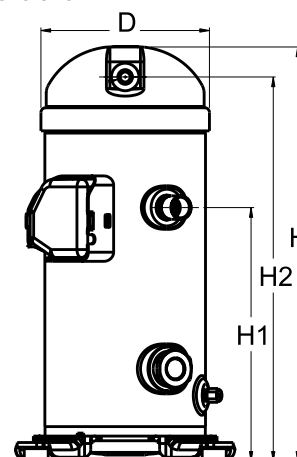


General Characteristics

Model number (on compressor nameplate)		MLZ048T4LC9A
Code number for Singlepack*		121L8651
Code number for Industrial pack**		121L8650
Drawing number		0XR6025B-3
Suction and discharge connections		Brazed
Suction connection		7/8" ODF
Discharge connection		3/4" 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		107.48 cm ³ /rev
Displacement @ Nominal speed		18.7 m ³ /h @ 2900 rpm - 22.6 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

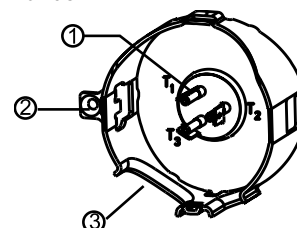


D=184 mm
H=455 mm
H1=280 mm
H2=422 mm
H3=- mm

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	1.716 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.694 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.666 Ω
Rated Load Amps (RLA)	10.3 A
Maximum Continuous Current (MCC)	16 A
Locked Rotor Amps (LRA)	87 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, 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, sets

Code no.

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1-1/4" Rotolock, 3/4" ODF)	120Z0128
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
-----------------------------------	----------

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.

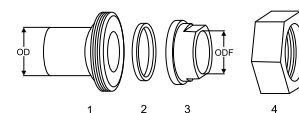
Acoustic hood	120Z5084
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts

Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

Solder sleeve adapter set



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

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	7 769	9 456	11 473	13 852	16 626	-	-	-	-
20	7 030	8 707	10 671	12 955	15 592	18 617	22 062	-	-
30	6 085	7 697	9 552	11 685	14 129	16 918	20 084	23 662	27 686
40	-	6 476	8 168	10 094	12 289	14 785	17 617	20 819	24 422
50	-	-	6 569	8 232	10 122	12 271	14 713	17 481	20 610
60	-	-	-	-	7 680	9 426	11 422	13 702	16 299

Power input in W

10	2 254	2 216	2 184	2 157	2 135	-	-	-	-
20	2 989	2 952	2 918	2 888	2 861	2 837	2 815	-	-
30	3 825	3 803	3 782	3 762	3 743	3 724	3 707	3 690	3 673
40	-	4 777	4 782	4 786	4 789	4 790	4 789	4 787	4 783
50	-	-	5 928	5 970	6 007	6 041	6 072	6 098	6 120
60	-	-	-	-	7 407	7 488	7 562	7 630	7 693

Current consumption in A

10	6.62	6.54	6.48	6.40	6.29	-	-	-	-
20	7.47	7.46	7.46	7.47	7.46	7.43	7.36	-	-
30	8.18	8.18	8.22	8.26	8.31	8.34	8.35	8.31	8.22
40	-	9.15	9.17	9.21	9.26	9.31	9.35	9.36	9.32
50	-	-	10.76	10.75	10.76	10.78	10.80	10.81	10.78
60	-	-	-	-	13.23	13.18	13.14	13.09	13.03

Mass flow in kg/h

10	155	192	234	284	342	-	-	-	-
20	154	193	237	289	350	422	506	-	-
30	147	188	234	288	351	424	510	611	728
40	-	177	225	279	343	418	506	608	727
50	-	-	208	263	327	403	492	595	714
60	-	-	-	-	302	378	467	570	690

Coefficient of performance (C.O.P.)

10	3.45	4.27	5.25	6.42	7.79	-	-	-	-
20	2.35	2.95	3.66	4.49	5.45	6.56	7.84	-	-
30	1.59	2.02	2.53	3.11	3.78	4.54	5.42	6.41	7.54
40	-	1.36	1.71	2.11	2.57	3.09	3.68	4.35	5.11
50	-	-	1.11	1.38	1.68	2.03	2.42	2.87	3.37
60	-	-	-	-	1.04	1.26	1.51	1.80	2.12

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

Cooling capacity	11 243	W
Power input	5 376	W
Current consumption	9.91	A
Mass flow	336	kg/h
C.O.P.	2.09	


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	71	dB(A)
With acoustic hood	63	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	7 465	9 152	11 179	13 585	16 404	-	-	-	-
20	6 610	8 269	10 231	12 534	15 216	18 312	21 852	-	-
30	5 565	7 134	8 970	11 112	13 597	16 465	19 751	23 484	27 686
40	4 392	5 810	7 459	9 378	11 608	14 188	17 161	20 561	24 422
50	-	-	5 762	7 397	9 309	11 540	14 137	17 145	20 610
60	-	-	-	-	6 759	8 575	10 732	13 286	16 299

Power input in W

10	2 254	2 216	2 184	2 157	2 135	-	-	-	-
20	2 989	2 952	2 918	2 888	2 861	2 837	2 815	-	-
30	3 825	3 803	3 782	3 762	3 743	3 724	3 707	3 690	3 673
40	4 771	4 777	4 782	4 786	4 789	4 790	4 789	4 787	4 783
50	-	-	5 928	5 970	6 007	6 041	6 072	6 098	6 120
60	-	-	-	-	7 407	7 488	7 562	7 630	7 693

Current consumption in A

10	6.62	6.54	6.48	6.40	6.29	-	-	-	-
20	7.47	7.46	7.46	7.47	7.46	7.43	7.36	-	-
30	8.18	8.18	8.22	8.26	8.31	8.34	8.35	8.31	8.22
40	9.18	9.15	9.17	9.21	9.26	9.31	9.35	9.36	9.32
50	-	-	10.76	10.75	10.76	10.78	10.80	10.81	10.78
60	-	-	-	-	13.23	13.18	13.14	13.09	13.03

Mass flow in kg/h

10	185	225	269	320	378	-	-	-	-
20	183	225	272	326	386	456	534	-	-
30	176	220	269	324	387	458	539	629	728
40	162	207	258	315	379	452	534	626	727
50	-	-	239	296	361	436	519	612	714
60	-	-	-	-	334	409	493	587	690

Coefficient of performance (C.O.P.)

10	3.31	4.13	5.12	6.30	7.68	-	-	-	-
20	2.21	2.80	3.51	4.34	5.32	6.46	7.76	-	-
30	1.46	1.88	2.37	2.95	3.63	4.42	5.33	6.37	7.54
40	0.92	1.22	1.56	1.96	2.42	2.96	3.58	4.30	5.11
50	-	-	0.97	1.24	1.55	1.91	2.33	2.81	3.37
60	-	-	-	-	0.91	1.15	1.42	1.74	2.12

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

Cooling capacity	10 493	W
Power input	5 376	W
Current consumption	9.91	A
Mass flow	371	kg/h
C.O.P.	1.95	

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	71	dB(A)
With acoustic hood	63	dB(A)

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	9 328	11 556	14 253	17 436	21 125	-	-	-	-
20	8 389	10 406	12 842	15 713	19 038	22 834	27 119	-	-
30	7 475	9 269	11 431	13 977	16 927	20 298	24 107	28 371	33 106
40	-	8 059	9 935	12 144	14 707	17 640	20 961	24 688	28 837
50	-	-	8 268	10 129	12 292	14 775	17 597	20 775	24 328
60	-	-	-	-	9 598	11 620	13 931	16 550	19 496

Power input in W

10	2 762	2 774	2 806	2 842	2 866	-	-	-	-
20	3 433	3 444	3 481	3 527	3 568	3 587	3 567	-	-
30	4 312	4 313	4 346	4 395	4 444	4 477	4 478	4 431	4 319
40	-	5 411	5 432	5 475	5 525	5 564	5 577	5 548	5 460
50	-	-	6 769	6 798	6 839	6 876	6 893	6 874	6 803
60	-	-	-	-	8 418	8 445	8 457	8 439	8 375

Current consumption in A

10	4.33	4.35	4.40	4.46	4.50	-	-	-	-
20	5.39	5.40	5.46	5.53	5.60	5.63	5.60	-	-
30	6.77	6.77	6.82	6.90	6.97	7.02	7.03	6.95	6.78
40	-	8.49	8.52	8.59	8.67	8.73	8.75	8.70	8.57
50	-	-	10.62	10.67	10.73	10.79	10.81	10.78	10.67
60	-	-	-	-	13.21	13.25	13.27	13.24	13.14

Mass flow in kg/h

10	161	219	284	356	437	-	-	-	-
20	170	224	284	352	431	522	626	-	-
30	174	225	281	347	423	512	616	735	873
40	-	221	275	339	413	501	604	723	861
50	-	-	264	326	399	486	589	709	848
60	-	-	-	-	381	468	571	692	833

Coefficient of performance (C.O.P.)

10	3.38	4.17	5.08	6.13	7.37	-	-	-	-
20	2.44	3.02	3.69	4.45	5.34	6.37	7.60	-	-
30	1.73	2.15	2.63	3.18	3.81	4.53	5.38	6.40	7.67
40	-	1.49	1.83	2.22	2.66	3.17	3.76	4.45	5.28
50	-	-	1.22	1.49	1.80	2.15	2.55	3.02	3.58
60	-	-	-	-	1.14	1.38	1.65	1.96	2.33

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

Cooling capacity	13 529	W
Power input	6 151	W
Current consumption	9.65	A
Mass flow	407	kg/h
C.O.P.	2.20	

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	75	dB(A)
With acoustic hood	67	dB(A)

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	8 964	11 183	13 888	17 101	20 842	-	-	-	-
20	7 889	9 882	12 312	15 203	18 579	22 460	26 861	-	-
30	6 836	8 592	10 734	13 291	16 290	19 755	23 707	28 157	33 106
40	5 726	7 231	9 073	11 283	13 892	16 928	20 417	24 383	28 837
50	-	-	7 253	9 102	11 304	13 895	16 908	20 376	24 328
60	-	-	-	-	8 446	10 571	13 090	16 049	19 496

Power input in W

10	2 762	2 774	2 806	2 842	2 866	-	-	-	-
20	3 433	3 444	3 481	3 527	3 568	3 587	3 567	-	-
30	4 312	4 313	4 346	4 395	4 444	4 477	4 478	4 431	4 319
40	5 429	5 411	5 432	5 475	5 525	5 564	5 577	5 548	5 460
50	-	-	6 769	6 798	6 839	6 876	6 893	6 874	6 803
60	-	-	-	-	8 418	8 445	8 457	8 439	8 375

Current consumption in A

10	4.33	4.35	4.40	4.46	4.50	-	-	-	-
20	5.39	5.40	5.46	5.53	5.60	5.63	5.60	-	-
30	6.77	6.77	6.82	6.90	6.97	7.02	7.03	6.95	6.78
40	8.52	8.49	8.52	8.59	8.67	8.73	8.75	8.70	8.57
50	-	-	10.62	10.67	10.73	10.79	10.81	10.78	10.67
60	-	-	-	-	13.21	13.25	13.27	13.24	13.14

Mass flow in kg/h

10	192	257	326	400	483	-	-	-	-
20	202	262	326	397	476	564	662	-	-
30	208	263	323	391	468	554	650	757	873
40	207	258	316	381	456	541	637	744	861
50	-	-	303	367	441	526	622	730	848
60	-	-	-	-	420	506	603	713	833

Coefficient of performance (C.O.P.)

10	3.25	4.03	4.95	6.02	7.27	-	-	-	-
20	2.30	2.87	3.54	4.31	5.21	6.26	7.53	-	-
30	1.59	1.99	2.47	3.02	3.67	4.41	5.29	6.35	7.67
40	1.05	1.34	1.67	2.06	2.51	3.04	3.66	4.39	5.28
50	-	-	1.07	1.34	1.65	2.02	2.45	2.96	3.58
60	-	-	-	-	1.00	1.25	1.55	1.90	2.33

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

Cooling capacity	12 627	W
Power input	6 151	W
Current consumption	9.65	A
Mass flow	449	kg/h
C.O.P.	2.05	

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	75	dB(A)
With acoustic hood	67	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, 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	6 427	8 086	10 061	12 360	14 992	-	-	-	-
30	5 889	7 457	9 334	11 528	14 046	16 897	-	-	-
40	5 202	6 628	8 354	10 386	12 734	15 405	18 406	-	-
50	-	5 766	7 308	9 148	11 294	13 753	16 533	-	-
60	-	-	6 214	7 830	9 741	11 956	14 483	-	-
70	-	-	-	6 448	8 093	10 032	12 273	-	-
73	-	-	-	6 023	7 582	9 433	11 582	-	-

Power input in W

22	1 741	1 769	1 798	1 824	1 847	-	-	-	-
30	2 084	2 117	2 149	2 177	2 200	2 215	-	-	-
40	2 575	2 620	2 661	2 696	2 723	2 740	2 746	-	-
50	-	3 214	3 270	3 318	3 355	3 379	3 390	-	-
60	-	-	3 992	4 058	4 111	4 149	4 170	-	-
70	-	-	-	4 934	5 008	5 065	5 103	-	-
73	-	-	-	5 225	5 307	5 371	5 416	-	-

Current consumption in A

22	5.79	5.81	5.83	5.85	5.86	-	-	-	-
30	6.24	6.27	6.29	6.31	6.33	6.34	-	-	-
40	7.04	7.07	7.10	7.13	7.15	7.17	7.18	-	-
50	-	8.18	8.21	8.24	8.27	8.29	8.31	-	-
60	-	-	9.69	9.72	9.74	9.77	9.79	-	-
70	-	-	-	11.60	11.62	11.65	11.66	-	-
73	-	-	-	12.25	12.28	12.30	12.31	-	-

Mass flow in kg/h

22	138	171	209	252	300	-	-	-	-
30	136	169	207	251	300	354	-	-	-
40	133	166	204	248	298	353	414	-	-
50	-	161	200	244	294	350	412	-	-
60	-	-	193	237	287	343	406	-	-
70	-	-	-	227	277	333	396	-	-
73	-	-	-	224	273	330	392	-	-

Coefficient of performance (C.O.P.)

22	3.69	4.57	5.60	6.78	8.11	-	-	-	-
30	2.83	3.52	4.34	5.30	6.39	7.63	-	-	-
40	2.02	2.53	3.14	3.85	4.68	5.62	6.70	-	-
50	-	1.79	2.23	2.76	3.37	4.07	4.88	-	-
60	-	-	1.56	1.93	2.37	2.88	3.47	-	-
70	-	-	-	1.31	1.62	1.98	2.40	-	-
73	-	-	-	1.15	1.43	1.76	2.14	-	-

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

Cooling capacity	6 200	W
Power input	2 905	W
Current consumption	7.58	A
Mass flow	164	kg/h
C.O.P.	2.13	

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	71	dB(A)
With acoustic hood	63	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	6 530	8 180	10 138	12 413	15 016	-	-	-	-
30	-	7 595	9 454	11 617	14 093	16 897	-	-	-
40	-	-	8 526	10 520	12 810	15 405	18 320	-	-
50	-	-	7 530	9 326	11 398	13 753	16 401	-	-
60	-	-	-	8 049	9 872	11 956	-	-	-
70	-	-	-	-	8 249	10 032	-	-	-
73	-	-	-	-	7 746	9 433	-	-	-

Power input in W

22	1 741	1 769	1 798	1 824	1 847	-	-	-	-
30	-	2 117	2 149	2 177	2 200	2 215	-	-	-
40	-	-	2 661	2 696	2 723	2 740	2 746	-	-
50	-	-	3 270	3 318	3 355	3 379	3 390	-	-
60	-	-	-	4 058	4 111	4 149	-	-	-
70	-	-	-	-	5 008	5 065	-	-	-
73	-	-	-	-	5 307	5 371	-	-	-

Current consumption in A

22	5.79	5.81	5.83	5.85	5.86	-	-	-	-
30	-	6.27	6.29	6.31	6.33	6.34	-	-	-
40	-	-	7.10	7.13	7.15	7.17	7.18	-	-
50	-	-	8.21	8.24	8.27	8.29	8.31	-	-
60	-	-	-	9.72	9.74	9.77	-	-	-
70	-	-	-	-	11.62	11.65	-	-	-
73	-	-	-	-	12.28	12.30	-	-	-

Mass flow in kg/h

22	124	157	195	240	293	-	-	-	-
30	-	155	194	240	293	354	-	-	-
40	-	-	191	237	291	353	425	-	-
50	-	-	187	233	287	350	423	-	-
60	-	-	-	226	280	343	-	-	-
70	-	-	-	-	271	333	-	-	-
73	-	-	-	-	267	330	-	-	-

Coefficient of performance (C.O.P.)

22	3.75	4.62	5.64	6.80	8.13	-	-	-	-
30	-	3.59	4.40	5.34	6.41	7.63	-	-	-
40	-	-	3.20	3.90	4.70	5.62	6.67	-	-
50	-	-	2.30	2.81	3.40	4.07	4.84	-	-
60	-	-	-	1.98	2.40	2.88	-	-	-
70	-	-	-	-	1.65	1.98	-	-	-
73	-	-	-	-	1.46	1.76	-	-	-

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	71	dB(A)
With acoustic hood	63	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	7 837	9 880	12 290	15 078	18 256	-	-	-	-
30	7 220	9 159	11 453	14 113	17 153	20 583	-	-	-
40	6 336	8 113	10 232	12 703	15 539	18 751	22 352	-	-
50	-	6 976	8 886	11 134	13 732	16 692	20 027	-	-
60	-	-	7 489	9 480	11 807	14 482	17 516	-	-
70	-	-	-	7 815	9 837	12 192	14 893	-	-
73	-	-	-	7 325	9 249	11 502	14 095	-	-

Power input in W

22	2 179	2 223	2 278	2 346	2 430	-	-	-	-
30	2 560	2 608	2 659	2 716	2 783	2 862	-	-	-
40	3 137	3 200	3 257	3 312	3 368	3 426	3 491	-	-
50	-	3 919	3 994	4 058	4 114	4 164	4 212	-	-
60	-	-	4 871	4 955	5 023	5 077	5 120	-	-
70	-	-	-	6 008	6 100	6 169	6 218	-	-
73	-	-	-	6 354	6 455	6 531	6 585	-	-

Current consumption in A

22	5.81	5.86	5.87	5.86	5.82	-	-	-	-
30	6.22	6.28	6.31	6.31	6.30	6.29	-	-	-
40	7.01	7.06	7.08	7.09	7.09	7.09	7.09	-	-
50	-	8.23	8.23	8.21	8.20	8.18	8.18	-	-
60	-	-	9.89	9.82	9.76	9.71	9.68	-	-
70	-	-	-	12.05	11.92	11.81	11.72	-	-
73	-	-	-	12.85	12.70	12.56	12.45	-	-

Mass flow in kg/h

22	168	208	254	307	367	-	-	-	-
30	168	207	254	307	367	433	-	-	-
40	166	204	250	303	364	431	504	-	-
50	-	197	243	296	357	425	499	-	-
60	-	-	234	287	348	416	491	-	-
70	-	-	-	276	337	405	481	-	-
73	-	-	-	273	333	402	477	-	-

Coefficient of performance (C.O.P.)

22	3.60	4.44	5.40	6.43	7.51	-	-	-	-
30	2.82	3.51	4.31	5.20	6.16	7.19	-	-	-
40	2.02	2.54	3.14	3.84	4.61	5.47	6.40	-	-
50	-	1.78	2.22	2.74	3.34	4.01	4.75	-	-
60	-	-	1.54	1.91	2.35	2.85	3.42	-	-
70	-	-	-	1.30	1.61	1.98	2.40	-	-
73	-	-	-	1.15	1.43	1.76	2.14	-	-

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

Cooling capacity	7 551	W
Power input	3 543	W
Current consumption	7.59	A
Mass flow	201	kg/h
C.O.P.	2.13	

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	75	dB(A)
With acoustic hood	67	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	7 962	9 995	12 384	15 143	18 286	-	-	-	-
30	-	9 328	11 600	14 223	17 211	20 583	-	-	-
40	-	-	10 442	12 867	15 631	18 751	22 247	-	-
50	-	-	9 156	11 349	13 858	16 692	19 867	-	-
60	-	-	-	9 745	11 965	14 482	-	-	-
70	-	-	-	-	10 027	12 192	-	-	-
73	-	-	-	-	9 448	11 502	-	-	-

Power input in W

22	2 179	2 223	2 278	2 346	2 430	-	-	-	-
30	-	2 608	2 659	2 716	2 783	2 862	-	-	-
40	-	-	3 257	3 312	3 368	3 426	3 491	-	-
50	-	-	3 994	4 058	4 114	4 164	4 212	-	-
60	-	-	-	4 955	5 023	5 077	-	-	-
70	-	-	-	-	6 100	6 169	-	-	-
73	-	-	-	-	6 455	6 531	-	-	-

Current consumption in A

22	5.81	5.86	5.87	5.86	5.82	-	-	-	-
30	-	6.28	6.31	6.31	6.30	6.29	-	-	-
40	-	-	7.08	7.09	7.09	7.09	7.09	-	-
50	-	-	8.23	8.21	8.20	8.18	8.18	-	-
60	-	-	-	9.82	9.76	9.71	-	-	-
70	-	-	-	-	11.92	11.81	-	-	-
73	-	-	-	-	12.70	12.56	-	-	-

Mass flow in kg/h

22	152	191	238	294	358	-	-	-	-
30	-	190	237	293	359	433	-	-	-
40	-	-	234	290	355	431	517	-	-
50	-	-	227	283	349	425	512	-	-
60	-	-	-	274	340	416	-	-	-
70	-	-	-	-	329	405	-	-	-
73	-	-	-	-	326	402	-	-	-

Coefficient of performance (C.O.P.)

22	3.65	4.50	5.44	6.46	7.53	-	-	-	-
30	-	3.58	4.36	5.24	6.18	7.19	-	-	-
40	-	-	3.21	3.88	4.64	5.47	6.37	-	-
50	-	-	2.29	2.80	3.37	4.01	4.72	-	-
60	-	-	-	1.97	2.38	2.85	-	-	-
70	-	-	-	-	1.64	1.98	-	-	-
73	-	-	-	-	1.46	1.76	-	-	-

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	75	dB(A)
With acoustic hood	67	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	8 163	10 286	12 824	15 829	-	-	-	-	-
20	7 089	9 075	11 440	14 239	17 522	21 342	-	-	-
30	5 956	7 784	9 957	12 529	15 551	19 076	23 157	27 846	-
40	4 782	6 432	8 393	10 718	13 458	16 668	20 399	24 704	-
45	-	5 739	7 586	9 780	12 372	15 417	18 965	23 070	-
50	-	-	6 766	8 823	11 263	14 137	17 498	21 398	-
55	-	-	-	7 851	10 132	12 830	15 999	19 689	-
60	-	-	-	-	8 982	11 500	14 471	17 946	-

Power input in W

10	2 290	2 332	2 344	2 313	-	-	-	-	-
20	2 794	2 854	2 903	2 929	2 921	2 868	-	-	-
30	3 479	3 519	3 568	3 613	3 644	3 650	3 619	3 540	-
40	4 456	4 439	4 450	4 478	4 510	4 537	4 547	4 529	-
45	-	5 029	5 008	5 012	5 032	5 055	5 071	5 069	-
50	-	-	5 661	5 633	5 630	5 641	5 654	5 659	-
55	-	-	-	6 355	6 320	6 309	6 310	6 312	-
60	-	-	-	-	7 115	7 072	7 051	7 042	-

Current consumption in A

10	6.54	6.56	6.57	6.59	-	-	-	-	-
20	6.92	6.94	6.97	6.99	7.02	7.04	-	-	-
30	7.56	7.59	7.62	7.66	7.69	7.71	7.74	7.75	-
40	8.53	8.56	8.60	8.64	8.67	8.71	8.73	8.76	-
45	-	9.19	9.23	9.27	9.30	9.34	9.37	9.39	-
50	-	-	9.96	10.00	10.03	10.07	10.10	10.13	-
55	-	-	-	10.84	10.88	10.91	10.95	10.97	-
60	-	-	-	-	11.84	11.87	11.90	11.93	-

Mass flow in kg/h

10	159	198	243	296	-	-	-	-	-
20	150	190	235	288	348	418	-	-	-
30	139	178	224	277	338	407	487	578	-
40	125	164	209	262	323	394	474	565	-
45	-	155	201	254	315	385	466	557	-
50	-	-	191	244	305	376	456	548	-
55	-	-	-	233	295	365	446	538	-
60	-	-	-	-	283	353	434	526	-

Coefficient of performance (C.O.P.)

10	3.57	4.41	5.47	6.84	-	-	-	-	-
20	2.54	3.18	3.94	4.86	6.00	7.44	-	-	-
30	1.71	2.21	2.79	3.47	4.27	5.23	6.40	7.87	-
40	1.07	1.45	1.89	2.39	2.98	3.67	4.49	5.46	-
45	-	1.14	1.51	1.95	2.46	3.05	3.74	4.55	-
50	-	-	1.20	1.57	2.00	2.51	3.09	3.78	-
55	-	-	-	1.24	1.60	2.03	2.54	3.12	-
60	-	-	-	-	1.26	1.63	2.05	2.55	-

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

Cooling capacity	9 780	W
Power input	5 012	W
Current consumption	9.27	A
Mass flow	254	kg/h
C.O.P.	1.95	

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	71	dB(A)
With acoustic hood	63	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	8 669	10 914	13 594	16 764	-	-	-	-	-
20	7 584	9 698	12 212	15 183	18 665	22 713	-	-	-
30	6 432	8 394	10 724	13 476	16 706	20 468	24 819	29 812	-
40	5 229	7 020	9 145	11 659	14 618	18 077	22 093	26 719	-
45	-	6 312	8 327	10 715	13 532	16 834	20 676	25 113	-
50	-	-	7 494	9 752	12 423	15 563	19 227	23 473	-
55	-	-	-	8 771	11 293	14 268	17 754	21 805	-
60	-	-	-	-	-	12 956	16 262	20 120	-

Power input in W

10	2 290	2 332	2 344	2 313	-	-	-	-	-
20	2 794	2 854	2 903	2 929	2 921	2 868	-	-	-
30	3 479	3 519	3 568	3 613	3 644	3 650	3 619	3 540	-
40	4 456	4 439	4 450	4 478	4 510	4 537	4 547	4 529	-
45	-	5 029	5 008	5 012	5 032	5 055	5 071	5 069	-
50	-	-	5 661	5 633	5 630	5 641	5 654	5 659	-
55	-	-	-	6 355	6 320	6 309	6 310	6 312	-
60	-	-	-	-	-	7 072	7 051	7 042	-

Current consumption in A

10	6.54	6.56	6.57	6.59	-	-	-	-	-
20	6.92	6.94	6.97	6.99	7.02	7.04	-	-	-
30	7.56	7.59	7.62	7.66	7.69	7.71	7.74	7.75	-
40	8.53	8.56	8.60	8.64	8.67	8.71	8.73	8.76	-
45	-	9.19	9.23	9.27	9.30	9.34	9.37	9.39	-
50	-	-	9.96	10.00	10.03	10.07	10.10	10.13	-
55	-	-	-	10.84	10.88	10.91	10.95	10.97	-
60	-	-	-	-	-	11.87	11.90	11.93	-

Mass flow in kg/h

10	158	197	242	294	-	-	-	-	-
20	150	189	234	286	346	415	-	-	-
30	138	177	223	275	336	405	485	575	-
40	124	163	208	261	322	391	471	562	-
45	-	154	200	252	313	383	463	554	-
50	-	-	190	243	304	374	454	545	-
55	-	-	-	232	293	363	443	534	-
60	-	-	-	-	-	351	432	523	-

Coefficient of performance (C.O.P.)

10	3.79	4.68	5.80	7.25	-	-	-	-	-
20	2.71	3.40	4.21	5.18	6.39	7.92	-	-	-
30	1.85	2.39	3.01	3.73	4.58	5.61	6.86	8.42	-
40	1.17	1.58	2.05	2.60	3.24	3.98	4.86	5.90	-
45	-	1.26	1.66	2.14	2.69	3.33	4.08	4.95	-
50	-	-	1.32	1.73	2.21	2.76	3.40	4.15	-
55	-	-	-	1.38	1.79	2.26	2.81	3.45	-
60	-	-	-	-	-	1.83	2.31	2.86	-

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

Cooling capacity	10 715	W
Power input	5 012	W
Current consumption	9.27	A
Mass flow	252	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	71	dB(A)
With acoustic hood	63	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	9 816	12 455	15 616	19 362	-	-	-	-	-
20	8 494	10 928	13 833	17 270	21 303	25 994	-	-	-
30	7 166	9 386	12 024	15 143	18 806	23 077	28 017	33 689	-
40	5 839	7 833	10 195	12 986	16 270	20 109	24 567	29 705	-
45	-	7 055	9 274	11 898	14 988	18 609	22 821	27 689	-
50	-	-	8 351	10 805	13 699	17 097	21 062	25 657	-
55	-	-	-	9 707	12 403	15 577	19 292	23 610	-
60	-	-	-	-	11 099	14 047	17 509	21 550	-

Power input in W

10	2 726	2 794	2 820	2 792	-	-	-	-	-
20	3 335	3 428	3 496	3 525	3 504	3 420	-	-	-
30	4 136	4 220	4 296	4 350	4 370	4 342	4 255	4 096	-
40	5 245	5 287	5 337	5 381	5 408	5 404	5 357	5 254	-
45	-	5 959	5 983	6 010	6 028	6 023	5 983	5 895	-
50	-	-	6 733	6 734	6 734	6 720	6 679	6 598	-
55	-	-	-	7 568	7 542	7 510	7 459	7 377	-
60	-	-	-	-	8 465	8 406	8 338	8 246	-

Current consumption in A

10	6.43	6.55	6.60	6.60	-	-	-	-	-
20	6.75	6.91	7.00	7.05	7.06	7.03	-	-	-
30	7.33	7.49	7.61	7.67	7.70	7.71	7.70	7.69	-
40	8.33	8.47	8.57	8.62	8.65	8.66	8.66	8.66	-
45	-	9.16	9.23	9.27	9.28	9.28	9.28	9.27	-
50	-	-	10.05	10.06	10.05	10.04	10.01	10.00	-
55	-	-	-	11.01	10.98	10.93	10.89	10.86	-
60	-	-	-	-	12.08	12.00	11.93	11.87	-

Mass flow in kg/h

10	191	240	296	362	-	-	-	-	-
20	180	228	284	349	423	509	-	-	-
30	167	215	270	334	408	493	590	700	-
40	152	200	254	318	391	475	571	679	-
45	-	191	246	309	381	465	560	668	-
50	-	-	236	299	371	454	549	657	-
55	-	-	-	288	361	443	538	645	-
60	-	-	-	-	349	431	525	632	-

Coefficient of performance (C.O.P.)

10	3.60	4.46	5.54	6.94	-	-	-	-	-
20	2.55	3.19	3.96	4.90	6.08	7.60	-	-	-
30	1.73	2.22	2.80	3.48	4.30	5.31	6.58	8.22	-
40	1.11	1.48	1.91	2.41	3.01	3.72	4.59	5.65	-
45	-	1.18	1.55	1.98	2.49	3.09	3.81	4.70	-
50	-	-	1.24	1.60	2.03	2.54	3.15	3.89	-
55	-	-	-	1.28	1.64	2.07	2.59	3.20	-
60	-	-	-	-	1.31	1.67	2.10	2.61	-

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

Cooling capacity	11 898	W
Power input	6 010	W
Current consumption	9.27	A
Mass flow	309	kg/h
C.O.P.	1.98	

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	75	dB(A)
With acoustic hood	67	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	10 424	13 215	16 553	20 505	-	-	-	-	-
20	9 087	11 678	14 766	18 416	22 693	27 663	-	-	-
30	7 739	10 122	12 949	16 287	20 203	24 761	30 027	36 067	-
40	6 384	8 550	11 108	14 127	17 672	21 810	26 607	32 129	-
45	-	7 759	10 181	13 036	16 394	20 319	24 879	30 141	-
50	-	-	9 250	11 941	15 110	18 822	23 145	28 145	-
55	-	-	-	10 844	13 823	17 322	21 408	26 148	-
60	-	-	-	-	-	15 825	19 676	24 160	-

Power input in W

10	2 726	2 794	2 820	2 792	-	-	-	-	-
20	3 335	3 428	3 496	3 525	3 504	3 420	-	-	-
30	4 136	4 220	4 296	4 350	4 370	4 342	4 255	4 096	-
40	5 245	5 287	5 337	5 381	5 408	5 404	5 357	5 254	-
45	-	5 959	5 983	6 010	6 028	6 023	5 983	5 895	-
50	-	-	6 733	6 734	6 734	6 720	6 679	6 598	-
55	-	-	-	7 568	7 542	7 510	7 459	7 377	-
60	-	-	-	-	-	8 406	8 338	8 246	-

Current consumption in A

10	6.43	6.55	6.60	6.60	-	-	-	-	-
20	6.75	6.91	7.00	7.05	7.06	7.03	-	-	-
30	7.33	7.49	7.61	7.67	7.70	7.71	7.70	7.69	-
40	8.33	8.47	8.57	8.62	8.65	8.66	8.66	8.66	-
45	-	9.16	9.23	9.27	9.28	9.28	9.28	9.27	-
50	-	-	10.05	10.06	10.05	10.04	10.01	10.00	-
55	-	-	-	11.01	10.98	10.93	10.89	10.86	-
60	-	-	-	-	-	12.00	11.93	11.87	-

Mass flow in kg/h

10	190	239	295	360	-	-	-	-	-
20	179	227	283	347	421	506	-	-	-
30	166	214	269	333	406	490	586	695	-
40	151	198	253	316	389	472	567	675	-
45	-	190	244	307	379	462	557	664	-
50	-	-	235	297	369	452	546	653	-
55	-	-	-	287	359	441	534	641	-
60	-	-	-	-	-	429	522	628	-

Coefficient of performance (C.O.P.)

10	3.82	4.73	5.87	7.35	-	-	-	-	-
20	2.73	3.41	4.22	5.22	6.48	8.09	-	-	-
30	1.87	2.40	3.01	3.74	4.62	5.70	7.06	8.81	-
40	1.22	1.62	2.08	2.63	3.27	4.04	4.97	6.12	-
45	-	1.30	1.70	2.17	2.72	3.37	4.16	5.11	-
50	-	-	1.37	1.77	2.24	2.80	3.47	4.27	-
55	-	-	-	1.43	1.83	2.31	2.87	3.54	-
60	-	-	-	-	-	1.88	2.36	2.93	-

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

Cooling capacity	13 036	W
Power input	6 010	W
Current consumption	9.27	A
Mass flow	307	kg/h
C.O.P.	2.17	

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	75	dB(A)
With acoustic hood	67	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	9 191	10 528	13 081	16 084	-	-	-	-	-
20	8 093	9 351	11 747	14 564	17 852	21 663	-	-	-
30	6 919	8 086	10 305	12 913	15 962	19 504	23 590	28 273	-
40	5 687	6 748	8 769	11 147	13 936	17 187	20 951	25 282	-
45	-	-	7 970	10 226	12 877	15 974	19 570	23 716	-
50	-	-	-	9 282	11 790	14 728	18 150	22 106	-
55	-	-	-	-	10 676	13 451	16 693	20 455	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 414	2 443	2 457	2 411	-	-	-	-	-
20	2 949	2 990	3 049	3 077	3 054	2 959	-	-	-
30	3 679	3 703	3 758	3 811	3 843	3 833	3 761	3 606	-
40	4 728	4 706	4 708	4 739	4 777	4 804	4 797	4 738	-
45	-	-	5 313	5 314	5 337	5 364	5 372	5 343	-
50	-	-	-	5 984	5 980	5 995	6 006	5 994	-
55	-	-	-	-	6 722	6 712	6 713	6 707	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	6.90	6.90	6.89	6.89	-	-	-	-	-
20	7.33	7.33	7.34	7.36	7.37	7.38	-	-	-
30	8.04	8.05	8.07	8.10	8.12	8.14	8.15	8.17	-
40	9.11	9.12	9.15	9.18	9.21	9.23	9.26	9.27	-
45	-	-	9.84	9.87	9.90	9.93	9.95	9.97	-
50	-	-	-	10.68	10.71	10.73	10.76	10.78	-
55	-	-	-	-	11.63	11.66	11.68	11.70	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	160	183	224	272	-	-	-	-	-
20	153	175	217	265	321	385	-	-	-
30	142	165	207	255	311	375	449	532	-
40	129	151	193	242	298	363	436	520	-
45	-	-	185	234	290	355	429	512	-
50	-	-	-	225	281	346	420	504	-
55	-	-	-	-	271	336	410	494	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.81	4.31	5.32	6.67	-	-	-	-	-
20	2.74	3.13	3.85	4.73	5.85	7.32	-	-	-
30	1.88	2.18	2.74	3.39	4.15	5.09	6.27	7.84	-
40	1.20	1.43	1.86	2.35	2.92	3.58	4.37	5.34	-
45	-	-	1.50	1.92	2.41	2.98	3.64	4.44	-
50	-	-	-	1.55	1.97	2.46	3.02	3.69	-
55	-	-	-	-	1.59	2.00	2.49	3.05	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	10 226	W
Power input	5 314	W
Current consumption	9.87	A
Mass flow	234	kg/h
C.O.P.	1.92	

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	71	dB(A)
With acoustic hood	63	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	9 713	11 121	13 808	16 967	-	-	-	-	-
20	8 605	9 937	12 474	15 451	18 925	22 948	-	-	-
30	7 413	8 657	11 022	13 798	17 041	20 803	25 140	30 105	-
40	-	7 296	9 469	12 023	15 014	18 497	22 525	27 153	-
45	-	-	8 659	11 095	13 954	17 289	21 156	25 610	-
50	-	-	-	10 144	12 866	16 050	19 753	24 029	-
55	-	-	-	-	-	14 785	18 322	22 419	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 414	2 443	2 457	2 411	-	-	-	-	-
20	2 949	2 990	3 049	3 077	3 054	2 959	-	-	-
30	3 679	3 703	3 758	3 811	3 843	3 833	3 761	3 606	-
40	-	4 706	4 708	4 739	4 777	4 804	4 797	4 738	-
45	-	-	5 313	5 314	5 337	5 364	5 372	5 343	-
50	-	-	-	5 984	5 980	5 995	6 006	5 994	-
55	-	-	-	-	-	6 712	6 713	6 707	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	6.90	6.90	6.89	6.89	-	-	-	-	-
20	7.33	7.33	7.34	7.36	7.37	7.38	-	-	-
30	8.04	8.05	8.07	8.10	8.12	8.14	8.15	8.17	-
40	-	9.12	9.15	9.18	9.21	9.23	9.26	9.27	-
45	-	-	9.84	9.87	9.90	9.93	9.95	9.97	-
50	-	-	-	10.68	10.71	10.73	10.76	10.78	-
55	-	-	-	-	-	11.66	11.68	11.70	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	160	182	223	271	-	-	-	-	-
20	152	174	216	264	319	382	-	-	-
30	141	164	206	254	309	373	446	528	-
40	-	150	192	241	296	360	433	516	-
45	-	-	184	233	289	353	426	509	-
50	-	-	-	224	280	344	417	500	-
55	-	-	-	-	-	334	407	491	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.02	4.55	5.62	7.04	-	-	-	-	-
20	2.92	3.32	4.09	5.02	6.20	7.76	-	-	-
30	2.02	2.34	2.93	3.62	4.43	5.43	6.68	8.35	-
40	-	1.55	2.01	2.54	3.14	3.85	4.70	5.73	-
45	-	-	1.63	2.09	2.61	3.22	3.94	4.79	-
50	-	-	-	1.70	2.15	2.68	3.29	4.01	-
55	-	-	-	-	-	2.20	2.73	3.34	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	11 095	W
Power input	5 314	W
Current consumption	9.87	A
Mass flow	233	kg/h
C.O.P.	2.09	

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	71	dB(A)
With acoustic hood	63	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	11 346	13 047	16 304	20 142	-	-	-	-	-
20	9 950	11 529	14 541	18 084	22 222	27 019	-	-	-
30	8 533	9 982	12 739	15 978	19 762	24 155	29 219	35 019	-
40	7 100	8 413	10 903	13 827	17 247	21 226	25 827	31 113	-
45	-	-	9 974	12 736	15 970	19 738	24 103	29 130	-
50	-	-	-	11 636	14 681	18 235	22 363	27 126	-
55	-	-	-	-	13 380	16 719	20 605	25 103	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 917	2 954	2 986	2 973	-	-	-	-	-
20	3 589	3 641	3 704	3 734	3 722	3 661	-	-	-
30	4 465	4 514	4 584	4 629	4 644	4 620	4 549	4 424	-
40	5 651	5 683	5 732	5 768	5 783	5 769	5 720	5 626	-
45	-	-	6 441	6 462	6 467	6 449	6 400	6 313	-
50	-	-	-	7 257	7 246	7 217	7 163	7 075	-
55	-	-	-	-	8 134	8 087	8 020	7 925	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	6.87	6.93	6.97	6.96	-	-	-	-	-
20	7.26	7.35	7.44	7.48	7.47	7.43	-	-	-
30	7.92	8.01	8.12	8.18	8.20	8.20	8.18	8.14	-
40	9.02	9.10	9.19	9.24	9.26	9.26	9.25	9.23	-
45	-	-	9.92	9.96	9.96	9.95	9.93	9.91	-
50	-	-	-	10.83	10.81	10.78	10.75	10.72	-
55	-	-	-	-	11.83	11.78	11.72	11.67	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	198	226	279	341	-	-	-	-	-
20	188	216	268	329	399	480	-	-	-
30	175	203	255	316	385	465	556	659	-
40	161	189	240	300	369	448	538	640	-
45	-	-	232	292	360	438	528	629	-
50	-	-	-	282	350	428	517	618	-
55	-	-	-	-	340	418	506	606	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.89	4.42	5.46	6.77	-	-	-	-	-
20	2.77	3.17	3.93	4.84	5.97	7.38	-	-	-
30	1.91	2.21	2.78	3.45	4.26	5.23	6.42	7.92	-
40	1.26	1.48	1.90	2.40	2.98	3.68	4.52	5.53	-
45	-	-	1.55	1.97	2.47	3.06	3.77	4.61	-
50	-	-	-	1.60	2.03	2.53	3.12	3.83	-
55	-	-	-	-	1.65	2.07	2.57	3.17	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	12 736	W
Power input	6 462	W
Current consumption	9.96	A
Mass flow	292	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	75	dB(A)
With acoustic hood	67	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	11 991	13 783	17 211	21 248	-	-	-	-	-
20	10 580	12 251	15 439	19 186	23 558	28 621	-	-	-
30	9 142	10 688	13 625	17 073	21 097	25 764	31 139	37 289	-
40	-	9 096	11 774	14 914	18 581	22 843	27 766	33 417	-
45	-	-	10 837	13 819	17 305	21 363	26 057	31 457	-
50	-	-	-	12 717	16 021	19 872	24 338	29 486	-
55	-	-	-	-	-	18 377	22 615	27 513	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 917	2 954	2 986	2 973	-	-	-	-	-
20	3 589	3 641	3 704	3 734	3 722	3 661	-	-	-
30	4 465	4 514	4 584	4 629	4 644	4 620	4 549	4 424	-
40	-	5 683	5 732	5 768	5 783	5 769	5 720	5 626	-
45	-	-	6 441	6 462	6 467	6 449	6 400	6 313	-
50	-	-	-	7 257	7 246	7 217	7 163	7 075	-
55	-	-	-	-	-	8 087	8 020	7 925	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	6.87	6.93	6.97	6.96	-	-	-	-	-
20	7.26	7.35	7.44	7.48	7.47	7.43	-	-	-
30	7.92	8.01	8.12	8.18	8.20	8.20	8.18	8.14	-
40	-	9.10	9.19	9.24	9.26	9.26	9.25	9.23	-
45	-	-	9.92	9.96	9.96	9.95	9.93	9.91	-
50	-	-	-	10.83	10.81	10.78	10.75	10.72	-
55	-	-	-	-	-	11.78	11.72	11.67	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	197	225	278	339	-	-	-	-	-
20	187	215	267	327	397	477	-	-	-
30	174	202	254	314	383	462	552	654	-
40	-	188	239	298	367	445	534	635	-
45	-	-	231	290	358	436	524	625	-
50	-	-	-	281	348	426	514	614	-
55	-	-	-	-	-	415	503	602	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.11	4.67	5.76	7.15	-	-	-	-	-
20	2.95	3.37	4.17	5.14	6.33	7.82	-	-	-
30	2.05	2.37	2.97	3.69	4.54	5.58	6.84	8.43	-
40	-	1.60	2.05	2.59	3.21	3.96	4.85	5.94	-
45	-	-	1.68	2.14	2.68	3.31	4.07	4.98	-
50	-	-	-	1.75	2.21	2.75	3.40	4.17	-
55	-	-	-	-	-	2.27	2.82	3.47	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	13 819	W
Power input	6 462	W
Current consumption	9.96	A
Mass flow	290	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	75	dB(A)
With acoustic hood	67	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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	6 383	8 045	10 042	12 424	15 239	-	-	-	-
20	5 722	7 318	9 210	11 447	14 078	17 152	20 718	-	-
30	-	-	8 254	10 314	12 727	15 544	18 814	22 585	26 907
40	-	-	-	9 059	11 222	13 750	16 690	20 092	24 006
50	-	-	-	-	9 598	11 803	14 381	17 382	20 854
60	-	-	-	-	-	-	11 923	14 489	17 487

Power input in W

10	2 192	2 182	2 189	2 210	2 242	-	-	-	-
20	2 826	2 790	2 776	2 782	2 808	2 849	2 905	-	-
30	-	-	3 536	3 511	3 511	3 534	3 579	3 642	3 722
40	-	-	-	4 504	4 462	4 449	4 465	4 506	4 570
50	-	-	-	-	5 770	5 704	5 672	5 673	5 704
60	-	-	-	-	-	-	7 311	7 254	7 234

Current consumption in A

10	6.52	6.47	6.45	6.44	6.44	-	-	-	-
20	6.99	6.96	6.96	6.98	7.01	7.04	7.05	-	-
30	-	-	7.65	7.67	7.70	7.74	7.77	7.80	7.79
40	-	-	-	8.71	8.72	8.75	8.77	8.79	8.78
50	-	-	-	-	10.29	10.27	10.25	10.24	10.21
60	-	-	-	-	-	-	12.42	12.35	12.26

Mass flow in kg/h

10	104	132	166	206	253	-	-	-	-
20	100	129	163	203	251	308	375	-	-
30	-	-	158	198	246	302	370	449	542
40	-	-	-	190	237	294	360	439	531
50	-	-	-	-	226	281	347	425	516
60	-	-	-	-	-	-	329	406	495

Coefficient of performance (C.O.P.)

10	2.91	3.69	4.59	5.62	6.80	-	-	-	-
20	2.02	2.62	3.32	4.11	5.01	6.02	7.13	-	-
30	-	-	2.33	2.94	3.63	4.40	5.26	6.20	7.23
40	-	-	-	2.01	2.52	3.09	3.74	4.46	5.25
50	-	-	-	-	1.66	2.07	2.54	3.06	3.66
60	-	-	-	-	-	-	1.63	2.00	2.42

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

Cooling capacity	10 423	W
Power input	5 064	W
Current consumption	9.43	A
Mass flow	232	kg/h
C.O.P.	2.06	

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	6 410	8 085	10 099	12 501	15 337	-	-	-	-
20	5 671	7 271	9 172	11 424	14 075	17 171	20 756	-	-
30	4 879	6 369	8 122	10 189	12 621	15 466	18 770	22 573	26 907
40	-	-	6 987	8 836	11 015	13 574	16 563	20 027	24 006
50	-	-	-	7 402	9 294	11 533	14 172	17 263	20 854
60	-	-	-	-	7 494	9 379	11 634	14 318	17 487

Power input in W

10	2 192	2 182	2 189	2 210	2 242	-	-	-	-
20	2 826	2 790	2 776	2 782	2 808	2 849	2 905	-	-
30	3 671	3 588	3 536	3 511	3 511	3 534	3 579	3 642	3 722
40	-	-	4 579	4 504	4 462	4 449	4 465	4 506	4 570
50	-	-	-	5 873	5 770	5 704	5 672	5 673	5 704
60	-	-	-	-	7 546	7 407	7 311	7 254	7 234

Current consumption in A

10	6.52	6.47	6.45	6.44	6.44	-	-	-	-
20	6.99	6.96	6.96	6.98	7.01	7.04	7.05	-	-
30	7.70	7.66	7.65	7.67	7.70	7.74	7.77	7.80	7.79
40	-	-	8.72	8.71	8.72	8.75	8.77	8.79	8.78
50	-	-	-	10.33	10.29	10.27	10.25	10.24	10.21
60	-	-	-	-	12.60	12.51	12.42	12.35	12.26

Mass flow in kg/h

10	123	154	189	230	278	-	-	-	-
20	119	150	186	227	275	331	395	-	-
30	113	144	180	221	270	325	389	461	542
40	-	-	172	213	260	316	379	451	531
50	-	-	-	201	248	302	365	436	516
60	-	-	-	-	232	285	346	417	495

Coefficient of performance (C.O.P.)

10	2.92	3.70	4.61	5.66	6.84	-	-	-	-
20	2.01	2.61	3.30	4.11	5.01	6.03	7.15	-	-
30	1.33	1.77	2.30	2.90	3.59	4.38	5.24	6.20	7.23
40	-	-	1.53	1.96	2.47	3.05	3.71	4.44	5.25
50	-	-	-	1.26	1.61	2.02	2.50	3.04	3.66
60	-	-	-	-	0.99	1.27	1.59	1.97	2.42

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

Cooling capacity	10 167	W
Power input	5 064	W
Current consumption	9.43	A
Mass flow	255	kg/h
C.O.P.	2.01	

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	6 383	8 045	10 042	12 424	15 239	-	-	-	-
20	5 722	7 318	9 210	11 447	14 078	17 152	20 718	-	-
30	-	-	8 254	10 314	12 727	15 544	18 814	22 585	26 907
40	-	-	-	9 059	11 222	13 750	16 690	20 092	24 006
50	-	-	-	-	9 598	11 803	14 381	17 382	20 854
60	-	-	-	-	-	-	11 923	14 489	17 487

Power input in W

10	2 192	2 182	2 189	2 210	2 242	-	-	-	-
20	2 826	2 790	2 776	2 782	2 808	2 849	2 905	-	-
30	-	-	3 536	3 511	3 511	3 534	3 579	3 642	3 722
40	-	-	-	4 504	4 462	4 449	4 465	4 506	4 570
50	-	-	-	-	5 770	5 704	5 672	5 673	5 704
60	-	-	-	-	-	-	7 311	7 254	7 234

Current consumption in A

10	6.52	6.47	6.45	6.44	6.44	-	-	-	-
20	6.99	6.96	6.96	6.98	7.01	7.04	7.05	-	-
30	-	-	7.65	7.67	7.70	7.74	7.77	7.80	7.79
40	-	-	-	8.71	8.72	8.75	8.77	8.79	8.78
50	-	-	-	-	10.29	10.27	10.25	10.24	10.21
60	-	-	-	-	-	-	12.42	12.35	12.26

Mass flow in kg/h

10	104	132	166	206	253	-	-	-	-
20	100	129	163	203	251	308	375	-	-
30	-	-	158	198	246	302	370	449	542
40	-	-	-	190	237	294	360	439	531
50	-	-	-	-	226	281	347	425	516
60	-	-	-	-	-	-	329	406	495

Coefficient of performance (C.O.P.)

10	2.91	3.69	4.59	5.62	6.80	-	-	-	-
20	2.02	2.62	3.32	4.11	5.01	6.02	7.13	-	-
30	-	-	2.33	2.94	3.63	4.40	5.26	6.20	7.23
40	-	-	-	2.01	2.52	3.09	3.74	4.46	5.25
50	-	-	-	-	1.66	2.07	2.54	3.06	3.66
60	-	-	-	-	-	-	1.63	2.00	2.42

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

Cooling capacity	10 423	W
Power input	5 064	W
Current consumption	9.43	A
Mass flow	232	kg/h
C.O.P.	2.06	

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
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	6 396	8 070	10 083	12 485	15 323	-	-	-	-
20	5 657	7 255	9 155	11 407	14 059	17 157	20 745	-	-
30	4 864	6 352	8 104	10 172	12 604	15 451	18 758	22 566	26 907
40	-	-	6 969	8 818	10 997	13 558	16 550	20 019	24 006
50	-	-	-	7 383	9 275	11 516	14 159	17 255	20 854
60	-	-	-	-	7 475	9 362	11 620	14 309	17 487

Power input in W

10	2 192	2 182	2 189	2 210	2 242	-	-	-	-
20	2 826	2 790	2 776	2 782	2 808	2 849	2 905	-	-
30	3 671	3 588	3 536	3 511	3 511	3 534	3 579	3 642	3 722
40	-	-	4 579	4 504	4 462	4 449	4 465	4 506	4 570
50	-	-	-	5 873	5 770	5 704	5 672	5 673	5 704
60	-	-	-	-	7 546	7 407	7 311	7 254	7 234

Current consumption in A

10	6.52	6.47	6.45	6.44	6.44	-	-	-	-
20	6.99	6.96	6.96	6.98	7.01	7.04	7.05	-	-
30	7.70	7.66	7.65	7.67	7.70	7.74	7.77	7.80	7.79
40	-	-	8.72	8.71	8.72	8.75	8.77	8.79	8.78
50	-	-	-	10.33	10.29	10.27	10.25	10.24	10.21
60	-	-	-	-	12.60	12.51	12.42	12.35	12.26

Mass flow in kg/h

10	123	154	189	230	278	-	-	-	-
20	119	150	186	227	275	331	395	-	-
30	113	144	180	221	270	325	389	461	542
40	-	-	172	213	260	316	379	451	531
50	-	-	-	201	248	302	365	436	516
60	-	-	-	-	232	285	346	417	495

Coefficient of performance (C.O.P.)

10	2.92	3.70	4.61	5.65	6.83	-	-	-	-
20	2.00	2.60	3.30	4.10	5.01	6.02	7.14	-	-
30	1.33	1.77	2.29	2.90	3.59	4.37	5.24	6.20	7.23
40	-	-	1.52	1.96	2.46	3.05	3.71	4.44	5.25
50	-	-	-	1.26	1.61	2.02	2.50	3.04	3.66
60	-	-	-	-	0.99	1.26	1.59	1.97	2.42

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

Cooling capacity	10 148	W
Power input	5 064	W
Current consumption	9.43	A
Mass flow	255	kg/h
C.O.P.	2.00	

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