

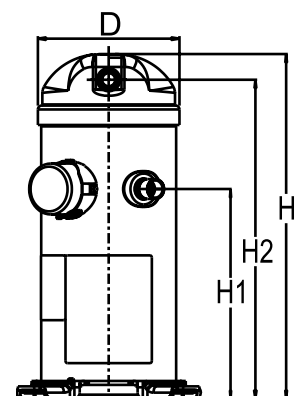
Datasheets

Danfoss scroll compressors **H series**



General Characteristics

Model number (on compressor nameplate)		HRM058U4LC8
Code number for Singlepack*		120U1716
Code number for Industrial pack**		120U1713
Drawing number		0XR6049B-2
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		1/2"
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		78.17 cm ³ /rev
Displacement @ Nominal speed		13.6 m ³ /h @ 2900 rpm - 16.4 m ³ /h @ 3500 rpm
Net weight		37.19 kg
Oil charge		1.57 litre, Alkylbenzene - -
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		R22

Dimensions


D=183.5 mm

H=455 mm

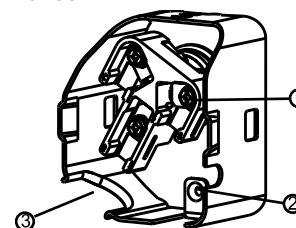
H1=280 mm

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

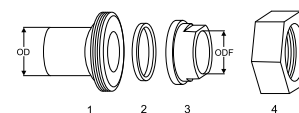
**Industrial pack: 12 or 16 Unboxed compressors on pallet

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.
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
R22

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

Cooling capacity in W

30	5 131	5 990	7 256	8 903	10 906	13 237	15 870	18 780	-
35	4 813	5 663	6 895	8 483	10 401	12 623	15 122	17 873	-
40	-	5 267	6 486	8 036	9 890	12 024	14 410	17 022	-
45	-	-	6 000	7 532	9 344	11 410	13 703	16 199	-
50	-	-	-	6 944	8 733	10 752	12 973	15 372	-
55	-	-	-	-	8 030	10 021	12 190	14 512	-
60	-	-	-	-	-	9 189	11 325	13 590	-
65	-	-	-	-	-	-	10 350	12 576	-

Power input in W

30	2 464	2 481	2 493	2 493	2 477	2 438	2 372	2 274	-
35	2 794	2 790	2 789	2 785	2 774	2 749	2 705	2 637	-
40	-	3 145	3 124	3 110	3 097	3 079	3 050	3 006	-
45	-	-	3 515	3 484	3 462	3 444	3 424	3 397	-
50	-	-	-	3 921	3 884	3 859	3 842	3 826	-
55	-	-	-	-	4 380	4 342	4 320	4 308	-
60	-	-	-	-	-	4 907	4 874	4 859	-
65	-	-	-	-	-	-	5 520	5 496	-

Current consumption in A

30	4.51	4.59	4.65	4.69	4.70	4.70	4.69	4.67	-
35	4.86	4.92	4.96	4.99	4.99	4.99	4.99	4.98	-
40	-	5.38	5.40	5.41	5.41	5.40	5.40	5.40	-
45	-	-	5.97	5.96	5.95	5.94	5.94	5.95	-
50	-	-	-	6.65	6.62	6.61	6.61	6.63	-
55	-	-	-	-	7.43	7.41	7.41	7.43	-
60	-	-	-	-	-	8.36	8.35	8.38	-
65	-	-	-	-	-	-	9.44	9.46	-

Mass flow in kg/h

30	111	129	154	187	226	271	322	377	-
35	109	127	152	185	224	268	318	371	-
40	-	123	149	182	221	266	315	368	-
45	-	-	144	178	218	263	312	364	-
50	-	-	-	172	213	259	309	361	-
55	-	-	-	-	206	253	304	358	-
60	-	-	-	-	-	245	297	352	-
65	-	-	-	-	-	-	288	345	-

Coefficient of performance (C.O.P.)

30	2.08	2.41	2.91	3.57	4.40	5.43	6.69	8.26	-
35	1.72	2.03	2.47	3.05	3.75	4.59	5.59	6.78	-
40	-	1.68	2.08	2.58	3.19	3.91	4.72	5.66	-
45	-	-	1.71	2.16	2.70	3.31	4.00	4.77	-
50	-	-	-	1.77	2.25	2.79	3.38	4.02	-
55	-	-	-	-	1.83	2.31	2.82	3.37	-
60	-	-	-	-	-	1.87	2.32	2.80	-
65	-	-	-	-	-	-	1.88	2.29	-

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

Cooling capacity	12 973	W
Power input	3 842	W
Current consumption	6.61	A
Mass flow	309	kg/h
C.O.P.	3.38	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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
R22

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

Cooling capacity in W

30	5 449	6 356	7 694	9 434	11 547	14 005	16 780	19 843	-
35	-	6 031	7 336	9 019	11 049	13 399	16 040	18 944	-
40	-	-	6 928	8 575	10 545	12 809	15 339	18 106	-
45	-	-	6 437	8 072	10 005	12 205	14 646	17 298	-
50	-	-	-	7 479	9 396	11 556	13 930	16 490	-
55	-	-	-	-	8 688	10 830	13 160	15 651	-
60	-	-	-	-	-	9 996	12 305	14 749	-
65	-	-	-	-	-	-	11 334	13 753	-

Power input in W

30	2 464	2 481	2 493	2 493	2 477	2 438	2 372	2 274	-
35	-	2 790	2 789	2 785	2 774	2 749	2 705	2 637	-
40	-	-	3 124	3 110	3 097	3 079	3 050	3 006	-
45	-	-	3 515	3 484	3 462	3 444	3 424	3 397	-
50	-	-	-	3 921	3 884	3 859	3 842	3 826	-
55	-	-	-	-	4 380	4 342	4 320	4 308	-
60	-	-	-	-	-	4 907	4 874	4 859	-
65	-	-	-	-	-	-	5 520	5 496	-

Current consumption in A

30	4.51	4.59	4.65	4.69	4.70	4.70	4.69	4.67	-
35	-	4.92	4.96	4.99	4.99	4.99	4.99	4.98	-
40	-	-	5.40	5.41	5.41	5.40	5.40	5.40	-
45	-	-	5.97	5.96	5.95	5.94	5.94	5.95	-
50	-	-	-	6.65	6.62	6.61	6.61	6.63	-
55	-	-	-	-	7.43	7.41	7.41	7.43	-
60	-	-	-	-	-	8.36	8.35	8.38	-
65	-	-	-	-	-	-	9.44	9.46	-

Mass flow in kg/h

30	111	128	153	186	225	270	320	375	-
35	-	126	152	184	223	267	316	369	-
40	-	-	149	181	220	264	313	365	-
45	-	-	144	178	217	261	310	362	-
50	-	-	-	171	212	258	307	359	-
55	-	-	-	-	205	252	302	356	-
60	-	-	-	-	-	244	296	350	-
65	-	-	-	-	-	-	286	343	-

Coefficient of performance (C.O.P.)

30	2.21	2.56	3.09	3.78	4.66	5.74	7.07	8.73	-
35	-	2.16	2.63	3.24	3.98	4.87	5.93	7.18	-
40	-	-	2.22	2.76	3.41	4.16	5.03	6.02	-
45	-	-	1.83	2.32	2.89	3.54	4.28	5.09	-
50	-	-	-	1.91	2.42	2.99	3.63	4.31	-
55	-	-	-	-	1.98	2.49	3.05	3.63	-
60	-	-	-	-	-	2.04	2.52	3.04	-
65	-	-	-	-	-	-	2.05	2.50	-

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

Cooling capacity	14 337	W
Power input	4 253	W
Current consumption	7.31	A
Mass flow	326	kg/h
C.O.P.	3.37	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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
R22

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

Cooling capacity in W

30	6 082	7 101	8 602	10 555	12 929	15 693	18 816	22 268	-
35	5 701	6 709	8 170	10 051	12 324	14 956	17 918	21 178	-
40	-	6 235	7 679	9 514	11 709	14 235	17 060	20 154	-
45	-	-	7 097	8 910	11 053	13 496	16 209	19 161	-
50	-	-	-	8 206	10 321	12 706	15 331	18 166	-
55	-	-	-	-	9 481	11 831	14 392	17 133	-
60	-	-	-	-	-	10 840	13 359	16 029	-
65	-	-	-	-	-	-	12 199	14 820	-

Power input in W

30	2 931	2 952	2 966	2 966	2 946	2 900	2 822	2 706	-
35	3 318	3 315	3 314	3 310	3 296	3 266	3 214	3 134	-
40	-	3 730	3 707	3 690	3 674	3 653	3 619	3 567	-
45	-	-	4 163	4 126	4 101	4 079	4 056	4 024	-
50	-	-	-	4 637	4 593	4 564	4 543	4 524	-
55	-	-	-	-	5 171	5 126	5 100	5 085	-
60	-	-	-	-	-	5 784	5 744	5 727	-
65	-	-	-	-	-	-	6 495	6 467	-

Current consumption in A

30	4.68	4.77	4.83	4.87	4.88	4.88	4.87	4.85	-
35	5.05	5.11	5.15	5.18	5.19	5.18	5.18	5.17	-
40	-	5.59	5.61	5.62	5.62	5.61	5.61	5.61	-
45	-	-	6.20	6.19	6.18	6.17	6.17	6.18	-
50	-	-	-	6.90	6.88	6.86	6.86	6.88	-
55	-	-	-	-	7.72	7.70	7.70	7.72	-
60	-	-	-	-	-	8.68	8.67	8.70	-
65	-	-	-	-	-	-	9.80	9.83	-

Mass flow in kg/h

30	132	153	183	221	268	321	381	447	-
35	129	150	181	219	265	318	376	440	-
40	-	145	177	216	262	315	373	435	-
45	-	-	171	211	258	311	369	431	-
50	-	-	-	204	252	306	365	427	-
55	-	-	-	-	243	299	359	422	-
60	-	-	-	-	-	289	351	416	-
65	-	-	-	-	-	-	340	406	-

Coefficient of performance (C.O.P.)

30	2.08	2.41	2.90	3.56	4.39	5.41	6.67	8.23	-
35	1.72	2.02	2.47	3.04	3.74	4.58	5.57	6.76	-
40	-	1.67	2.07	2.58	3.19	3.90	4.71	5.65	-
45	-	-	1.70	2.16	2.70	3.31	4.00	4.76	-
50	-	-	-	1.77	2.25	2.78	3.37	4.02	-
55	-	-	-	-	1.83	2.31	2.82	3.37	-
60	-	-	-	-	-	1.87	2.33	2.80	-
65	-	-	-	-	-	-	1.88	2.29	-

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

Cooling capacity	15 331	W
Power input	4 543	W
Current consumption	6.86	A
Mass flow	365	kg/h
C.O.P.	3.37	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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 = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions
R22

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

Cooling capacity in W

30	6 459	7 536	9 122	11 184	13 689	16 604	19 895	23 529	-
35	-	7 145	8 693	10 686	13 091	15 875	19 005	22 447	-
40	-	-	8 202	10 153	12 485	15 165	18 160	21 436	-
45	-	-	7 614	9 549	11 834	14 437	17 324	20 462	-
50	-	-	-	8 838	11 104	13 656	16 462	19 487	-
55	-	-	-	-	10 258	12 787	15 537	18 477	-
60	-	-	-	-	-	11 792	14 515	17 396	-
65	-	-	-	-	-	-	13 359	16 207	-

Power input in W

30	2 931	2 952	2 966	2 966	2 946	2 900	2 822	2 706	-
35	-	3 315	3 314	3 310	3 296	3 266	3 214	3 134	-
40	-	-	3 707	3 690	3 674	3 653	3 619	3 567	-
45	-	-	4 163	4 126	4 101	4 079	4 056	4 024	-
50	-	-	-	4 637	4 593	4 564	4 543	4 524	-
55	-	-	-	-	5 171	5 126	5 100	5 085	-
60	-	-	-	-	-	5 784	5 744	5 727	-
65	-	-	-	-	-	-	6 495	6 467	-

Current consumption in A

30	4.68	4.77	4.83	4.87	4.88	4.88	4.87	4.85	-
35	-	5.11	5.15	5.18	5.19	5.18	5.18	5.17	-
40	-	-	5.61	5.62	5.62	5.61	5.61	5.61	-
45	-	-	6.20	6.19	6.18	6.17	6.17	6.18	-
50	-	-	-	6.90	6.88	6.86	6.86	6.88	-
55	-	-	-	-	7.72	7.70	7.70	7.72	-
60	-	-	-	-	-	8.68	8.67	8.70	-
65	-	-	-	-	-	-	9.80	9.83	-

Mass flow in kg/h

30	131	152	182	220	266	320	379	444	-
35	-	149	180	218	264	316	374	438	-
40	-	-	176	215	261	313	370	433	-
45	-	-	170	210	257	309	367	429	-
50	-	-	-	203	251	304	363	425	-
55	-	-	-	-	242	297	357	420	-
60	-	-	-	-	-	287	349	413	-
65	-	-	-	-	-	-	338	404	-

Coefficient of performance (C.O.P.)

30	2.20	2.55	3.08	3.77	4.65	5.73	7.05	8.70	-
35	-	2.16	2.62	3.23	3.97	4.86	5.91	7.16	-
40	-	-	2.21	2.75	3.40	4.15	5.02	6.01	-
45	-	-	1.83	2.31	2.89	3.54	4.27	5.08	-
50	-	-	-	1.91	2.42	2.99	3.62	4.31	-
55	-	-	-	-	1.98	2.49	3.05	3.63	-
60	-	-	-	-	-	2.04	2.53	3.04	-
65	-	-	-	-	-	-	2.06	2.51	-

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

Cooling capacity	16 928	W
Power input	5 021	W
Current consumption	7.60	A
Mass flow	385	kg/h
C.O.P.	3.37	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With acoustic hood	69	dB(A)

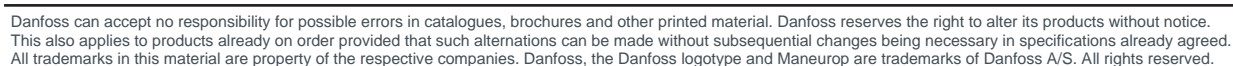
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

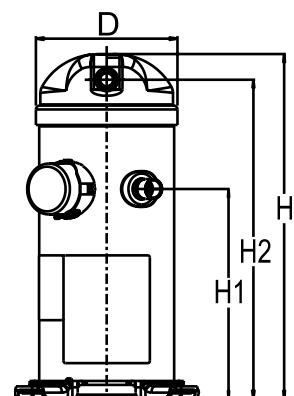
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General Characteristics

Model number (on compressor nameplate)		HRM058U4LP6
Code number for Singlepack*		120U1711
Code number for Industrial pack**		120U1708
Drawing number		0XR6002B-2
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		78.17 cm ³ /rev
Displacement @ Nominal speed		13.6 m ³ /h @ 2900 rpm - 16.4 m ³ /h @ 3500 rpm
Net weight		37.19 kg
Oil charge		1.57 litre, Alkylbenzene - -
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		R22

Dimensions

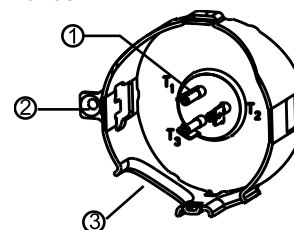


D=183.5 mm
H=455 mm
H1=280 mm
H2=422 mm
H3=- mm

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: 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

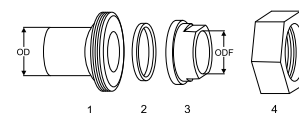
**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side
Code no.

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.
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
R22

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

Cooling capacity in W

30	5 131	5 990	7 256	8 903	10 906	13 237	15 870	18 780	-
35	4 813	5 663	6 895	8 483	10 401	12 623	15 122	17 873	-
40	-	5 267	6 486	8 036	9 890	12 024	14 410	17 022	-
45	-	-	6 000	7 532	9 344	11 410	13 703	16 199	-
50	-	-	-	6 944	8 733	10 752	12 973	15 372	-
55	-	-	-	-	8 030	10 021	12 190	14 512	-
60	-	-	-	-	-	9 189	11 325	13 590	-
65	-	-	-	-	-	-	10 350	12 576	-

Power input in W

30	2 464	2 481	2 493	2 493	2 477	2 438	2 372	2 274	-
35	2 794	2 790	2 789	2 785	2 774	2 749	2 705	2 637	-
40	-	3 145	3 124	3 110	3 097	3 079	3 050	3 006	-
45	-	-	3 515	3 484	3 462	3 444	3 424	3 397	-
50	-	-	-	3 921	3 884	3 859	3 842	3 826	-
55	-	-	-	-	4 380	4 342	4 320	4 308	-
60	-	-	-	-	-	4 907	4 874	4 859	-
65	-	-	-	-	-	-	5 520	5 496	-

Current consumption in A

30	4.51	4.59	4.65	4.69	4.70	4.70	4.69	4.67	-
35	4.86	4.92	4.96	4.99	4.99	4.99	4.99	4.98	-
40	-	5.38	5.40	5.41	5.41	5.40	5.40	5.40	-
45	-	-	5.97	5.96	5.95	5.94	5.94	5.95	-
50	-	-	-	6.65	6.62	6.61	6.61	6.63	-
55	-	-	-	-	7.43	7.41	7.41	7.43	-
60	-	-	-	-	-	8.36	8.35	8.38	-
65	-	-	-	-	-	-	9.44	9.46	-

Mass flow in kg/h

30	111	129	154	187	226	271	322	377	-
35	109	127	152	185	224	268	318	371	-
40	-	123	149	182	221	266	315	368	-
45	-	-	144	178	218	263	312	364	-
50	-	-	-	172	213	259	309	361	-
55	-	-	-	-	206	253	304	358	-
60	-	-	-	-	-	245	297	352	-
65	-	-	-	-	-	-	288	345	-

Coefficient of performance (C.O.P.)

30	2.08	2.41	2.91	3.57	4.40	5.43	6.69	8.26	-
35	1.72	2.03	2.47	3.05	3.75	4.59	5.59	6.78	-
40	-	1.68	2.08	2.58	3.19	3.91	4.72	5.66	-
45	-	-	1.71	2.16	2.70	3.31	4.00	4.77	-
50	-	-	-	1.77	2.25	2.79	3.38	4.02	-
55	-	-	-	-	1.83	2.31	2.82	3.37	-
60	-	-	-	-	-	1.87	2.32	2.80	-
65	-	-	-	-	-	-	1.88	2.29	-

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

Cooling capacity	12 973	W
Power input	3 842	W
Current consumption	6.61	A
Mass flow	309	kg/h
C.O.P.	3.38	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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
R22

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

Cooling capacity in W

30	5 449	6 356	7 694	9 434	11 547	14 005	16 780	19 843	-
35	-	6 031	7 336	9 019	11 049	13 399	16 040	18 944	-
40	-	-	6 928	8 575	10 545	12 809	15 339	18 106	-
45	-	-	6 437	8 072	10 005	12 205	14 646	17 298	-
50	-	-	-	7 479	9 396	11 556	13 930	16 490	-
55	-	-	-	-	8 688	10 830	13 160	15 651	-
60	-	-	-	-	-	9 996	12 305	14 749	-
65	-	-	-	-	-	-	11 334	13 753	-

Power input in W

30	2 464	2 481	2 493	2 493	2 477	2 438	2 372	2 274	-
35	-	2 790	2 789	2 785	2 774	2 749	2 705	2 637	-
40	-	-	3 124	3 110	3 097	3 079	3 050	3 006	-
45	-	-	3 515	3 484	3 462	3 444	3 424	3 397	-
50	-	-	-	3 921	3 884	3 859	3 842	3 826	-
55	-	-	-	-	4 380	4 342	4 320	4 308	-
60	-	-	-	-	-	4 907	4 874	4 859	-
65	-	-	-	-	-	-	5 520	5 496	-

Current consumption in A

30	4.51	4.59	4.65	4.69	4.70	4.70	4.69	4.67	-
35	-	4.92	4.96	4.99	4.99	4.99	4.99	4.98	-
40	-	-	5.40	5.41	5.41	5.40	5.40	5.40	-
45	-	-	5.97	5.96	5.95	5.94	5.94	5.95	-
50	-	-	-	6.65	6.62	6.61	6.61	6.63	-
55	-	-	-	-	7.43	7.41	7.41	7.43	-
60	-	-	-	-	-	8.36	8.35	8.38	-
65	-	-	-	-	-	-	9.44	9.46	-

Mass flow in kg/h

30	111	128	153	186	225	270	320	375	-
35	-	126	152	184	223	267	316	369	-
40	-	-	149	181	220	264	313	365	-
45	-	-	144	178	217	261	310	362	-
50	-	-	-	171	212	258	307	359	-
55	-	-	-	-	205	252	302	356	-
60	-	-	-	-	-	244	296	350	-
65	-	-	-	-	-	-	286	343	-

Coefficient of performance (C.O.P.)

30	2.21	2.56	3.09	3.78	4.66	5.74	7.07	8.73	-
35	-	2.16	2.63	3.24	3.98	4.87	5.93	7.18	-
40	-	-	2.22	2.76	3.41	4.16	5.03	6.02	-
45	-	-	1.83	2.32	2.89	3.54	4.28	5.09	-
50	-	-	-	1.91	2.42	2.99	3.63	4.31	-
55	-	-	-	-	1.98	2.49	3.05	3.63	-
60	-	-	-	-	-	2.04	2.52	3.04	-
65	-	-	-	-	-	-	2.05	2.50	-

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

Cooling capacity	14 337	W
Power input	4 253	W
Current consumption	7.31	A
Mass flow	326	kg/h
C.O.P.	3.37	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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
R22

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

Cooling capacity in W

30	6 082	7 101	8 602	10 555	12 929	15 693	18 816	22 268	-
35	5 701	6 709	8 170	10 051	12 324	14 956	17 918	21 178	-
40	-	6 235	7 679	9 514	11 709	14 235	17 060	20 154	-
45	-	-	7 097	8 910	11 053	13 496	16 209	19 161	-
50	-	-	-	8 206	10 321	12 706	15 331	18 166	-
55	-	-	-	-	9 481	11 831	14 392	17 133	-
60	-	-	-	-	-	10 840	13 359	16 029	-
65	-	-	-	-	-	-	12 199	14 820	-

Power input in W

30	2 931	2 952	2 966	2 966	2 946	2 900	2 822	2 706	-
35	3 318	3 315	3 314	3 310	3 296	3 266	3 214	3 134	-
40	-	3 730	3 707	3 690	3 674	3 653	3 619	3 567	-
45	-	-	4 163	4 126	4 101	4 079	4 056	4 024	-
50	-	-	-	4 637	4 593	4 564	4 543	4 524	-
55	-	-	-	-	5 171	5 126	5 100	5 085	-
60	-	-	-	-	-	5 784	5 744	5 727	-
65	-	-	-	-	-	-	6 495	6 467	-

Current consumption in A

30	4.68	4.77	4.83	4.87	4.88	4.88	4.87	4.85	-
35	5.05	5.11	5.15	5.18	5.19	5.18	5.18	5.17	-
40	-	5.59	5.61	5.62	5.62	5.61	5.61	5.61	-
45	-	-	6.20	6.19	6.18	6.17	6.17	6.18	-
50	-	-	-	6.90	6.88	6.86	6.86	6.88	-
55	-	-	-	-	7.72	7.70	7.70	7.72	-
60	-	-	-	-	-	8.68	8.67	8.70	-
65	-	-	-	-	-	-	9.80	9.83	-

Mass flow in kg/h

30	132	153	183	221	268	321	381	447	-
35	129	150	181	219	265	318	376	440	-
40	-	145	177	216	262	315	373	435	-
45	-	-	171	211	258	311	369	431	-
50	-	-	-	204	252	306	365	427	-
55	-	-	-	-	243	299	359	422	-
60	-	-	-	-	-	289	351	416	-
65	-	-	-	-	-	-	340	406	-

Coefficient of performance (C.O.P.)

30	2.08	2.41	2.90	3.56	4.39	5.41	6.67	8.23	-
35	1.72	2.02	2.47	3.04	3.74	4.58	5.57	6.76	-
40	-	1.67	2.07	2.58	3.19	3.90	4.71	5.65	-
45	-	-	1.70	2.16	2.70	3.31	4.00	4.76	-
50	-	-	-	1.77	2.25	2.78	3.37	4.02	-
55	-	-	-	-	1.83	2.31	2.82	3.37	-
60	-	-	-	-	-	1.87	2.33	2.80	-
65	-	-	-	-	-	-	1.88	2.29	-

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

Cooling capacity	15 331	W
Power input	4 543	W
Current consumption	6.86	A
Mass flow	365	kg/h
C.O.P.	3.37	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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 = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions
R22

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

Cooling capacity in W

30	6 459	7 536	9 122	11 184	13 689	16 604	19 895	23 529	-
35	-	7 145	8 693	10 686	13 091	15 875	19 005	22 447	-
40	-	-	8 202	10 153	12 485	15 165	18 160	21 436	-
45	-	-	7 614	9 549	11 834	14 437	17 324	20 462	-
50	-	-	-	8 838	11 104	13 656	16 462	19 487	-
55	-	-	-	-	10 258	12 787	15 537	18 477	-
60	-	-	-	-	-	11 792	14 515	17 396	-
65	-	-	-	-	-	-	13 359	16 207	-

Power input in W

30	2 931	2 952	2 966	2 966	2 946	2 900	2 822	2 706	-
35	-	3 315	3 314	3 310	3 296	3 266	3 214	3 134	-
40	-	-	3 707	3 690	3 674	3 653	3 619	3 567	-
45	-	-	4 163	4 126	4 101	4 079	4 056	4 024	-
50	-	-	-	4 637	4 593	4 564	4 543	4 524	-
55	-	-	-	-	5 171	5 126	5 100	5 085	-
60	-	-	-	-	-	5 784	5 744	5 727	-
65	-	-	-	-	-	-	6 495	6 467	-

Current consumption in A

30	4.68	4.77	4.83	4.87	4.88	4.88	4.87	4.85	-
35	-	5.11	5.15	5.18	5.19	5.18	5.18	5.17	-
40	-	-	5.61	5.62	5.62	5.61	5.61	5.61	-
45	-	-	6.20	6.19	6.18	6.17	6.17	6.18	-
50	-	-	-	6.90	6.88	6.86	6.86	6.88	-
55	-	-	-	-	7.72	7.70	7.70	7.72	-
60	-	-	-	-	-	8.68	8.67	8.70	-
65	-	-	-	-	-	-	9.80	9.83	-

Mass flow in kg/h

30	131	152	182	220	266	320	379	444	-
35	-	149	180	218	264	316	374	438	-
40	-	-	176	215	261	313	370	433	-
45	-	-	170	210	257	309	367	429	-
50	-	-	-	203	251	304	363	425	-
55	-	-	-	-	242	297	357	420	-
60	-	-	-	-	-	287	349	413	-
65	-	-	-	-	-	-	338	404	-

Coefficient of performance (C.O.P.)

30	2.20	2.55	3.08	3.77	4.65	5.73	7.05	8.70	-
35	-	2.16	2.62	3.23	3.97	4.86	5.91	7.16	-
40	-	-	2.21	2.75	3.40	4.15	5.02	6.01	-
45	-	-	1.83	2.31	2.89	3.54	4.27	5.08	-
50	-	-	-	1.91	2.42	2.99	3.62	4.31	-
55	-	-	-	-	1.98	2.49	3.05	3.63	-
60	-	-	-	-	-	2.04	2.53	3.04	-
65	-	-	-	-	-	-	2.06	2.51	-

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

Cooling capacity	16 928	W
Power input	5 021	W
Current consumption	7.60	A
Mass flow	385	kg/h
C.O.P.	3.37	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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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