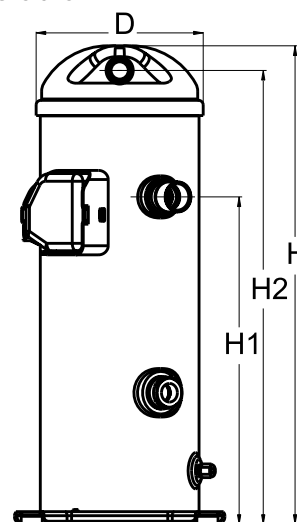


General Characteristics

Model number (on compressor nameplate)		MLZ076T4LC9A
Code number for Singlepack*		121L8655
Code number for Industrial pack**		121L8654
Drawing number		0SR6167B-3
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		None
Swept volume		162.43 cm ³ /rev
Displacement @ Nominal speed		28.3 m ³ /h @ 2900 rpm - 34.1 m ³ /h @ 3500 rpm
Net weight		47 kg
Oil charge		2.66 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		7.26 kg
Approved refrigerants		R404A, R134a, R407A, R407F, R448A, R449A

Dimensions

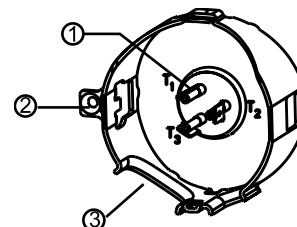


D=185 mm
H=545 mm
H1=369 mm
H2=509 mm
H3=- mm

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	1.125 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.11 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.1 Ω
Rated Load Amps (RLA)	19.2 A
Maximum Continuous Current (MCC)	25 A
Locked Rotor Amps (LRA)	140 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.

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side

Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
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.

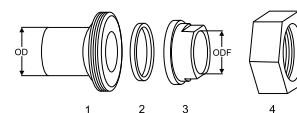
Acoustic hood	120Z5085
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

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	12 063	15 148	18 622	22 589	27 152	-	-	-	-
20	10 762	13 743	17 056	20 803	25 088	30 013	35 680	-	-
30	9 498	12 204	15 182	18 537	22 372	26 789	31 892	37 782	44 559
40	-	10 641	13 113	15 902	19 114	22 852	27 218	32 315	38 246
50	-	-	10 959	13 010	15 425	18 309	21 765	25 897	30 809
60	-	-	-	-	11 414	13 270	15 641	18 635	22 355

Power input in W

10	3 899	3 818	3 817	3 884	4 009	-	-	-	-
20	4 733	4 655	4 648	4 699	4 800	4 939	5 105	-	-
30	5 783	5 714	5 706	5 748	5 829	5 940	6 069	6 205	6 338
40	-	7 044	7 041	7 078	7 146	7 234	7 330	7 426	7 509
50	-	-	8 700	8 738	8 798	8 869	8 939	8 999	9 037
60	-	-	-	-	10 835	10 893	10 943	10 972	10 971

Current consumption in A

10	8.04	7.87	7.87	8.01	8.27	-	-	-	-
20	9.76	9.60	9.58	9.69	9.90	10.18	10.53	-	-
30	11.93	11.78	11.77	11.85	12.02	12.25	12.51	12.79	13.07
40	-	14.52	14.52	14.59	14.73	14.92	15.12	15.31	15.48
50	-	-	17.94	18.02	18.14	18.29	18.43	18.55	18.63
60	-	-	-	-	22.34	22.46	22.56	22.62	22.62

Mass flow in kg/h

10	238	312	387	470	566	-	-	-	-
20	214	295	375	462	561	679	820	-	-
30	208	291	374	462	561	676	814	980	1 180
40	-	289	370	456	551	661	792	950	1 141
50	-	-	350	430	517	619	740	887	1 065
60	-	-	-	-	447	537	646	778	941

Coefficient of performance (C.O.P.)

10	3.09	3.97	4.88	5.82	6.77	-	-	-	-
20	2.27	2.95	3.67	4.43	5.23	6.08	6.99	-	-
30	1.64	2.14	2.66	3.23	3.84	4.51	5.26	6.09	7.03
40	-	1.51	1.86	2.25	2.67	3.16	3.71	4.35	5.09
50	-	-	1.26	1.49	1.75	2.06	2.43	2.88	3.41
60	-	-	-	-	1.05	1.22	1.43	1.70	2.04

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

Cooling capacity	17 317	W
Power input	7 927	W
Current consumption	16.35	A
Mass flow	538	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	74	dB(A)
With acoustic hood	66	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	11 592	14 659	18 145	22 154	26 788	-	-	-	-
20	10 120	13 051	16 352	20 127	24 483	29 521	35 340	-	-
30	8 687	11 312	14 257	17 627	21 530	26 073	31 363	37 498	44 559
40	7 386	9 547	11 975	14 775	18 055	21 929	26 512	31 916	38 246
50	-	-	9 613	11 690	14 186	17 218	20 913	25 400	30 809
60	-	-	-	-	10 044	12 072	14 698	18 070	22 355

Power input in W

10	3 899	3 818	3 817	3 884	4 009	-	-	-	-
20	4 733	4 655	4 648	4 699	4 800	4 939	5 105	-	-
30	5 783	5 714	5 706	5 748	5 829	5 940	6 069	6 205	6 338
40	7 099	7 044	7 041	7 078	7 146	7 234	7 330	7 426	7 509
50	-	-	8 700	8 738	8 798	8 869	8 939	8 999	9 037
60	-	-	-	-	10 835	10 893	10 943	10 972	10 971

Current consumption in A

10	8.04	7.87	7.87	8.01	8.27	-	-	-	-
20	9.76	9.60	9.58	9.69	9.90	10.18	10.53	-	-
30	11.93	11.78	11.77	11.85	12.02	12.25	12.51	12.79	13.07
40	14.64	14.52	14.52	14.59	14.73	14.92	15.12	15.31	15.48
50	-	-	17.94	18.02	18.14	18.29	18.43	18.55	18.63
60	-	-	-	-	22.34	22.46	22.56	22.62	22.62

Mass flow in kg/h

10	284	364	444	529	625	-	-	-	-
20	255	344	431	520	620	733	866	-	-
30	247	341	430	520	619	731	859	1 009	1 180
40	243	338	425	513	608	714	836	978	1 141
50	-	-	402	484	571	669	782	913	1 065
60	-	-	-	-	494	581	682	801	941

Coefficient of performance (C.O.P.)

10	2.97	3.84	4.75	5.70	6.68	-	-	-	-
20	2.14	2.80	3.52	4.28	5.10	5.98	6.92	-	-
30	1.50	1.98	2.50	3.07	3.69	4.39	5.17	6.04	7.03
40	1.04	1.36	1.70	2.09	2.53	3.03	3.62	4.30	5.09
50	-	-	1.11	1.34	1.61	1.94	2.34	2.82	3.41
60	-	-	-	-	0.93	1.11	1.34	1.65	2.04

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

Cooling capacity	16 162	W
Power input	7 927	W
Current consumption	16.35	A
Mass flow	594	kg/h
C.O.P.	2.04	

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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	14 572	17 872	21 928	26 824	32 641	-	-	-	-
20	13 229	16 313	20 021	24 436	29 641	35 719	42 750	-	-
30	11 739	14 577	17 907	21 813	26 376	31 681	37 810	44 844	52 862
40	-	12 626	15 549	18 915	22 808	27 311	32 507	38 479	45 308
50	-	-	12 905	15 703	18 895	22 567	26 801	31 682	37 292
60	-	-	-	-	14 601	17 411	20 655	24 416	28 780

Power input in W

10	4 287	4 543	4 727	4 877	5 028	-	-	-	-
20	5 251	5 534	5 734	5 888	6 032	6 203	6 436	-	-
30	6 414	6 719	6 931	7 086	7 220	7 369	7 570	7 859	8 272
40	-	8 213	8 433	8 585	8 704	8 828	8 993	9 234	9 589
50	-	-	10 351	10 496	10 598	10 693	10 818	11 008	11 301
60	-	-	-	-	13 014	13 076	13 157	13 293	13 519

Current consumption in A

10	6.73	7.13	7.42	7.65	7.89	-	-	-	-
20	8.24	8.68	9.00	9.24	9.46	9.73	10.10	-	-
30	10.06	10.54	10.87	11.12	11.33	11.56	11.88	12.33	12.98
40	-	12.88	13.23	13.47	13.66	13.85	14.11	14.49	15.04
50	-	-	16.24	16.47	16.63	16.78	16.97	17.27	17.73
60	-	-	-	-	20.42	20.52	20.64	20.85	21.21

Mass flow in kg/h

10	274	359	452	557	679	-	-	-	-
20	272	355	446	550	671	812	980	-	-
30	272	352	440	541	659	798	962	1 156	1 384
40	-	346	430	527	641	776	936	1 126	1 349
50	-	-	412	504	613	742	897	1 082	1 300
60	-	-	-	-	571	694	843	1 021	1 233

Coefficient of performance (C.O.P.)

10	3.40	3.93	4.64	5.50	6.49	-	-	-	-
20	2.52	2.95	3.49	4.15	4.91	5.76	6.64	-	-
30	1.83	2.17	2.58	3.08	3.65	4.30	4.99	5.71	6.39
40	-	1.54	1.84	2.20	2.62	3.09	3.61	4.17	4.72
50	-	-	1.25	1.50	1.78	2.11	2.48	2.88	3.30
60	-	-	-	-	1.12	1.33	1.57	1.84	2.13

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

Cooling capacity	20 897	W
Power input	9 593	W
Current consumption	15.05	A
Mass flow	628	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	78	dB(A)
With acoustic hood	70	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	14 003	17 296	21 367	26 307	32 204	-	-	-	-
20	12 440	15 492	19 195	23 642	28 926	35 134	42 344	-	-
30	10 736	13 512	16 816	20 742	25 384	30 835	37 183	44 507	52 862
40	8 864	11 327	14 200	17 574	21 544	26 208	31 664	38 004	45 308
50	-	-	11 321	14 110	17 377	21 223	25 752	31 074	37 292
60	-	-	-	-	12 848	15 840	19 408	23 676	28 780

Power input in W

10	4 287	4 543	4 727	4 877	5 028	-	-	-	-
20	5 251	5 534	5 734	5 888	6 032	6 203	6 436	-	-
30	6 414	6 719	6 931	7 086	7 220	7 369	7 570	7 859	8 272
40	7 888	8 213	8 433	8 585	8 704	8 828	8 993	9 234	9 589
50	-	-	10 351	10 496	10 598	10 693	10 818	11 008	11 301
60	-	-	-	-	13 014	13 076	13 157	13 293	13 519

Current consumption in A

10	6.73	7.13	7.42	7.65	7.89	-	-	-	-
20	8.24	8.68	9.00	9.24	9.46	9.73	10.10	-	-
30	10.06	10.54	10.87	11.12	11.33	11.56	11.88	12.33	12.98
40	12.38	12.88	13.23	13.47	13.66	13.85	14.11	14.49	15.04
50	-	-	16.24	16.47	16.63	16.78	16.97	17.27	17.73
60	-	-	-	-	20.42	20.52	20.64	20.85	21.21

Mass flow in kg/h

10	327	420	518	627	750	-	-	-	-
20	325	415	512	619	740	878	1 035	-	-
30	324	412	505	609	727	862	1 016	1 190	1 384
40	321	404	494	594	707	838	988	1 159	1 349
50	-	-	473	568	676	802	948	1 114	1 300
60	-	-	-	-	630	750	890	1 051	1 233

Coefficient of performance (C.O.P.)

10	3.27	3.81	4.52	5.39	6.41	-	-	-	-
20	2.37	2.80	3.35	4.02	4.80	5.66	6.58	-	-
30	1.67	2.01	2.43	2.93	3.52	4.18	4.91	5.66	6.39
40	1.12	1.38	1.68	2.05	2.48	2.97	3.52	4.12	4.72
50	-	-	1.09	1.34	1.64	1.98	2.38	2.82	3.30
60	-	-	-	-	0.99	1.21	1.48	1.78	2.13

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

Cooling capacity	19 503	W
Power input	9 593	W
Current consumption	15.05	A
Mass flow	693	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	78	dB(A)
With acoustic hood	70	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	9 992	12 574	15 588	19 065	23 038	-	-	-	-
30	9 118	11 555	14 413	17 726	21 525	25 842	-	-	-
40	8 041	10 252	12 873	15 936	19 473	23 516	28 098	-	-
50	-	8 940	11 274	14 039	17 265	20 985	25 232	-	-
60	-	-	9 642	12 059	14 926	18 274	22 137	-	-
70	-	-	-	10 022	12 479	15 407	18 836	-	-
73	-	-	-	9 403	11 728	14 520	17 809	-	-

Power input in W

22	2 812	2 864	2 955	3 065	3 172	-	-	-	-
30	3 366	3 412	3 490	3 577	3 651	3 690	-	-	-
40	4 160	4 224	4 306	4 386	4 440	4 447	4 385	-	-
50	-	5 149	5 261	5 357	5 417	5 417	5 336	-	-
60	-	-	6 329	6 467	6 556	6 574	6 498	-	-
70	-	-	-	7 688	7 831	7 891	7 845	-	-
73	-	-	-	8 072	8 236	8 313	8 282	-	-

Current consumption in A

22	5.41	5.51	5.69	5.90	6.11	-	-	-	-
30	6.48	6.57	6.72	6.88	7.03	7.10	-	-	-
40	8.01	8.13	8.29	8.44	8.54	8.56	8.44	-	-
50	-	9.91	10.12	10.31	10.42	10.43	10.27	-	-
60	-	-	12.18	12.45	12.62	12.65	12.51	-	-
70	-	-	-	14.80	15.07	15.19	15.10	-	-
73	-	-	-	15.53	15.85	16.00	15.94	-	-

Mass flow in kg/h

22	214	265	323	388	461	-	-	-	-
30	210	262	320	386	460	542	-	-	-
40	205	256	315	381	456	540	633	-	-
50	-	250	308	374	449	534	629	-	-
60	-	-	299	365	440	525	620	-	-
70	-	-	-	353	427	512	607	-	-
73	-	-	-	349	423	507	603	-	-

Coefficient of performance (C.O.P.)

22	3.55	4.39	5.27	6.22	7.26	-	-	-	-
30	2.71	3.39	4.13	4.96	5.90	7.00	-	-	-
40	1.93	2.43	2.99	3.63	4.39	5.29	6.41	-	-
50	-	1.74	2.14	2.62	3.19	3.87	4.73	-	-
60	-	-	1.52	1.86	2.28	2.78	3.41	-	-
70	-	-	-	1.30	1.59	1.95	2.40	-	-
73	-	-	-	1.16	1.42	1.75	2.15	-	-

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

Cooling capacity	9 595	W
Power input	4 674	W
Current consumption	8.99	A
Mass flow	253	kg/h
C.O.P.	2.05	

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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	10 152	12 721	15 708	19 147	23 076	-	-	-	-
30	-	11 768	14 598	17 863	21 598	25 842	-	-	-
40	-	-	13 138	16 141	19 589	23 516	27 966	-	-
50	-	-	11 617	14 311	17 424	20 985	25 031	-	-
60	-	-	-	12 396	15 126	18 274	-	-	-
70	-	-	-	-	12 720	15 407	-	-	-
73	-	-	-	-	11 981	14 520	-	-	-

Power input in W

22	2 812	2 864	2 955	3 065	3 172	-	-	-	-
30	-	3 412	3 490	3 577	3 651	3 690	-	-	-
40	-	-	4 306	4 386	4 440	4 447	4 385	-	-
50	-	-	5 261	5 357	5 417	5 417	5 336	-	-
60	-	-	-	6 467	6 556	6 574	-	-	-
70	-	-	-	-	7 831	7 891	-	-	-
73	-	-	-	-	8 236	8 313	-	-	-

Current consumption in A

22	5.41	5.51	5.69	5.90	6.11	-	-	-	-
30	-	6.57	6.72	6.88	7.03	7.10	-	-	-
40	-	-	8.29	8.44	8.54	8.56	8.44	-	-
50	-	-	10.12	10.31	10.42	10.43	10.27	-	-
60	-	-	-	12.45	12.62	12.65	-	-	-
70	-	-	-	-	15.07	15.19	-	-	-
73	-	-	-	-	15.85	16.00	-	-	-

Mass flow in kg/h

22	193	243	302	371	450	-	-	-	-
30	-	240	300	369	449	542	-	-	-
40	-	-	295	364	446	540	650	-	-
50	-	-	288	358	439	534	645	-	-
60	-	-	-	348	429	525	-	-	-
70	-	-	-	-	417	512	-	-	-
73	-	-	-	-	413	507	-	-	-

Coefficient of performance (C.O.P.)

22	3.61	4.44	5.32	6.25	7.27	-	-	-	-
30	-	3.45	4.18	4.99	5.92	7.00	-	-	-
40	-	-	3.05	3.68	4.41	5.29	6.38	-	-
50	-	-	2.21	2.67	3.22	3.87	4.69	-	-
60	-	-	-	1.92	2.31	2.78	-	-	-
70	-	-	-	-	1.62	1.95	-	-	-
73	-	-	-	-	1.45	1.75	-	-	-

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	74	dB(A)
With acoustic hood	66	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	12 164	15 077	18 621	22 800	27 619	-	-	-	-
30	11 234	14 011	17 374	21 328	25 878	31 028	-	-	-
40	9 928	12 521	15 646	19 307	23 507	28 251	33 545	-	-
50	-	10 867	13 740	17 092	20 929	25 254	30 073	-	-
60	-	-	11 665	14 695	18 154	22 046	26 376	-	-
70	-	-	-	12 125	15 192	18 637	22 464	-	-
73	-	-	-	11 322	14 269	17 577	21 250	-	-

Power input in W

22	3 456	3 499	3 622	3 801	4 015	-	-	-	-
30	4 066	4 116	4 227	4 377	4 541	4 699	-	-	-
40	4 979	5 066	5 191	5 329	5 460	5 561	5 608	-	-
50	-	6 185	6 352	6 511	6 638	6 712	6 709	-	-
60	-	-	7 680	7 889	8 044	8 121	8 098	-	-
70	-	-	-	9 431	9 643	9 754	9 741	-	-
73	-	-	-	9 920	10 155	10 282	10 279	-	-

Current consumption in A

22	5.42	5.49	5.68	5.96	6.30	-	-	-	-
30	6.38	6.46	6.63	6.87	7.12	7.37	-	-	-
40	7.81	7.95	8.14	8.36	8.57	8.72	8.80	-	-
50	-	9.70	9.97	10.22	10.41	10.53	10.53	-	-
60	-	-	12.05	12.38	12.62	12.74	12.70	-	-
70	-	-	-	14.80	15.13	15.30	15.28	-	-
73	-	-	-	15.56	15.93	16.13	16.13	-	-

Mass flow in kg/h

22	261	321	389	465	551	-	-	-	-
30	257	318	387	465	552	649	-	-	-
40	250	312	383	462	550	649	757	-	-
50	-	304	375	455	544	644	753	-	-
60	-	-	364	444	534	634	744	-	-
70	-	-	-	430	520	620	731	-	-
73	-	-	-	425	515	615	725	-	-

Coefficient of performance (C.O.P.)

22	3.52	4.31	5.14	6.00	6.88	-	-	-	-
30	2.76	3.40	4.11	4.87	5.70	6.60	-	-	-
40	1.99	2.47	3.01	3.62	4.31	5.08	5.98	-	-
50	-	1.76	2.16	2.63	3.15	3.76	4.48	-	-
60	-	-	1.52	1.86	2.26	2.71	3.26	-	-
70	-	-	-	1.29	1.58	1.91	2.31	-	-
73	-	-	-	1.14	1.41	1.71	2.07	-	-

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

Cooling capacity	11 714	W
Power input	5 606	W
Current consumption	8.80	A
Mass flow	308	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	78	dB(A)
With acoustic hood	70	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	12 359	15 253	18 764	22 898	27 665	-	-	-	-
30	-	14 270	17 597	21 493	25 965	31 028	-	-	-
40	-	-	15 968	19 555	23 647	28 251	33 388	-	-
50	-	-	14 158	17 424	21 121	25 254	29 834	-	-
60	-	-	-	15 105	18 398	22 046	-	-	-
70	-	-	-	-	15 486	18 637	-	-	-
73	-	-	-	-	14 577	17 577	-	-	-

Power input in W

22	3 456	3 499	3 622	3 801	4 015	-	-	-	-
30	-	4 116	4 227	4 377	4 541	4 699	-	-	-
40	-	-	5 191	5 329	5 460	5 561	5 608	-	-
50	-	-	6 352	6 511	6 638	6 712	6 709	-	-
60	-	-	-	7 889	8 044	8 121	-	-	-
70	-	-	-	-	9 643	9 754	-	-	-
73	-	-	-	-	10 155	10 282	-	-	-

Current consumption in A

22	5.42	5.49	5.68	5.96	6.30	-	-	-	-
30	-	6.46	6.63	6.87	7.12	7.37	-	-	-
40	-	-	8.14	8.36	8.57	8.72	8.80	-	-
50	-	-	9.97	10.22	10.41	10.53	10.53	-	-
60	-	-	-	12.38	12.62	12.74	-	-	-
70	-	-	-	-	15.13	15.30	-	-	-
73	-	-	-	-	15.93	16.13	-	-	-

Mass flow in kg/h

22	235	294	364	445	538	-	-	-	-
30	-	292	363	445	539	649	-	-	-
40	-	-	358	441	538	649	777	-	-
50	-	-	351	435	532	644	773	-	-
60	-	-	-	424	522	634	-	-	-
70	-	-	-	-	508	620	-	-	-
73	-	-	-	-	503	615	-	-	-

Coefficient of performance (C.O.P.)

22	3.58	4.36	5.18	6.02	6.89	-	-	-	-
30	-	3.47	4.16	4.91	5.72	6.60	-	-	-
40	-	-	3.08	3.67	4.33	5.08	5.95	-	-
50	-	-	2.23	2.68	3.18	3.76	4.45	-	-
60	-	-	-	1.91	2.29	2.71	-	-	-
70	-	-	-	-	1.61	1.91	-	-	-
73	-	-	-	-	1.44	1.71	-	-	-

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	78	dB(A)
With acoustic hood	70	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	11 820	14 967	18 733	23 196	-	-	-	-	-
20	10 270	13 222	16 738	20 895	25 772	31 447	-	-	-
30	8 615	11 341	14 576	18 397	22 883	28 112	34 161	41 109	-
40	-	9 354	12 277	15 732	19 797	24 548	30 066	36 426	-
45	-	-	11 086	14 346	18 188	22 690	27 930	33 986	-
50	-	-	9 871	12 929	16 541	20 786	25 741	31 484	-
55	-	-	-	11 485	14 860	18 840	23 502	28 925	-
60	-	-	-	-	13 148	16 855	21 217	26 312	-

Power input in W

10	3 492	3 551	3 630	3 731	-	-	-	-	-
20	4 254	4 290	4 345	4 421	4 521	4 649	-	-	-
30	5 289	5 296	5 321	5 368	5 438	5 535	5 661	5 819	-
40	-	6 680	6 671	6 683	6 718	6 780	6 870	6 992	-
45	-	-	7 520	7 513	7 529	7 571	7 642	7 743	-
50	-	-	8 505	8 477	8 473	8 494	8 543	8 624	-
55	-	-	-	9 588	9 562	9 561	9 589	9 647	-
60	-	-	-	-	10 812	10 788	10 792	10 826	-

Current consumption in A

10	13.30	13.38	13.45	13.51	-	-	-	-	-
20	13.70	13.78	13.85	13.92	13.98	14.05	-	-	-
30	14.22	14.29	14.35	14.42	14.48	14.54	14.60	14.66	-
40	-	15.24	15.29	15.33	15.37	15.42	15.47	15.52	-
45	-	-	16.02	16.04	16.07	16.10	16.14	16.18	-
50	-	-	16.97	16.98	17.00	17.01	17.03	17.06	-
55	-	-	-	18.19	18.18	18.18	18.18	18.20	-
60	-	-	-	-	19.67	19.65	19.63	19.62	-

Mass flow in kg/h

10	230	288	355	433	-	-	-	-	-
20	218	276	344	422	512	616	-	-	-
30	201	260	328	406	497	601	719	854	-
40	-	238	306	385	476	580	698	833	-
45	-	-	293	372	463	567	686	821	-
50	-	-	279	358	448	552	671	806	-
55	-	-	-	341	432	536	655	790	-
60	-	-	-	-	414	518	637	771	-

Coefficient of performance (C.O.P.)

10	3.39	4.21	5.16	6.22	-	-	-	-	-
20	2.41	3.08	3.85	4.73	5.70	6.76	-	-	-
30	1.63	2.14	2.74	3.43	4.21	5.08	6.03	7.07	-
40	-	1.40	1.84	2.35	2.95	3.62	4.38	5.21	-
45	-	-	1.47	1.91	2.42	3.00	3.65	4.39	-
50	-	-	1.16	1.53	1.95	2.45	3.01	3.65	-
55	-	-	-	1.20	1.55	1.97	2.45	3.00	-
60	-	-	-	-	1.22	1.56	1.97	2.43	-

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

Cooling capacity	14 346	W
Power input	7 513	W
Current consumption	16.04	A
Mass flow	372	kg/h
C.O.P.	1.91	

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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	12 553	15 880	19 857	24 566	-	-	-	-	-
20	10 988	14 130	17 867	22 281	27 454	33 466	-	-	-
30	9 304	12 231	15 698	19 788	24 583	30 164	36 613	44 011	-
40	-	10 209	13 377	17 114	21 502	26 624	32 562	39 398	-
45	-	-	12 169	15 719	19 893	24 776	30 449	36 996	-
50	-	-	10 933	14 289	18 245	22 883	28 286	34 538	-
55	-	-	-	12 831	16 562	20 951	26 080	32 034	-
60	-	-	-	-	-	18 989	23 843	29 499	-

Power input in W

10	3 492	3 551	3 630	3 731	-	-	-	-	-
20	4 254	4 290	4 345	4 421	4 521	4 649	-	-	-
30	5 289	5 296	5 321	5 368	5 438	5 535	5 661	5 819	-
40	-	6 680	6 671	6 683	6 718	6 780	6 870	6 992	-
45	-	-	7 520	7 513	7 529	7 571	7 642	7 743	-
50	-	-	8 505	8 477	8 473	8 494	8 543	8 624	-
55	-	-	-	9 588	9 562	9 561	9 589	9 647	-
60	-	-	-	-	-	10 788	10 792	10 826	-

Current consumption in A

10	13.30	13.38	13.45	13.51	-	-	-	-	-
20	13.70	13.78	13.85	13.92	13.98	14.05	-	-	-
30	14.22	14.29	14.35	14.42	14.48	14.54	14.60	14.66	-
40	-	15.24	15.29	15.33	15.37	15.42	15.47	15.52	-
45	-	-	16.02	16.04	16.07	16.10	16.14	16.18	-
50	-	-	16.97	16.98	17.00	17.01	17.03	17.06	-
55	-	-	-	18.19	18.18	18.18	18.18	18.20	-
60	-	-	-	-	-	19.65	19.63	19.62	-

Mass flow in kg/h

10	229	287	353	431	-	-	-	-	-
20	217	275	342	420	509	612	-	-	-
30	200	258	326	404	494	597	715	848	-
40	-	237	305	383	473	576	694	828	-
45	-	-	292	370	460	564	682	816	-
50	-	-	277	356	446	549	667	801	-
55	-	-	-	339	430	533	651	785	-
60	-	-	-	-	-	515	633	767	-

Coefficient of performance (C.O.P.)

10	3.60	4.47	5.47	6.58	-	-	-	-	-
20	2.58	3.29	4.11	5.04	6.07	7.20	-	-	-
30	1.76	2.31	2.95	3.69	4.52	5.45	6.47	7.56	-
40	-	1.53	2.01	2.56	3.20	3.93	4.74	5.64	-
45	-	-	1.62	2.09	2.64	3.27	3.98	4.78	-
50	-	-	1.29	1.69	2.15	2.69	3.31	4.00	-
55	-	-	-	1.34	1.73	2.19	2.72	3.32	-
60	-	-	-	-	-	1.76	2.21	2.72	-

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

Cooling capacity	15 719	W
Power input	7 513	W
Current consumption	16.04	A
Mass flow	370	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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	14 276	18 111	22 712	28 170	-	-	-	-	-
20	12 448	15 983	20 203	25 202	31 070	37 901	-	-	-
30	10 614	13 834	17 661	22 186	27 502	33 700	40 872	49 111	-
40	-	11 671	15 090	19 128	23 877	29 429	35 875	43 308	-
45	-	-	13 795	17 585	22 045	27 268	33 347	40 372	-
50	-	-	12 495	16 032	20 201	25 092	30 799	37 413	-
55	-	-	-	14 471	18 344	22 901	28 233	34 432	-
60	-	-	-	-	16 477	20 695	25 649	31 430	-

Power input in W

10	3 947	4 026	4 063	4 022	-	-	-	-	-
20	4 846	4 925	5 015	5 080	5 083	4 987	-	-	-
30	6 088	6 090	6 155	6 246	6 328	6 363	6 317	6 151	-
40	-	7 723	7 684	7 723	7 805	7 893	7 951	7 942	-
45	-	-	8 657	8 641	8 694	8 779	8 859	8 899	-
50	-	-	9 803	9 713	9 716	9 778	9 861	9 930	-
55	-	-	-	10 962	10 897	10 917	10 984	11 062	-
60	-	-	-	-	12 263	12 220	12 250	12 319	-

Current consumption in A

10	11.14	11.09	11.12	11.22	-	-	-	-	-
20	12.09	12.04	12.07	12.15	12.27	12.41	-	-	-
30	13.02	12.97	12.99	13.06	13.16	13.27	13.36	13.42	-
40	-	14.16	14.17	14.23	14.30	14.38	14.43	14.44	-
45	-	-	14.94	14.99	15.05	15.11	15.14	15.12	-
50	-	-	15.88	15.92	15.97	16.01	16.02	15.98	-
55	-	-	-	17.04	17.08	17.10	17.09	17.02	-
60	-	-	-	-	18.42	18.42	18.39	18.30	-

Mass flow in kg/h

10	278	349	431	526	-	-	-	-	-
20	264	334	415	509	618	742	-	-	-
30	248	317	397	490	597	720	860	1 020	-
40	-	297	377	468	574	695	833	990	-
45	-	-	365	456	561	681	819	974	-
50	-	-	353	444	548	667	803	958	-
55	-	-	-	430	533	652	787	940	-
60	-	-	-	-	518	636	770	922	-

Coefficient of performance (C.O.P.)

10	3.62	4.50	5.59	7.00	-	-	-	-	-
20	2.57	3.25	4.03	4.96	6.11	7.60	-	-	-
30	1.74	2.27	2.87	3.55	4.35	5.30	6.47	7.98	-
40	-	1.51	1.96	2.48	3.06	3.73	4.51	5.45	-
45	-	-	1.59	2.03	2.54	3.11	3.76	4.54	-
50	-	-	1.27	1.65	2.08	2.57	3.12	3.77	-
55	-	-	-	1.32	1.68	2.10	2.57	3.11	-
60	-	-	-	-	1.34	1.69	2.09	2.55	-

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

Cooling capacity	17 585	W
Power input	8 641	W
Current consumption	14.99	A
Mass flow	456	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	78	dB(A)
With acoustic hood	70	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	15 161	19 215	24 074	29 833	-	-	-	-	-
20	13 318	17 080	21 566	26 874	33 098	40 334	-	-	-
30	11 463	14 919	19 021	23 863	29 544	36 159	43 806	52 578	-
40	-	12 739	16 442	20 808	25 934	31 917	38 854	46 842	-
45	-	-	15 143	19 267	24 112	29 775	36 354	43 947	-
50	-	-	13 839	17 719	22 281	27 623	33 844	41 041	-
55	-	-	-	16 167	20 446	25 467	31 330	38 133	-
60	-	-	-	-	-	23 315	28 823	35 236	-

Power input in W

10	3 947	4 026	4 063	4 022	-	-	-	-	-
20	4 846	4 925	5 015	5 080	5 083	4 987	-	-	-
30	6 088	6 090	6 155	6 246	6 328	6 363	6 317	6 151	-
40	-	7 723	7 684	7 723	7 805	7 893	7 951	7 942	-
45	-	-	8 657	8 641	8 694	8 779	8 859	8 899	-
50	-	-	9 803	9 713	9 716	9 778	9 861	9 930	-
55	-	-	-	10 962	10 897	10 917	10 984	11 062	-
60	-	-	-	-	-	12 220	12 250	12 319	-

Current consumption in A

10	11.14	11.09	11.12	11.22	-	-	-	-	-
20	12.09	12.04	12.07	12.15	12.27	12.41	-	-	-
30	13.02	12.97	12.99	13.06	13.16	13.27	13.36	13.42	-
40	-	14.16	14.17	14.23	14.30	14.38	14.43	14.44	-
45	-	-	14.94	14.99	15.05	15.11	15.14	15.12	-
50	-	-	15.88	15.92	15.97	16.01	16.02	15.98	-
55	-	-	-	17.04	17.08	17.10	17.09	17.02	-
60	-	-	-	-	-	18.42	18.39	18.30	-

Mass flow in kg/h

10	277	347	428	523	-	-	-	-	-
20	263	332	413	506	614	738	-	-	-
30	247	315	395	487	594	716	855	1 014	-
40	-	296	375	466	571	691	828	984	-
45	-	-	363	454	558	677	814	968	-
50	-	-	351	441	545	663	798	952	-
55	-	-	-	428	530	648	782	935	-
60	-	-	-	-	-	632	765	916	-

Coefficient of performance (C.O.P.)

10	3.84	4.77	5.93	7.42	-	-	-	-	-
20	2.75	3.47	4.30	5.29	6.51	8.09	-	-	-
30	1.88	2.45	3.09	3.82	4.67	5.68	6.93	8.55	-
40	-	1.65	2.14	2.69	3.32	4.04	4.89	5.90	-
45	-	-	1.75	2.23	2.77	3.39	4.10	4.94	-
50	-	-	1.41	1.82	2.29	2.83	3.43	4.13	-
55	-	-	-	1.47	1.88	2.33	2.85	3.45	-
60	-	-	-	-	-	1.91	2.35	2.86	-

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

Cooling capacity	19 267	W
Power input	8 641	W
Current consumption	14.99	A
Mass flow	454	kg/h
C.O.P.	2.23	

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	78	dB(A)
With acoustic hood	70	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	13 742	15 789	19 706	24 322	-	-	-	-	-
20	12 111	14 038	17 712	22 033	27 079	32 927	-	-	-
30	10 353	12 143	15 546	19 543	24 212	29 630	35 877	43 031	-
40	-	10 120	13 224	16 869	21 131	26 091	31 826	38 415	-
45	-	-	12 010	15 467	19 517	24 236	29 704	36 000	-
50	-	-	-	14 026	17 855	22 327	27 521	33 517	-
55	-	-	-	-	16 148	20 366	25 279	30 967	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	3 459	3 491	3 537	3 584	-	-	-	-	-
20	4 496	4 532	4 583	4 636	4 707	4 812	-	-	-
30	5 602	5 629	5 665	5 701	5 756	5 845	5 983	6 188	-
40	-	7 066	7 064	7 063	7 080	7 130	7 230	7 397	-
45	-	-	7 971	7 943	7 933	7 956	8 029	8 168	-
50	-	-	-	9 002	8 960	8 951	8 991	9 097	-
55	-	-	-	-	10 197	10 150	10 152	10 220	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	14.11	14.15	14.20	14.23	-	-	-	-	-
20	14.60	14.64	14.70	14.75	14.79	14.83	-	-	-
30	15.22	15.25	15.30	15.35	15.39	15.44	15.48	15.53	-
40	-	16.35	16.38	16.40	16.43	16.46	16.49	16.53	-
45	-	-	17.20	17.21	17.22	17.24	17.26	17.29	-
50	-	-	-	18.26	18.25	18.25	18.26	18.28	-
55	-	-	-	-	19.57	19.55	19.54	19.54	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	240	274	338	412	-	-	-	-	-
20	228	263	327	401	487	585	-	-	-
30	213	247	312	386	472	570	682	809	-
40	-	227	292	366	452	551	663	790	-
45	-	-	279	354	440	538	650	778	-
50	-	-	-	340	426	524	636	764	-
55	-	-	-	-	410	509	621	748	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.97	4.52	5.57	6.79	-	-	-	-	-
20	2.69	3.10	3.86	4.75	5.75	6.84	-	-	-
30	1.85	2.16	2.74	3.43	4.21	5.07	6.00	6.95	-
40	-	1.43	1.87	2.39	2.98	3.66	4.40	5.19	-
45	-	-	1.51	1.95	2.46	3.05	3.70	4.41	-
50	-	-	-	1.56	1.99	2.49	3.06	3.68	-
55	-	-	-	-	1.58	2.01	2.49	3.03	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	15 467	W
Power input	7 943	W
Current consumption	17.21	A
Mass flow	354	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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	14 524	16 680	20 802	25 657	-	-	-	-	-
20	12 877	14 918	18 807	23 376	28 706	34 880	-	-	-
30	11 091	13 001	16 628	20 883	25 847	31 604	38 234	45 821	-
40	-	10 942	14 281	18 194	22 766	28 079	34 216	41 259	-
45	-	-	13 049	16 782	21 149	26 231	32 112	38 875	-
50	-	-	-	15 328	19 484	24 331	29 952	36 432	-
55	-	-	-	-	-	22 386	27 745	33 940	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	3 459	3 491	3 537	3 584	-	-	-	-	-
20	4 496	4 532	4 583	4 636	4 707	4 812	-	-	-
30	5 602	5 629	5 665	5 701	5 756	5 845	5 983	6 188	-
40	-	7 066	7 064	7 063	7 080	7 130	7 230	7 397	-
45	-	-	7 971	7 943	7 933	7 956	8 029	8 168	-
50	-	-	-	9 002	8 960	8 951	8 991	9 097	-
55	-	-	-	-	-	10 150	10 152	10 220	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	14.11	14.15	14.20	14.23	-	-	-	-	-
20	14.60	14.64	14.70	14.75	14.79	14.83	-	-	-
30	15.22	15.25	15.30	15.35	15.39	15.44	15.48	15.53	-
40	-	16.35	16.38	16.40	16.43	16.46	16.49	16.53	-
45	-	-	17.20	17.21	17.22	17.24	17.26	17.29	-
50	-	-	-	18.26	18.25	18.25	18.26	18.28	-
55	-	-	-	-	-	19.55	19.54	19.54	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	239	272	336	409	-	-	-	-	-
20	227	261	325	399	484	581	-	-	-
30	212	246	310	384	469	567	678	804	-
40	-	226	290	364	449	547	658	785	-
45	-	-	278	352	437	535	646	772	-
50	-	-	-	338	423	521	632	759	-
55	-	-	-	-	-	506	617	743	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.20	4.78	5.88	7.16	-	-	-	-	-
20	2.86	3.29	4.10	5.04	6.10	7.25	-	-	-
30	1.98	2.31	2.94	3.66	4.49	5.41	6.39	7.40	-
40	-	1.55	2.02	2.58	3.22	3.94	4.73	5.58	-
45	-	-	1.64	2.11	2.67	3.30	4.00	4.76	-
50	-	-	-	1.70	2.17	2.72	3.33	4.00	-
55	-	-	-	-	-	2.21	2.73	3.32	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	16 782	W
Power input	7 943	W
Current consumption	17.21	A
Mass flow	352	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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	16 797	19 319	24 156	29 868	-	-	-	-	-
20	14 833	17 166	21 624	26 875	33 012	40 126	-	-	-
30	12 846	14 985	19 056	23 838	29 425	35 910	43 383	51 939	-
40	-	12 765	16 440	20 747	25 776	31 622	38 377	46 133	-
45	-	-	15 111	19 177	23 925	29 449	35 841	43 194	-
50	-	-	-	17 589	22 054	27 254	33 282	40 230	-
55	-	-	-	-	20 162	25 036	30 697	37 238	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	4 256	4 302	4 344	4 321	-	-	-	-	-
20	5 233	5 283	5 365	5 424	5 436	5 376	-	-	-
30	6 560	6 575	6 632	6 707	6 776	6 816	6 802	6 711	-
40	-	8 367	8 332	8 357	8 419	8 492	8 553	8 579	-
45	-	-	9 403	9 379	9 412	9 477	9 551	9 610	-
50	-	-	-	10 563	10 551	10 592	10 662	10 738	-
55	-	-	-	-	11 859	11 859	11 909	11 986	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	12.03	11.99	11.99	12.07	-	-	-	-	-
20	13.10	13.07	13.08	13.15	13.26	13.38	-	-	-
30	14.18	14.14	14.15	14.21	14.30	14.39	14.47	14.51	-
40	-	15.51	15.51	15.55	15.62	15.68	15.72	15.71	-
45	-	-	16.39	16.42	16.48	16.52	16.54	16.50	-
50	-	-	-	17.48	17.52	17.54	17.54	17.47	-
55	-	-	-	-	18.78	18.79	18.76	18.67	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	293	335	414	505	-	-	-	-	-
20	280	321	399	489	593	713	-	-	-
30	264	305	382	471	574	691	825	977	-
40	-	286	363	450	552	667	799	948	-
45	-	-	352	439	539	654	785	933	-
50	-	-	-	427	526	640	770	917	-
55	-	-	-	-	512	625	754	900	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.95	4.49	5.56	6.91	-	-	-	-	-
20	2.83	3.25	4.03	4.95	6.07	7.46	-	-	-
30	1.96	2.28	2.87	3.55	4.34	5.27	6.38	7.74	-
40	-	1.53	1.97	2.48	3.06	3.72	4.49	5.38	-
45	-	-	1.61	2.04	2.54	3.11	3.75	4.49	-
50	-	-	-	1.67	2.09	2.57	3.12	3.75	-
55	-	-	-	-	1.70	2.11	2.58	3.11	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	19 177	W
Power input	9 379	W
Current consumption	16.42	A
Mass flow	439	kg/h
C.O.P.	2.04	

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	78	dB(A)
With acoustic hood	70	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	17 752	20 408	25 500	31 507	-	-	-	-	-
20	15 772	18 243	22 961	28 513	34 996	42 506	-	-	-
30	13 762	16 044	20 382	25 473	31 414	38 302	46 234	55 306	-
40	-	13 801	17 753	22 377	27 771	34 032	41 259	49 548	-
45	-	-	16 418	20 807	25 926	31 873	38 746	46 644	-
50	-	-	-	19 222	24 066	29 700	36 221	43 729	-
55	-	-	-	-	-	27 520	33 692	40 813	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	4 256	4 302	4 344	4 321	-	-	-	-	-
20	5 233	5 283	5 365	5 424	5 436	5 376	-	-	-
30	6 560	6 575	6 632	6 707	6 776	6 816	6 802	6 711	-
40	-	8 367	8 332	8 357	8 419	8 492	8 553	8 579	-
45	-	-	9 403	9 379	9 412	9 477	9 551	9 610	-
50	-	-	-	10 563	10 551	10 592	10 662	10 738	-
55	-	-	-	-	-	11 859	11 909	11 986	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	12.03	11.99	11.99	12.07	-	-	-	-	-
20	13.10	13.07	13.08	13.15	13.26	13.38	-	-	-
30	14.18	14.14	14.15	14.21	14.30	14.39	14.47	14.51	-
40	-	15.51	15.51	15.55	15.62	15.68	15.72	15.71	-
45	-	-	16.39	16.42	16.48	16.52	16.54	16.50	-
50	-	-	-	17.48	17.52	17.54	17.54	17.47	-
55	-	-	-	-	-	18.79	18.76	18.67	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	292	333	412	502	-	-	-	-	-
20	278	319	397	487	590	708	-	-	-
30	263	303	380	469	570	687	820	970	-
40	-	285	360	448	548	663	794	942	-
45	-	-	350	436	536	650	780	927	-
50	-	-	-	424	523	636	765	911	-
55	-	-	-	-	-	621	749	894	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.17	4.74	5.87	7.29	-	-	-	-	-
20	3.01	3.45	4.28	5.26	6.44	7.91	-	-	-
30	2.10	2.44	3.07	3.80	4.64	5.62	6.80	8.24	-
40	-	1.65	2.13	2.68	3.30	4.01	4.82	5.78	-
45	-	-	1.75	2.22	2.75	3.36	4.06	4.85	-
50	-	-	-	1.82	2.28	2.80	3.40	4.07	-
55	-	-	-	-	-	2.32	2.83	3.41	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	20 807	W
Power input	9 379	W
Current consumption	16.42	A
Mass flow	436	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	78	dB(A)
With acoustic hood	70	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	9 264	11 758	14 749	18 311	22 516	-	-	-	-
20	8 170	10 592	13 461	16 851	20 836	25 490	30 887	-	-
30	-	-	11 928	15 085	18 787	23 110	28 126	33 909	40 534
40	-	-	-	13 081	16 439	20 367	24 940	30 232	36 315
50	-	-	-	-	13 858	17 331	21 399	26 137	31 617
60	-	-	-	-	-	-	17 571	21 692	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	-	-	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	-	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	-	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	-	-	10 891	10 805	10 787

Current consumption in A

10	14.45	14.49	14.52	14.53	14.56	-	-	-	-
20	14.79	14.84	14.87	14.89	14.93	14.98	15.06	-	-
30	-	-	15.44	15.45	15.47	15.52	15.59	15.70	15.86
40	-	-	-	16.47	16.46	16.47	16.52	16.60	16.74
50	-	-	-	-	18.15	18.11	18.11	18.15	18.24
60	-	-	-	-	-	-	20.63	20.61	20.64

Mass flow in kg/h

10	150	193	243	303	374	-	-	-	-
20	143	187	238	299	371	457	560	-	-
30	-	-	228	289	362	450	553	674	816
40	-	-	-	274	348	435	539	661	804
50	-	-	-	-	326	413	517	639	782
60	-	-	-	-	-	-	486	607	750

Coefficient of performance (C.O.P.)

10	2.65	3.37	4.19	5.12	6.12	-	-	-	-
20	1.87	2.44	3.11	3.87	4.72	5.63	6.56	-	-
30	-	-	2.21	2.81	3.49	4.25	5.06	5.90	6.75
40	-	-	-	1.93	2.44	3.03	3.68	4.39	5.14
50	-	-	-	-	1.60	2.03	2.52	3.07	3.67
60	-	-	-	-	-	-	1.61	2.01	2.46

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

Cooling capacity	15 173	W
Power input	7 610	W
Current consumption	17.20	A
Mass flow	338	kg/h
C.O.P.	1.99	

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	9 302	11 816	14 832	18 424	22 662	-	-	-	-
20	8 099	10 524	13 405	16 816	20 831	25 519	30 944	-	-
30	6 787	9 057	11 737	14 903	18 631	22 993	28 060	33 891	40 534
40	-	-	9 904	12 760	16 135	20 107	24 750	30 133	36 315
50	-	-	-	10 462	13 419	16 935	21 088	25 958	31 617
60	-	-	-	-	10 558	13 549	17 146	21 436	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	5 525	5 453	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	6 885	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	8 773	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	11 230	11 036	10 891	10 805	10 787

Current consumption in A

10	14.45	14.49	14.52	14.53	14.56	-	-	-	-
20	14.79	14.84	14.87	14.89	14.93	14.98	15.06	-	-
30	15.39	15.42	15.44	15.45	15.47	15.52	15.59	15.70	15.86
40	-	-	16.48	16.47	16.46	16.47	16.52	16.60	16.74
50	-	-	-	18.20	18.15	18.11	18.11	18.15	18.24
60	-	-	-	-	20.80	20.70	20.63	20.61	20.64

Mass flow in kg/h

10	178	225	278	339	411	-	-	-	-
20	169	217	271	334	407	492	589	-	-
30	157	205	260	324	398	483	582	693	816
40	-	-	243	307	381	468	567	679	804
50	-	-	-	284	358	444	543	656	782
60	-	-	-	-	326	412	511	623	750

Coefficient of performance (C.O.P.)

10	2.66	3.38	4.22	5.15	6.16	-	-	-	-
20	1.86	2.43	3.10	3.86	4.72	5.63	6.58	-	-
30	1.23	1.66	2.17	2.77	3.46	4.22	5.05	5.90	6.75
40	-	-	1.44	1.88	2.39	2.99	3.65	4.38	5.14
50	-	-	-	1.19	1.55	1.98	2.48	3.05	3.67
60	-	-	-	-	0.94	1.23	1.57	1.98	2.46

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

Cooling capacity	14 800	W
Power input	7 610	W
Current consumption	17.20	A
Mass flow	371	kg/h
C.O.P.	1.94	

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

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	9 264	11 758	14 749	18 311	22 516	-	-	-	-
20	8 170	10 592	13 461	16 851	20 836	25 490	30 887	-	-
30	-	-	11 928	15 085	18 787	23 110	28 126	33 909	40 534
40	-	-	-	13 081	16 439	20 367	24 940	30 232	36 315
50	-	-	-	-	13 858	17 331	21 399	26 137	31 617
60	-	-	-	-	-	-	17 571	21 692	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	-	-	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	-	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	-	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	-	-	10 891	10 805	10 787

Current consumption in A

10	14.45	14.49	14.52	14.53	14.56	-	-	-	-
20	14.79	14.84	14.87	14.89	14.93	14.98	15.06	-	-
30	-	-	15.44	15.45	15.47	15.52	15.59	15.70	15.86
40	-	-	-	16.47	16.46	16.47	16.52	16.60	16.74
50	-	-	-	-	18.15	18.11	18.11	18.15	18.24
60	-	-	-	-	-	-	20.63	20.61	20.64

Mass flow in kg/h

10	150	193	243	303	374	-	-	-	-
20	143	187	238	299	371	457	560	-	-
30	-	-	228	289	362	450	553	674	816
40	-	-	-	274	348	435	539	661	804
50	-	-	-	-	326	413	517	639	782
60	-	-	-	-	-	-	486	607	750

Coefficient of performance (C.O.P.)

10	2.65	3.37	4.19	5.12	6.12	-	-	-	-
20	1.87	2.44	3.11	3.87	4.72	5.63	6.56	-	-
30	-	-	2.21	2.81	3.49	4.25	5.06	5.90	6.75
40	-	-	-	1.93	2.44	3.03	3.68	4.39	5.14
50	-	-	-	-	1.60	2.03	2.52	3.07	3.67
60	-	-	-	-	-	-	1.61	2.01	2.46

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

Cooling capacity	15 173	W
Power input	7 610	W
Current consumption	17.20	A
Mass flow	338	kg/h
C.O.P.	1.99	

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	9 282	11 794	14 810	18 401	22 640	-	-	-	-
20	8 078	10 501	13 380	16 792	20 808	25 499	30 928	-	-
30	6 766	9 033	11 711	14 877	18 606	22 971	28 042	33 880	40 534
40	-	-	9 878	12 733	16 109	20 083	24 731	30 122	36 315
50	-	-	-	10 435	13 392	16 910	21 068	25 946	31 617
60	-	-	-	-	10 531	13 525	17 125	21 424	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	5 525	5 453	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	6 885	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	8 773	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	11 230	11 036	10 891	10 805	10 787

Current consumption in A

10	14.45	14.49	14.52	14.53	14.56	-	-	-	-
20	14.79	14.84	14.87	14.89	14.93	14.98	15.06	-	-
30	15.39	15.42	15.44	15.45	15.47	15.52	15.59	15.70	15.86
40	-	-	16.48	16.47	16.46	16.47	16.52	16.60	16.74
50	-	-	-	18.20	18.15	18.11	18.11	18.15	18.24
60	-	-	-	-	20.80	20.70	20.63	20.61	20.64

Mass flow in kg/h

10	178	225	278	339	411	-	-	-	-
20	169	217	271	334	407	492	589	-	-
30	157	205	260	324	398	483	582	693	816
40	-	-	243	307	381	468	567	679	804
50	-	-	-	284	358	444	543	656	782
60	-	-	-	-	326	412	511	623	750

Coefficient of performance (C.O.P.)

10	2.66	3.38	4.21	5.15	6.15	-	-	-	-
20	1.85	2.42	3.09	3.86	4.71	5.63	6.57	-	-
30	1.22	1.66	2.17	2.77	3.46	4.22	5.04	5.90	6.75
40	-	-	1.43	1.87	2.39	2.98	3.65	4.38	5.14
50	-	-	-	1.19	1.55	1.98	2.48	3.05	3.67
60	-	-	-	-	0.94	1.23	1.57	1.98	2.46

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

Cooling capacity	14 773	W
Power input	7 610	W
Current consumption	17.20	A
Mass flow	371	kg/h
C.O.P.	1.94	

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