-	-	2 459	2 447	2 437	2 424	2 404	2 374
55	-	-	-	-	2 768	2 758	2 748	2 732	2 707
60	-	-	-	-	-	3 121	3 114	3 103	3 084
65	-	-	-	-	-	-	3 526	3 520	3 507

**Current consumption in A**

30	-	3.40	3.45	3.48	3.49	3.49	3.49	3.48	3.47
35	-	3.55	3.60	3.63	3.65	3.66	3.66	3.67	3.68
40	-	3.76	3.80	3.82	3.83	3.84	3.86	3.87	3.90
45	-	-	4.05	4.06	4.06	4.07	4.08	4.10	4.14
50	-	-	-	4.37	4.36	4.35	4.35	4.37	4.41
55	-	-	-	-	4.72	4.70	4.69	4.69	4.72
60	-	-	-	-	-	5.12	5.09	5.08	5.10
65	-	-	-	-	-	-	5.58	5.54	5.54

**Mass flow in kg/h**

30	-	55	69	86	106	129	156	186	220
35	-	54	68	85	105	128	154	184	218
40	-	53	67	84	103	126	152	182	215
45	-	-	65	82	101	124	150	179	212
50	-	-	-	79	99	121	147	176	209
55	-	-	-	-	96	118	143	172	205
60	-	-	-	-	-	114	139	168	201
65	-	-	-	-	-	-	134	163	195

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

30	-	1.74	2.24	2.85	3.58	4.46	5.52	6.83	8.47
35	-	1.44	1.87	2.38	3.00	3.74	4.63	5.71	7.04
40	-	1.18	1.54	1.98	2.50	3.12	3.86	4.75	5.83
45	-	-	1.26	1.63	2.07	2.58	3.20	3.93	4.81
50	-	-	-	1.33	1.69	2.12	2.63	3.23	3.95
55	-	-	-	-	1.37	1.73	2.15	2.64	3.23
60	-	-	-	-	-	1.39	1.73	2.14	2.62
65	-	-	-	-	-	-	1.38	1.72	2.11

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

Cooling capacity	7 934	W
Power input	2 681	W
Current consumption	4.66	A
Mass flow	187	kg/h
C.O.P.	2.96	

**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	-	2 930	3 763	4 774	5 982	7 410	9 077	11 006	13 217
35	-	2 744	3 535	4 493	5 638	6 991	8 572	10 404	12 506
40	-	2 543	3 293	4 199	5 281	6 559	8 056	9 791	11 786
45	-	-	3 034	3 888	4 907	6 113	7 525	9 164	11 052
50	-	-	-	3 557	4 515	5 648	6 975	8 519	10 300
55	-	-	-	-	4 100	5 160	6 404	7 853	9 527
60	-	-	-	-	-	4 647	5 807	7 161	8 728
65	-	-	-	-	-	-	5 181	6 439	7 898

**Power input in W**

30	-	1 924	1 913	1 906	1 898	1 885	1 862	1 825	1 769
35	-	2 165	2 149	2 139	2 129	2 116	2 094	2 059	2 006
40	-	2 429	2 409	2 395	2 384	2 371	2 350	2 318	2 270
45	-	-	2 695	2 679	2 667	2 654	2 636	2 607	2 564
50	-	-	-	2 995	2 983	2 972	2 956	2 932	2 894
55	-	-	-	-	3 336	3 327	3 314	3 295	3 264
60	-	-	-	-	-	3 724	3 716	3 702	3 677
65	-	-	-	-	-	-	4 164	4 156	4 140

**Current consumption in A**

30	-	2.58	2.54	2.59	2.69	2.82	2.93	3.00	2.98
35	-	3.25	3.15	3.13	3.18	3.26	3.33	3.37	3.33
40	-	3.72	3.56	3.50	3.51	3.55	3.60	3.61	3.55
45	-	-	3.86	3.77	3.75	3.77	3.80	3.80	3.75
50	-	-	-	4.03	3.99	4.00	4.03	4.03	3.99
55	-	-	-	-	4.32	4.33	4.36	4.39	4.36
60	-	-	-	-	-	4.84	4.89	4.95	4.96
65	-	-	-	-	-	-	5.70	5.79	5.85

**Mass flow in kg/h**

30	-	66	83	103	127	155	187	223	264
35	-	65	82	102	126	153	185	221	261
40	-	63	80	100	124	151	182	218	258
45	-	-	78	98	122	149	180	215	255
50	-	-	-	95	119	145	176	211	251
55	-	-	-	-	115	142	172	207	247
60	-	-	-	-	-	137	167	202	241
65	-	-	-	-	-	-	162	196	235

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

30	-	1.52	1.97	2.50	3.15	3.93	4.87	6.03	7.47
35	-	1.27	1.64	2.10	2.65	3.30	4.09	5.05	6.23
40	-	1.05	1.37	1.75	2.21	2.77	3.43	4.22	5.19
45	-	-	1.13	1.45	1.84	2.30	2.85	3.51	4.31
50	-	-	-	1.19	1.51	1.90	2.36	2.91	3.56
55	-	-	-	-	1.23	1.55	1.93	2.38	2.92
60	-	-	-	-	-	1.25	1.56	1.93	2.37
65	-	-	-	-	-	-	1.24	1.55	1.91

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

Cooling capacity	8 519	W
Power input	2 932	W
Current consumption	4.03	A
Mass flow	211	kg/h
C.O.P.	2.91	

**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	-	3 147	4 036	5 114	6 402	7 921	9 693	11 741	14 086
35	-	2 961	3 810	4 836	6 061	7 506	9 194	11 147	13 385
40	-	2 760	3 569	4 544	5 707	7 080	8 684	10 542	12 675
45	-	-	3 309	4 235	5 337	6 638	8 159	9 923	11 952
50	-	-	-	3 904	4 946	6 176	7 616	9 287	11 212
55	-	-	-	-	4 531	5 691	7 050	8 630	10 452
60	-	-	-	-	-	5 180	6 459	7 948	9 669
65	-	-	-	-	-	-	5 839	7 238	8 858

**Power input in W**

30	-	1 924	1 913	1 906	1 898	1 885	1 862	1 825	1 769
35	-	2 165	2 149	2 139	2 129	2 116	2 094	2 059	2 006
40	-	2 429	2 409	2 395	2 384	2 371	2 350	2 318	2 270
45	-	-	2 695	2 679	2 667	2 654	2 636	2 607	2 564
50	-	-	-	2 995	2 983	2 972	2 956	2 932	2 894
55	-	-	-	-	3 336	3 327	3 314	3 295	3 264
60	-	-	-	-	-	3 724	3 716	3 702	3 677
65	-	-	-	-	-	-	4 164	4 156	4 140

**Current consumption in A**

30	-	2.58	2.54	2.59	2.69	2.82	2.93	3.00	2.98
35	-	3.25	3.15	3.13	3.18	3.26	3.33	3.37	3.33
40	-	3.72	3.56	3.50	3.51	3.55	3.60	3.61	3.55
45	-	-	3.86	3.77	3.75	3.77	3.80	3.80	3.75
50	-	-	-	4.03	3.99	4.00	4.03	4.03	3.99
55	-	-	-	-	4.32	4.33	4.36	4.39	4.36
60	-	-	-	-	-	4.84	4.89	4.95	4.96
65	-	-	-	-	-	-	5.70	5.79	5.85

**Mass flow in kg/h**

30	-	65	82	103	127	154	186	222	263
35	-	64	81	101	125	152	184	219	260
40	-	63	80	100	123	150	181	217	257
45	-	-	78	98	121	148	179	214	253
50	-	-	-	95	118	145	175	210	250
55	-	-	-	-	114	141	171	206	245
60	-	-	-	-	-	136	167	201	240
65	-	-	-	-	-	-	161	195	234

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

30	-	1.64	2.11	2.68	3.37	4.20	5.20	6.43	7.96
35	-	1.37	1.77	2.26	2.85	3.55	4.39	5.41	6.67
40	-	1.14	1.48	1.90	2.39	2.99	3.70	4.55	5.58
45	-	-	1.23	1.58	2.00	2.50	3.10	3.81	4.66
50	-	-	-	1.30	1.66	2.08	2.58	3.17	3.87
55	-	-	-	-	1.36	1.71	2.13	2.62	3.20
60	-	-	-	-	-	1.39	1.74	2.15	2.63
65	-	-	-	-	-	-	1.40	1.74	2.14

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

Cooling capacity	9 486	W
Power input	3 237	W
Current consumption	4.33	A
Mass flow	223	kg/h
C.O.P.	2.93	

**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	-	2 930	3 763	4 774	5 982	7 410	9 077	11 006	13 217
35	-	2 744	3 535	4 493	5 638	6 991	8 572	10 404	12 506
40	-	2 543	3 293	4 199	5 281	6 559	8 056	9 791	11 786
45	-	-	3 034	3 888	4 907	6 113	7 525	9 164	11 052
50	-	-	-	3 557	4 515	5 648	6 975	8 519	10 300
55	-	-	-	-	4 100	5 160	6 404	7 853	9 527
60	-	-	-	-	-	4 647	5 807	7 161	8 728
65	-	-	-	-	-	-	5 181	6 439	7 898

**Power input in W**

30	-	1 924	1 913	1 906	1 898	1 885	1 862	1 825	1 769
35	-	2 165	2 149	2 139	2 129	2 116	2 094	2 059	2 006
40	-	2 429	2 409	2 395	2 384	2 371	2 350	2 318	2 270
45	-	-	2 695	2 679	2 667	2 654	2 636	2 607	2 564
50	-	-	-	2 995	2 983	2 972	2 956	2 932	2 894
55	-	-	-	-	3 336	3 327	3 314	3 295	3 264
60	-	-	-	-	-	3 724	3 716	3 702	3 677
65	-	-	-	-	-	-	4 164	4 156	4 140

**Current consumption in A**

30	-	2.58	2.54	2.59	2.69	2.82	2.93	3.00	2.98
35	-	3.25	3.15	3.13	3.18	3.26	3.33	3.37	3.33
40	-	3.72	3.56	3.50	3.51	3.55	3.60	3.61	3.55
45	-	-	3.86	3.77	3.75	3.77	3.80	3.80	3.75
50	-	-	-	4.03	3.99	4.00	4.03	4.03	3.99
55	-	-	-	-	4.32	4.33	4.36	4.39	4.36
60	-	-	-	-	-	4.84	4.89	4.95	4.96
65	-	-	-	-	-	-	5.70	5.79	5.85

**Mass flow in kg/h**

30	-	66	83	103	127	155	187	223	264
35	-	65	82	102	126	153	185	221	261
40	-	63	80	100	124	151	182	218	258
45	-	-	78	98	122	149	180	215	255
50	-	-	-	95	119	145	176	211	251
55	-	-	-	-	115	142	172	207	247
60	-	-	-	-	-	137	167	202	241
65	-	-	-	-	-	-	162	196	235

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

30	-	1.52	1.97	2.50	3.15	3.93	4.87	6.03	7.47
35	-	1.27	1.64	2.10	2.65	3.30	4.09	5.05	6.23
40	-	1.05	1.37	1.75	2.21	2.77	3.43	4.22	5.19
45	-	-	1.13	1.45	1.84	2.30	2.85	3.51	4.31
50	-	-	-	1.19	1.51	1.90	2.36	2.91	3.56
55	-	-	-	-	1.23	1.55	1.93	2.38	2.92
60	-	-	-	-	-	1.25	1.56	1.93	2.37
65	-	-	-	-	-	-	1.24	1.55	1.91

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

Cooling capacity	8 519	W
Power input	2 932	W
Current consumption	4.03	A
Mass flow	211	kg/h
C.O.P.	2.91	

**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	-	3 147	4 036	5 114	6 402	7 921	9 693	11 741	14 086
35	-	2 961	3 810	4 836	6 061	7 506	9 194	11 147	13 385
40	-	2 760	3 569	4 544	5 707	7 080	8 684	10 542	12 675
45	-	-	3 309	4 235	5 337	6 638	8 159	9 923	11 952
50	-	-	-	3 904	4 946	6 176	7 616	9 287	11 212
55	-	-	-	-	4 531	5 691	7 050	8 630	10 452
60	-	-	-	-	-	5 180	6 459	7 948	9 669
65	-	-	-	-	-	-	5 839	7 238	8 858

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30	-	1 924	1 913	1 906	1 898	1 885	1 862	1 825	1 769
35	-	2 165	2 149	2 139	2 129	2 116	2 094	2 059	2 006
40	-	2 429	2 409	2 395	2 384	2 371	2 350	2 318	2 270
45	-	-	2 695	2 679	2 667	2 654	2 636	2 607	2 564
50	-	-	-	2 995	2 983	2 972	2 956	2 932	2 894
55	-	-	-	-	3 336	3 327	3 314	3 295	3 264
60	-	-	-	-	-	3 724	3 716	3 702	3 677
65	-	-	-	-	-	-	4 164	4 156	4 140

**Current consumption in A**

30	-	2.58	2.54	2.59	2.69	2.82	2.93	3.00	2.98
35	-	3.25	3.15	3.13	3.18	3.26	3.33	3.37	3.33
40	-	3.72	3.56	3.50	3.51	3.55	3.60	3.61	3.55
45	-	-	3.86	3.77	3.75	3.77	3.80	3.80	3.75
50	-	-	-	4.03	3.99	4.00	4.03	4.03	3.99
55	-	-	-	-	4.32	4.33	4.36	4.39	4.36
60	-	-	-	-	-	4.84	4.89	4.95	4.96
65	-	-	-	-	-	-	5.70	5.79	5.85

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40	-	63	80	100	123	150	181	217	257
45	-	-	78	98	121	148	179	214	253
50	-	-	-	95	118	145	175	210	250
55	-	-	-	-	114	141	171	206	245
60	-	-	-	-	-	136	167	201	240
65	-	-	-	-	-	-	161	195	234

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

30	-	1.64	2.11	2.68	3.37	4.20	5.20	6.43	7.96
35	-	1.37	1.77	2.26	2.85	3.55	4.39	5.41	6.67
40	-	1.14	1.48	1.90	2.39	2.99	3.70	4.55	5.58
45	-	-	1.23	1.58	2.00	2.50	3.10	3.81	4.66
50	-	-	-	1.30	1.66	2.08	2.58	3.17	3.87
55	-	-	-	-	1.36	1.71	2.13	2.62	3.20
60	-	-	-	-	-	1.39	1.74	2.15	2.63
65	-	-	-	-	-	-	1.40	1.74	2.14

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

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With accoustic 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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