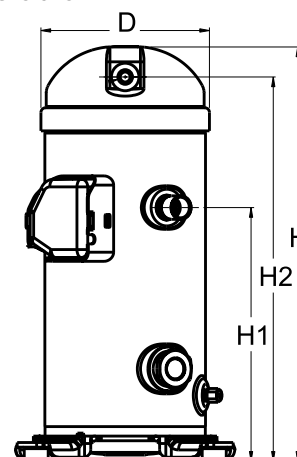


**General Characteristics**

Model number (on compressor nameplate)		<b>MLZ045T4LC9A</b>
Code number for Singlepack*		121L8649
Code number for Industrial pack**		121L8648
Drawing number		0XR6025B-3
Suction and discharge connections		Brazed
Suction connection		7/8" ODF
Discharge connection		1/2" ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		32 bar
Swept volume		98.57 cm <sup>3</sup> /rev
Displacement @ Nominal speed		17.1 m <sup>3</sup> /h @ 2900 rpm - 20.7 m <sup>3</sup> /h @ 3500 rpm
Net weight		41 kg
Oil charge		1.57 litre, POE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		5.44 kg
Approved refrigerants		R404A, R134a, R407A, R407F, R448A, R449A

**Dimensions**

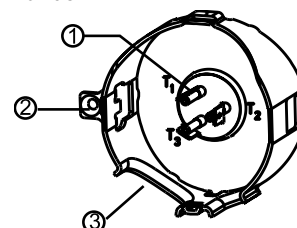


D=184 mm  
H=455 mm  
H1=280 mm  
H2=422 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.869 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.88 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.8 Ω
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	82 A
Motor protection	Internal overload protector

**Terminal box**



IP22  
1: Spade connectors 1/4"  
2: Earth connection  
3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

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

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

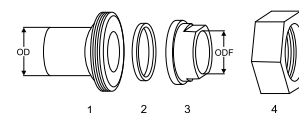
\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**
**Code no.**

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**
**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Solder sleeve adapter set**


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

**Rotolock accessories, sets**
**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**
**Code no.**

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

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

**Miscellaneous accessories**
**Code no.**

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

**Spare parts**
**Code no.**

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

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

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

**Cooling capacity in W**

10	7 300	8 895	10 818	13 103	15 782	-	-	-	-
20	6 514	8 042	9 856	11 990	14 475	17 347	20 637	-	-
30	5 631	7 060	8 733	10 682	12 941	15 543	18 522	21 911	25 742
40	-	5 963	7 461	9 193	11 192	13 492	16 127	19 129	22 531
50	-	-	6 053	7 535	9 242	11 208	13 465	16 047	18 988
60	-	-	-	-	7 105	8 703	10 550	12 680	15 125

**Power input in W**

10	2 259	2 252	2 256	2 273	2 308	-	-	-	-
20	2 793	2 780	2 772	2 771	2 782	2 806	2 848	-	-
30	3 464	3 457	3 447	3 440	3 436	3 441	3 457	3 487	3 535
40	-	4 344	4 345	4 340	4 334	4 329	4 330	4 338	4 358
50	-	-	5 526	5 535	5 537	5 534	5 529	5 527	5 530
60	-	-	-	-	7 108	7 117	7 118	7 116	7 112

**Current consumption in A**

10	6.22	6.12	6.04	5.98	5.91	-	-	-	-
20	6.73	6.69	6.67	6.67	6.67	6.66	6.63	-	-
30	7.33	7.32	7.33	7.36	7.40	7.43	7.44	7.42	7.35
40	-	8.27	8.29	8.32	8.36	8.40	8.42	8.41	8.36
50	-	-	9.80	9.80	9.82	9.83	9.83	9.80	9.74
60	-	-	-	-	12.04	11.99	11.94	11.86	11.74

**Mass flow in kg/h**

10	146	181	221	268	325	-	-	-	-
20	143	178	219	268	325	393	473	-	-
30	136	172	214	263	321	390	471	566	677
40	-	163	205	254	312	382	463	559	671
50	-	-	191	241	299	368	450	546	658
60	-	-	-	-	280	349	431	527	639

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

10	3.23	3.95	4.80	5.76	6.84	-	-	-	-
20	2.33	2.89	3.56	4.33	5.20	6.18	7.25	-	-
30	1.63	2.04	2.53	3.11	3.77	4.52	5.36	6.28	7.28
40	-	1.37	1.72	2.12	2.58	3.12	3.72	4.41	5.17
50	-	-	1.10	1.36	1.67	2.03	2.44	2.90	3.43
60	-	-	-	-	1.00	1.22	1.48	1.78	2.13

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

Cooling capacity	10 241	W
Power input	4 893	W
Current consumption	9.01	A
Mass flow	306	kg/h
C.O.P.	2.09	


**Pressure switch settings**

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

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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

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

**Cooling capacity in W**

10	7 015	8 608	10 541	12 850	15 571	-	-	-	-
20	6 125	7 637	9 450	11 601	14 126	17 063	20 441	-	-
30	5 150	6 544	8 201	10 158	12 454	15 128	18 215	21 746	25 742
40	4 110	5 350	6 814	8 541	10 572	12 948	15 709	18 892	22 531
50	-	-	5 310	6 771	8 500	10 540	12 938	15 739	18 988
60	-	-	-	-	6 252	7 918	9 913	12 296	15 125

**Power input in W**

10	2 259	2 252	2 256	2 273	2 308	-	-	-	-
20	2 793	2 780	2 772	2 771	2 782	2 806	2 848	-	-
30	3 464	3 457	3 447	3 440	3 436	3 441	3 457	3 487	3 535
40	4 336	4 344	4 345	4 340	4 334	4 329	4 330	4 338	4 358
50	-	-	5 526	5 535	5 537	5 534	5 529	5 527	5 530
60	-	-	-	-	7 108	7 117	7 118	7 116	7 112

**Current consumption in A**

10	6.22	6.12	6.04	5.98	5.91	-	-	-	-
20	6.73	6.69	6.67	6.67	6.67	6.66	6.63	-	-
30	7.33	7.32	7.33	7.36	7.40	7.43	7.44	7.42	7.35
40	8.29	8.27	8.29	8.32	8.36	8.40	8.42	8.41	8.36
50	-	-	9.80	9.80	9.82	9.83	9.83	9.80	9.74
60	-	-	-	-	12.04	11.99	11.94	11.86	11.74

**Mass flow in kg/h**

10	174	211	254	302	359	-	-	-	-
20	170	208	252	301	359	424	499	-	-
30	163	202	246	296	354	421	497	582	677
40	151	191	235	286	345	412	489	576	671
50	-	-	220	271	330	398	475	562	658
60	-	-	-	-	309	377	455	542	639

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

10	3.10	3.82	4.67	5.65	6.75	-	-	-	-
20	2.19	2.75	3.41	4.19	5.08	6.08	7.18	-	-
30	1.49	1.89	2.38	2.95	3.62	4.40	5.27	6.24	7.28
40	0.95	1.23	1.57	1.97	2.44	2.99	3.63	4.35	5.17
50	-	-	0.96	1.22	1.54	1.90	2.34	2.85	3.43
60	-	-	-	-	0.88	1.11	1.39	1.73	2.13

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

Cooling capacity	9 558	W
Power input	4 893	W
Current consumption	9.01	A
Mass flow	338	kg/h
C.O.P.	1.95	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

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

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

**Cooling capacity in W**

10	8 438	10 545	13 053	15 991	19 389	-	-	-	-
20	7 634	9 533	11 782	14 412	17 451	20 928	24 872	-	-
30	6 804	8 495	10 488	12 810	15 492	18 562	22 050	25 983	30 388
40	-	7 369	9 106	11 123	13 449	16 114	19 147	22 576	26 430
50	-	-	7 573	9 286	11 259	13 520	16 100	19 028	22 334
60	-	-	-	-	8 857	10 717	12 847	15 277	18 038

**Power input in W**

10	2 475	2 544	2 583	2 602	2 609	-	-	-	-
20	3 098	3 179	3 228	3 252	3 263	3 268	3 277	-	-
30	3 860	3 952	4 008	4 038	4 051	4 055	4 061	4 076	4 111
40	-	4 934	4 997	5 031	5 045	5 047	5 047	5 055	5 079
50	-	-	6 265	6 301	6 315	6 314	6 308	6 307	6 319
60	-	-	-	-	7 933	7 928	7 915	7 904	7 903

**Current consumption in A**

10	3.88	3.99	4.05	4.08	4.09	-	-	-	-
20	4.86	4.99	5.06	5.10	5.12	5.13	5.14	-	-
30	6.06	6.20	6.29	6.34	6.36	6.36	6.37	6.40	6.45
40	-	7.74	7.84	7.89	7.91	7.92	7.92	7.93	7.97
50	-	-	9.83	9.89	9.91	9.91	9.90	9.90	9.91
60	-	-	-	-	12.45	12.44	12.42	12.40	12.40

**Mass flow in kg/h**

10	149	202	261	327	402	-	-	-	-
20	158	207	262	324	395	478	575	-	-
30	162	208	259	318	387	468	563	673	802
40	-	203	252	310	378	457	551	661	790
50	-	-	241	298	365	444	539	649	779
60	-	-	-	-	348	429	525	637	768

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

10	3.41	4.15	5.05	6.15	7.43	-	-	-	-
20	2.46	3.00	3.65	4.43	5.35	6.40	7.59	-	-
30	1.76	2.15	2.62	3.17	3.82	4.58	5.43	6.37	7.39
40	-	1.49	1.82	2.21	2.67	3.19	3.79	4.47	5.20
50	-	-	1.21	1.47	1.78	2.14	2.55	3.02	3.53
60	-	-	-	-	1.12	1.35	1.62	1.93	2.28

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

Cooling capacity	12 376	W
Power input	5 641	W
Current consumption	8.85	A
Mass flow	372	kg/h
C.O.P.	2.19	

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

Tolerance according EN12900

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

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

**Cooling capacity in W**

10	8 108	10 205	12 719	15 683	19 130	-	-	-	-
20	7 179	9 053	11 296	13 944	17 030	20 585	24 636	-	-
30	6 223	7 874	9 848	12 181	14 909	18 066	21 684	25 787	30 388
40	5 182	6 611	8 316	10 334	12 704	15 464	18 651	22 298	26 430
50	-	-	6 643	8 344	10 354	12 715	15 470	18 663	22 334
60	-	-	-	-	7 794	9 750	12 072	14 815	18 038

**Power input in W**

10	2 475	2 544	2 583	2 602	2 609	-	-	-	-
20	3 098	3 179	3 228	3 252	3 263	3 268	3 277	-	-
30	3 860	3 952	4 008	4 038	4 051	4 055	4 061	4 076	4 111
40	4 832	4 934	4 997	5 031	5 045	5 047	5 047	5 055	5 079
50	-	-	6 265	6 301	6 315	6 314	6 308	6 307	6 319
60	-	-	-	-	7 933	7 928	7 915	7 904	7 903

**Current consumption in A**

10	3.88	3.99	4.05	4.08	4.09	-	-	-	-
20	4.86	4.99	5.06	5.10	5.12	5.13	5.14	-	-
30	6.06	6.20	6.29	6.34	6.36	6.36	6.37	6.40	6.45
40	7.58	7.74	7.84	7.89	7.91	7.92	7.92	7.93	7.97
50	-	-	9.83	9.89	9.91	9.91	9.90	9.90	9.91
60	-	-	-	-	12.45	12.44	12.42	12.40	12.40

**Mass flow in kg/h**

10	177	237	300	368	444	-	-	-	-
20	188	242	301	365	436	517	607	-	-
30	193	243	298	359	428	506	594	693	802
40	190	237	290	349	417	494	582	681	790
50	-	-	276	335	403	480	569	669	779
60	-	-	-	-	384	464	554	656	768

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

10	3.28	4.01	4.92	6.03	7.33	-	-	-	-
20	2.32	2.85	3.50	4.29	5.22	6.30	7.52	-	-
30	1.61	1.99	2.46	3.02	3.68	4.45	5.34	6.33	7.39
40	1.07	1.34	1.66	2.05	2.52	3.06	3.70	4.41	5.20
50	-	-	1.06	1.32	1.64	2.01	2.45	2.96	3.53
60	-	-	-	-	0.98	1.23	1.53	1.87	2.28

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

Cooling capacity	11 551	W
Power input	5 641	W
Current consumption	8.85	A
Mass flow	410	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	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, Superheat = 10 K**
**R134a**

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

**Cooling capacity in W**

22	6 036	7 604	9 480	11 663	14 151	-	-	-	-
30	5 535	7 015	8 800	10 889	13 282	15 977	-	-	-
40	4 904	6 239	7 877	9 816	12 055	14 594	17 433	-	-
50	-	5 436	6 889	8 640	10 689	13 035	15 677	-	-
60	-	-	5 855	7 381	9 202	11 317	13 725	-	-
70	-	-	-	6 056	7 611	9 458	11 595	-	-
73	-	-	-	5 648	7 117	8 876	10 923	-	-

**Power input in W**

22	1 610	1 639	1 656	1 664	1 666	-	-	-	-
30	1 926	1 962	1 986	2 001	2 011	2 020	-	-	-
40	2 383	2 427	2 461	2 486	2 507	2 528	2 551	-	-
50	-	2 989	3 032	3 069	3 101	3 134	3 170	-	-
60	-	-	3 727	3 776	3 820	3 866	3 915	-	-
70	-	-	-	4 634	4 692	4 751	4 815	-	-
73	-	-	-	4 925	4 987	5 051	5 118	-	-

**Current consumption in A**

22	5.13	5.15	5.16	5.18	5.19	-	-	-	-
30	5.52	5.55	5.57	5.59	5.60	5.62	-	-	-
40	6.23	6.26	6.28	6.31	6.33	6.34	6.35	-	-
50	-	7.24	7.27	7.30	7.32	7.34	7.35	-	-
60	-	-	8.58	8.60	8.62	8.65	8.66	-	-
70	-	-	-	10.27	10.29	10.31	10.32	-	-
73	-	-	-	10.84	10.87	10.88	10.90	-	-

**Mass flow in kg/h**

22	130	160	196	237	283	-	-	-	-
30	128	159	195	237	283	335	-	-	-
40	125	156	193	234	282	334	392	-	-
50	-	152	188	230	278	331	390	-	-
60	-	-	181	223	271	324	384	-	-
70	-	-	-	214	261	315	374	-	-
73	-	-	-	210	258	311	370	-	-

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

22	3.75	4.64	5.72	7.01	8.50	-	-	-	-
30	2.87	3.58	4.43	5.44	6.60	7.91	-	-	-
40	2.06	2.57	3.20	3.95	4.81	5.77	6.83	-	-
50	-	1.82	2.27	2.82	3.45	4.16	4.95	-	-
60	-	-	1.57	1.95	2.41	2.93	3.51	-	-
70	-	-	-	1.31	1.62	1.99	2.41	-	-
73	-	-	-	1.15	1.43	1.76	2.13	-	-

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

Cooling capacity	5 840	W
Power input	2 694	W
Current consumption	6.71	A
Mass flow	154	kg/h
C.O.P.	2.17	

**Pressure switch settings**

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

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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

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

**Cooling capacity in W**

22	6 132	7 693	9 554	11 713	14 174	-	-	-	-
30	-	7 145	8 913	10 974	13 327	15 977	-	-	-
40	-	-	8 039	9 942	12 127	14 594	17 351	-	-
50	-	-	7 099	8 808	10 787	13 035	15 552	-	-
60	-	-	-	7 587	9 325	11 317	-	-	-
70	-	-	-	-	7 758	9 458	-	-	-
73	-	-	-	-	7 270	8 876	-	-	-

**Power input in W**

22	1 610	1 639	1 656	1 664	1 666	-	-	-	-
30	-	1 962	1 986	2 001	2 011	2 020	-	-	-
40	-	-	2 461	2 486	2 507	2 528	2 551	-	-
50	-	-	3 032	3 069	3 101	3 134	3 170	-	-
60	-	-	-	3 776	3 820	3 866	-	-	-
70	-	-	-	-	4 692	4 751	-	-	-
73	-	-	-	-	4 987	5 051	-	-	-

**Current consumption in A**

22	5.13	5.15	5.16	5.18	5.19	-	-	-	-
30	-	5.55	5.57	5.59	5.60	5.62	-	-	-
40	-	-	6.28	6.31	6.33	6.34	6.35	-	-
50	-	-	7.27	7.30	7.32	7.34	7.35	-	-
60	-	-	-	8.60	8.62	8.65	-	-	-
70	-	-	-	-	10.29	10.31	-	-	-
73	-	-	-	-	10.87	10.88	-	-	-

**Mass flow in kg/h**

22	117	147	184	226	276	-	-	-	-
30	-	146	183	226	276	335	-	-	-
40	-	-	180	224	275	334	403	-	-
50	-	-	176	220	271	331	400	-	-
60	-	-	-	213	265	324	-	-	-
70	-	-	-	-	255	315	-	-	-
73	-	-	-	-	252	311	-	-	-

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

22	3.81	4.69	5.77	7.04	8.51	-	-	-	-
30	-	3.64	4.49	5.48	6.63	7.91	-	-	-
40	-	-	3.27	4.00	4.84	5.77	6.80	-	-
50	-	-	2.34	2.87	3.48	4.16	4.91	-	-
60	-	-	-	2.01	2.44	2.93	-	-	-
70	-	-	-	-	1.65	1.99	-	-	-
73	-	-	-	-	1.46	1.76	-	-	-

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

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900



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

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

**Cooling capacity in W**

22	7 365	9 293	11 582	14 244	17 287	-	-	-	-
30	6 802	8 636	10 817	13 356	16 263	19 548	-	-	-
40	5 951	7 640	9 659	12 018	14 728	17 799	21 241	-	-
50	-	6 534	8 361	10 511	12 994	15 821	19 001	-	-
60	-	-	7 013	8 924	11 151	13 704	16 593	-	-
70	-	-	-	7 348	9 289	11 538	14 107	-	-
73	-	-	-	6 891	8 740	10 893	13 359	-	-

**Power input in W**

22	2 044	2 087	2 127	2 175	2 239	-	-	-	-
30	2 399	2 447	2 486	2 527	2 578	2 649	-	-	-
40	2 938	3 001	3 047	3 086	3 128	3 183	3 259	-	-
50	-	3 680	3 741	3 788	3 830	3 876	3 936	-	-
60	-	-	4 581	4 643	4 693	4 740	4 793	-	-
70	-	-	-	5 663	5 730	5 785	5 839	-	-
73	-	-	-	6 003	6 076	6 136	6 192	-	-

**Current consumption in A**

22	5.08	5.12	5.13	5.11	5.09	-	-	-	-
30	5.44	5.49	5.51	5.51	5.51	5.50	-	-	-
40	6.12	6.16	6.18	6.19	6.19	6.19	6.20	-	-
50	-	7.19	7.19	7.18	7.16	7.15	7.15	-	-
60	-	-	8.64	8.58	8.53	8.48	8.46	-	-
70	-	-	-	10.52	10.41	10.31	10.24	-	-
73	-	-	-	11.23	11.09	10.98	10.88	-	-

**Mass flow in kg/h**

22	159	195	239	290	347	-	-	-	-
30	159	195	239	290	348	411	-	-	-
40	156	192	235	287	345	409	479	-	-
50	-	186	229	280	338	403	474	-	-
60	-	-	220	271	329	394	466	-	-
70	-	-	-	260	317	383	455	-	-
73	-	-	-	256	314	379	451	-	-

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

22	3.60	4.45	5.44	6.55	7.72	-	-	-	-
30	2.84	3.53	4.35	5.29	6.31	7.38	-	-	-
40	2.03	2.55	3.17	3.89	4.71	5.59	6.52	-	-
50	-	1.78	2.23	2.77	3.39	4.08	4.83	-	-
60	-	-	1.53	1.92	2.38	2.89	3.46	-	-
70	-	-	-	1.30	1.62	1.99	2.42	-	-
73	-	-	-	1.15	1.44	1.78	2.16	-	-

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

Cooling capacity	7 095	W
Power input	3 324	W
Current consumption	6.63	A
Mass flow	189	kg/h
C.O.P.	2.13	

**Pressure switch settings**

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

**Sound power data**

Sound power level	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**
**R134a**

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

**Cooling capacity in W**

22	7 482	9 401	11 672	14 305	17 315	-	-	-	-
30	-	8 796	10 956	13 460	16 318	19 548	-	-	-
40	-	-	9 858	12 173	14 816	17 799	21 142	-	-
50	-	-	8 615	10 715	13 114	15 821	18 850	-	-
60	-	-	-	9 173	11 301	13 704	-	-	-
70	-	-	-	-	9 468	11 538	-	-	-
73	-	-	-	-	8 929	10 893	-	-	-

**Power input in W**

22	2 044	2 087	2 127	2 175	2 239	-	-	-	-
30	-	2 447	2 486	2 527	2 578	2 649	-	-	-
40	-	-	3 047	3 086	3 128	3 183	3 259	-	-
50	-	-	3 741	3 788	3 830	3 876	3 936	-	-
60	-	-	-	4 643	4 693	4 740	-	-	-
70	-	-	-	-	5 730	5 785	-	-	-
73	-	-	-	-	6 076	6 136	-	-	-

**Current consumption in A**

22	5.08	5.12	5.13	5.11	5.09	-	-	-	-
30	-	5.49	5.51	5.51	5.51	5.50	-	-	-
40	-	-	6.18	6.19	6.19	6.19	6.20	-	-
50	-	-	7.19	7.18	7.16	7.15	7.15	-	-
60	-	-	-	8.58	8.53	8.48	-	-	-
70	-	-	-	-	10.41	10.31	-	-	-
73	-	-	-	-	11.09	10.98	-	-	-

**Mass flow in kg/h**

22	143	179	224	277	339	-	-	-	-
30	-	179	224	277	340	411	-	-	-
40	-	-	220	274	337	409	491	-	-
50	-	-	214	267	330	403	487	-	-
60	-	-	-	258	321	394	-	-	-
70	-	-	-	-	310	383	-	-	-
73	-	-	-	-	306	379	-	-	-

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

22	3.66	4.50	5.49	6.58	7.73	-	-	-	-
30	-	3.59	4.41	5.33	6.33	7.38	-	-	-
40	-	-	3.24	3.94	4.74	5.59	6.49	-	-
50	-	-	2.30	2.83	3.42	4.08	4.79	-	-
60	-	-	-	1.98	2.41	2.89	-	-	-
70	-	-	-	-	1.65	1.99	-	-	-
73	-	-	-	-	1.47	1.78	-	-	-

**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 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	7 429	9 362	11 671	14 406	-	-	-	-	-
20	6 452	8 259	10 412	12 959	15 947	19 424	-	-	-
30	5 421	7 084	9 062	11 402	14 153	17 361	21 075	25 343	-
40	4 352	5 854	7 638	9 754	12 249	15 170	18 565	22 483	-
45	-	5 223	6 904	8 900	11 260	14 031	17 260	20 996	-
50	-	-	6 158	8 030	10 250	12 866	15 924	19 474	-
55	-	-	-	7 145	9 221	11 677	14 560	17 919	-
60	-	-	-	-	8 175	10 466	13 170	16 333	-

Power input in W

10	2 076	2 115	2 126	2 098	-	-	-	-	-
20	2 534	2 589	2 633	2 656	2 649	2 601	-	-	-
30	3 155	3 192	3 236	3 277	3 305	3 310	3 282	3 211	-
40	4 041	4 026	4 036	4 061	4 090	4 115	4 124	4 107	-
45	-	4 561	4 541	4 545	4 563	4 584	4 599	4 597	-
50	-	-	5 134	5 109	5 106	5 116	5 128	5 132	-
55	-	-	-	5 763	5 732	5 721	5 722	5 724	-
60	-	-	-	-	6 453	6 414	6 395	6 386	-

Current consumption in A

10	5.86	5.87	5.88	5.90	-	-	-	-	-
20	6.19	6.22	6.24	6.26	6.28	6.30	-	-	-
30	6.77	6.80	6.83	6.85	6.88	6.91	6.93	6.94	-
40	7.64	7.67	7.70	7.73	7.76	7.79	7.82	7.84	-
45	-	8.23	8.26	8.30	8.33	8.36	8.39	8.41	-
50	-	-	8.92	8.95	8.98	9.02	9.05	9.07	-
55	-	-	-	9.70	9.74	9.77	9.80	9.83	-
60	-	-	-	-	10.60	10.63	10.66	10.68	-

Mass flow in kg/h

10	145	180	221	269	-	-	-	-	-
20	137	173	214	262	317	380	-	-	-
30	127	162	204	252	307	371	444	526	-
40	113	149	191	239	294	358	431	514	-
45	-	141	183	231	287	351	424	507	-
50	-	-	174	222	278	342	415	499	-
55	-	-	-	212	268	332	406	489	-
60	-	-	-	-	257	322	395	479	-

Coefficient of performance (C.O.P.)

10	3.58	4.43	5.49	6.87	-	-	-	-	-
20	2.55	3.19	3.95	4.88	6.02	7.47	-	-	-
30	1.72	2.22	2.80	3.48	4.28	5.24	6.42	7.89	-
40	1.08	1.45	1.89	2.40	2.99	3.69	4.50	5.47	-
45	-	1.15	1.52	1.96	2.47	3.06	3.75	4.57	-
50	-	-	1.20	1.57	2.01	2.51	3.11	3.79	-
55	-	-	-	1.24	1.61	2.04	2.54	3.13	-
60	-	-	-	-	1.27	1.63	2.06	2.56	-

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

Cooling capacity	8 900	W
Power input	4 545	W
Current consumption	8.30	A
Mass flow	231	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	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	7 890	9 933	12 372	15 257	-	-	-	-	-
20	6 902	8 826	11 114	13 818	16 987	20 671	-	-	-
30	5 854	7 640	9 760	12 264	15 204	18 628	22 588	27 132	-
40	4 759	6 389	8 323	10 611	13 304	16 452	20 107	24 317	-
45	-	5 745	7 579	9 752	12 316	15 320	18 817	22 856	-
50	-	-	6 820	8 875	11 306	14 163	17 499	21 363	-
55	-	-	-	7 983	10 277	12 985	16 157	19 845	-
60	-	-	-	-	-	11 791	14 800	18 311	-

**Power input in W**

10	2 076	2 115	2 126	2 098	-	-	-	-	-
20	2 534	2 589	2 633	2 656	2 649	2 601	-	-	-
30	3 155	3 192	3 236	3 277	3 305	3 310	3 282	3 211	-
40	4 041	4 026	4 036	4 061	4 090	4 115	4 124	4 107	-
45	-	4 561	4 541	4 545	4 563	4 584	4 599	4 597	-
50	-	-	5 134	5 109	5 106	5 116	5 128	5 132	-
55	-	-	-	5 763	5 732	5 721	5 722	5 724	-
60	-	-	-	-	-	6 414	6 395	6 386	-

**Current consumption in A**

10	5.86	5.87	5.88	5.90	-	-	-	-	-
20	6.19	6.22	6.24	6.26	6.28	6.30	-	-	-
30	6.77	6.80	6.83	6.85	6.88	6.91	6.93	6.94	-
40	7.64	7.67	7.70	7.73	7.76	7.79	7.82	7.84	-
45	-	8.23	8.26	8.30	8.33	8.36	8.39	8.41	-
50	-	-	8.92	8.95	8.98	9.02	9.05	9.07	-
55	-	-	-	9.70	9.74	9.77	9.80	9.83	-
60	-	-	-	-	-	10.63	10.66	10.68	-

**Mass flow in kg/h**

10	144	179	220	268	-	-	-	-	-
20	136	172	213	260	315	378	-	-	-
30	126	161	203	250	305	369	441	523	-
40	113	148	190	237	293	356	429	511	-
45	-	141	182	230	285	349	421	504	-
50	-	-	173	221	276	340	413	496	-
55	-	-	-	211	267	330	403	486	-
60	-	-	-	-	-	320	393	476	-

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

10	3.80	4.70	5.82	7.27	-	-	-	-	-
20	2.72	3.41	4.22	5.20	6.41	7.95	-	-	-
30	1.86	2.39	3.02	3.74	4.60	5.63	6.88	8.45	-
40	1.18	1.59	2.06	2.61	3.25	4.00	4.88	5.92	-
45	-	1.26	1.67	2.15	2.70	3.34	4.09	4.97	-
50	-	-	1.33	1.74	2.21	2.77	3.41	4.16	-
55	-	-	-	1.39	1.79	2.27	2.82	3.47	-
60	-	-	-	-	-	1.84	2.31	2.87	-

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

Cooling capacity	9 752	W
Power input	4 545	W
Current consumption	8.30	A
Mass flow	230	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	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	9 001	11 422	14 320	17 755	-	-	-	-	-
20	7 789	10 021	12 684	15 836	19 535	23 837	-	-	-
30	6 571	8 607	11 026	13 886	17 245	21 161	25 691	30 893	-
40	5 354	7 183	9 348	11 908	14 919	18 440	22 528	27 240	-
45	-	6 469	8 505	10 910	13 744	17 064	20 927	25 390	-
50	-	-	7 658	9 908	12 562	15 678	19 314	23 527	-
55	-	-	-	8 901	11 373	14 284	17 690	21 651	-
60	-	-	-	-	10 178	12 881	16 056	19 761	-

**Power input in W**

10	2 433	2 494	2 517	2 492	-	-	-	-	-
20	2 977	3 060	3 121	3 147	3 128	3 053	-	-	-
30	3 692	3 767	3 835	3 883	3 901	3 876	3 799	3 657	-
40	4 682	4 720	4 764	4 804	4 828	4 824	4 782	4 690	-
45	-	5 320	5 341	5 365	5 381	5 377	5 341	5 263	-
50	-	-	6 011	6 012	6 012	5 999	5 962	5 890	-
55	-	-	-	6 756	6 733	6 704	6 659	6 585	-
60	-	-	-	-	7 557	7 504	7 443	7 361	-

**Current consumption in A**

10	5.68	5.79	5.83	5.83	-	-	-	-	-
20	5.97	6.10	6.19	6.23	6.24	6.21	-	-	-
30	6.48	6.62	6.72	6.78	6.81	6.81	6.81	6.79	-
40	7.36	7.49	7.57	7.62	7.64	7.65	7.65	7.65	-
45	-	8.09	8.16	8.19	8.20	8.20	8.20	8.19	-
50	-	-	8.88	8.89	8.88	8.87	8.85	8.83	-
55	-	-	-	9.73	9.70	9.66	9.62	9.59	-
60	-	-	-	-	10.67	10.60	10.54	10.49	-

**Mass flow in kg/h**

10	175	220	272	331	-	-	-	-	-
20	165	209	261	320	388	467	-	-	-
30	153	197	248	307	374	452	541	641	-
40	139	183	233	291	359	435	523	623	-
45	-	175	225	283	350	426	514	613	-
50	-	-	216	274	341	417	504	602	-
55	-	-	-	265	331	407	493	591	-
60	-	-	-	-	320	396	482	580	-

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

10	3.70	4.58	5.69	7.12	-	-	-	-	-
20	2.62	3.27	4.06	5.03	6.24	7.81	-	-	-
30	1.78	2.28	2.87	3.58	4.42	5.46	6.76	8.45	-
40	1.14	1.52	1.96	2.48	3.09	3.82	4.71	5.81	-
45	-	1.22	1.59	2.03	2.55	3.17	3.92	4.82	-
50	-	-	1.27	1.65	2.09	2.61	3.24	3.99	-
55	-	-	-	1.32	1.69	2.13	2.66	3.29	-
60	-	-	-	-	1.35	1.72	2.16	2.68	-

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

Cooling capacity	10 910	W
Power input	5 365	W
Current consumption	8.19	A
Mass flow	283	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	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 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	9 559	12 118	15 179	18 803	-	-	-	-	-
20	8 333	10 709	13 540	16 887	20 809	25 367	-	-	-
30	7 097	9 282	11 874	14 936	18 526	22 706	27 535	33 074	-
40	5 854	7 840	10 186	12 954	16 205	19 999	24 398	29 462	-
45	-	7 115	9 336	11 954	15 033	18 633	22 814	27 639	-
50	-	-	8 482	10 950	13 856	17 260	21 224	25 809	-
55	-	-	-	9 944	12 676	15 884	19 631	23 978	-
60	-	-	-	-	-	14 512	18 043	22 154	-

Power input in W

10	2 433	2 494	2 517	2 492	-	-	-	-	-
20	2 977	3 060	3 121	3 147	3 128	3 053	-	-	-
30	3 692	3 767	3 835	3 883	3 901	3 876	3 799	3 657	-
40	4 682	4 720	4 764	4 804	4 828	4 824	4 782	4 690	-
45	-	5 320	5 341	5 365	5 381	5 377	5 341	5 263	-
50	-	-	6 011	6 012	6 012	5 999	5 962	5 890	-
55	-	-	-	6 756	6 733	6 704	6 659	6 585	-
60	-	-	-	-	-	7 504	7 443	7 361	-

Current consumption in A

10	5.68	5.79	5.83	5.83	-	-	-	-	-
20	5.97	6.10	6.19	6.23	6.24	6.21	-	-	-
30	6.48	6.62	6.72	6.78	6.81	6.81	6.81	6.79	-
40	7.36	7.49	7.57	7.62	7.64	7.65	7.65	7.65	-
45	-	8.09	8.16	8.19	8.20	8.20	8.20	8.19	-
50	-	-	8.88	8.89	8.88	8.87	8.85	8.83	-
55	-	-	-	9.73	9.70	9.66	9.62	9.59	-
60	-	-	-	-	-	10.60	10.54	10.49	-

Mass flow in kg/h

10	175	219	270	330	-	-	-	-	-
20	164	208	259	318	386	464	-	-	-
30	153	196	247	305	372	449	538	638	-
40	139	182	232	290	357	433	520	619	-
45	-	174	224	282	348	424	511	609	-
50	-	-	215	273	339	414	501	599	-
55	-	-	-	263	329	404	490	588	-
60	-	-	-	-	-	393	479	576	-

Coefficient of performance (C.O.P.)

10	3.93	4.86	6.03	7.55	-	-	-	-	-
20	2.80	3.50	4.34	5.37	6.65	8.31	-	-	-
30	1.92	2.46	3.10	3.85	4.75	5.86	7.25	9.04	-
40	1.25	1.66	2.14	2.70	3.36	4.15	5.10	6.28	-
45	-	1.34	1.75	2.23	2.79	3.47	4.27	5.25	-
50	-	-	1.41	1.82	2.30	2.88	3.56	4.38	-
55	-	-	-	1.47	1.88	2.37	2.95	3.64	-
60	-	-	-	-	-	1.93	2.42	3.01	-

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

Cooling capacity	11 954	W
Power input	5 365	W
Current consumption	8.19	A
Mass flow	282	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	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 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	8 685	9 949	12 362	15 200	-	-	-	-	-
20	7 648	8 837	11 102	13 763	16 870	20 472	-	-	-
30	6 539	7 641	9 738	12 203	15 084	18 432	22 293	26 718	-
40	5 374	6 377	8 286	10 534	13 170	16 242	19 800	23 892	-
45	-	-	7 532	9 664	12 169	15 096	18 494	22 412	-
50	-	-	-	8 772	11 142	13 919	17 152	20 891	-
55	-	-	-	-	10 089	12 711	15 775	19 330	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	2 211	2 237	2 250	2 208	-	-	-	-	-
20	2 701	2 739	2 793	2 818	2 797	2 710	-	-	-
30	3 369	3 392	3 442	3 491	3 520	3 511	3 445	3 303	-
40	4 330	4 311	4 312	4 340	4 375	4 400	4 394	4 340	-
45	-	-	4 866	4 867	4 889	4 913	4 921	4 893	-
50	-	-	-	5 480	5 477	5 490	5 501	5 489	-
55	-	-	-	-	6 156	6 147	6 149	6 143	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	6.21	6.20	6.20	6.20	-	-	-	-	-
20	6.59	6.60	6.61	6.62	6.63	6.64	-	-	-
30	7.23	7.24	7.26	7.28	7.30	7.32	7.34	7.35	-
40	8.20	8.21	8.23	8.26	8.28	8.31	8.33	8.34	-
45	-	-	8.85	8.88	8.91	8.93	8.96	8.97	-
50	-	-	-	9.60	9.63	9.66	9.68	9.70	-
55	-	-	-	-	10.46	10.49	10.51	10.53	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	152	173	212	257	-	-	-	-	-
20	144	165	205	251	303	363	-	-	-
30	134	156	195	241	294	355	424	502	-
40	122	143	183	229	282	343	412	491	-
45	-	-	175	221	274	335	405	484	-
50	-	-	-	213	266	327	397	476	-
55	-	-	-	-	256	318	387	467	-
60	-	-	-	-	-	-	-	-	-

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

10	3.93	4.45	5.49	6.88	-	-	-	-	-
20	2.83	3.23	3.98	4.88	6.03	7.55	-	-	-
30	1.94	2.25	2.83	3.50	4.29	5.25	6.47	8.09	-
40	1.24	1.48	1.92	2.43	3.01	3.69	4.51	5.51	-
45	-	-	1.55	1.99	2.49	3.07	3.76	4.58	-
50	-	-	-	1.60	2.03	2.54	3.12	3.81	-
55	-	-	-	-	1.64	2.07	2.57	3.15	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	9 664	W
Power input	4 867	W
Current consumption	8.88	A
Mass flow	221	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	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	9 179	10 510	13 049	16 034	-	-	-	-	-
20	8 132	9 391	11 788	14 602	17 885	21 686	-	-	-
30	7 006	8 181	10 416	13 040	16 104	19 659	23 758	28 450	-
40	-	6 895	8 948	11 362	14 189	17 480	21 286	25 660	-
45	-	-	8 183	10 485	13 187	16 339	19 993	24 202	-
50	-	-	-	9 586	12 158	15 168	18 667	22 708	-
55	-	-	-	-	-	13 972	17 314	21 186	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	2 211	2 237	2 250	2 208	-	-	-	-	-
20	2 701	2 739	2 793	2 818	2 797	2 710	-	-	-
30	3 369	3 392	3 442	3 491	3 520	3 511	3 445	3 303	-
40	-	4 311	4 312	4 340	4 375	4 400	4 394	4 340	-
45	-	-	4 866	4 867	4 889	4 913	4 921	4 893	-
50	-	-	-	5 480	5 477	5 490	5 501	5 489	-
55	-	-	-	-	-	6 147	6 149	6 143	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	6.21	6.20	6.20	6.20	-	-	-	-	-
20	6.59	6.60	6.61	6.62	6.63	6.64	-	-	-
30	7.23	7.24	7.26	7.28	7.30	7.32	7.34	7.35	-
40	-	8.21	8.23	8.26	8.28	8.31	8.33	8.34	-
45	-	-	8.85	8.88	8.91	8.93	8.96	8.97	-
50	-	-	-	9.60	9.63	9.66	9.68	9.70	-
55	-	-	-	-	-	10.49	10.51	10.53	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	151	172	211	256	-	-	-	-	-
20	143	164	204	249	301	361	-	-	-
30	134	155	194	240	292	353	421	499	-
40	-	142	182	227	280	341	410	488	-
45	-	-	174	220	273	333	402	481	-
50	-	-	-	211	264	325	394	473	-
55	-	-	-	-	-	316	385	464	-
60	-	-	-	-	-	-	-	-	-

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

10	4.15	4.70	5.80	7.26	-	-	-	-	-
20	3.01	3.43	4.22	5.18	6.39	8.00	-	-	-
30	2.08	2.41	3.03	3.74	4.57	5.60	6.90	8.61	-
40	-	1.60	2.08	2.62	3.24	3.97	4.84	5.91	-
45	-	-	1.68	2.15	2.70	3.33	4.06	4.95	-
50	-	-	-	1.75	2.22	2.76	3.39	4.14	-
55	-	-	-	-	-	2.27	2.82	3.45	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	10 485	W
Power input	4 867	W
Current consumption	8.88	A
Mass flow	220	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	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	10 553	12 135	15 164	18 734	-	-	-	-	-
20	9 255	10 723	13 524	16 820	20 669	25 130	-	-	-
30	7 937	9 285	11 849	14 861	18 381	22 467	27 177	32 571	-
40	6 603	7 825	10 141	12 861	16 041	19 742	24 022	28 939	-
45	-	-	9 277	11 846	14 854	18 358	22 419	27 094	-
50	-	-	-	10 823	13 655	16 961	20 800	25 230	-
55	-	-	-	-	12 445	15 550	19 165	23 348	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	2 593	2 626	2 654	2 643	-	-	-	-	-
20	3 191	3 237	3 293	3 320	3 309	3 255	-	-	-
30	3 969	4 013	4 075	4 116	4 129	4 107	4 044	3 933	-
40	5 024	5 053	5 096	5 128	5 141	5 129	5 085	5 002	-
45	-	-	5 726	5 745	5 749	5 733	5 690	5 612	-
50	-	-	-	6 452	6 442	6 416	6 368	6 290	-
55	-	-	-	-	7 231	7 190	7 130	7 046	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	6.05	6.10	6.14	6.13	-	-	-	-	-
20	6.40	6.47	6.55	6.59	6.58	6.55	-	-	-
30	6.98	7.06	7.15	7.21	7.23	7.22	7.20	7.17	-
40	7.95	8.02	8.09	8.14	8.16	8.16	8.15	8.13	-
45	-	-	8.74	8.77	8.78	8.77	8.75	8.73	-
50	-	-	-	9.54	9.53	9.50	9.47	9.44	-
55	-	-	-	-	10.43	10.38	10.33	10.28	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	184	210	260	317	-	-	-	-	-
20	175	201	250	306	372	446	-	-	-
30	163	189	238	294	358	432	517	613	-
40	150	175	224	279	343	417	500	595	-
45	-	-	216	271	335	408	491	585	-
50	-	-	-	262	326	398	481	575	-
55	-	-	-	-	316	388	471	564	-
60	-	-	-	-	-	-	-	-	-

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

10	4.07	4.62	5.71	7.09	-	-	-	-	-
20	2.90	3.31	4.11	5.07	6.25	7.72	-	-	-
30	2.00	2.31	2.91	3.61	4.45	5.47	6.72	8.28	-
40	1.31	1.55	1.99	2.51	3.12	3.85	4.72	5.79	-
45	-	-	1.62	2.06	2.58	3.20	3.94	4.83	-
50	-	-	-	1.68	2.12	2.64	3.27	4.01	-
55	-	-	-	-	1.72	2.16	2.69	3.31	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	11 846	W
Power input	5 745	W
Current consumption	8.77	A
Mass flow	271	kg/h
C.O.P.	2.06	

**Pressure switch settings**

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

**Sound power data**

Sound power level	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 60 Hz, ARI rating conditions**
**R407F**

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

**Cooling capacity in W**

10	11 153	12 820	16 008	19 762	-	-	-	-	-
20	9 840	11 395	14 360	17 845	21 912	26 621	-	-	-
30	8 503	9 941	12 673	15 880	19 623	23 963	28 963	34 683	-
40	-	8 460	10 951	13 871	17 283	21 247	25 826	31 081	-
45	-	-	10 079	12 853	16 096	19 869	24 236	29 258	-
50	-	-	-	11 828	14 901	18 483	22 637	27 425	-
55	-	-	-	-	-	17 093	21 035	25 590	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	2 593	2 626	2 654	2 643	-	-	-	-	-
20	3 191	3 237	3 293	3 320	3 309	3 255	-	-	-
30	3 969	4 013	4 075	4 116	4 129	4 107	4 044	3 933	-
40	-	5 053	5 096	5 128	5 141	5 129	5 085	5 002	-
45	-	-	5 726	5 745	5 749	5 733	5 690	5 612	-
50	-	-	-	6 452	6 442	6 416	6 368	6 290	-
55	-	-	-	-	-	7 190	7 130	7 046	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	6.05	6.10	6.14	6.13	-	-	-	-	-
20	6.40	6.47	6.55	6.59	6.58	6.55	-	-	-
30	6.98	7.06	7.15	7.21	7.23	7.22	7.20	7.17	-
40	-	8.02	8.09	8.14	8.16	8.16	8.15	8.13	-
45	-	-	8.74	8.77	8.78	8.77	8.75	8.73	-
50	-	-	-	9.54	9.53	9.50	9.47	9.44	-
55	-	-	-	-	-	10.38	10.33	10.28	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	183	209	258	315	-	-	-	-	-
20	174	200	248	305	369	444	-	-	-
30	162	188	236	292	356	430	514	609	-
40	-	174	222	278	341	414	497	591	-
45	-	-	215	270	333	405	488	581	-
50	-	-	-	261	324	396	478	571	-
55	-	-	-	-	-	386	468	560	-
60	-	-	-	-	-	-	-	-	-

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

10	4.30	4.88	6.03	7.48	-	-	-	-	-
20	3.08	3.52	4.36	5.38	6.62	8.18	-	-	-
30	2.14	2.48	3.11	3.86	4.75	5.83	7.16	8.82	-
40	-	1.67	2.15	2.71	3.36	4.14	5.08	6.21	-
45	-	-	1.76	2.24	2.80	3.47	4.26	5.21	-
50	-	-	-	1.83	2.31	2.88	3.55	4.36	-
55	-	-	-	-	-	2.38	2.95	3.63	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	12 853	W
Power input	5 745	W
Current consumption	8.77	A
Mass flow	270	kg/h
C.O.P.	2.24	

**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 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	5 696	7 236	9 091	11 307	13 929	-	-	-	-
20	5 141	6 637	8 409	10 502	12 961	15 833	19 164	-	-
30	-	-	7 577	9 510	11 770	14 403	17 454	20 970	24 997
40	-	-	-	8 378	10 401	12 758	15 493	18 653	22 285
50	-	-	-	-	8 899	10 943	13 326	16 094	19 292
60	-	-	-	-	-	-	10 997	13 336	16 066

**Power input in W**

10	1 936	1 952	1 978	2 014	2 060	-	-	-	-
20	2 462	2 468	2 487	2 518	2 560	2 615	2 680	-	-
30	-	-	3 146	3 160	3 187	3 229	3 283	3 351	3 432
40	-	-	-	4 036	4 038	4 055	4 087	4 134	4 197
50	-	-	-	-	5 208	5 189	5 188	5 204	5 236
60	-	-	-	-	-	-	6 683	6 656	6 648

**Current consumption in A**

10	5.92	5.93	5.95	5.97	6.00	-	-	-	-
20	6.31	6.33	6.35	6.38	6.41	6.46	6.51	-	-
30	-	-	6.95	6.98	7.02	7.05	7.10	7.15	7.21
40	-	-	-	7.90	7.93	7.96	7.99	8.03	8.08
50	-	-	-	-	9.29	9.30	9.32	9.34	9.36
60	-	-	-	-	-	-	11.21	11.21	11.20

**Mass flow in kg/h**

10	93	119	150	187	231	-	-	-	-
20	90	117	149	186	231	284	347	-	-
30	-	-	145	182	227	280	343	417	503
40	-	-	-	176	220	272	335	408	493
50	-	-	-	-	209	261	321	393	477
60	-	-	-	-	-	-	304	374	455

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

10	2.94	3.71	4.60	5.61	6.76	-	-	-	-
20	2.09	2.69	3.38	4.17	5.06	6.06	7.15	-	-
30	-	-	2.41	3.01	3.69	4.46	5.32	6.26	7.28
40	-	-	-	2.08	2.58	3.15	3.79	4.51	5.31
50	-	-	-	-	1.71	2.11	2.57	3.09	3.68
60	-	-	-	-	-	-	1.65	2.00	2.42

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

Cooling capacity	9 664	W
Power input	4 577	W
Current consumption	8.55	A
Mass flow	215	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		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	5 720	7 272	9 142	11 377	14 019	-	-	-	-
20	5 095	6 595	8 374	10 480	12 958	15 851	19 200	-	-
30	4 398	5 806	7 456	9 396	11 672	14 330	17 413	20 959	24 997
40	-	-	6 436	8 172	10 209	12 595	15 375	18 593	22 285
50	-	-	-	6 857	8 617	10 692	13 132	15 984	19 292
60	-	-	-	-	6 943	8 670	10 731	13 178	16 066

**Power input in W**

10	1 936	1 952	1 978	2 014	2 060	-	-	-	-
20	2 462	2 468	2 487	2 518	2 560	2 615	2 680	-	-
30	3 160	3 145	3 146	3 160	3 187	3 229	3 283	3 351	3 432
40	-	-	4 050	4 036	4 038	4 055	4 087	4 134	4 197
50	-	-	-	5 243	5 208	5 189	5 188	5 204	5 236
60	-	-	-	-	6 794	6 729	6 683	6 656	6 648

**Current consumption in A**

10	5.92	5.93	5.95	5.97	6.00	-	-	-	-
20	6.31	6.33	6.35	6.38	6.41	6.46	6.51	-	-
30	6.90	6.93	6.95	6.98	7.02	7.05	7.10	7.15	7.21
40	-	-	7.88	7.90	7.93	7.96	7.99	8.03	8.08
50	-	-	-	9.28	9.29	9.30	9.32	9.34	9.36
60	-	-	-	-	11.23	11.22	11.21	11.21	11.20

**Mass flow in kg/h**

10	110	138	171	209	254	-	-	-	-
20	107	136	169	208	254	306	365	-	-
30	102	132	165	204	249	301	361	428	503
40	-	-	158	197	241	293	352	419	493
50	-	-	-	186	230	280	338	404	477
60	-	-	-	-	215	263	320	384	455

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

10	2.95	3.73	4.62	5.65	6.80	-	-	-	-
20	2.07	2.67	3.37	4.16	5.06	6.06	7.16	-	-
30	1.39	1.85	2.37	2.97	3.66	4.44	5.30	6.25	7.28
40	-	-	1.59	2.02	2.53	3.11	3.76	4.50	5.31
50	-	-	-	1.31	1.65	2.06	2.53	3.07	3.68
60	-	-	-	-	1.02	1.29	1.61	1.98	2.42

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

Cooling capacity	9 426	W
Power input	4 577	W
Current consumption	8.55	A
Mass flow	236	kg/h
C.O.P.	2.06	

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

**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	5 696	7 236	9 091	11 307	13 929	-	-	-	-
20	5 141	6 637	8 409	10 502	12 961	15 833	19 164	-	-
30	-	-	7 577	9 510	11 770	14 403	17 454	20 970	24 997
40	-	-	-	8 378	10 401	12 758	15 493	18 653	22 285
50	-	-	-	-	8 899	10 943	13 326	16 094	19 292
60	-	-	-	-	-	-	10 997	13 336	16 066

**Power input in W**

10	1 936	1 952	1 978	2 014	2 060	-	-	-	-
20	2 462	2 468	2 487	2 518	2 560	2 615	2 680	-	-
30	-	-	3 146	3 160	3 187	3 229	3 283	3 351	3 432
40	-	-	-	4 036	4 038	4 055	4 087	4 134	4 197
50	-	-	-	-	5 208	5 189	5 188	5 204	5 236
60	-	-	-	-	-	-	6 683	6 656	6 648

**Current consumption in A**

10	5.92	5.93	5.95	5.97	6.00	-	-	-	-
20	6.31	6.33	6.35	6.38	6.41	6.46	6.51	-	-
30	-	-	6.95	6.98	7.02	7.05	7.10	7.15	7.21
40	-	-	-	7.90	7.93	7.96	7.99	8.03	8.08
50	-	-	-	-	9.29	9.30	9.32	9.34	9.36
60	-	-	-	-	-	-	11.21	11.21	11.20

**Mass flow in kg/h**

10	93	119	150	187	231	-	-	-	-
20	90	117	149	186	231	284	347	-	-
30	-	-	145	182	227	280	343	417	503
40	-	-	-	176	220	272	335	408	493
50	-	-	-	-	209	261	321	393	477
60	-	-	-	-	-	-	304	374	455

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

10	2.94	3.71	4.60	5.61	6.76	-	-	-	-
20	2.09	2.69	3.38	4.17	5.06	6.06	7.15	-	-
30	-	-	2.41	3.01	3.69	4.46	5.32	6.26	7.28
40	-	-	-	2.08	2.58	3.15	3.79	4.51	5.31
50	-	-	-	-	1.71	2.11	2.57	3.09	3.68
60	-	-	-	-	-	-	1.65	2.00	2.42

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

Cooling capacity	9 664	W
Power input	4 577	W
Current consumption	8.55	A
Mass flow	215	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		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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

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

**Cooling capacity in W**

10	5 707	7 258	9 129	11 363	14 006	-	-	-	-
20	5 082	6 580	8 359	10 465	12 944	15 838	19 190	-	-
30	4 385	5 791	7 440	9 379	11 656	14 316	17 402	20 952	24 997
40	-	-	6 419	8 155	10 192	12 580	15 363	18 586	22 285
50	-	-	-	6 839	8 600	10 677	13 120	15 976	19 292
60	-	-	-	-	6 925	8 654	10 718	13 171	16 066

**Power input in W**

10	1 936	1 952	1 978	2 014	2 060	-	-	-	-
20	2 462	2 468	2 487	2 518	2 560	2 615	2 680	-	-
30	3 160	3 145	3 146	3 160	3 187	3 229	3 283	3 351	3 432
40	-	-	4 050	4 036	4 038	4 055	4 087	4 134	4 197
50	-	-	-	5 243	5 208	5 189	5 188	5 204	5 236
60	-	-	-	-	6 794	6 729	6 683	6 656	6 648

**Current consumption in A**

10	5.92	5.93	5.95	5.97	6.00	-	-	-	-
20	6.31	6.33	6.35	6.38	6.41	6.46	6.51	-	-
30	6.90	6.93	6.95	6.98	7.02	7.05	7.10	7.15	7.21
40	-	-	7.88	7.90	7.93	7.96	7.99	8.03	8.08
50	-	-	-	9.28	9.29	9.30	9.32	9.34	9.36
60	-	-	-	-	11.23	11.22	11.21	11.21	11.20

**Mass flow in kg/h**

10	110	138	171	209	254	-	-	-	-
20	107	136	169	208	254	306	365	-	-
30	102	132	165	204	249	301	361	428	503
40	-	-	158	197	241	293	352	419	493
50	-	-	-	186	230	280	338	404	477
60	-	-	-	-	215	263	319	384	455

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

10	2.95	3.72	4.62	5.64	6.80	-	-	-	-
20	2.06	2.67	3.36	4.16	5.06	6.06	7.16	-	-
30	1.39	1.84	2.37	2.97	3.66	4.43	5.30	6.25	7.28
40	-	-	1.59	2.02	2.52	3.10	3.76	4.50	5.31
50	-	-	-	1.30	1.65	2.06	2.53	3.07	3.68
60	-	-	-	-	1.02	1.29	1.60	1.98	2.42

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

Cooling capacity	9 409	W
Power input	4 577	W
Current consumption	8.55	A
Mass flow	236	kg/h
C.O.P.	2.06	

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