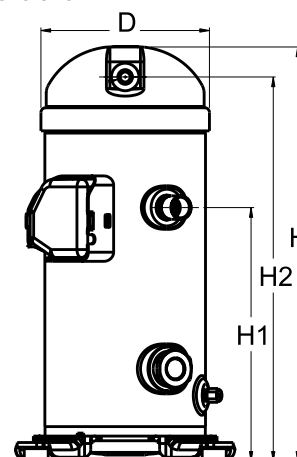


General Characteristics

Model number (on compressor nameplate)		MLZ030T4LC9A
Code number for Singlepack*		121L8641
Code number for Industrial pack**		121L8640
Drawing number		0XR6025B-2
Suction and discharge connections		Brazed
Suction connection		7/8" ODF
Discharge connection		1/2" ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		32 bar
Swept volume		68.79 cm ³ /rev
Displacement @ Nominal speed		12.0 m ³ /h @ 2900 rpm - 14.4 m ³ /h @ 3500 rpm
Net weight		41 kg
Oil charge		1.57 litre, POE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		5.44 kg
Approved refrigerants		R404A, R134a, R407A, R407F, R448A, R449A

Dimensions

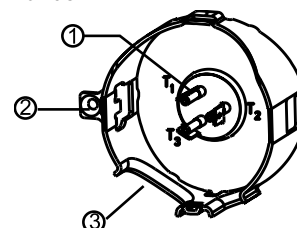


D=184 mm
H=455 mm
H1=280 mm
H2=422 mm
H3=- mm

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	2.6 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	2.611 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	2.649 Ω
Rated Load Amps (RLA)	8.3 A
Maximum Continuous Current (MCC)	13 A
Locked Rotor Amps (LRA)	60 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, -, -

*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

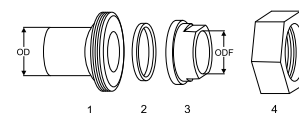
**Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

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, 215PZ, 1 litre can	120Z0648
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Crankcase heaters
Code no.

Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012

Miscellaneous accessories
Code no.

Acoustic hood	120Z5084
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
Terminal box cover	120Z5015

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R404A

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

Cooling capacity in W

10	4 945	6 061	7 408	9 010	10 890	-	-	-	-
20	4 399	5 451	6 705	8 183	9 909	11 906	14 197	-	-
30	3 837	4 809	5 951	7 289	8 843	10 638	12 697	15 043	17 699
40	-	4 127	5 142	6 321	7 687	9 264	11 073	13 140	15 486
50	-	-	4 273	5 276	6 437	7 777	9 320	11 090	13 109
60	-	-	-	-	5 086	6 174	7 434	8 889	10 564

Power input in W

10	1 470	1 496	1 519	1 539	1 558	-	-	-	-
20	1 831	1 861	1 887	1 909	1 928	1 945	1 962	-	-
30	2 303	2 332	2 356	2 375	2 391	2 404	2 416	2 427	2 438
40	-	2 953	2 970	2 982	2 990	2 995	2 997	2 998	2 998
50	-	-	3 771	3 771	3 767	3 758	3 747	3 733	3 717
60	-	-	-	-	4 764	4 738	4 708	4 675	4 640

Current consumption in A

10	4.10	4.09	4.09	4.10	4.10	-	-	-	-
20	4.36	4.37	4.40	4.43	4.46	4.49	4.49	-	-
30	4.79	4.80	4.83	4.87	4.92	4.95	4.97	4.97	4.94
40	-	5.50	5.51	5.54	5.58	5.61	5.62	5.62	5.59
50	-	-	6.55	6.55	6.56	6.56	6.56	6.53	6.48
60	-	-	-	-	7.98	7.94	7.89	7.83	7.74

Mass flow in kg/h

10	99	123	151	185	224	-	-	-	-
20	96	121	149	183	222	270	325	-	-
30	93	117	146	179	219	267	323	388	465
40	-	113	141	175	215	262	318	384	461
50	-	-	135	169	208	256	312	378	455
60	-	-	-	-	200	247	303	369	446

Coefficient of performance (C.O.P.)

10	3.36	4.05	4.88	5.85	6.99	-	-	-	-
20	2.40	2.93	3.55	4.29	5.14	6.12	7.24	-	-
30	1.67	2.06	2.53	3.07	3.70	4.42	5.26	6.20	7.26
40	-	1.40	1.73	2.12	2.57	3.09	3.70	4.38	5.17
50	-	-	1.13	1.40	1.71	2.07	2.49	2.97	3.53
60	-	-	-	-	1.07	1.30	1.58	1.90	2.28

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 074	W
Power input	3 353	W
Current consumption	6.02	A
Mass flow	212	kg/h
C.O.P.	2.11	


Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R404A

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

Cooling capacity in W

10	4 752	5 865	7 218	8 837	10 744	-	-	-	-
20	4 137	5 177	6 428	7 917	9 670	11 711	14 062	-	-
30	3 509	4 457	5 589	6 931	8 510	10 354	12 486	14 930	17 699
40	2 866	3 703	4 696	5 873	7 261	8 890	10 786	12 977	15 486
50	-	-	3 748	4 741	5 920	7 314	8 956	10 877	13 109
60	-	-	-	-	4 476	5 617	6 985	8 620	10 564

Power input in W

10	1 470	1 496	1 519	1 539	1 558	-	-	-	-
20	1 831	1 861	1 887	1 909	1 928	1 945	1 962	-	-
30	2 303	2 332	2 356	2 375	2 391	2 404	2 416	2 427	2 438
40	2 929	2 953	2 970	2 982	2 990	2 995	2 997	2 998	2 998
50	-	-	3 771	3 771	3 767	3 758	3 747	3 733	3 717
60	-	-	-	-	4 764	4 738	4 708	4 675	4 640

Current consumption in A

10	4.10	4.09	4.09	4.10	4.10	-	-	-	-
20	4.36	4.37	4.40	4.43	4.46	4.49	4.49	-	-
30	4.79	4.80	4.83	4.87	4.92	4.95	4.97	4.97	4.94
40	5.50	5.50	5.51	5.54	5.58	5.61	5.62	5.62	5.59
50	-	-	6.55	6.55	6.56	6.56	6.56	6.53	6.48
60	-	-	-	-	7.98	7.94	7.89	7.83	7.74

Mass flow in kg/h

10	118	144	174	208	247	-	-	-	-
20	115	141	171	206	245	291	344	-	-
30	111	137	167	202	242	288	341	400	465
40	106	132	162	197	237	283	336	395	461
50	-	-	155	190	230	276	329	389	455
60	-	-	-	-	221	267	320	380	446

Coefficient of performance (C.O.P.)

10	3.23	3.92	4.75	5.74	6.90	-	-	-	-
20	2.26	2.78	3.41	4.15	5.02	6.02	7.17	-	-
30	1.52	1.91	2.37	2.92	3.56	4.31	5.17	6.15	7.26
40	0.98	1.25	1.58	1.97	2.43	2.97	3.60	4.33	5.17
50	-	-	0.99	1.26	1.57	1.95	2.39	2.91	3.53
60	-	-	-	-	0.94	1.19	1.48	1.84	2.28

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 602	W
Power input	3 353	W
Current consumption	6.02	A
Mass flow	234	kg/h
C.O.P.	1.97	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R404A

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

Cooling capacity in W

10	5 801	7 250	8 974	10 986	13 301	-	-	-	-
20	5 255	6 560	8 111	9 923	12 010	14 385	17 063	-	-
30	4 690	5 844	7 215	8 820	10 671	12 783	15 171	17 846	20 822
40	-	5 069	6 254	7 644	9 253	11 095	13 185	15 536	18 161
50	-	-	5 195	6 363	7 723	9 289	11 074	13 094	15 362
60	-	-	-	-	6 050	7 332	8 807	10 490	12 396

Power input in W

10	1 725	1 760	1 793	1 816	1 820	-	-	-	-
20	2 175	2 205	2 241	2 276	2 301	2 306	2 284	-	-
30	2 736	2 747	2 774	2 808	2 840	2 862	2 864	2 840	2 780
40	-	3 451	3 455	3 474	3 500	3 525	3 539	3 534	3 503
50	-	-	4 347	4 339	4 345	4 359	4 371	4 373	4 357
60	-	-	-	-	5 438	5 428	5 424	5 420	5 405

Current consumption in A

10	2.71	2.76	2.81	2.85	2.85	-	-	-	-
20	3.41	3.46	3.52	3.57	3.61	3.62	3.58	-	-
30	4.29	4.31	4.35	4.41	4.46	4.49	4.49	4.46	4.36
40	-	5.41	5.42	5.45	5.49	5.53	5.55	5.55	5.50
50	-	-	6.82	6.81	6.82	6.84	6.86	6.86	6.83
60	-	-	-	-	8.53	8.52	8.51	8.50	8.48

Mass flow in kg/h

10	104	138	177	222	273	-	-	-	-
20	111	143	180	222	271	328	394	-	-
30	113	143	178	219	267	322	387	462	548
40	-	139	173	213	260	315	379	454	540
50	-	-	165	205	251	306	370	445	531
60	-	-	-	-	241	296	361	436	524

Coefficient of performance (C.O.P.)

10	3.36	4.12	5.00	6.05	7.31	-	-	-	-
20	2.42	2.98	3.62	4.36	5.22	6.24	7.47	-	-
30	1.71	2.13	2.60	3.14	3.76	4.47	5.30	6.28	7.49
40	-	1.47	1.81	2.20	2.64	3.15	3.73	4.40	5.19
50	-	-	1.19	1.47	1.78	2.13	2.53	2.99	3.53
60	-	-	-	-	1.11	1.35	1.62	1.94	2.29

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	8 504	W
Power input	3 896	W
Current consumption	6.11	A
Mass flow	256	kg/h
C.O.P.	2.18	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	73	dB(A)
With acoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K
R404A

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

Cooling capacity in W

10	5 574	7 016	8 744	10 774	13 123	-	-	-	-
20	4 942	6 230	7 777	9 601	11 720	14 150	16 900	-	-
30	4 290	5 417	6 776	8 387	10 270	12 442	14 919	17 712	20 822
40	3 588	4 547	5 711	7 102	8 740	10 647	12 843	15 344	18 161
50	-	-	4 557	5 718	7 103	8 735	10 641	12 843	15 362
60	-	-	-	-	5 324	6 671	8 276	10 172	12 396

Power input in W

10	1 725	1 760	1 793	1 816	1 820	-	-	-	-
20	2 175	2 205	2 241	2 276	2 301	2 306	2 284	-	-
30	2 736	2 747	2 774	2 808	2 840	2 862	2 864	2 840	2 780
40	3 472	3 451	3 455	3 474	3 500	3 525	3 539	3 534	3 503
50	-	-	4 347	4 339	4 345	4 359	4 371	4 373	4 357
60	-	-	-	-	5 438	5 428	5 424	5 420	5 405

Current consumption in A

10	2.71	2.76	2.81	2.85	2.85	-	-	-	-
20	3.41	3.46	3.52	3.57	3.61	3.62	3.58	-	-
30	4.29	4.31	4.35	4.41	4.46	4.49	4.49	4.46	4.36
40	5.45	5.41	5.42	5.45	5.49	5.53	5.55	5.55	5.50
50	-	-	6.82	6.81	6.82	6.84	6.86	6.86	6.83
60	-	-	-	-	8.53	8.52	8.51	8.50	8.48

Mass flow in kg/h

10	124	162	204	250	301	-	-	-	-
20	132	167	207	250	299	354	416	-	-
30	134	167	205	247	295	348	409	475	548
40	131	163	199	240	287	340	401	467	540
50	-	-	190	230	277	331	391	458	531
60	-	-	-	-	266	320	381	449	524

Coefficient of performance (C.O.P.)

10	3.23	3.99	4.88	5.93	7.21	-	-	-	-
20	2.27	2.83	3.47	4.22	5.09	6.14	7.40	-	-
30	1.57	1.97	2.44	2.99	3.62	4.35	5.21	6.24	7.49
40	1.03	1.32	1.65	2.04	2.50	3.02	3.63	4.34	5.19
50	-	-	1.05	1.32	1.63	2.00	2.43	2.94	3.53
60	-	-	-	-	0.98	1.23	1.53	1.88	2.29

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 937	W
Power input	3 896	W
Current consumption	6.11	A
Mass flow	282	kg/h
C.O.P.	2.04	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	73	dB(A)
With acoustic hood	65	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R134a

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

Cooling capacity in W

22	4 101	5 183	6 469	7 977	9 727	-	-	-	-
30	3 774	4 788	5 999	7 423	9 080	10 988	-	-	-
40	3 365	4 282	5 385	6 691	8 220	9 988	12 015	-	-
50	-	3 762	4 742	5 916	7 302	8 917	10 780	-	-
60	-	-	4 072	5 099	6 327	7 774	9 459	-	-
70	-	-	-	4 240	5 296	6 561	8 053	-	-
73	-	-	-	3 974	4 976	6 183	7 614	-	-

Power input in W

22	1 179	1 196	1 209	1 223	1 242	-	-	-	-
30	1 396	1 417	1 432	1 446	1 462	1 484	-	-	-
40	1 711	1 741	1 763	1 780	1 797	1 817	1 844	-	-
50	-	2 130	2 164	2 189	2 211	2 234	2 260	-	-
60	-	-	2 647	2 685	2 717	2 747	2 777	-	-
70	-	-	-	3 282	3 328	3 369	3 408	-	-
73	-	-	-	3 482	3 534	3 579	3 622	-	-

Current consumption in A

22	2.99	2.99	2.99	3.00	3.02	-	-	-	-
30	3.45	3.47	3.49	3.50	3.53	3.60	-	-	-
40	4.02	4.05	4.07	4.08	4.11	4.16	4.25	-	-
50	-	4.88	4.88	4.87	4.87	4.89	4.95	-	-
60	-	-	6.20	6.16	6.11	6.09	6.09	-	-
70	-	-	-	8.23	8.13	8.04	7.97	-	-
73	-	-	-	9.05	8.93	8.81	8.72	-	-

Mass flow in kg/h

22	88	109	134	162	194	-	-	-	-
30	87	108	133	162	194	230	-	-	-
40	86	107	131	160	193	230	271	-	-
50	-	105	129	157	190	227	269	-	-
60	-	-	126	154	186	223	265	-	-
70	-	-	-	149	181	218	259	-	-
73	-	-	-	148	179	216	257	-	-

Coefficient of performance (C.O.P.)

22	3.48	4.33	5.35	6.52	7.83	-	-	-	-
30	2.70	3.38	4.19	5.13	6.21	7.40	-	-	-
40	1.97	2.46	3.05	3.76	4.57	5.50	6.52	-	-
50	-	1.77	2.19	2.70	3.30	3.99	4.77	-	-
60	-	-	1.54	1.90	2.33	2.83	3.41	-	-
70	-	-	-	1.29	1.59	1.95	2.36	-	-
73	-	-	-	1.14	1.41	1.73	2.10	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 024	W
Power input	1 927	W
Current consumption	4.42	A
Mass flow	106	kg/h
C.O.P.	2.09	

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R134a

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

Cooling capacity in W

22	4 166	5 243	6 519	8 012	9 743	-	-	-	-
30	-	4 877	6 076	7 481	9 111	10 988	-	-	-
40	-	-	5 496	6 777	8 269	9 988	11 959	-	-
50	-	-	4 887	6 031	7 369	8 917	10 694	-	-
60	-	-	-	5 241	6 412	7 774	-	-	-
70	-	-	-	-	5 398	6 561	-	-	-
73	-	-	-	-	5 083	6 183	-	-	-

Power input in W

22	1 179	1 196	1 209	1 223	1 242	-	-	-	-
30	-	1 417	1 432	1 446	1 462	1 484	-	-	-
40	-	-	1 763	1 780	1 797	1 817	1 844	-	-
50	-	-	2 164	2 189	2 211	2 234	2 260	-	-
60	-	-	-	2 685	2 717	2 747	-	-	-
70	-	-	-	-	3 328	3 369	-	-	-
73	-	-	-	-	3 534	3 579	-	-	-

Current consumption in A

22	2.99	2.99	2.99	3.00	3.02	-	-	-	-
30	-	3.47	3.49	3.50	3.53	3.60	-	-	-
40	-	-	4.07	4.08	4.11	4.16	4.25	-	-
50	-	-	4.88	4.87	4.87	4.89	4.95	-	-
60	-	-	-	6.16	6.11	6.09	-	-	-
70	-	-	-	-	8.13	8.04	-	-	-
73	-	-	-	-	8.93	8.81	-	-	-

Mass flow in kg/h

22	79	100	126	155	190	-	-	-	-
30	-	100	125	154	190	230	-	-	-
40	-	-	123	153	188	230	278	-	-
50	-	-	121	150	186	227	276	-	-
60	-	-	-	147	182	223	-	-	-
70	-	-	-	-	177	218	-	-	-
73	-	-	-	-	175	216	-	-	-

Coefficient of performance (C.O.P.)

22	3.53	4.39	5.39	6.55	7.85	-	-	-	-
30	-	3.44	4.24	5.17	6.23	7.40	-	-	-
40	-	-	3.12	3.81	4.60	5.50	6.49	-	-
50	-	-	2.26	2.75	3.33	3.99	4.73	-	-
60	-	-	-	1.95	2.36	2.83	-	-	-
70	-	-	-	-	1.62	1.95	-	-	-
73	-	-	-	-	1.44	1.73	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K
R134a

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

Cooling capacity in W

22	5 085	6 417	8 001	9 845	11 954	-	-	-	-
30	4 641	5 920	7 438	9 202	11 217	13 491	-	-	-
40	4 076	5 280	6 705	8 359	10 247	12 377	14 755	-	-
50	-	4 592	5 914	7 447	9 197	11 172	13 378	-	-
60	-	-	5 036	6 437	8 039	9 848	11 871	-	-
70	-	-	-	5 303	6 745	8 378	10 206	-	-
73	-	-	-	4 934	6 327	7 904	9 672	-	-

Power input in W

22	1 449	1 483	1 515	1 553	1 603	-	-	-	-
30	1 716	1 754	1 784	1 813	1 849	1 900	-	-	-
40	2 084	2 139	2 178	2 209	2 240	2 278	2 331	-	-
50	-	2 575	2 637	2 684	2 723	2 762	2 808	-	-
60	-	-	3 161	3 237	3 298	3 351	3 404	-	-
70	-	-	-	3 866	3 962	4 044	4 118	-	-
73	-	-	-	4 069	4 179	4 272	4 355	-	-

Current consumption in A

22	2.98	2.99	3.01	3.04	3.07	-	-	-	-
30	3.44	3.46	3.48	3.51	3.53	3.56	-	-	-
40	4.01	4.04	4.07	4.09	4.11	4.13	4.16	-	-
50	-	4.83	4.87	4.90	4.92	4.94	4.96	-	-
60	-	-	6.12	6.16	6.20	6.22	6.24	-	-
70	-	-	-	8.13	8.18	8.21	8.24	-	-
73	-	-	-	8.89	8.95	8.99	9.02	-	-

Mass flow in kg/h

22	109	134	165	200	240	-	-	-	-
30	108	134	165	201	240	283	-	-	-
40	106	132	164	200	240	283	328	-	-
50	-	128	161	198	238	282	327	-	-
60	-	-	155	193	235	279	325	-	-
70	-	-	-	186	229	274	321	-	-
73	-	-	-	184	227	272	320	-	-

Coefficient of performance (C.O.P.)

22	3.51	4.33	5.28	6.34	7.46	-	-	-	-
30	2.70	3.38	4.17	5.08	6.07	7.10	-	-	-
40	1.96	2.47	3.08	3.78	4.57	5.43	6.33	-	-
50	-	1.78	2.24	2.77	3.38	4.04	4.76	-	-
60	-	-	1.59	1.99	2.44	2.94	3.49	-	-
70	-	-	-	1.37	1.70	2.07	2.48	-	-
73	-	-	-	1.21	1.51	1.85	2.22	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 944	W
Power input	2 351	W
Current consumption	4.39	A
Mass flow	130	kg/h
C.O.P.	2.10	

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	73	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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R134a

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

Cooling capacity in W

22	5 166	6 492	8 063	9 887	11 974	-	-	-	-
30	-	6 030	7 534	9 273	11 255	13 491	-	-	-
40	-	-	6 844	8 467	10 308	12 377	14 686	-	-
50	-	-	6 094	7 591	9 282	11 172	13 271	-	-
60	-	-	-	6 617	8 147	9 848	-	-	-
70	-	-	-	-	6 876	8 378	-	-	-
73	-	-	-	-	6 463	7 904	-	-	-

Power input in W

22	1 449	1 483	1 515	1 553	1 603	-	-	-	-
30	-	1 754	1 784	1 813	1 849	1 900	-	-	-
40	-	-	2 178	2 209	2 240	2 278	2 331	-	-
50	-	-	2 637	2 684	2 723	2 762	2 808	-	-
60	-	-	-	3 237	3 298	3 351	-	-	-
70	-	-	-	-	3 962	4 044	-	-	-
73	-	-	-	-	4 179	4 272	-	-	-

Current consumption in A

22	2.98	2.99	3.01	3.04	3.07	-	-	-	-
30	-	3.46	3.48	3.51	3.53	3.56	-	-	-
40	-	-	4.07	4.09	4.11	4.13	4.16	-	-
50	-	-	4.87	4.90	4.92	4.94	4.96	-	-
60	-	-	-	6.16	6.20	6.22	-	-	-
70	-	-	-	-	8.18	8.21	-	-	-
73	-	-	-	-	8.95	8.99	-	-	-

Mass flow in kg/h

22	98	123	154	192	235	-	-	-	-
30	-	123	154	192	235	283	-	-	-
40	-	-	153	191	234	283	337	-	-
50	-	-	150	189	233	282	336	-	-
60	-	-	-	185	229	279	-	-	-
70	-	-	-	-	224	274	-	-	-
73	-	-	-	-	222	272	-	-	-

Coefficient of performance (C.O.P.)

22	3.57	4.38	5.32	6.37	7.47	-	-	-	-
30	-	3.44	4.22	5.11	6.09	7.10	-	-	-
40	-	-	3.14	3.83	4.60	5.43	6.30	-	-
50	-	-	2.31	2.83	3.41	4.04	4.73	-	-
60	-	-	-	2.04	2.47	2.94	-	-	-
70	-	-	-	-	1.74	2.07	-	-	-
73	-	-	-	-	1.55	1.85	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	73	dB(A)
With acoustic hood	65	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions

R407A

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

Cooling capacity in W

10	4 985	6 293	7 883	9 787	-	-	-	-	-
20	4 419	5 598	7 038	8 771	10 828	13 240	-	-	-
30	3 904	4 940	6 216	7 765	9 616	11 802	14 354	17 303	-
40	3 451	4 330	5 428	6 778	8 410	10 356	12 647	15 315	-
45	-	4 045	5 050	6 295	7 812	9 633	11 789	14 310	-
50	-	-	4 684	5 821	7 220	8 912	10 928	13 300	-
55	-	-	-	5 356	6 633	8 193	10 066	12 286	-
60	-	-	-	-	6 054	7 478	9 206	11 268	-

Power input in W

10	1 310	1 336	1 361	1 394	-	-	-	-	-
20	1 629	1 671	1 698	1 720	1 744	1 781	-	-	-
30	1 996	2 072	2 119	2 147	2 164	2 180	2 202	2 240	-
40	2 417	2 543	2 628	2 679	2 706	2 717	2 722	2 729	-
45	-	2 806	2 916	2 985	3 023	3 039	3 042	3 039	-
50	-	-	3 226	3 318	3 372	3 397	3 401	3 394	-
55	-	-	-	3 680	3 753	3 791	3 802	3 794	-
60	-	-	-	-	4 167	4 222	4 244	4 240	-

Current consumption in A

10	2.39	2.40	2.38	2.32	-	-	-	-	-
20	3.38	3.46	3.49	3.49	3.48	3.48	-	-	-
30	4.02	4.15	4.22	4.25	4.27	4.29	4.33	4.41	-
40	4.68	4.83	4.92	4.96	4.98	5.00	5.03	5.09	-
45	-	5.28	5.37	5.41	5.42	5.43	5.44	5.49	-
50	-	-	5.94	5.97	5.97	5.96	5.96	5.99	-
55	-	-	-	6.70	6.68	6.65	6.63	6.63	-
60	-	-	-	-	7.59	7.54	7.48	7.45	-

Mass flow in kg/h

10	97	121	149	183	-	-	-	-	-
20	94	117	145	177	215	259	-	-	-
30	91	113	140	171	209	252	302	359	-
40	90	110	135	166	202	244	294	350	-
45	-	109	134	163	199	241	289	345	-
50	-	-	132	161	196	237	285	340	-
55	-	-	-	159	193	233	281	335	-
60	-	-	-	-	190	230	276	330	-

Coefficient of performance (C.O.P.)

10	3.80	4.71	5.79	7.02	-	-	-	-	-
20	2.71	3.35	4.14	5.10	6.21	7.43	-	-	-
30	1.96	2.38	2.93	3.62	4.44	5.41	6.52	7.72	-
40	1.43	1.70	2.07	2.53	3.11	3.81	4.65	5.61	-
45	-	1.44	1.73	2.11	2.58	3.17	3.88	4.71	-
50	-	-	1.45	1.75	2.14	2.62	3.21	3.92	-
55	-	-	-	1.46	1.77	2.16	2.65	3.24	-
60	-	-	-	-	1.45	1.77	2.17	2.66	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 295	W
Power input	2 985	W
Current consumption	5.41	A
Mass flow	163	kg/h
C.O.P.	2.11	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions
R407A

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

Cooling capacity in W

10	5 294	6 677	8 356	10 365	-	-	-	-	-
20	4 727	5 982	7 513	9 353	11 534	14 090	-	-	-
30	4 216	5 327	6 695	8 352	10 330	12 663	15 384	18 525	-
40	3 773	4 726	5 915	7 373	9 135	11 232	13 697	16 565	-
45	-	4 449	5 543	6 897	8 545	10 519	12 852	15 578	-
50	-	-	5 187	6 433	7 963	9 810	12 008	14 590	-
55	-	-	-	5 984	7 393	9 111	11 171	13 606	-
60	-	-	-	-	-	8 425	10 345	12 633	-

Power input in W

10	1 310	1 336	1 361	1 394	-	-	-	-	-
20	1 629	1 671	1 698	1 720	1 744	1 781	-	-	-
30	1 996	2 072	2 119	2 147	2 164	2 180	2 202	2 240	-
40	2 417	2 543	2 628	2 679	2 706	2 717	2 722	2 729	-
45	-	2 806	2 916	2 985	3 023	3 039	3 042	3 039	-
50	-	-	3 226	3 318	3 372	3 397	3 401	3 394	-
55	-	-	-	3 680	3 753	3 791	3 802	3 794	-
60	-	-	-	-	-	4 222	4 244	4 240	-

Current consumption in A

10	2.39	2.40	2.38	2.32	-	-	-	-	-
20	3.38	3.46	3.49	3.49	3.48	3.48	-	-	-
30	4.02	4.15	4.22	4.25	4.27	4.29	4.33	4.41	-
40	4.68	4.83	4.92	4.96	4.98	5.00	5.03	5.09	-
45	-	5.28	5.37	5.41	5.42	5.43	5.44	5.49	-
50	-	-	5.94	5.97	5.97	5.96	5.96	5.99	-
55	-	-	-	6.70	6.68	6.65	6.63	6.63	-
60	-	-	-	-	-	7.54	7.48	7.45	-

Mass flow in kg/h

10	97	121	149	182	-	-	-	-	-
20	93	116	144	176	214	258	-	-	-
30	91	113	139	170	208	251	300	357	-
40	89	110	135	165	201	243	292	348	-
45	-	109	133	162	198	239	288	343	-
50	-	-	132	160	195	235	283	338	-
55	-	-	-	158	192	232	279	333	-
60	-	-	-	-	-	228	275	328	-

Coefficient of performance (C.O.P.)

10	4.04	5.00	6.14	7.44	-	-	-	-	-
20	2.90	3.58	4.42	5.44	6.61	7.91	-	-	-
30	2.11	2.57	3.16	3.89	4.77	5.81	6.99	8.27	-
40	1.56	1.86	2.25	2.75	3.38	4.13	5.03	6.07	-
45	-	1.59	1.90	2.31	2.83	3.46	4.23	5.13	-
50	-	-	1.61	1.94	2.36	2.89	3.53	4.30	-
55	-	-	-	1.63	1.97	2.40	2.94	3.59	-
60	-	-	-	-	-	2.00	2.44	2.98	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 897	W
Power input	2 985	W
Current consumption	5.41	A
Mass flow	162	kg/h
C.O.P.	2.31	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions
R407A

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

Cooling capacity in W

10	6 137	7 718	9 647	11 963	-	-	-	-	-
20	5 457	6 872	8 617	10 730	13 250	16 212	-	-	-
30	4 859	6 083	7 619	9 505	11 778	14 478	17 640	21 304	-
40	4 362	5 369	6 671	8 305	10 308	12 719	15 575	18 913	-
45	-	5 047	6 222	7 720	9 579	11 836	14 530	17 697	-
50	-	-	5 793	7 149	8 857	10 955	13 479	16 468	-
55	-	-	-	6 595	8 146	10 077	12 426	15 231	-
60	-	-	-	-	7 446	9 205	11 372	13 987	-

Power input in W

10	1 550	1 573	1 606	1 667	-	-	-	-	-
20	1 939	1 979	2 003	2 030	2 080	2 174	-	-	-
30	2 365	2 456	2 505	2 532	2 557	2 599	2 678	2 814	-
40	2 815	2 992	3 100	3 161	3 194	3 218	3 255	3 323	-
45	-	3 277	3 428	3 519	3 569	3 598	3 625	3 672	-
50	-	-	3 775	3 904	3 979	4 021	4 049	4 082	-
55	-	-	-	4 314	4 424	4 487	4 523	4 552	-
60	-	-	-	-	4 900	4 993	5 046	5 080	-

Current consumption in A

10	2.38	2.39	2.41	2.43	-	-	-	-	-
20	3.44	3.46	3.48	3.50	3.53	3.56	-	-	-
30	4.16	4.19	4.22	4.24	4.27	4.29	4.32	4.36	-
40	4.81	4.87	4.91	4.95	4.98	5.01	5.03	5.06	-
45	-	5.28	5.33	5.38	5.42	5.45	5.48	5.50	-
50	-	-	5.85	5.91	5.96	5.99	6.02	6.05	-
55	-	-	-	6.58	6.64	6.68	6.72	6.74	-
60	-	-	-	-	7.49	7.55	7.59	7.62	-

Mass flow in kg/h

10	120	149	183	223	-	-	-	-	-
20	116	144	177	217	263	317	-	-	-
30	113	139	171	210	256	309	371	443	-
40	114	137	166	203	248	300	362	433	-
45	-	137	165	200	244	296	357	427	-
50	-	-	164	198	240	291	351	422	-
55	-	-	-	196	237	287	346	416	-
60	-	-	-	-	234	283	341	410	-

Coefficient of performance (C.O.P.)

10	3.96	4.90	6.01	7.17	-	-	-	-	-
20	2.81	3.47	4.30	5.29	6.37	7.46	-	-	-
30	2.05	2.48	3.04	3.75	4.61	5.57	6.59	7.57	-
40	1.55	1.79	2.15	2.63	3.23	3.95	4.79	5.69	-
45	-	1.54	1.81	2.19	2.68	3.29	4.01	4.82	-
50	-	-	1.53	1.83	2.23	2.72	3.33	4.03	-
55	-	-	-	1.53	1.84	2.25	2.75	3.35	-
60	-	-	-	-	1.52	1.84	2.25	2.75	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 720	W
Power input	3 519	W
Current consumption	5.38	A
Mass flow	200	kg/h
C.O.P.	2.19	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	73	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

Tolerance according EN12900

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Performance data at 60 Hz, ARI rating conditions
R407A

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

Cooling capacity in W

10	6 517	8 188	10 226	12 669	-	-	-	-	-
20	5 839	7 344	9 198	11 442	14 114	17 253	-	-	-
30	5 248	6 560	8 205	10 223	12 653	15 534	18 906	22 808	-
40	4 770	5 861	7 269	9 034	11 196	13 794	16 868	20 457	-
45	-	5 551	6 830	8 459	10 477	12 924	15 840	19 264	-
50	-	-	6 416	7 902	9 770	12 060	14 812	18 065	-
55	-	-	-	7 368	9 079	11 206	13 789	16 868	-
60	-	-	-	-	-	10 370	12 780	15 681	-

Power input in W

10	1 550	1 573	1 606	1 667	-	-	-	-	-
20	1 939	1 979	2 003	2 030	2 080	2 174	-	-	-
30	2 365	2 456	2 505	2 532	2 557	2 599	2 678	2 814	-
40	2 815	2 992	3 100	3 161	3 194	3 218	3 255	3 323	-
45	-	3 277	3 428	3 519	3 569	3 598	3 625	3 672	-
50	-	-	3 775	3 904	3 979	4 021	4 049	4 082	-
55	-	-	-	4 314	4 424	4 487	4 523	4 552	-
60	-	-	-	-	-	4 993	5 046	5 080	-

Current consumption in A

10	2.38	2.39	2.41	2.43	-	-	-	-	-
20	3.44	3.46	3.48	3.50	3.53	3.56	-	-	-
30	4.16	4.19	4.22	4.24	4.27	4.29	4.32	4.36	-
40	4.81	4.87	4.91	4.95	4.98	5.01	5.03	5.06	-
45	-	5.28	5.33	5.38	5.42	5.45	5.48	5.50	-
50	-	-	5.85	5.91	5.96	5.99	6.02	6.05	-
55	-	-	-	6.58	6.64	6.68	6.72	6.74	-
60	-	-	-	-	-	7.55	7.59	7.62	-

Mass flow in kg/h

10	119	148	182	222	-	-	-	-	-
20	115	143	176	216	262	315	-	-	-
30	113	139	170	209	254	308	369	440	-
40	113	136	166	202	246	299	360	430	-
45	-	136	164	199	242	294	355	425	-
50	-	-	163	197	239	289	349	419	-
55	-	-	-	195	236	285	344	413	-
60	-	-	-	-	-	281	339	407	-

Coefficient of performance (C.O.P.)

10	4.20	5.20	6.37	7.60	-	-	-	-	-
20	3.01	3.71	4.59	5.64	6.78	7.94	-	-	-
30	2.22	2.67	3.28	4.04	4.95	5.98	7.06	8.10	-
40	1.69	1.96	2.34	2.86	3.51	4.29	5.18	6.16	-
45	-	1.69	1.99	2.40	2.94	3.59	4.37	5.25	-
50	-	-	1.70	2.02	2.46	3.00	3.66	4.43	-
55	-	-	-	1.71	2.05	2.50	3.05	3.71	-
60	-	-	-	-	-	2.08	2.53	3.09	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	8 459	W
Power input	3 519	W
Current consumption	5.38	A
Mass flow	199	kg/h
C.O.P.	2.40	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	73	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

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions
R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	5 829	6 687	8 347	10 324	-	-	-	-	-
20	5 213	5 992	7 506	9 317	11 459	13 961	-	-	-
30	4 641	5 331	6 682	8 312	10 252	12 534	15 192	18 255	-
40	4 125	4 717	5 889	7 321	9 043	11 089	13 491	16 280	-
45	-	-	5 509	6 835	8 443	10 365	12 632	15 277	-
50	-	-	-	6 358	7 847	9 640	11 770	14 267	-
55	-	-	-	-	7 258	8 919	10 906	13 252	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 396	1 410	1 434	1 471	-	-	-	-	-
20	1 750	1 772	1 796	1 815	1 842	1 889	-	-	-
30	2 166	2 209	2 255	2 278	2 292	2 308	2 340	2 400	-
40	2 645	2 723	2 811	2 860	2 882	2 890	2 895	2 911	-
45	-	-	3 126	3 196	3 230	3 241	3 242	3 244	-
50	-	-	-	3 561	3 613	3 633	3 634	3 628	-
55	-	-	-	-	4 031	4 065	4 072	4 064	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	2.54	2.54	2.50	2.44	-	-	-	-	-
20	3.62	3.66	3.69	3.69	3.68	3.67	-	-	-
30	4.35	4.42	4.49	4.52	4.53	4.54	4.58	4.66	-
40	5.09	5.17	5.26	5.30	5.31	5.32	5.35	5.41	-
45	-	-	5.75	5.79	5.80	5.79	5.81	5.85	-
50	-	-	-	6.41	6.40	6.39	6.38	6.40	-
55	-	-	-	-	7.18	7.14	7.11	7.10	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	102	116	143	175	-	-	-	-	-
20	98	112	139	170	206	248	-	-	-
30	95	109	134	164	200	241	289	343	-
40	94	106	130	159	193	234	281	335	-
45	-	-	128	156	190	230	277	330	-
50	-	-	-	154	187	226	272	325	-
55	-	-	-	-	184	223	268	320	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.18	4.74	5.82	7.02	-	-	-	-	-
20	2.98	3.38	4.18	5.13	6.22	7.39	-	-	-
30	2.14	2.41	2.96	3.65	4.47	5.43	6.49	7.61	-
40	1.56	1.73	2.09	2.56	3.14	3.84	4.66	5.59	-
45	-	-	1.76	2.14	2.61	3.20	3.90	4.71	-
50	-	-	-	1.79	2.17	2.65	3.24	3.93	-
55	-	-	-	-	1.80	2.19	2.68	3.26	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 835	W
Power input	3 196	W
Current consumption	5.79	A
Mass flow	156	kg/h
C.O.P.	2.14	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	6 161	7 064	8 811	10 891	-	-	-	-	-
20	5 543	6 368	7 970	9 885	12 147	14 789	-	-	-
30	4 972	5 708	7 147	8 882	10 944	13 369	16 190	19 439	-
40	-	5 100	6 360	7 896	9 743	11 934	14 504	17 485	-
45	-	-	5 985	7 416	9 149	11 218	13 656	16 497	-
50	-	-	-	6 949	8 563	10 506	12 809	15 508	-
55	-	-	-	-	-	9 804	11 970	14 524	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 396	1 410	1 434	1 471	-	-	-	-	-
20	1 750	1 772	1 796	1 815	1 842	1 889	-	-	-
30	2 166	2 209	2 255	2 278	2 292	2 308	2 340	2 400	-
40	-	2 723	2 811	2 860	2 882	2 890	2 895	2 911	-
45	-	-	3 126	3 196	3 230	3 241	3 242	3 244	-
50	-	-	-	3 561	3 613	3 633	3 634	3 628	-
55	-	-	-	-	-	4 065	4 072	4 064	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	2.54	2.54	2.50	2.44	-	-	-	-	-
20	3.62	3.66	3.69	3.69	3.68	3.67	-	-	-
30	4.35	4.42	4.49	4.52	4.53	4.54	4.58	4.66	-
40	-	5.17	5.26	5.30	5.31	5.32	5.35	5.41	-
45	-	-	5.75	5.79	5.80	5.79	5.81	5.85	-
50	-	-	-	6.41	6.40	6.39	6.38	6.40	-
55	-	-	-	-	-	7.14	7.11	7.10	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	101	115	142	174	-	-	-	-	-
20	98	112	138	169	205	246	-	-	-
30	95	108	133	163	199	240	287	341	-
40	-	105	129	158	192	233	279	332	-
45	-	-	127	156	189	229	275	328	-
50	-	-	-	153	186	225	270	323	-
55	-	-	-	-	-	221	266	318	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.41	5.01	6.14	7.40	-	-	-	-	-
20	3.17	3.59	4.44	5.45	6.60	7.83	-	-	-
30	2.30	2.58	3.17	3.90	4.78	5.79	6.92	8.10	-
40	-	1.87	2.26	2.76	3.38	4.13	5.01	6.01	-
45	-	-	1.91	2.32	2.83	3.46	4.21	5.09	-
50	-	-	-	1.95	2.37	2.89	3.52	4.27	-
55	-	-	-	-	-	2.41	2.94	3.57	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 416	W
Power input	3 196	W
Current consumption	5.79	A
Mass flow	156	kg/h
C.O.P.	2.32	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	69	dB(A)
With acoustic hood	61	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions
R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	7 162	8 202	10 218	12 620	-	-	-	-	-
20	6 417	7 355	9 192	11 403	14 023	17 086	-	-	-
30	5 743	6 562	8 190	10 178	12 562	15 377	18 660	22 445	-
40	5 169	5 849	7 236	8 971	11 088	13 624	16 615	20 095	-
45	-	-	6 787	8 382	10 355	12 740	15 572	18 889	-
50	-	-	-	7 809	9 629	11 855	14 522	17 666	-
55	-	-	-	-	8 914	10 972	13 466	16 431	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 649	1 661	1 690	1 749	-	-	-	-	-
20	2 083	2 102	2 123	2 146	2 195	2 290	-	-	-
30	2 572	2 621	2 668	2 692	2 714	2 755	2 838	2 984	-
40	3 107	3 207	3 317	3 376	3 407	3 430	3 468	3 542	-
45	-	-	3 677	3 768	3 816	3 844	3 873	3 924	-
50	-	-	-	4 190	4 265	4 306	4 335	4 372	-
55	-	-	-	-	4 754	4 817	4 854	4 887	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	2.52	2.52	2.53	2.56	-	-	-	-	-
20	3.67	3.67	3.68	3.70	3.72	3.75	-	-	-
30	4.45	4.46	4.49	4.51	4.53	4.55	4.58	4.61	-
40	5.18	5.21	5.25	5.28	5.31	5.33	5.36	5.38	-
45	-	-	5.72	5.76	5.79	5.82	5.84	5.86	-
50	-	-	-	6.34	6.39	6.42	6.45	6.47	-
55	-	-	-	-	7.13	7.17	7.20	7.23	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	125	142	175	213	-	-	-	-	-
20	121	138	170	208	252	303	-	-	-
30	118	134	164	201	245	296	355	422	-
40	117	131	160	195	237	287	346	413	-
45	-	-	158	192	233	283	341	408	-
50	-	-	-	189	230	278	336	402	-
55	-	-	-	-	227	274	331	397	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.34	4.94	6.05	7.22	-	-	-	-	-
20	3.08	3.50	4.33	5.31	6.39	7.46	-	-	-
30	2.23	2.50	3.07	3.78	4.63	5.58	6.57	7.52	-
40	1.66	1.82	2.18	2.66	3.25	3.97	4.79	5.67	-
45	-	-	1.85	2.22	2.71	3.31	4.02	4.81	-
50	-	-	-	1.86	2.26	2.75	3.35	4.04	-
55	-	-	-	-	1.88	2.28	2.77	3.36	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	8 382	W
Power input	3 768	W
Current consumption	5.76	A
Mass flow	192	kg/h
C.O.P.	2.22	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	73	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

Tolerance according EN12900

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Performance data at 60 Hz, ARI rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	7 569	8 664	10 786	13 313	-	-	-	-	-
20	6 822	7 816	9 761	12 098	14 865	18 100	-	-	-
30	6 153	7 025	8 759	10 875	13 410	16 402	19 886	23 900	-
40	-	6 324	7 814	9 676	11 946	14 662	17 862	21 583	-
45	-	-	7 373	9 095	11 221	13 788	16 835	20 397	-
50	-	-	-	8 534	10 508	12 919	15 805	19 203	-
55	-	-	-	-	-	12 061	14 780	18 008	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 649	1 661	1 690	1 749	-	-	-	-	-
20	2 083	2 102	2 123	2 146	2 195	2 290	-	-	-
30	2 572	2 621	2 668	2 692	2 714	2 755	2 838	2 984	-
40	-	3 207	3 317	3 376	3 407	3 430	3 468	3 542	-
45	-	-	3 677	3 768	3 816	3 844	3 873	3 924	-
50	-	-	-	4 190	4 265	4 306	4 335	4 372	-
55	-	-	-	-	-	4 817	4 854	4 887	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	2.52	2.52	2.53	2.56	-	-	-	-	-
20	3.67	3.67	3.68	3.70	3.72	3.75	-	-	-
30	4.45	4.46	4.49	4.51	4.53	4.55	4.58	4.61	-
40	-	5.21	5.25	5.28	5.31	5.33	5.36	5.38	-
45	-	-	5.72	5.76	5.79	5.82	5.84	5.86	-
50	-	-	-	6.34	6.39	6.42	6.45	6.47	-
55	-	-	-	-	-	7.17	7.20	7.23	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	124	141	174	212	-	-	-	-	-
20	120	137	169	206	251	301	-	-	-
30	117	133	163	200	243	294	353	419	-
40	-	130	159	194	236	286	344	411	-
45	-	-	157	191	232	281	339	405	-
50	-	-	-	188	228	277	334	400	-
55	-	-	-	-	-	272	329	394	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.59	5.22	6.38	7.61	-	-	-	-	-
20	3.28	3.72	4.60	5.64	6.77	7.90	-	-	-
30	2.39	2.68	3.28	4.04	4.94	5.95	7.01	8.01	-
40	-	1.97	2.36	2.87	3.51	4.27	5.15	6.09	-
45	-	-	2.01	2.41	2.94	3.59	4.35	5.20	-
50	-	-	-	2.04	2.46	3.00	3.65	4.39	-
55	-	-	-	-	-	2.50	3.05	3.69	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	9 095	W
Power input	3 768	W
Current consumption	5.76	A
Mass flow	191	kg/h
C.O.P.	2.41	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	73	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

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R448A

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

Cooling capacity in W

10	4 103	5 132	6 362	7 824	9 549	-	-	-	-
20	3 684	4 682	5 859	7 248	8 878	10 780	12 984	-	-
30	-	-	5 253	6 542	8 052	9 812	11 853	14 206	16 900
40	-	-	-	5 733	7 097	8 690	10 543	12 686	15 150
50	-	-	-	-	6 041	7 442	9 081	10 989	13 197
60	-	-	-	-	-	-	7 493	9 141	11 066

Power input in W

10	1 356	1 408	1 456	1 490	1 496	-	-	-	-
20	1 666	1 691	1 736	1 788	1 835	1 864	1 864	-	-
30	-	-	2 154	2 183	2 228	2 278	2 321	2 344	2 335
40	-	-	-	2 786	2 789	2 818	2 863	2 909	2 946
50	-	-	-	-	3 630	3 597	3 602	3 630	3 671
60	-	-	-	-	-	-	4 651	4 620	4 624

Current consumption in A

10	3.89	3.92	3.94	3.95	3.97	-	-	-	-
20	4.14	4.18	4.21	4.24	4.27	4.30	4.33	-	-
30	-	-	4.61	4.64	4.68	4.71	4.75	4.79	4.83
40	-	-	-	5.28	5.30	5.33	5.37	5.40	5.45
50	-	-	-	-	6.29	6.30	6.31	6.33	6.36
60	-	-	-	-	-	-	7.71	7.71	7.71

Mass flow in kg/h

10	67	84	105	130	159	-	-	-	-
20	65	82	104	128	158	193	235	-	-
30	-	-	100	125	155	191	233	283	340
40	-	-	-	120	150	186	228	277	335
50	-	-	-	-	142	177	219	269	326
60	-	-	-	-	-	-	207	256	313

Coefficient of performance (C.O.P.)

10	3.03	3.65	4.37	5.25	6.38	-	-	-	-
20	2.21	2.77	3.37	4.05	4.84	5.78	6.97	-	-
30	-	-	2.44	3.00	3.61	4.31	5.11	6.06	7.24
40	-	-	-	2.06	2.54	3.08	3.68	4.36	5.14
50	-	-	-	-	1.66	2.07	2.52	3.03	3.59
60	-	-	-	-	-	-	1.61	1.98	2.39

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 580	W
Power input	3 167	W
Current consumption	5.74	A
Mass flow	146	kg/h
C.O.P.	2.08	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R448A

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

Cooling capacity in W

10	4 120	5 157	6 398	7 873	9 611	-	-	-	-
20	3 652	4 651	5 835	7 233	8 876	10 792	13 008	-	-
30	3 134	4 069	5 168	6 463	7 985	9 763	11 825	14 198	16 900
40	-	-	4 427	5 593	6 966	8 579	10 463	12 645	15 150
50	-	-	-	4 651	5 849	7 271	8 949	10 914	13 197
60	-	-	-	-	4 664	5 867	7 311	9 033	11 066

Power input in W

10	1 356	1 408	1 456	1 490	1 496	-	-	-	-
20	1 666	1 691	1 736	1 788	1 835	1 864	1 864	-	-
30	2 197	2 155	2 154	2 183	2 228	2 278	2 321	2 344	2 335
40	-	-	2 822	2 786	2 789	2 818	2 863	2 909	2 946
50	-	-	-	3 711	3 630	3 597	3 602	3 630	3 671
60	-	-	-	-	4 864	4 728	4 651	4 620	4 624

Current consumption in A

10	3.89	3.92	3.94	3.95	3.97	-	-	-	-
20	4.14	4.18	4.21	4.24	4.27	4.30	4.33	-	-
30	4.54	4.57	4.61	4.64	4.68	4.71	4.75	4.79	4.83
40	-	-	5.26	5.28	5.30	5.33	5.37	5.40	5.45
50	-	-	-	6.28	6.29	6.30	6.31	6.33	6.36
60	-	-	-	-	7.75	7.73	7.71	7.71	7.71

Mass flow in kg/h

10	79	98	120	145	174	-	-	-	-
20	76	96	118	144	174	208	247	-	-
30	73	92	115	140	170	205	245	290	340
40	-	-	109	135	165	200	240	285	335
50	-	-	-	126	156	191	230	276	326
60	-	-	-	-	144	178	218	263	313

Coefficient of performance (C.O.P.)

10	3.04	3.66	4.39	5.28	6.42	-	-	-	-
20	2.19	2.75	3.36	4.04	4.84	5.79	6.98	-	-
30	1.43	1.89	2.40	2.96	3.58	4.28	5.09	6.06	7.24
40	-	-	1.57	2.01	2.50	3.04	3.65	4.35	5.14
50	-	-	-	1.25	1.61	2.02	2.48	3.01	3.59
60	-	-	-	-	0.96	1.24	1.57	1.96	2.39

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 418	W
Power input	3 167	W
Current consumption	5.74	A
Mass flow	161	kg/h
C.O.P.	2.03	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R449A

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

Cooling capacity in W

10	4 103	5 132	6 362	7 824	9 549	-	-	-	-
20	3 684	4 682	5 859	7 248	8 878	10 780	12 984	-	-
30	-	-	5 253	6 542	8 052	9 812	11 853	14 206	16 900
40	-	-	-	5 733	7 097	8 690	10 543	12 686	15 150
50	-	-	-	-	6 041	7 442	9 081	10 989	13 197
60	-	-	-	-	-	-	7 493	9 141	11 066

Power input in W

10	1 356	1 408	1 456	1 490	1 496	-	-	-	-
20	1 666	1 691	1 736	1 788	1 835	1 864	1 864	-	-
30	-	-	2 154	2 183	2 228	2 278	2 321	2 344	2 335
40	-	-	-	2 786	2 789	2 818	2 863	2 909	2 946
50	-	-	-	-	3 630	3 597	3 602	3 630	3 671
60	-	-	-	-	-	-	4 651	4 620	4 624

Current consumption in A

10	3.89	3.92	3.94	3.95	3.97	-	-	-	-
20	4.14	4.18	4.21	4.24	4.27	4.30	4.33	-	-
30	-	-	4.61	4.64	4.68	4.71	4.75	4.79	4.83
40	-	-	-	5.28	5.30	5.33	5.37	5.40	5.45
50	-	-	-	-	6.29	6.30	6.31	6.33	6.36
60	-	-	-	-	-	-	7.71	7.71	7.71

Mass flow in kg/h

10	67	84	105	130	159	-	-	-	-
20	65	82	104	128	158	193	235	-	-
30	-	-	100	125	155	191	233	283	340
40	-	-	-	120	150	186	228	277	335
50	-	-	-	-	142	177	219	269	326
60	-	-	-	-	-	-	207	256	313

Coefficient of performance (C.O.P.)

10	3.03	3.65	4.37	5.25	6.38	-	-	-	-
20	2.21	2.77	3.37	4.05	4.84	5.78	6.97	-	-
30	-	-	2.44	3.00	3.61	4.31	5.11	6.06	7.24
40	-	-	-	2.06	2.54	3.08	3.68	4.36	5.14
50	-	-	-	-	1.66	2.07	2.52	3.03	3.59
60	-	-	-	-	-	-	1.61	1.98	2.39

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 580	W
Power input	3 167	W
Current consumption	5.74	A
Mass flow	146	kg/h
C.O.P.	2.08	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R449A

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

Cooling capacity in W

10	4 111	5 148	6 388	7 863	9 602	-	-	-	-
20	3 643	4 641	5 824	7 223	8 866	10 784	13 001	-	-
30	3 124	4 058	5 157	6 452	7 974	9 753	11 818	14 194	16 900
40	-	-	4 416	5 581	6 955	8 569	10 455	12 640	15 150
50	-	-	-	4 638	5 838	7 261	8 940	10 909	13 197
60	-	-	-	-	4 652	5 857	7 303	9 027	11 066

Power input in W

10	1 356	1 408	1 456	1 490	1 496	-	-	-	-
20	1 666	1 691	1 736	1 788	1 835	1 864	1 864	-	-
30	2 197	2 155	2 154	2 183	2 228	2 278	2 321	2 344	2 335
40	-	-	2 822	2 786	2 789	2 818	2 863	2 909	2 946
50	-	-	-	3 711	3 630	3 597	3 602	3 630	3 671
60	-	-	-	-	4 864	4 728	4 651	4 620	4 624

Current consumption in A

10	3.89	3.92	3.94	3.95	3.97	-	-	-	-
20	4.14	4.18	4.21	4.24	4.27	4.30	4.33	-	-
30	4.54	4.57	4.61	4.64	4.68	4.71	4.75	4.79	4.83
40	-	-	5.26	5.28	5.30	5.33	5.37	5.40	5.45
50	-	-	-	6.28	6.29	6.30	6.31	6.33	6.36
60	-	-	-	-	7.75	7.73	7.71	7.71	7.71

Mass flow in kg/h

10	79	98	120	145	174	-	-	-	-
20	76	96	118	144	174	208	247	-	-
30	73	92	115	140	170	205	245	290	340
40	-	-	109	135	165	200	240	285	335
50	-	-	-	126	156	191	230	276	326
60	-	-	-	-	144	178	218	263	313

Coefficient of performance (C.O.P.)

10	3.03	3.66	4.39	5.28	6.42	-	-	-	-
20	2.19	2.74	3.35	4.04	4.83	5.78	6.98	-	-
30	1.42	1.88	2.39	2.96	3.58	4.28	5.09	6.06	7.24
40	-	-	1.56	2.00	2.49	3.04	3.65	4.34	5.14
50	-	-	-	1.25	1.61	2.02	2.48	3.01	3.59
60	-	-	-	-	0.96	1.24	1.57	1.95	2.39

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 407	W
Power input	3 167	W
Current consumption	5.74	A
Mass flow	161	kg/h
C.O.P.	2.02	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

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

Tolerance according EN12900