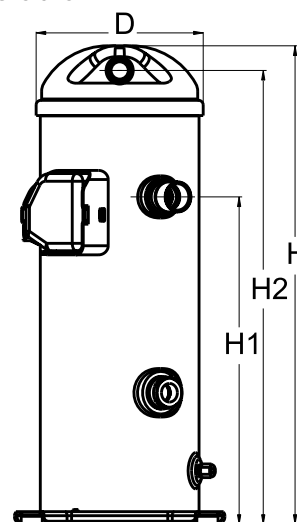


**General Characteristics**

Model number (on compressor nameplate)		<b>MLZ066T4LC9A</b>
Code number for Singlepack*		121L8657
Code number for Industrial pack**		121L8656
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		148.8 cm <sup>3</sup> /rev
Displacement @ Nominal speed		25.9 m <sup>3</sup> /h @ 2900 rpm - 31.3 m <sup>3</sup> /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**

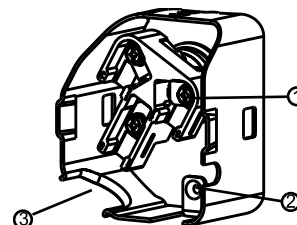


D=185 mm  
H=545 mm  
H1=369 mm  
H2=509 mm  
H3=- mm

**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	1.326 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.276 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.293 Ω
Rated Load Amps (RLA)	16 A
Maximum Continuous Current (MCC)	24 A
Locked Rotor Amps (LRA)	110 A
Motor protection	Internal overload protector

**Terminal box**



IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, -, -

\*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.**

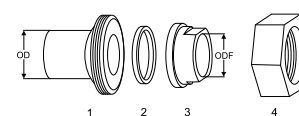
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012

**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	120Z5018

**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	10 258	12 783	15 844	19 491	23 775	-	-	-	-
20	9 062	11 434	14 265	17 607	21 511	26 026	31 202	-	-
30	7 827	10 010	12 576	15 577	19 063	23 086	27 694	32 939	38 872
40	-	8 516	10 781	13 405	16 439	19 933	23 937	28 502	33 678
50	-	-	8 886	11 097	13 643	16 572	19 936	23 785	28 169
60	-	-	-	-	10 679	13 008	15 696	18 793	22 350

**Power input in W**

10	3 238	3 262	3 314	3 401	3 527	-	-	-	-
20	3 992	3 993	4 019	4 075	4 165	4 294	4 468	-	-
30	4 937	4 924	4 930	4 961	5 022	5 117	5 252	5 431	5 660
40	-	6 184	6 179	6 193	6 231	6 299	6 402	6 545	6 731
50	-	-	7 896	7 900	7 923	7 972	8 050	8 163	8 315
60	-	-	-	-	10 230	10 266	10 327	10 417	10 542

**Current consumption in A**

10	9.98	9.89	9.82	9.78	9.76	-	-	-	-
20	10.68	10.65	10.65	10.67	10.71	10.77	10.85	-	-
30	11.41	11.42	11.46	11.51	11.58	11.67	11.77	11.89	12.01
40	-	12.59	12.63	12.69	12.76	12.85	12.95	13.07	13.19
50	-	-	14.57	14.60	14.64	14.70	14.78	14.86	14.94
60	-	-	-	-	17.62	17.62	17.63	17.65	17.67

**Mass flow in kg/h**

10	205	260	323	399	489	-	-	-	-
20	198	253	317	393	483	590	716	-	-
30	190	244	308	383	473	579	704	851	1 022
40	-	233	296	371	459	564	687	833	1 002
50	-	-	281	355	441	545	666	810	976
60	-	-	-	-	420	521	641	782	946

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

10	3.17	3.92	4.78	5.73	6.74	-	-	-	-
20	2.27	2.86	3.55	4.32	5.17	6.06	6.98	-	-
30	1.59	2.03	2.55	3.14	3.80	4.51	5.27	6.06	6.87
40	-	1.38	1.74	2.16	2.64	3.16	3.74	4.36	5.00
50	-	-	1.13	1.40	1.72	2.08	2.48	2.91	3.39
60	-	-	-	-	1.04	1.27	1.52	1.80	2.12

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

Cooling capacity	15 062	W
Power input	7 009	W
Current consumption	13.59	A
Mass flow	451	kg/h
C.O.P.	2.15	


**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	9 858	12 371	15 439	19 116	23 457	-	-	-	-
20	8 522	10 858	13 677	17 036	20 992	25 599	30 906	-	-
30	7 159	9 278	11 809	14 812	18 346	22 469	27 235	32 692	38 872
40	5 777	7 640	9 846	12 455	15 528	19 128	23 316	28 150	33 678
50	-	-	7 795	9 972	12 546	15 585	19 156	23 328	28 169
60	-	-	-	-	9 398	11 835	14 749	18 224	22 350

**Power input in W**

10	3 238	3 262	3 314	3 401	3 527	-	-	-	-
20	3 992	3 993	4 019	4 075	4 165	4 294	4 468	-	-
30	4 937	4 924	4 930	4 961	5 022	5 117	5 252	5 431	5 660
40	6 205	6 184	6 179	6 193	6 231	6 299	6 402	6 545	6 731
50	-	-	7 896	7 900	7 923	7 972	8 050	8 163	8 315
60	-	-	-	-	10 230	10 266	10 327	10 417	10 542

**Current consumption in A**

10	9.98	9.89	9.82	9.78	9.76	-	-	-	-
20	10.68	10.65	10.65	10.67	10.71	10.77	10.85	-	-
30	11.41	11.42	11.46	11.51	11.58	11.67	11.77	11.89	12.01
40	12.57	12.59	12.63	12.69	12.76	12.85	12.95	13.07	13.19
50	-	-	14.57	14.60	14.64	14.70	14.78	14.86	14.94
60	-	-	-	-	17.62	17.62	17.63	17.65	17.67

**Mass flow in kg/h**

10	244	304	371	450	540	-	-	-	-
20	236	296	364	443	533	637	756	-	-
30	226	286	354	432	522	625	743	876	1 022
40	213	273	340	417	507	609	726	857	1 002
50	-	-	323	399	487	588	704	833	976
60	-	-	-	-	464	563	677	805	946

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

10	3.04	3.79	4.66	5.62	6.65	-	-	-	-
20	2.13	2.72	3.40	4.18	5.04	5.96	6.92	-	-
30	1.45	1.88	2.40	2.99	3.65	4.39	5.19	6.02	6.87
40	0.93	1.24	1.59	2.01	2.49	3.04	3.64	4.30	5.00
50	-	-	0.99	1.26	1.58	1.95	2.38	2.86	3.39
60	-	-	-	-	0.92	1.15	1.43	1.75	2.12

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

Cooling capacity	14 057	W
Power input	7 009	W
Current consumption	13.59	A
Mass flow	498	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	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	12 775	15 593	19 110	23 365	28 395	-	-	-	-
20	11 541	14 159	17 377	21 232	25 761	31 001	36 990	-	-
30	10 197	12 600	15 501	18 938	22 950	27 573	32 845	38 801	45 478
40	-	10 892	13 460	16 463	19 941	23 930	28 468	33 593	39 340
50	-	-	11 233	13 786	16 712	20 051	23 839	28 116	32 918
60	-	-	-	-	13 244	15 916	18 938	22 351	26 194

**Power input in W**

10	3 895	3 971	4 090	4 238	4 401	-	-	-	-
20	4 796	4 865	4 981	5 130	5 297	5 469	5 631	-	-
30	5 903	5 953	6 053	6 190	6 350	6 517	6 678	6 819	6 925
40	-	7 316	7 388	7 501	7 640	7 791	7 939	8 071	8 171
50	-	-	9 069	9 146	9 252	9 374	9 497	9 607	9 689
60	-	-	-	-	11 267	11 347	11 432	11 508	11 561

**Current consumption in A**

10	6.11	6.23	6.42	6.65	6.90	-	-	-	-
20	7.52	7.63	7.81	8.05	8.31	8.58	8.83	-	-
30	9.26	9.34	9.50	9.71	9.96	10.22	10.48	10.70	10.86
40	-	11.48	11.59	11.77	11.99	12.22	12.46	12.66	12.82
50	-	-	14.23	14.35	14.52	14.71	14.90	15.07	15.20
60	-	-	-	-	17.68	17.80	17.94	18.06	18.14

**Mass flow in kg/h**

10	232	304	384	476	586	-	-	-	-
20	238	308	386	475	580	705	853	-	-
30	237	307	383	470	572	693	837	1 006	1 206
40	-	299	374	460	561	679	818	984	1 179
50	-	-	360	446	545	661	798	960	1 151
60	-	-	-	-	524	640	775	935	1 123

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

10	3.28	3.93	4.67	5.51	6.45	-	-	-	-
20	2.41	2.91	3.49	4.14	4.86	5.67	6.57	-	-
30	1.73	2.12	2.56	3.06	3.61	4.23	4.92	5.69	6.57
40	-	1.49	1.82	2.19	2.61	3.07	3.59	4.16	4.81
50	-	-	1.24	1.51	1.81	2.14	2.51	2.93	3.40
60	-	-	-	-	1.18	1.40	1.66	1.94	2.27

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

Cooling capacity	18 355	W
Power input	8 401	W
Current consumption	13.18	A
Mass flow	553	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	12 276	15 090	18 621	22 915	28 015	-	-	-	-
20	10 853	13 447	16 660	20 542	25 139	30 493	36 638	-	-
30	9 326	11 679	14 556	18 008	22 086	26 836	32 300	38 510	45 478
40	7 683	9 772	12 293	15 296	18 836	22 964	27 730	33 178	39 340
50	-	-	9 854	12 388	15 370	18 857	22 906	27 576	32 918
60	-	-	-	-	11 655	14 480	17 795	21 674	26 194

**Power input in W**

10	3 895	3 971	4 090	4 238	4 401	-	-	-	-
20	4 796	4 865	4 981	5 130	5 297	5 469	5 631	-	-
30	5 903	5 953	6 053	6 190	6 350	6 517	6 678	6 819	6 925
40	7 297	7 316	7 388	7 501	7 640	7 791	7 939	8 071	8 171
50	-	-	9 069	9 146	9 252	9 374	9 497	9 607	9 689
60	-	-	-	-	11 267	11 347	11 432	11 508	11 561

**Current consumption in A**

10	6.11	6.23	6.42	6.65	6.90	-	-	-	-
20	7.52	7.63	7.81	8.05	8.31	8.58	8.83	-	-
30	9.26	9.34	9.50	9.71	9.96	10.22	10.48	10.70	10.86
40	11.45	11.48	11.59	11.77	11.99	12.22	12.46	12.66	12.82
50	-	-	14.23	14.35	14.52	14.71	14.90	15.07	15.20
60	-	-	-	-	17.68	17.80	17.94	18.06	18.14

**Mass flow in kg/h**

10	277	355	441	537	646	-	-	-	-
20	284	360	443	535	641	762	901	-	-
30	283	359	440	530	632	749	883	1 036	1 206
40	273	349	430	519	619	733	864	1 013	1 179
50	-	-	413	502	601	714	843	989	1 151
60	-	-	-	-	579	691	819	963	1 123

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

10	3.15	3.80	4.55	5.41	6.37	-	-	-	-
20	2.26	2.76	3.34	4.00	4.75	5.58	6.51	-	-
30	1.58	1.96	2.40	2.91	3.48	4.12	4.84	5.65	6.57
40	1.05	1.34	1.66	2.04	2.47	2.95	3.49	4.11	4.81
50	-	-	1.09	1.35	1.66	2.01	2.41	2.87	3.40
60	-	-	-	-	1.03	1.28	1.56	1.88	2.27

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

Cooling capacity	17 131	W
Power input	8 401	W
Current consumption	13.18	A
Mass flow	611	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

**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	8 949	11 199	13 879	17 015	20 638	-	-	-	-
30	8 219	10 350	12 884	15 850	19 275	23 190	-	-	-
40	7 244	9 206	11 539	14 272	17 433	21 051	25 153	-	-
50	-	7 999	10 109	12 588	15 463	18 762	22 515	-	-
60	-	-	8 621	10 824	13 391	16 351	19 732	-	-
70	-	-	-	9 008	11 246	13 845	16 833	-	-
73	-	-	-	8 457	10 593	13 079	15 944	-	-

**Power input in W**

22	2 470	2 521	2 597	2 688	2 784	-	-	-	-
30	2 956	3 006	3 070	3 137	3 198	3 241	-	-	-
40	3 640	3 714	3 787	3 849	3 889	3 898	3 864	-	-
50	-	4 510	4 619	4 702	4 750	4 750	4 694	-	-
60	-	-	5 539	5 671	5 752	5 772	5 721	-	-
70	-	-	-	6 729	6 871	6 937	6 917	-	-
73	-	-	-	7 060	7 225	7 311	7 305	-	-

**Current consumption in A**

22	4.75	4.85	5.00	5.17	5.36	-	-	-	-
30	5.69	5.78	5.91	6.04	6.15	6.24	-	-	-
40	7.01	7.15	7.29	7.41	7.49	7.50	7.44	-	-
50	-	8.68	8.89	9.05	9.14	9.14	9.03	-	-
60	-	-	10.66	10.91	11.07	11.11	11.01	-	-
70	-	-	-	12.95	13.22	13.35	13.31	-	-
73	-	-	-	13.59	13.91	14.07	14.06	-	-

**Mass flow in kg/h**

22	192	237	289	347	413	-	-	-	-
30	190	235	287	346	413	487	-	-	-
40	187	231	282	342	409	485	569	-	-
50	-	225	276	335	403	479	564	-	-
60	-	-	268	327	394	471	556	-	-
70	-	-	-	316	383	460	546	-	-
73	-	-	-	313	380	456	542	-	-

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

22	3.62	4.44	5.34	6.33	7.41	-	-	-	-
30	2.78	3.44	4.20	5.05	6.03	7.15	-	-	-
40	1.99	2.48	3.05	3.71	4.48	5.40	6.51	-	-
50	-	1.77	2.19	2.68	3.26	3.95	4.80	-	-
60	-	-	1.56	1.91	2.33	2.83	3.45	-	-
70	-	-	-	1.34	1.64	2.00	2.43	-	-
73	-	-	-	1.20	1.47	1.79	2.18	-	-

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

Cooling capacity	8 609	W
Power input	4 102	W
Current consumption	7.89	A
Mass flow	228	kg/h
C.O.P.	2.10	

**Pressure switch settings**

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

**Sound power data**

Sound power level	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	9 092	11 330	13 986	17 089	20 672	-	-	-	-
30	-	10 541	13 049	15 972	19 340	23 190	-	-	-
40	-	-	11 777	14 456	17 537	21 051	25 036	-	-
50	-	-	10 417	12 832	15 605	18 762	22 335	-	-
60	-	-	-	11 126	13 571	16 351	-	-	-
70	-	-	-	-	11 463	13 845	-	-	-
73	-	-	-	-	10 821	13 079	-	-	-

**Power input in W**

22	2 470	2 521	2 597	2 688	2 784	-	-	-	-
30	-	3 006	3 070	3 137	3 198	3 241	-	-	-
40	-	-	3 787	3 849	3 889	3 898	3 864	-	-
50	-	-	4 619	4 702	4 750	4 750	4 694	-	-
60	-	-	-	5 671	5 752	5 772	-	-	-
70	-	-	-	-	6 871	6 937	-	-	-
73	-	-	-	-	7 225	7 311	-	-	-

**Current consumption in A**

22	4.75	4.85	5.00	5.17	5.36	-	-	-	-
30	-	5.78	5.91	6.04	6.15	6.24	-	-	-
40	-	-	7.29	7.41	7.49	7.50	7.44	-	-
50	-	-	8.89	9.05	9.14	9.14	9.03	-	-
60	-	-	-	10.91	11.07	11.11	-	-	-
70	-	-	-	-	13.22	13.35	-	-	-
73	-	-	-	-	13.91	14.07	-	-	-

**Mass flow in kg/h**

22	173	217	270	332	404	-	-	-	-
30	-	216	269	331	403	487	-	-	-
40	-	-	264	327	400	485	584	-	-
50	-	-	258	320	394	479	579	-	-
60	-	-	-	312	385	471	-	-	-
70	-	-	-	-	374	460	-	-	-
73	-	-	-	-	371	456	-	-	-

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

22	3.68	4.49	5.39	6.36	7.42	-	-	-	-
30	-	3.51	4.25	5.09	6.05	7.15	-	-	-
40	-	-	3.11	3.76	4.51	5.40	6.48	-	-
50	-	-	2.26	2.73	3.29	3.95	4.76	-	-
60	-	-	-	1.96	2.36	2.83	-	-	-
70	-	-	-	-	1.67	2.00	-	-	-
73	-	-	-	-	1.50	1.79	-	-	-

**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	10 825	13 492	16 668	20 369	24 616	-	-	-	-
30	9 964	12 508	15 529	19 047	23 081	27 648	-	-	-
40	8 776	11 141	13 946	17 210	20 952	25 190	29 944	-	-
50	-	9 656	12 218	15 201	18 624	22 507	26 867	-	-
60	-	-	10 380	13 056	16 134	19 633	23 573	-	-
70	-	-	-	10 810	13 515	16 605	20 097	-	-
73	-	-	-	10 121	12 710	15 671	19 024	-	-

**Power input in W**

22	3 005	3 058	3 164	3 313	3 492	-	-	-	-
30	3 527	3 599	3 704	3 829	3 965	4 100	-	-	-
40	4 274	4 400	4 531	4 658	4 768	4 851	4 895	-	-
50	-	5 326	5 517	5 676	5 793	5 856	5 854	-	-
60	-	-	6 646	6 870	7 026	7 101	7 086	-	-
70	-	-	-	8 226	8 453	8 573	8 576	-	-
73	-	-	-	8 662	8 917	9 056	9 071	-	-

**Current consumption in A**

22	4.71	4.80	4.96	5.20	5.48	-	-	-	-
30	5.53	5.65	5.81	6.01	6.22	6.43	-	-	-
40	6.71	6.90	7.11	7.31	7.48	7.61	7.68	-	-
50	-	8.36	8.66	8.91	9.09	9.19	9.18	-	-
60	-	-	10.43	10.78	11.02	11.14	11.12	-	-
70	-	-	-	12.91	13.26	13.45	13.45	-	-
73	-	-	-	13.59	13.99	14.21	14.23	-	-

**Mass flow in kg/h**

22	234	285	346	416	493	-	-	-	-
30	232	284	346	417	496	582	-	-	-
40	225	279	342	413	493	581	676	-	-
50	-	269	333	405	486	574	670	-	-
60	-	-	321	394	475	564	660	-	-
70	-	-	-	381	462	551	647	-	-
73	-	-	-	377	458	547	643	-	-

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

22	3.60	4.41	5.27	6.15	7.05	-	-	-	-
30	2.83	3.48	4.19	4.97	5.82	6.74	-	-	-
40	2.05	2.53	3.08	3.69	4.39	5.19	6.12	-	-
50	-	1.81	2.21	2.68	3.21	3.84	4.59	-	-
60	-	-	1.56	1.90	2.30	2.76	3.33	-	-
70	-	-	-	1.31	1.60	1.94	2.34	-	-
73	-	-	-	1.17	1.43	1.73	2.10	-	-

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

Cooling capacity	10 411	W
Power input	4 848	W
Current consumption	7.61	A
Mass flow	274	kg/h
C.O.P.	2.15	

**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	10 998	13 650	16 796	20 457	24 657	-	-	-	-
30	-	12 740	15 729	19 195	23 158	27 648	-	-	-
40	-	-	14 233	17 432	21 077	25 190	29 804	-	-
50	-	-	12 590	15 496	18 796	22 507	26 653	-	-
60	-	-	-	13 420	16 350	19 633	-	-	-
70	-	-	-	-	13 776	16 605	-	-	-
73	-	-	-	-	12 984	15 671	-	-	-

**Power input in W**

22	3 005	3 058	3 164	3 313	3 492	-	-	-	-
30	-	3 599	3 704	3 829	3 965	4 100	-	-	-
40	-	-	4 531	4 658	4 768	4 851	4 895	-	-
50	-	-	5 517	5 676	5 793	5 856	5 854	-	-
60	-	-	-	6 870	7 026	7 101	-	-	-
70	-	-	-	-	8 453	8 573	-	-	-
73	-	-	-	-	8 917	9 056	-	-	-

**Current consumption in A**

22	4.71	4.80	4.96	5.20	5.48	-	-	-	-
30	-	5.65	5.81	6.01	6.22	6.43	-	-	-
40	-	-	7.11	7.31	7.48	7.61	7.68	-	-
50	-	-	8.66	8.91	9.09	9.19	9.18	-	-
60	-	-	-	10.78	11.02	11.14	-	-	-
70	-	-	-	-	13.26	13.45	-	-	-
73	-	-	-	-	13.99	14.21	-	-	-

**Mass flow in kg/h**

22	210	262	324	397	482	-	-	-	-
30	-	261	324	398	484	582	-	-	-
40	-	-	320	395	482	581	694	-	-
50	-	-	312	387	475	574	688	-	-
60	-	-	-	377	464	564	-	-	-
70	-	-	-	-	452	551	-	-	-
73	-	-	-	-	447	547	-	-	-

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

22	3.66	4.46	5.31	6.18	7.06	-	-	-	-
30	-	3.54	4.25	5.01	5.84	6.74	-	-	-
40	-	-	3.14	3.74	4.42	5.19	6.09	-	-
50	-	-	2.28	2.73	3.24	3.84	4.55	-	-
60	-	-	-	1.95	2.33	2.76	-	-	-
70	-	-	-	-	1.63	1.94	-	-	-
73	-	-	-	-	1.46	1.73	-	-	-

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

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

Sound power level	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	10 412	13 144	16 428	20 329	-	-	-	-	-
20	9 228	11 781	14 831	18 444	22 686	27 624	-	-	-
30	7 966	10 313	13 102	16 400	20 273	24 786	30 006	35 998	-
40	6 653	8 765	11 266	14 222	17 697	21 759	26 473	31 906	-
45	-	7 970	10 317	13 090	16 357	20 183	24 634	29 776	-
50	-	-	9 350	11 935	14 986	18 569	22 750	27 595	-
55	-	-	-	10 759	13 587	16 921	20 825	25 365	-
60	-	-	-	-	12 164	15 241	18 861	23 091	-

**Power input in W**

10	2 999	3 090	3 138	3 114	-	-	-	-	-
20	3 661	3 767	3 875	3 954	3 972	3 899	-	-	-
30	4 599	4 650	4 745	4 854	4 946	4 990	4 956	4 812	-
40	6 027	5 949	5 958	6 025	6 119	6 209	6 263	6 251	-
45	-	6 820	6 760	6 779	6 846	6 931	7 003	7 029	-
50	-	-	7 727	7 680	7 703	7 765	7 835	7 883	-
55	-	-	-	8 754	8 714	8 736	8 787	8 837	-
60	-	-	-	-	9 908	9 870	9 884	9 919	-

**Current consumption in A**

10	10.84	10.88	10.95	11.05	-	-	-	-	-
20	10.03	10.07	10.14	10.23	10.32	10.41	-	-	-
30	10.36	10.39	10.47	10.56	10.66	10.74	10.81	10.83	-
40	11.58	11.63	11.71	11.81	11.92	12.01	12.08	12.11	-
45	-	12.51	12.60	12.71	12.82	12.92	12.99	13.03	-
50	-	-	13.64	13.75	13.87	13.98	14.06	14.10	-
55	-	-	-	14.91	15.04	15.15	15.24	15.29	-
60	-	-	-	-	16.29	16.41	16.51	16.57	-

**Mass flow in kg/h**

10	203	253	312	379	-	-	-	-	-
20	196	246	305	373	451	541	-	-	-
30	186	236	295	362	440	530	632	748	-
40	173	223	281	348	425	514	615	730	-
45	-	216	273	340	416	504	605	719	-
50	-	-	264	330	406	493	593	706	-
55	-	-	-	320	395	481	580	693	-
60	-	-	-	-	383	468	566	677	-

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

10	3.47	4.25	5.23	6.53	-	-	-	-	-
20	2.52	3.13	3.83	4.67	5.71	7.09	-	-	-
30	1.73	2.22	2.76	3.38	4.10	4.97	6.05	7.48	-
40	1.10	1.47	1.89	2.36	2.89	3.50	4.23	5.10	-
45	-	1.17	1.53	1.93	2.39	2.91	3.52	4.24	-
50	-	-	1.21	1.55	1.95	2.39	2.90	3.50	-
55	-	-	-	1.23	1.56	1.94	2.37	2.87	-
60	-	-	-	-	1.23	1.54	1.91	2.33	-

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

Cooling capacity	13 090	W
Power input	6 779	W
Current consumption	12.71	A
Mass flow	340	kg/h
C.O.P.	1.93	

**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	11 057	13 945	17 413	21 529	-	-	-	-	-
20	9 872	12 589	15 831	19 668	24 167	29 397	-	-	-
30	8 603	11 122	14 110	17 640	21 778	26 595	32 159	38 540	-
40	7 275	9 567	12 276	15 471	19 222	23 599	28 672	34 509	-
45	-	8 766	11 325	14 343	17 891	22 038	26 856	32 413	-
50	-	-	10 356	13 191	16 529	20 442	24 999	30 271	-
55	-	-	-	12 020	15 144	18 817	23 109	28 092	-
60	-	-	-	-	-	17 171	21 196	25 887	-

**Power input in W**

10	2 999	3 090	3 138	3 114	-	-	-	-	-
20	3 661	3 767	3 875	3 954	3 972	3 899	-	-	-
30	4 599	4 650	4 745	4 854	4 946	4 990	4 956	4 812	-
40	6 027	5 949	5 958	6 025	6 119	6 209	6 263	6 251	-
45	-	6 820	6 760	6 779	6 846	6 931	7 003	7 029	-
50	-	-	7 727	7 680	7 703	7 765	7 835	7 883	-
55	-	-	-	8 754	8 714	8 736	8 787	8 837	-
60	-	-	-	-	-	9 870	9 884	9 919	-

**Current consumption in A**

10	10.84	10.88	10.95	11.05	-	-	-	-	-
20	10.03	10.07	10.14	10.23	10.32	10.41	-	-	-
30	10.36	10.39	10.47	10.56	10.66	10.74	10.81	10.83	-
40	11.58	11.63	11.71	11.81	11.92	12.01	12.08	12.11	-
45	-	12.51	12.60	12.71	12.82	12.92	12.99	13.03	-
50	-	-	13.64	13.75	13.87	13.98	14.06	14.10	-
55	-	-	-	14.91	15.04	15.15	15.24	15.29	-
60	-	-	-	-	-	16.41	16.51	16.57	-

**Mass flow in kg/h**

10	202	252	310	377	-	-	-	-	-
20	195	245	303	371	448	538	-	-	-
30	185	235	293	360	438	527	628	743	-
40	172	222	280	346	423	511	611	725	-
45	-	215	272	338	414	501	601	714	-
50	-	-	263	328	404	491	590	702	-
55	-	-	-	318	393	479	577	688	-
60	-	-	-	-	-	466	563	673	-

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

10	3.69	4.51	5.55	6.91	-	-	-	-	-
20	2.70	3.34	4.09	4.97	6.08	7.54	-	-	-
30	1.87	2.39	2.97	3.63	4.40	5.33	6.49	8.01	-
40	1.21	1.61	2.06	2.57	3.14	3.80	4.58	5.52	-
45	-	1.29	1.68	2.12	2.61	3.18	3.84	4.61	-
50	-	-	1.34	1.72	2.15	2.63	3.19	3.84	-
55	-	-	-	1.37	1.74	2.15	2.63	3.18	-
60	-	-	-	-	-	1.74	2.14	2.61	-

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

Cooling capacity	14 343	W
Power input	6 779	W
Current consumption	12.71	A
Mass flow	338	kg/h
C.O.P.	2.12	

**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	12 988	16 372	20 436	25 261	-	-	-	-	-
20	11 513	14 674	18 448	22 918	28 164	34 270	-	-	-
30	9 951	12 856	16 309	20 391	25 183	30 769	37 229	44 645	-
40	8 326	10 944	14 044	17 706	22 012	27 045	32 887	39 618	-
45	-	9 961	12 872	16 312	20 363	25 108	30 628	37 006	-
50	-	-	11 678	14 888	18 677	23 126	28 317	34 332	-
55	-	-	-	13 439	16 956	21 101	25 954	31 599	-
60	-	-	-	-	15 204	19 037	23 545	28 811	-

**Power input in W**

10	3 495	3 580	3 678	3 785	-	-	-	-	-
20	4 331	4 394	4 482	4 589	4 710	4 839	-	-	-
30	5 456	5 476	5 533	5 621	5 734	5 865	6 011	6 164	-
40	7 003	6 961	6 968	7 016	7 101	7 216	7 356	7 516	-
45	-	7 897	7 871	7 892	7 956	8 055	8 185	8 340	-
50	-	-	8 920	8 910	8 947	9 025	9 140	9 286	-
55	-	-	-	10 085	10 091	10 144	10 239	10 370	-
60	-	-	-	-	11 406	11 428	11 498	11 610	-

**Current consumption in A**

10	8.98	9.11	9.21	9.30	-	-	-	-	-
20	9.33	9.46	9.58	9.67	9.77	9.88	-	-	-
30	9.98	10.11	10.22	10.31	10.40	10.51	10.63	10.79	-
40	11.21	11.32	11.40	11.48	11.55	11.64	11.75	11.89	-
45	-	12.22	12.29	12.35	12.41	12.48	12.57	12.71	-
50	-	-	13.41	13.45	13.49	13.55	13.62	13.74	-
55	-	-	-	14.83	14.84	14.87	14.93	15.02	-
60	-	-	-	-	16.49	16.50	16.53	16.59	-

**Mass flow in kg/h**

10	253	315	388	471	-	-	-	-	-
20	244	307	379	463	560	671	-	-	-
30	232	295	367	450	547	657	784	927	-
40	217	279	351	433	529	639	764	906	-
45	-	270	341	423	518	627	752	893	-
50	-	-	330	412	506	615	738	879	-
55	-	-	-	399	493	600	723	863	-
60	-	-	-	-	478	585	707	845	-

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

10	3.72	4.57	5.56	6.67	-	-	-	-	-
20	2.66	3.34	4.12	4.99	5.98	7.08	-	-	-
30	1.82	2.35	2.95	3.63	4.39	5.25	6.19	7.24	-
40	1.19	1.57	2.02	2.52	3.10	3.75	4.47	5.27	-
45	-	1.26	1.64	2.07	2.56	3.12	3.74	4.44	-
50	-	-	1.31	1.67	2.09	2.56	3.10	3.70	-
55	-	-	-	1.33	1.68	2.08	2.53	3.05	-
60	-	-	-	-	1.33	1.67	2.05	2.48	-

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

Cooling capacity	16 312	W
Power input	7 892	W
Current consumption	12.35	A
Mass flow	423	kg/h
C.O.P.	2.07	

**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	13 793	17 370	21 662	26 753	-	-	-	-	-
20	12 318	15 682	19 693	24 438	30 002	36 470	-	-	-
30	10 746	13 865	17 564	21 932	27 053	33 014	39 900	47 797	-
40	9 104	11 946	15 302	19 261	23 909	29 332	35 617	42 851	-
45	-	10 956	14 130	17 873	22 272	27 416	33 391	40 283	-
50	-	-	12 935	16 455	20 600	25 458	31 116	37 661	-
55	-	-	-	15 014	18 898	23 465	28 801	34 995	-
60	-	-	-	-	-	21 447	26 459	32 300	-

**Power input in W**

10	3 495	3 580	3 678	3 785	-	-	-	-	-
20	4 331	4 394	4 482	4 589	4 710	4 839	-	-	-
30	5 456	5 476	5 533	5 621	5 734	5 865	6 011	6 164	-
40	7 003	6 961	6 968	7 016	7 101	7 216	7 356	7 516	-
45	-	7 897	7 871	7 892	7 956	8 055	8 185	8 340	-
50	-	-	8 920	8 910	8 947	9 025	9 140	9 286	-
55	-	-	-	10 085	10 091	10 144	10 239	10 370	-
60	-	-	-	-	-	11 428	11 498	11 610	-

**Current consumption in A**

10	8.98	9.11	9.21	9.30	-	-	-	-	-
20	9.33	9.46	9.58	9.67	9.77	9.88	-	-	-
30	9.98	10.11	10.22	10.31	10.40	10.51	10.63	10.79	-
40	11.21	11.32	11.40	11.48	11.55	11.64	11.75	11.89	-
45	-	12.22	12.29	12.35	12.41	12.48	12.57	12.71	-
50	-	-	13.41	13.45	13.49	13.55	13.62	13.74	-
55	-	-	-	14.83	14.84	14.87	14.93	15.02	-
60	-	-	-	-	-	16.50	16.53	16.59	-

**Mass flow in kg/h**

10	252	314	385	469	-	-	-	-	-
20	243	305	377	460	557	667	-	-	-
30	231	293	365	448	544	654	779	922	-
40	216	277	349	431	526	635	759	900	-
45	-	268	339	421	515	624	747	888	-
50	-	-	328	410	503	611	734	873	-
55	-	-	-	397	490	597	719	858	-
60	-	-	-	-	-	582	703	840	-

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

10	3.95	4.85	5.89	7.07	-	-	-	-	-
20	2.84	3.57	4.39	5.33	6.37	7.54	-	-	-
30	1.97	2.53	3.17	3.90	4.72	5.63	6.64	7.75	-
40	1.30	1.72	2.20	2.75	3.37	4.06	4.84	5.70	-
45	-	1.39	1.80	2.26	2.80	3.40	4.08	4.83	-
50	-	-	1.45	1.85	2.30	2.82	3.40	4.06	-
55	-	-	-	1.49	1.87	2.31	2.81	3.37	-
60	-	-	-	-	-	1.88	2.30	2.78	-

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

Cooling capacity	17 873	W
Power input	7 892	W
Current consumption	12.35	A
Mass flow	421	kg/h
C.O.P.	2.26	

**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	12 183	13 970	17 399	21 450	-	-	-	-	-
20	10 926	12 605	15 812	19 588	24 001	29 119	-	-	-
30	9 571	11 124	14 079	17 550	21 606	26 313	31 740	37 953	-
40	8 140	9 549	12 222	15 359	19 028	23 295	28 229	33 897	-
45	-	-	11 254	14 213	17 677	21 714	26 390	31 774	-
50	-	-	-	13 037	16 289	20 087	24 499	29 592	-
55	-	-	-	-	14 866	18 419	22 558	27 353	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	3 210	3 265	3 321	3 301	-	-	-	-	-
20	3 913	3 981	4 092	4 174	4 194	4 120	-	-	-
30	4 907	4 943	5 038	5 147	5 239	5 281	5 244	5 093	-
40	6 403	6 364	6 369	6 432	6 523	6 609	6 659	6 641	-
45	-	-	7 245	7 258	7 321	7 401	7 468	7 488	-
50	-	-	-	8 242	8 258	8 314	8 379	8 420	-
55	-	-	-	-	9 361	9 375	9 420	9 463	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	9.95	9.97	10.03	10.11	-	-	-	-	-
20	10.36	10.38	10.44	10.52	10.61	10.71	-	-	-
30	11.13	11.16	11.23	11.31	11.40	11.49	11.57	11.65	-
40	12.44	12.49	12.58	12.67	12.76	12.84	12.92	12.98	-
45	-	-	13.51	13.61	13.70	13.79	13.87	13.92	-
50	-	-	-	14.76	14.86	14.95	15.03	15.08	-
55	-	-	-	-	16.25	16.35	16.42	16.48	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	213	242	298	363	-	-	-	-	-
20	206	236	292	357	431	517	-	-	-
30	197	227	282	347	421	507	604	714	-
40	185	214	270	334	407	491	588	697	-
45	-	-	262	325	398	482	578	686	-
50	-	-	-	316	389	472	567	674	-
55	-	-	-	-	378	460	554	661	-
60	-	-	-	-	-	-	-	-	-

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

10	3.80	4.28	5.24	6.50	-	-	-	-	-
20	2.79	3.17	3.86	4.69	5.72	7.07	-	-	-
30	1.95	2.25	2.79	3.41	4.12	4.98	6.05	7.45	-
40	1.27	1.50	1.92	2.39	2.92	3.52	4.24	5.10	-
45	-	-	1.55	1.96	2.41	2.93	3.53	4.24	-
50	-	-	-	1.58	1.97	2.42	2.92	3.51	-
55	-	-	-	-	1.59	1.96	2.39	2.89	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	14 213	W
Power input	7 258	W
Current consumption	13.61	A
Mass flow	325	kg/h
C.O.P.	1.96	

**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	12 875	14 757	18 367	22 628	-	-	-	-	-
20	11 617	13 395	16 789	20 782	25 444	30 846	-	-	-
30	10 254	11 910	15 059	18 754	23 066	28 066	33 825	40 414	-
40	-	10 325	13 198	16 566	20 500	25 071	30 349	36 407	-
45	-	-	12 227	15 421	19 155	23 501	28 530	34 312	-
50	-	-	-	14 247	17 775	21 890	26 663	32 166	-
55	-	-	-	-	-	20 246	24 759	29 979	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	3 210	3 265	3 321	3 301	-	-	-	-	-
20	3 913	3 981	4 092	4 174	4 194	4 120	-	-	-
30	4 907	4 943	5 038	5 147	5 239	5 281	5 244	5 093	-
40	-	6 364	6 369	6 432	6 523	6 609	6 659	6 641	-
45	-	-	7 245	7 258	7 321	7 401	7 468	7 488	-
50	-	-	-	8 242	8 258	8 314	8 379	8 420	-
55	-	-	-	-	-	9 375	9 420	9 463	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	9.95	9.97	10.03	10.11	-	-	-	-	-
20	10.36	10.38	10.44	10.52	10.61	10.71	-	-	-
30	11.13	11.16	11.23	11.31	11.40	11.49	11.57	11.65	-
40	-	12.49	12.58	12.67	12.76	12.84	12.92	12.98	-
45	-	-	13.51	13.61	13.70	13.79	13.87	13.92	-
50	-	-	-	14.76	14.86	14.95	15.03	15.08	-
55	-	-	-	-	-	16.35	16.42	16.48	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	212	241	296	361	-	-	-	-	-
20	205	235	290	355	429	514	-	-	-
30	196	225	281	345	419	503	600	709	-
40	-	213	268	332	405	488	584	692	-
45	-	-	260	323	396	479	574	682	-
50	-	-	-	314	386	469	563	670	-
55	-	-	-	-	-	457	551	657	-
60	-	-	-	-	-	-	-	-	-

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

10	4.01	4.52	5.53	6.85	-	-	-	-	-
20	2.97	3.37	4.10	4.98	6.07	7.49	-	-	-
30	2.09	2.41	2.99	3.64	4.40	5.31	6.45	7.93	-
40	-	1.62	2.07	2.58	3.14	3.79	4.56	5.48	-
45	-	-	1.69	2.12	2.62	3.18	3.82	4.58	-
50	-	-	-	1.73	2.15	2.63	3.18	3.82	-
55	-	-	-	-	-	2.16	2.63	3.17	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	15 421	W
Power input	7 258	W
Current consumption	13.61	A
Mass flow	323	kg/h
C.O.P.	2.12	

**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	15 185	17 398	21 644	26 658	-	-	-	-	-
20	13 622	15 700	19 668	24 340	29 799	36 129	-	-	-
30	11 945	13 867	17 524	21 820	26 839	32 665	39 381	47 071	-
40	10 177	11 923	15 235	19 121	23 666	28 954	35 067	42 090	-
45	-	-	14 042	17 711	22 007	27 012	32 811	39 488	-
50	-	-	-	16 264	20 301	25 017	30 493	36 815	-
55	-	-	-	-	18 553	22 970	28 116	34 074	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	3 729	3 775	3 871	3 991	-	-	-	-	-
20	4 627	4 659	4 736	4 842	4 975	5 136	-	-	-
30	5 829	5 839	5 884	5 962	6 074	6 217	6 391	6 596	-
40	7 471	7 452	7 452	7 491	7 567	7 680	7 829	8 013	-
45	-	-	8 436	8 450	8 504	8 597	8 729	8 898	-
50	-	-	-	9 563	9 591	9 662	9 773	9 924	-
55	-	-	-	-	10 846	10 890	10 977	11 107	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	9.54	9.62	9.71	9.77	-	-	-	-	-
20	9.96	10.04	10.15	10.24	10.32	10.40	-	-	-
30	10.70	10.77	10.88	10.97	11.05	11.14	11.25	11.38	-
40	12.06	12.12	12.20	12.26	12.33	12.41	12.51	12.65	-
45	-	-	13.17	13.22	13.27	13.34	13.43	13.55	-
50	-	-	-	14.43	14.46	14.51	14.58	14.69	-
55	-	-	-	-	15.94	15.96	16.01	16.10	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	265	302	371	451	-	-	-	-	-
20	257	294	363	443	536	642	-	-	-
30	245	282	352	431	523	629	749	885	-
40	231	267	336	415	506	611	730	865	-
45	-	-	327	405	496	600	718	853	-
50	-	-	-	394	484	588	705	839	-
55	-	-	-	-	471	574	691	823	-
60	-	-	-	-	-	-	-	-	-

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

10	4.07	4.61	5.59	6.68	-	-	-	-	-
20	2.94	3.37	4.15	5.03	5.99	7.03	-	-	-
30	2.05	2.37	2.98	3.66	4.42	5.25	6.16	7.14	-
40	1.36	1.60	2.04	2.55	3.13	3.77	4.48	5.25	-
45	-	-	1.66	2.10	2.59	3.14	3.76	4.44	-
50	-	-	-	1.70	2.12	2.59	3.12	3.71	-
55	-	-	-	-	1.71	2.11	2.56	3.07	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	17 711	W
Power input	8 450	W
Current consumption	13.22	A
Mass flow	405	kg/h
C.O.P.	2.10	

**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	16 048	18 380	22 848	28 122	-	-	-	-	-
20	14 483	16 684	20 883	25 823	31 590	38 272	-	-	-
30	12 798	14 847	18 744	23 316	28 653	34 841	41 968	50 122	-
40	-	12 891	16 452	20 624	25 498	31 160	37 700	45 206	-
45	-	-	15 256	19 216	23 847	29 235	35 471	42 642	-
50	-	-	-	17 773	22 154	27 262	33 187	40 017	-
55	-	-	-	-	-	25 248	30 858	37 345	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	3 729	3 775	3 871	3 991	-	-	-	-	-
20	4 627	4 659	4 736	4 842	4 975	5 136	-	-	-
30	5 829	5 839	5 884	5 962	6 074	6 217	6 391	6 596	-
40	-	7 452	7 452	7 491	7 567	7 680	7 829	8 013	-
45	-	-	8 436	8 450	8 504	8 597	8 729	8 898	-
50	-	-	-	9 563	9 591	9 662	9 773	9 924	-
55	-	-	-	-	-	10 890	10 977	11 107	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	9.54	9.62	9.71	9.77	-	-	-	-	-
20	9.96	10.04	10.15	10.24	10.32	10.40	-	-	-
30	10.70	10.77	10.88	10.97	11.05	11.14	11.25	11.38	-
40	-	12.12	12.20	12.26	12.33	12.41	12.51	12.65	-
45	-	-	13.17	13.22	13.27	13.34	13.43	13.55	-
50	-	-	-	14.43	14.46	14.51	14.58	14.69	-
55	-	-	-	-	-	15.96	16.01	16.10	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	264	300	369	448	-	-	-	-	-
20	255	292	361	441	532	638	-	-	-
30	244	281	350	429	520	625	744	880	-
40	-	266	334	413	503	607	725	859	-
45	-	-	325	403	493	596	714	847	-
50	-	-	-	392	482	584	701	833	-
55	-	-	-	-	-	570	686	818	-
60	-	-	-	-	-	-	-	-	-

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

10	4.30	4.87	5.90	7.05	-	-	-	-	-
20	3.13	3.58	4.41	5.33	6.35	7.45	-	-	-
30	2.20	2.54	3.19	3.91	4.72	5.60	6.57	7.60	-
40	-	1.73	2.21	2.75	3.37	4.06	4.82	5.64	-
45	-	-	1.81	2.27	2.80	3.40	4.06	4.79	-
50	-	-	-	1.86	2.31	2.82	3.40	4.03	-
55	-	-	-	-	-	2.32	2.81	3.36	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	19 216	W
Power input	8 450	W
Current consumption	13.22	A
Mass flow	403	kg/h
C.O.P.	2.27	

**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	8 652	10 902	13 602	16 818	20 618	-	-	-	-
20	7 752	9 926	12 502	15 544	19 122	23 300	28 146	-	-
30	-	-	11 211	14 028	17 331	21 186	25 660	30 820	36 732
40	-	-	-	12 324	15 301	18 781	22 832	27 519	32 909
50	-	-	-	-	13 084	16 138	19 713	23 876	28 694
60	-	-	-	-	-	-	16 360	19 947	24 140

**Power input in W**

10	2 794	2 863	2 930	2 998	3 071	-	-	-	-
20	3 526	3 593	3 661	3 733	3 813	3 905	4 012	-	-
30	-	-	4 611	4 666	4 731	4 811	4 909	5 028	5 172
40	-	-	-	5 938	5 967	6 013	6 080	6 171	6 291
50	-	-	-	-	7 663	7 653	7 667	7 709	7 782
60	-	-	-	-	-	-	9 814	9 784	9 788

**Current consumption in A**

10	9.55	9.52	9.54	9.60	9.68	-	-	-	-
20	10.12	10.11	10.15	10.22	10.32	10.44	10.56	-	-
30	-	-	11.01	11.08	11.18	11.29	11.41	11.53	11.63
40	-	-	-	12.42	12.49	12.58	12.67	12.76	12.84
50	-	-	-	-	14.51	14.54	14.59	14.63	14.65
60	-	-	-	-	-	-	17.40	17.36	17.32

**Mass flow in kg/h**

10	141	179	224	278	343	-	-	-	-
20	136	175	221	275	341	418	510	-	-
30	-	-	214	269	334	412	504	613	739
40	-	-	-	259	323	401	493	602	728
50	-	-	-	-	308	384	476	583	709
60	-	-	-	-	-	-	452	558	683

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

10	3.10	3.81	4.64	5.61	6.71	-	-	-	-
20	2.20	2.76	3.42	4.16	5.01	5.97	7.02	-	-
30	-	-	2.43	3.01	3.66	4.40	5.23	6.13	7.10
40	-	-	-	2.08	2.56	3.12	3.76	4.46	5.23
50	-	-	-	-	1.71	2.11	2.57	3.10	3.69
60	-	-	-	-	-	-	1.67	2.04	2.47

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

Cooling capacity	14 212	W
Power input	6 748	W
Current consumption	13.40	A
Mass flow	316	kg/h
C.O.P.	2.11	

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

**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	8 687	10 955	13 678	16 922	20 751	-	-	-	-
20	7 684	9 862	12 449	15 512	19 117	23 327	28 198	-	-
30	6 600	8 634	11 031	13 859	17 187	21 080	25 600	30 803	36 732
40	-	-	9 481	12 021	15 018	18 541	22 657	27 429	32 909
50	-	-	-	10 057	12 670	15 769	19 427	23 714	28 694
60	-	-	-	-	10 199	12 820	15 964	19 711	24 140

**Power input in W**

10	2 794	2 863	2 930	2 998	3 071	-	-	-	-
20	3 526	3 593	3 661	3 733	3 813	3 905	4 012	-	-
30	4 523	4 565	4 611	4 666	4 731	4 811	4 909	5 028	5 172
40	-	-	5 924	5 938	5 967	6 013	6 080	6 171	6 291
50	-	-	-	7 694	7 663	7 653	7 667	7 709	7 782
60	-	-	-	-	9 963	9 875	9 814	9 784	9 788

**Current consumption in A**

10	9.55	9.52	9.54	9.60	9.68	-	-	-	-
20	10.12	10.11	10.15	10.22	10.32	10.44	10.56	-	-
30	10.99	10.98	11.01	11.08	11.18	11.29	11.41	11.53	11.63
40	-	-	12.38	12.42	12.49	12.58	12.67	12.76	12.84
50	-	-	-	14.49	14.51	14.54	14.59	14.63	14.65
60	-	-	-	-	17.46	17.43	17.40	17.36	17.32

**Mass flow in kg/h**

10	166	208	256	312	376	-	-	-	-
20	161	203	252	308	374	450	536	-	-
30	153	196	244	301	367	443	531	629	739
40	-	-	233	289	355	431	519	618	728
50	-	-	-	273	338	413	500	599	709
60	-	-	-	-	315	389	475	573	683

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

10	3.11	3.83	4.67	5.64	6.76	-	-	-	-
20	2.18	2.74	3.40	4.16	5.01	5.97	7.03	-	-
30	1.46	1.89	2.39	2.97	3.63	4.38	5.22	6.13	7.10
40	-	-	1.60	2.02	2.52	3.08	3.73	4.44	5.23
50	-	-	-	1.31	1.65	2.06	2.53	3.08	3.69
60	-	-	-	-	1.02	1.30	1.63	2.01	2.47

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

Cooling capacity	13 863	W
Power input	6 748	W
Current consumption	13.40	A
Mass flow	347	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		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	8 652	10 902	13 602	16 818	20 618	-	-	-	-
20	7 752	9 926	12 502	15 544	19 122	23 300	28 146	-	-
30	-	-	11 211	14 028	17 331	21 186	25 660	30 820	36 732
40	-	-	-	12 324	15 301	18 781	22 832	27 519	32 909
50	-	-	-	-	13 084	16 138	19 713	23 876	28 694
60	-	-	-	-	-	-	16 360	19 947	24 140

**Power input in W**

10	2 794	2 863	2 930	2 998	3 071	-	-	-	-
20	3 526	3 593	3 661	3 733	3 813	3 905	4 012	-	-
30	-	-	4 611	4 666	4 731	4 811	4 909	5 028	5 172
40	-	-	-	5 938	5 967	6 013	6 080	6 171	6 291
50	-	-	-	-	7 663	7 653	7 667	7 709	7 782
60	-	-	-	-	-	-	9 814	9 784	9 788

**Current consumption in A**

10	9.55	9.52	9.54	9.60	9.68	-	-	-	-
20	10.12	10.11	10.15	10.22	10.32	10.44	10.56	-	-
30	-	-	11.01	11.08	11.18	11.29	11.41	11.53	11.63
40	-	-	-	12.42	12.49	12.58	12.67	12.76	12.84
50	-	-	-	-	14.51	14.54	14.59	14.63	14.65
60	-	-	-	-	-	-	17.40	17.36	17.32

**Mass flow in kg/h**

10	141	179	224	278	343	-	-	-	-
20	136	175	221	275	341	418	510	-	-
30	-	-	214	269	334	412	504	613	739
40	-	-	-	259	323	401	493	602	728
50	-	-	-	-	308	384	476	583	709
60	-	-	-	-	-	-	452	558	683

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

10	3.10	3.81	4.64	5.61	6.71	-	-	-	-
20	2.20	2.76	3.42	4.16	5.01	5.97	7.02	-	-
30	-	-	2.43	3.01	3.66	4.40	5.23	6.13	7.10
40	-	-	-	2.08	2.56	3.12	3.76	4.46	5.23
50	-	-	-	-	1.71	2.11	2.57	3.10	3.69
60	-	-	-	-	-	-	1.67	2.04	2.47

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

Cooling capacity	14 212	W
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Mass flow	316	kg/h
C.O.P.	2.11	

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	8 668	10 935	13 657	16 901	20 731	-	-	-	-
20	7 664	9 841	12 427	15 490	19 096	23 308	28 183	-	-
30	6 580	8 612	11 007	13 835	17 164	21 059	25 584	30 794	36 732
40	-	-	9 457	11 996	14 994	18 519	22 640	27 419	32 909
50	-	-	-	10 031	12 644	15 746	19 408	23 703	28 694
60	-	-	-	-	10 173	12 796	15 945	19 700	24 140

**Power input in W**

10	2 794	2 863	2 930	2 998	3 071	-	-	-	-
20	3 526	3 593	3 661	3 733	3 813	3 905	4 012	-	-
30	4 523	4 565	4 611	4 666	4 731	4 811	4 909	5 028	5 172
40	-	-	5 924	5 938	5 967	6 013	6 080	6 171	6 291
50	-	-	-	7 694	7 663	7 653	7 667	7 709	7 782
60	-	-	-	-	9 963	9 875	9 814	9 784	9 788

**Current consumption in A**

10	9.55	9.52	9.54	9.60	9.68	-	-	-	-
20	10.12	10.11	10.15	10.22	10.32	10.44	10.56	-	-
30	10.99	10.98	11.01	11.08	11.18	11.29	11.41	11.53	11.63
40	-	-	12.38	12.42	12.49	12.58	12.67	12.76	12.84
50	-	-	-	14.49	14.51	14.54	14.59	14.63	14.65
60	-	-	-	-	17.46	17.43	17.40	17.36	17.32

**Mass flow in kg/h**

10	166	208	256	312	376	-	-	-	-
20	161	203	252	308	374	450	536	-	-
30	153	196	244	301	367	443	531	629	739
40	-	-	233	289	355	431	519	618	728
50	-	-	-	273	338	413	500	599	709
60	-	-	-	-	315	389	475	573	683

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

10	3.10	3.82	4.66	5.64	6.75	-	-	-	-
20	2.17	2.74	3.39	4.15	5.01	5.97	7.03	-	-
30	1.45	1.89	2.39	2.97	3.63	4.38	5.21	6.12	7.10
40	-	-	1.60	2.02	2.51	3.08	3.72	4.44	5.23
50	-	-	-	1.30	1.65	2.06	2.53	3.07	3.69
60	-	-	-	-	1.02	1.30	1.62	2.01	2.47

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

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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