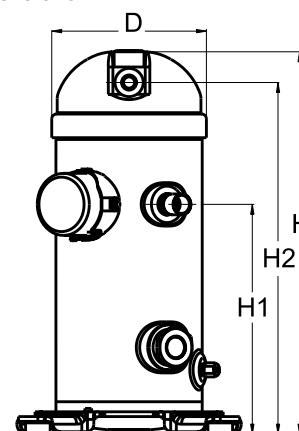


**General Characteristics**

Model number (on compressor nameplate)		<b>MLZ026T4LP9A</b>
Code number for Singlepack*		121L8637
Code number for Industrial pack**		121L8636
Drawing number		0XC6300B-1
Suction and discharge connections		Brazed
Suction connection		3/4 " 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		57.11 cm <sup>3</sup> /rev
Displacement @ Nominal speed		9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 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		3.63 kg
Approved refrigerants		R404A, R134a, R407A, R407F, R448A, R449A

**Dimensions**

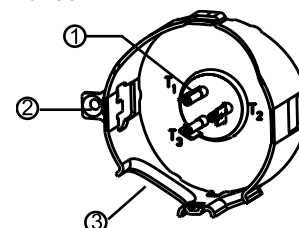


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**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	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	3.422 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	4.664 Ω
Rated Load Amps (RLA)	6.4 A
Maximum Continuous Current (MCC)	10 A
Locked Rotor Amps (LRA)	45 A
Motor protection	Internal overload protector

**Terminal box**



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

**Recommended Installation torques**

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

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

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

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

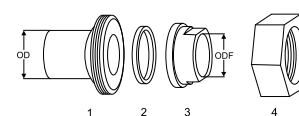
\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

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

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, 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, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
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, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

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

Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

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

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

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

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

**Cooling capacity in W**

10	4 034	4 984	6 144	7 538	9 185	-	-	-	-
20	3 575	4 443	5 493	6 744	8 218	9 939	11 926	-	-
30	3 142	3 925	4 858	5 962	7 260	8 772	10 520	12 527	14 813
40	-	3 411	4 223	5 176	6 291	7 591	9 095	10 828	12 810
50	-	-	3 570	4 367	5 295	6 377	7 634	9 087	10 759
60	-	-	-	-	4 254	5 113	6 117	7 287	8 645

**Power input in W**

10	1 231	1 249	1 265	1 279	1 292	-	-	-	-
20	1 559	1 580	1 598	1 614	1 627	1 639	1 650	-	-
30	1 981	2 002	2 020	2 034	2 046	2 055	2 062	2 067	2 071
40	-	2 548	2 563	2 573	2 580	2 584	2 585	2 583	2 579
50	-	-	3 262	3 266	3 265	3 261	3 253	3 242	3 228
60	-	-	-	-	4 135	4 120	4 100	4 077	4 050

**Current consumption in A**

10	3.84	3.73	3.62	3.52	3.43	-	-	-	-
20	3.87	3.82	3.79	3.75	3.73	3.71	3.70	-	-
30	4.13	4.13	4.13	4.14	4.15	4.17	4.19	4.23	4.28
40	-	4.75	4.75	4.77	4.78	4.80	4.83	4.87	4.93
50	-	-	5.74	5.73	5.72	5.71	5.72	5.73	5.75
60	-	-	-	-	7.05	6.99	6.93	6.88	6.84

**Mass flow in kg/h**

10	81	101	125	154	189	-	-	-	-
20	78	98	122	151	184	225	273	-	-
30	76	96	119	147	180	220	267	323	389
40	-	93	116	143	176	215	261	316	381
50	-	-	113	140	171	210	255	309	373
60	-	-	-	-	167	205	250	303	365

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

10	3.28	3.99	4.86	5.89	7.11	-	-	-	-
20	2.29	2.81	3.44	4.18	5.05	6.06	7.23	-	-
30	1.59	1.96	2.41	2.93	3.55	4.27	5.10	6.06	7.15
40	-	1.34	1.65	2.01	2.44	2.94	3.52	4.19	4.97
50	-	-	1.09	1.34	1.62	1.96	2.35	2.80	3.33
60	-	-	-	-	1.03	1.24	1.49	1.79	2.13

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

Cooling capacity	5 798	W
Power input	2 902	W
Current consumption	5.21	A
Mass flow	173	kg/h
C.O.P.	2.00	


**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	67	dB(A)
With acoustic hood	59	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	3 876	4 823	5 987	7 392	9 062	-	-	-	-
20	3 361	4 220	5 266	6 525	8 020	9 776	11 813	-	-
30	2 873	3 638	4 562	5 670	6 987	8 537	10 346	12 433	14 813
40	2 394	3 060	3 857	4 809	5 943	7 284	8 860	10 694	12 810
50	-	-	3 132	3 924	4 870	5 997	7 335	8 913	10 759
60	-	-	-	-	3 743	4 652	5 748	7 066	8 645

**Power input in W**

10	1 231	1 249	1 265	1 279	1 292	-	-	-	-
20	1 559	1 580	1 598	1 614	1 627	1 639	1 650	-	-
30	1 981	2 002	2 020	2 034	2 046	2 055	2 062	2 067	2 071
40	2 530	2 548	2 563	2 573	2 580	2 584	2 585	2 583	2 579
50	-	-	3 262	3 266	3 265	3 261	3 253	3 242	3 228
60	-	-	-	-	4 135	4 120	4 100	4 077	4 050

**Current consumption in A**

10	3.84	3.73	3.62	3.52	3.43	-	-	-	-
20	3.87	3.82	3.79	3.75	3.73	3.71	3.70	-	-
30	4.13	4.13	4.13	4.14	4.15	4.17	4.19	4.23	4.28
40	4.74	4.75	4.75	4.77	4.78	4.80	4.83	4.87	4.93
50	-	-	5.74	5.73	5.72	5.71	5.72	5.73	5.75
60	-	-	-	-	7.05	6.99	6.93	6.88	6.84

**Mass flow in kg/h**

10	96	118	144	174	209	-	-	-	-
20	93	115	140	170	204	243	289	-	-
30	91	112	137	165	199	238	282	333	389
40	88	109	133	161	194	232	276	326	381
50	-	-	130	157	189	227	270	319	373
60	-	-	-	-	185	221	264	312	365

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

10	3.15	3.86	4.73	5.78	7.02	-	-	-	-
20	2.16	2.67	3.29	4.04	4.93	5.96	7.16	-	-
30	1.45	1.82	2.26	2.79	3.42	4.15	5.02	6.01	7.15
40	0.95	1.20	1.51	1.87	2.30	2.82	3.43	4.14	4.97
50	-	-	0.96	1.20	1.49	1.84	2.25	2.75	3.33
60	-	-	-	-	0.91	1.13	1.40	1.73	2.13

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

Cooling capacity	5 411	W
Power input	2 902	W
Current consumption	5.21	A
Mass flow	192	kg/h
C.O.P.	1.86	

**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	67	dB(A)
With acoustic hood	59	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	4 972	6 174	7 624	9 334	11 318	-	-	-	-
20	4 515	5 599	6 903	8 437	10 216	12 251	14 555	-	-
30	4 023	4 990	6 146	7 503	9 076	10 877	12 917	15 210	17 767
40	-	4 318	5 325	6 506	7 872	9 437	11 213	13 213	15 449
50	-	-	4 415	5 417	6 576	7 905	9 416	11 123	13 038
60	-	-	-	-	5 161	6 253	7 499	8 913	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	-	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	2.26	2.40	2.47	2.48	2.47	-	-	-	-
20	2.73	2.93	3.04	3.09	3.10	3.10	3.09	-	-
30	3.35	3.60	3.76	3.85	3.88	3.88	3.87	3.88	3.92
40	-	4.47	4.67	4.79	4.84	4.84	4.83	4.82	4.83
50	-	-	5.82	5.96	6.02	6.03	6.00	5.96	5.94
60	-	-	-	-	7.47	7.47	7.43	7.36	7.29

**Mass flow in kg/h**

10	90	119	152	190	233	-	-	-	-
20	94	122	153	189	230	279	335	-	-
30	96	121	151	186	226	274	329	394	467
40	-	118	147	181	221	268	323	387	461
50	-	-	140	174	213	260	316	380	455
60	-	-	-	-	204	251	307	372	448

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

10	3.45	4.03	4.85	5.90	7.20	-	-	-	-
20	2.60	3.00	3.56	4.28	5.16	6.21	7.38	-	-
30	1.89	2.17	2.56	3.06	3.67	4.40	5.23	6.15	7.11
40	-	1.51	1.79	2.13	2.55	3.06	3.64	4.30	5.02
50	-	-	1.19	1.43	1.71	2.06	2.46	2.93	3.45
60	-	-	-	-	1.08	1.31	1.58	1.90	2.26

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

Cooling capacity	7 237	W
Power input	3 440	W
Current consumption	5.40	A
Mass flow	217	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	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 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	4 778	5 975	7 429	9 155	11 167	-	-	-	-
20	4 246	5 318	6 618	8 163	9 969	12 050	14 417	-	-
30	3 679	4 625	5 771	7 135	8 735	10 586	12 703	15 096	17 767
40	3 057	3 874	4 864	6 045	7 436	9 056	10 922	13 050	15 449
50	-	-	3 873	4 868	6 048	7 434	9 047	10 909	13 038
60	-	-	-	-	4 542	5 689	7 047	8 643	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	2 653	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	2.26	2.40	2.47	2.48	2.47	-	-	-	-
20	2.73	2.93	3.04	3.09	3.10	3.10	3.09	-	-
30	3.35	3.60	3.76	3.85	3.88	3.88	3.87	3.88	3.92
40	4.16	4.47	4.67	4.79	4.84	4.84	4.83	4.82	4.83
50	-	-	5.82	5.96	6.02	6.03	6.00	5.96	5.94
60	-	-	-	-	7.47	7.47	7.43	7.36	7.29

**Mass flow in kg/h**

10	107	140	175	214	257	-	-	-	-
20	112	142	175	213	254	301	354	-	-
30	114	142	173	209	250	296	348	405	467
40	112	138	169	204	244	290	341	399	461
50	-	-	161	196	236	282	333	391	455
60	-	-	-	-	225	272	324	383	448

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

10	3.31	3.90	4.72	5.79	7.10	-	-	-	-
20	2.44	2.85	3.41	4.14	5.04	6.11	7.31	-	-
30	1.73	2.01	2.41	2.91	3.53	4.28	5.14	6.10	7.11
40	1.15	1.36	1.63	1.98	2.41	2.93	3.55	4.25	5.02
50	-	-	1.04	1.28	1.58	1.94	2.37	2.87	3.45
60	-	-	-	-	0.95	1.20	1.49	1.84	2.26

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

Cooling capacity	6 755	W
Power input	3 440	W
Current consumption	5.40	A
Mass flow	240	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

**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	3 420	4 316	5 377	6 623	8 071	-	-	-	-
30	3 136	3 983	4 988	6 167	7 538	9 120	-	-	-
40	2 776	3 552	4 473	5 558	6 824	8 290	9 971	-	-
50	-	3 107	3 934	4 913	6 062	7 398	8 940	-	-
60	-	-	3 374	4 236	5 255	6 451	7 841	-	-
70	-	-	-	3 531	4 409	5 453	6 679	-	-
73	-	-	-	3 315	4 149	5 144	6 318	-	-

**Power input in W**

22	987	999	1 012	1 027	1 045	-	-	-	-
30	1 174	1 189	1 203	1 217	1 232	1 250	-	-	-
40	1 443	1 465	1 484	1 501	1 518	1 535	1 553	-	-
50	-	1 791	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	2 220	2 258	2 291	2 320	2 346	-	-
70	-	-	-	2 746	2 794	2 836	2 873	-	-
73	-	-	-	2 908	2 962	3 009	3 050	-	-

**Current consumption in A**

22	2.81	2.82	2.84	2.85	2.86	-	-	-	-
30	3.01	3.04	3.06	3.09	3.11	3.14	-	-	-
40	3.39	3.43	3.47	3.50	3.54	3.58	3.62	-	-
50	-	4.10	4.14	4.18	4.22	4.27	4.31	-	-
60	-	-	5.22	5.26	5.31	5.35	5.40	-	-
70	-	-	-	6.89	6.93	6.97	7.01	-	-
73	-	-	-	7.50	7.54	7.58	7.62	-	-

**Mass flow in kg/h**

22	73	91	111	135	162	-	-	-	-
30	73	91	111	135	161	192	-	-	-
40	71	89	110	133	160	191	225	-	-
50	-	87	108	131	158	188	223	-	-
60	-	-	105	128	155	185	219	-	-
70	-	-	-	124	151	182	215	-	-
73	-	-	-	123	150	180	214	-	-

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

22	3.47	4.32	5.31	6.45	7.72	-	-	-	-
30	2.67	3.35	4.15	5.07	6.12	7.29	-	-	-
40	1.92	2.42	3.01	3.70	4.50	5.40	6.42	-	-
50	-	1.73	2.16	2.66	3.24	3.92	4.68	-	-
60	-	-	1.52	1.88	2.29	2.78	3.34	-	-
70	-	-	-	1.29	1.58	1.92	2.32	-	-
73	-	-	-	1.14	1.40	1.71	2.07	-	-

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

Cooling capacity	3 331	W
Power input	1 621	W
Current consumption	3.72	A
Mass flow	88	kg/h
C.O.P.	2.05	

**Pressure switch settings**

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

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	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	3 474	4 366	5 419	6 652	8 084	-	-	-	-
30	-	4 057	5 052	6 214	7 564	9 120	-	-	-
40	-	-	4 566	5 630	6 865	8 290	9 925	-	-
50	-	-	4 054	5 008	6 118	7 398	8 869	-	-
60	-	-	-	4 354	5 326	6 451	-	-	-
70	-	-	-	-	4 495	5 453	-	-	-
73	-	-	-	-	4 238	5 144	-	-	-

**Power input in W**

22	987	999	1 012	1 027	1 045	-	-	-	-
30	-	1 189	1 203	1 217	1 232	1 250	-	-	-
40	-	-	1 484	1 501	1 518	1 535	1 553	-	-
50	-	-	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	-	2 258	2 291	2 320	-	-	-
70	-	-	-	-	2 794	2 836	-	-	-
73	-	-	-	-	2 962	3 009	-	-	-

**Current consumption in A**

22	2.81	2.82	2.84	2.85	2.86	-	-	-	-
30	-	3.04	3.06	3.09	3.11	3.14	-	-	-
40	-	-	3.47	3.50	3.54	3.58	3.62	-	-
50	-	-	4.14	4.18	4.22	4.27	4.31	-	-
60	-	-	-	5.26	5.31	5.35	-	-	-
70	-	-	-	-	6.93	6.97	-	-	-
73	-	-	-	-	7.54	7.58	-	-	-

**Mass flow in kg/h**

22	66	84	104	129	158	-	-	-	-
30	-	83	104	129	158	192	-	-	-
40	-	-	103	127	156	191	231	-	-
50	-	-	101	125	154	188	228	-	-
60	-	-	-	123	152	185	-	-	-
70	-	-	-	-	148	182	-	-	-
73	-	-	-	-	147	180	-	-	-

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

22	3.52	4.37	5.36	6.48	7.74	-	-	-	-
30	-	3.41	4.20	5.11	6.14	7.29	-	-	-
40	-	-	3.08	3.75	4.52	5.40	6.39	-	-
50	-	-	2.23	2.71	3.27	3.92	4.65	-	-
60	-	-	-	1.93	2.32	2.78	-	-	-
70	-	-	-	-	1.61	1.92	-	-	-
73	-	-	-	-	1.43	1.71	-	-	-

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

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	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	4 232	5 328	6 640	8 170	9 917	-	-	-	-
30	3 861	4 915	6 175	7 642	9 317	11 200	-	-	-
40	3 388	4 379	5 563	6 942	8 515	10 283	12 248	-	-
50	-	3 806	4 903	6 181	7 641	9 283	11 108	-	-
60	-	-	4 177	5 343	6 678	8 182	9 857	-	-
70	-	-	-	4 411	5 610	6 965	8 477	-	-
73	-	-	-	4 111	5 266	6 574	8 035	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	1 414	1 435	1 459	1 488	1 524	1 568	-	-	-
40	1 694	1 743	1 784	1 820	1 852	1 882	1 913	-	-
50	-	2 093	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	2 599	2 683	2 743	2 780	2 797	-	-
70	-	-	-	3 215	3 307	3 365	3 392	-	-
73	-	-	-	3 388	3 491	3 558	3 590	-	-

**Current consumption in A**

22	2.77	2.78	2.80	2.81	2.83	-	-	-	-
30	2.95	2.98	3.01	3.03	3.06	3.09	-	-	-
40	3.34	3.37	3.40	3.44	3.47	3.50	3.54	-	-
50	-	4.03	4.06	4.10	4.13	4.16	4.20	-	-
60	-	-	5.10	5.13	5.15	5.18	5.21	-	-
70	-	-	-	6.64	6.65	6.66	6.68	-	-
73	-	-	-	7.20	7.21	7.22	7.22	-	-

**Mass flow in kg/h**

22	91	110	136	168	203	-	-	-	-
30	92	111	137	168	203	240	-	-	-
40	91	110	136	168	203	239	275	-	-
50	-	106	133	165	200	237	273	-	-
60	-	-	128	161	197	234	271	-	-
70	-	-	-	155	193	231	269	-	-
73	-	-	-	154	191	230	268	-	-

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

22	3.49	4.37	5.36	6.43	7.53	-	-	-	-
30	2.73	3.43	4.23	5.14	6.11	7.14	-	-	-
40	2.00	2.51	3.12	3.81	4.60	5.46	6.40	-	-
50	-	1.82	2.27	2.79	3.38	4.06	4.82	-	-
60	-	-	1.61	1.99	2.43	2.94	3.52	-	-
70	-	-	-	1.37	1.70	2.07	2.50	-	-
73	-	-	-	1.21	1.51	1.85	2.24	-	-

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

Cooling capacity	4 098	W
Power input	1 913	W
Current consumption	3.66	A
Mass flow	108	kg/h
C.O.P.	2.14	

**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 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	4 300	5 390	6 691	8 205	9 934	-	-	-	-
30	-	5 006	6 254	7 701	9 348	11 200	-	-	-
40	-	-	5 678	7 031	8 565	10 283	12 191	-	-
50	-	-	5 052	6 301	7 711	9 283	11 020	-	-
60	-	-	-	5 492	6 768	8 182	-	-	-
70	-	-	-	-	5 718	6 965	-	-	-
73	-	-	-	-	5 380	6 574	-	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	-	1 435	1 459	1 488	1 524	1 568	-	-	-
40	-	-	1 784	1 820	1 852	1 882	1 913	-	-
50	-	-	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	-	2 683	2 743	2 780	-	-	-
70	-	-	-	-	3 307	3 365	-	-	-
73	-	-	-	-	3 491	3 558	-	-	-

**Current consumption in A**

22	2.77	2.78	2.80	2.81	2.83	-	-	-	-
30	-	2.98	3.01	3.03	3.06	3.09	-	-	-
40	-	-	3.40	3.44	3.47	3.50	3.54	-	-
50	-	-	4.06	4.10	4.13	4.16	4.20	-	-
60	-	-	-	5.13	5.15	5.18	-	-	-
70	-	-	-	-	6.65	6.66	-	-	-
73	-	-	-	-	7.21	7.22	-	-	-

**Mass flow in kg/h**

22	82	101	127	160	198	-	-	-	-
30	-	102	128	161	199	240	-	-	-
40	-	-	127	160	198	239	282	-	-
50	-	-	125	158	196	237	281	-	-
60	-	-	-	154	193	234	-	-	-
70	-	-	-	-	188	231	-	-	-
73	-	-	-	-	187	230	-	-	-

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

22	3.55	4.42	5.40	6.46	7.54	-	-	-	-
30	-	3.49	4.29	5.18	6.14	7.14	-	-	-
40	-	-	3.18	3.86	4.63	5.46	6.37	-	-
50	-	-	2.33	2.84	3.41	4.06	4.78	-	-
60	-	-	-	2.05	2.47	2.94	-	-	-
70	-	-	-	-	1.73	2.07	-	-	-
73	-	-	-	-	1.54	1.85	-	-	-

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

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	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	3 950	4 989	6 236	7 715	-	-	-	-	-
20	3 510	4 492	5 663	7 049	8 676	10 570	-	-	-
30	3 036	3 949	5 032	6 312	7 815	9 567	11 593	13 921	-
40	2 535	3 366	4 350	5 512	6 879	8 476	10 330	12 467	-
45	-	3 063	3 992	5 091	6 385	7 900	9 664	11 701	-
50	-	-	3 624	4 656	5 875	7 306	8 975	10 909	-
55	-	-	-	4 209	5 349	6 693	8 265	10 093	-
60	-	-	-	-	4 810	6 062	7 535	9 254	-

**Power input in W**

10	1 283	1 317	1 346	1 369	-	-	-	-	-
20	1 494	1 533	1 568	1 598	1 621	1 637	-	-	-
30	1 800	1 841	1 880	1 916	1 946	1 970	1 986	1 993	-
40	2 249	2 292	2 333	2 372	2 408	2 438	2 462	2 479	-
45	-	2 586	2 628	2 668	2 705	2 738	2 766	2 787	-
50	-	-	2 976	3 018	3 056	3 091	3 122	3 146	-
55	-	-	-	3 427	3 466	3 503	3 536	3 564	-
60	-	-	-	-	3 942	3 980	4 015	4 045	-

**Current consumption in A**

10	3.27	3.26	3.25	3.23	-	-	-	-	-
20	3.54	3.56	3.57	3.58	3.59	3.61	-	-	-
30	3.82	3.86	3.89	3.92	3.95	3.98	4.02	4.06	-
40	4.28	4.33	4.38	4.43	4.48	4.52	4.57	4.62	-
45	-	4.70	4.75	4.81	4.86	4.91	4.96	5.01	-
50	-	-	5.23	5.29	5.34	5.40	5.45	5.51	-
55	-	-	-	5.91	5.96	6.02	6.08	6.13	-
60	-	-	-	-	6.74	6.79	6.85	6.91	-

**Mass flow in kg/h**

10	77	96	118	144	-	-	-	-	-
20	74	94	116	142	172	207	-	-	-
30	71	90	113	139	170	204	244	289	-
40	66	86	109	135	165	200	240	285	-
45	-	83	106	132	162	197	237	282	-
50	-	-	102	129	159	194	234	279	-
55	-	-	-	125	156	190	230	276	-
60	-	-	-	-	151	186	226	271	-

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

10	3.08	3.79	4.63	5.64	-	-	-	-	-
20	2.35	2.93	3.61	4.41	5.35	6.46	-	-	-
30	1.69	2.14	2.68	3.29	4.02	4.86	5.84	6.98	-
40	1.13	1.47	1.86	2.32	2.86	3.48	4.20	5.03	-
45	-	1.18	1.52	1.91	2.36	2.88	3.49	4.20	-
50	-	-	1.22	1.54	1.92	2.36	2.87	3.47	-
55	-	-	-	1.23	1.54	1.91	2.34	2.83	-
60	-	-	-	-	1.22	1.52	1.88	2.29	-

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

Cooling capacity	5 091	W
Power input	2 668	W
Current consumption	4.81	A
Mass flow	132	kg/h
C.O.P.	1.91	

**Pressure switch settings**

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

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	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	4 195	5 294	6 610	8 171	-	-	-	-	-
20	3 755	4 801	6 045	7 517	9 242	11 249	-	-	-
30	3 279	4 258	5 419	6 789	8 395	10 265	12 425	14 904	-
40	2 772	3 674	4 740	5 996	7 471	9 193	11 188	13 484	-
45	-	3 369	4 382	5 578	6 983	8 627	10 535	12 737	-
50	-	-	4 014	5 146	6 480	8 042	9 862	11 967	-
55	-	-	-	4 703	5 962	7 442	9 172	11 178	-
60	-	-	-	-	-	6 830	8 467	10 375	-

Power input in W

10	1 283	1 317	1 346	1 369	-	-	-	-	-
20	1 494	1 533	1 568	1 598	1 621	1 637	-	-	-
30	1 800	1 841	1 880	1 916	1 946	1 970	1 986	1 993	-
40	2 249	2 292	2 333	2 372	2 408	2 438	2 462	2 479	-
45	-	2 586	2 628	2 668	2 705	2 738	2 766	2 787	-
50	-	-	2 976	3 018	3 056	3 091	3 122	3 146	-
55	-	-	-	3 427	3 466	3 503	3 536	3 564	-
60	-	-	-	-	-	3 980	4 015	4 045	-

Current consumption in A

10	3.27	3.26	3.25	3.23	-	-	-	-	-
20	3.54	3.56	3.57	3.58	3.59	3.61	-	-	-
30	3.82	3.86	3.89	3.92	3.95	3.98	4.02	4.06	-
40	4.28	4.33	4.38	4.43	4.48	4.52	4.57	4.62	-
45	-	4.70	4.75	4.81	4.86	4.91	4.96	5.01	-
50	-	-	5.23	5.29	5.34	5.40	5.45	5.51	-
55	-	-	-	5.91	5.96	6.02	6.08	6.13	-
60	-	-	-	-	-	6.79	6.85	6.91	-

Mass flow in kg/h

10	77	96	118	143	-	-	-	-	-
20	74	93	116	142	171	206	-	-	-
30	71	90	113	139	169	203	243	287	-
40	66	85	108	134	164	199	239	283	-
45	-	82	105	131	162	196	236	281	-
50	-	-	102	128	158	193	233	278	-
55	-	-	-	124	155	189	229	274	-
60	-	-	-	-	-	185	225	270	-

Coefficient of performance (C.O.P.)

10	3.27	4.02	4.91	5.97	-	-	-	-	-
20	2.51	3.13	3.85	4.70	5.70	6.87	-	-	-
30	1.82	2.31	2.88	3.54	4.31	5.21	6.26	7.48	-
40	1.23	1.60	2.03	2.53	3.10	3.77	4.54	5.44	-
45	-	1.30	1.67	2.09	2.58	3.15	3.81	4.57	-
50	-	-	1.35	1.71	2.12	2.60	3.16	3.80	-
55	-	-	-	1.37	1.72	2.12	2.59	3.14	-
60	-	-	-	-	-	1.72	2.11	2.56	-

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

Cooling capacity	5 578	W
Power input	2 668	W
Current consumption	4.81	A
Mass flow	131	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	67	dB(A)
With acoustic hood	59	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	4 849	6 118	7 641	9 448	-	-	-	-	-
20	4 311	5 506	6 932	8 620	10 602	12 908	-	-	-
30	3 735	4 843	6 159	7 714	9 539	11 667	14 128	16 954	-
40	3 131	4 137	5 329	6 736	8 392	10 327	12 572	15 160	-
45	-	3 771	4 895	6 224	7 789	9 622	11 755	14 219	-
50	-	-	4 450	5 697	7 168	8 897	10 913	13 248	-
55	-	-	-	5 156	6 531	8 150	10 047	12 251	-
60	-	-	-	-	5 877	7 385	9 158	11 227	-

Power input in W

10	1 517	1 550	1 580	1 605	-	-	-	-	-
20	1 780	1 810	1 845	1 880	1 911	1 933	-	-	-
30	2 157	2 178	2 209	2 246	2 285	2 322	2 353	2 372	-
40	2 726	2 729	2 748	2 779	2 819	2 862	2 904	2 942	-
45	-	3 097	3 107	3 132	3 169	3 212	3 258	3 301	-
50	-	-	3 538	3 556	3 587	3 628	3 675	3 723	-
55	-	-	-	4 059	4 083	4 121	4 166	4 216	-
60	-	-	-	-	4 667	4 698	4 741	4 791	-

Current consumption in A

10	3.42	3.42	3.41	3.39	-	-	-	-	-
20	3.60	3.62	3.64	3.66	3.67	3.69	-	-	-
30	3.85	3.90	3.94	3.97	4.01	4.04	4.08	4.12	-
40	4.33	4.39	4.45	4.49	4.54	4.58	4.63	4.67	-
45	-	4.77	4.83	4.88	4.93	4.97	5.01	5.06	-
50	-	-	5.32	5.37	5.42	5.46	5.50	5.55	-
55	-	-	-	5.99	6.04	6.08	6.12	6.16	-
60	-	-	-	-	6.80	6.83	6.87	6.90	-

Mass flow in kg/h

10	95	118	145	176	-	-	-	-	-
20	91	115	142	174	211	253	-	-	-
30	87	111	138	170	207	249	297	352	-
40	82	105	133	165	202	244	292	347	-
45	-	102	130	161	198	240	289	343	-
50	-	-	126	158	194	236	285	339	-
55	-	-	-	153	190	232	280	335	-
60	-	-	-	-	185	227	275	329	-

Coefficient of performance (C.O.P.)

10	3.20	3.95	4.84	5.89	-	-	-	-	-
20	2.42	3.04	3.76	4.59	5.55	6.68	-	-	-
30	1.73	2.22	2.79	3.43	4.17	5.02	6.01	7.15	-
40	1.15	1.52	1.94	2.42	2.98	3.61	4.33	5.15	-
45	-	1.22	1.58	1.99	2.46	3.00	3.61	4.31	-
50	-	-	1.26	1.60	2.00	2.45	2.97	3.56	-
55	-	-	-	1.27	1.60	1.98	2.41	2.91	-
60	-	-	-	-	1.26	1.57	1.93	2.34	-

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

Cooling capacity	6 224	W
Power input	3 132	W
Current consumption	4.88	A
Mass flow	161	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 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	5 149	6 491	8 099	10 006	-	-	-	-	-
20	4 612	5 884	7 400	9 192	11 294	13 737	-	-	-
30	4 034	5 223	6 633	8 297	10 247	12 518	15 142	18 151	-
40	3 423	4 516	5 806	7 328	9 115	11 200	13 616	16 397	-
45	-	4 147	5 373	6 819	8 519	10 507	12 815	15 478	-
50	-	-	4 929	6 296	7 907	9 794	11 992	14 533	-
55	-	-	-	5 760	7 279	9 064	11 149	13 568	-
60	-	-	-	-	-	8 320	10 291	12 587	-

**Power input in W**

10	1 517	1 550	1 580	1 605	-	-	-	-	-
20	1 780	1 810	1 845	1 880	1 911	1 933	-	-	-
30	2 157	2 178	2 209	2 246	2 285	2 322	2 353	2 372	-
40	2 726	2 729	2 748	2 779	2 819	2 862	2 904	2 942	-
45	-	3 097	3 107	3 132	3 169	3 212	3 258	3 301	-
50	-	-	3 538	3 556	3 587	3 628	3 675	3 723	-
55	-	-	-	4 059	4 083	4 121	4 166	4 216	-
60	-	-	-	-	-	4 698	4 741	4 791	-

**Current consumption in A**

10	3.42	3.42	3.41	3.39	-	-	-	-	-
20	3.60	3.62	3.64	3.66	3.67	3.69	-	-	-
30	3.85	3.90	3.94	3.97	4.01	4.04	4.08	4.12	-
40	4.33	4.39	4.45	4.49	4.54	4.58	4.63	4.67	-
45	-	4.77	4.83	4.88	4.93	4.97	5.01	5.06	-
50	-	-	5.32	5.37	5.42	5.46	5.50	5.55	-
55	-	-	-	5.99	6.04	6.08	6.12	6.16	-
60	-	-	-	-	-	6.83	6.87	6.90	-

**Mass flow in kg/h**

10	94	117	144	175	-	-	-	-	-
20	91	114	142	173	210	251	-	-	-
30	87	110	138	169	206	248	296	350	-
40	81	105	132	164	201	242	290	345	-
45	-	101	129	161	197	239	287	341	-
50	-	-	125	157	193	235	283	337	-
55	-	-	-	152	189	231	278	332	-
60	-	-	-	-	-	226	273	327	-

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

10	3.39	4.19	5.13	6.24	-	-	-	-	-
20	2.59	3.25	4.01	4.89	5.91	7.10	-	-	-
30	1.87	2.40	3.00	3.69	4.48	5.39	6.44	7.65	-
40	1.26	1.65	2.11	2.64	3.23	3.91	4.69	5.57	-
45	-	1.34	1.73	2.18	2.69	3.27	3.93	4.69	-
50	-	-	1.39	1.77	2.20	2.70	3.26	3.90	-
55	-	-	-	1.42	1.78	2.20	2.68	3.22	-
60	-	-	-	-	-	1.77	2.17	2.63	-

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

Cooling capacity	6 819	W
Power input	3 132	W
Current consumption	4.88	A
Mass flow	161	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	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 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	4 568	5 242	6 535	8 061	-	-	-	-	-
20	4 105	4 745	5 966	7 403	9 083	11 031	-	-	-
30	3 599	4 197	5 334	6 670	8 230	10 042	12 132	14 526	-
40	3 057	3 605	4 645	5 866	7 295	8 959	10 883	13 093	-
45	-	-	4 280	5 440	6 799	8 383	10 220	12 334	-
50	-	-	-	4 999	6 284	7 787	9 532	11 546	-
55	-	-	-	-	5 752	7 169	8 820	10 732	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 375	1 387	1 411	1 448	-	-	-	-	-
20	1 596	1 610	1 631	1 655	1 691	1 747	-	-	-
30	1 923	1 945	1 973	1 994	2 018	2 052	2 105	2 187	-
40	2 386	2 424	2 468	2 497	2 519	2 541	2 574	2 625	-
45	-	-	2 783	2 820	2 844	2 865	2 891	2 931	-
50	-	-	-	3 195	3 225	3 247	3 269	3 300	-
55	-	-	-	-	3 665	3 691	3 711	3 736	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.43	3.42	3.40	3.37	-	-	-	-	-
20	3.73	3.74	3.74	3.75	3.75	3.75	-	-	-
30	4.04	4.06	4.09	4.11	4.14	4.16	4.19	4.22	-
40	4.54	4.57	4.62	4.66	4.70	4.74	4.78	4.82	-
45	-	-	5.01	5.06	5.11	5.15	5.20	5.25	-
50	-	-	-	5.58	5.63	5.67	5.72	5.78	-
55	-	-	-	-	6.29	6.34	6.39	6.44	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	80	91	112	136	-	-	-	-	-
20	77	89	110	135	163	196	-	-	-
30	74	85	107	132	160	193	231	273	-
40	69	81	102	127	156	189	227	269	-
45	-	-	100	125	153	186	224	266	-
50	-	-	-	121	150	183	220	263	-
55	-	-	-	-	146	179	217	259	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.32	3.78	4.63	5.57	-	-	-	-	-
20	2.57	2.95	3.66	4.47	5.37	6.32	-	-	-
30	1.87	2.16	2.70	3.34	4.08	4.89	5.76	6.64	-
40	1.28	1.49	1.88	2.35	2.90	3.53	4.23	4.99	-
45	-	-	1.54	1.93	2.39	2.93	3.53	4.21	-
50	-	-	-	1.56	1.95	2.40	2.92	3.50	-
55	-	-	-	-	1.57	1.94	2.38	2.87	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	5 440	W
Power input	2 820	W
Current consumption	5.06	A
Mass flow	125	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	67	dB(A)
With acoustic hood	59	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	4 828	5 538	6 899	8 504	-	-	-	-	-
20	4 365	5 043	6 335	7 855	9 629	11 685	-	-	-
30	3 856	4 494	5 705	7 127	8 787	10 711	12 929	15 467	-
40	-	3 897	5 016	6 327	7 860	9 642	11 700	14 062	-
45	-	-	4 650	5 903	7 368	9 073	11 048	13 319	-
50	-	-	-	5 463	6 858	8 485	10 374	12 551	-
55	-	-	-	-	-	7 880	9 681	11 763	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 375	1 387	1 411	1 448	-	-	-	-	-
20	1 596	1 610	1 631	1 655	1 691	1 747	-	-	-
30	1 923	1 945	1 973	1 994	2 018	2 052	2 105	2 187	-
40	-	2 424	2 468	2 497	2 519	2 541	2 574	2 625	-
45	-	-	2 783	2 820	2 844	2 865	2 891	2 931	-
50	-	-	-	3 195	3 225	3 247	3 269	3 300	-
55	-	-	-	-	-	3 691	3 711	3 736	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	3.43	3.42	3.40	3.37	-	-	-	-	-
20	3.73	3.74	3.74	3.75	3.75	3.75	-	-	-
30	4.04	4.06	4.09	4.11	4.14	4.16	4.19	4.22	-
40	-	4.57	4.62	4.66	4.70	4.74	4.78	4.82	-
45	-	-	5.01	5.06	5.11	5.15	5.20	5.25	-
50	-	-	-	5.58	5.63	5.67	5.72	5.78	-
55	-	-	-	-	-	6.34	6.39	6.44	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	79	90	111	136	-	-	-	-	-
20	77	88	110	134	162	195	-	-	-
30	74	85	106	131	160	192	229	271	-
40	-	80	102	127	155	188	225	267	-
45	-	-	99	124	152	185	222	265	-
50	-	-	-	121	149	182	219	261	-
55	-	-	-	-	-	178	215	257	-
60	-	-	-	-	-	-	-	-	-

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

10	3.51	3.99	4.89	5.87	-	-	-	-	-
20	2.73	3.13	3.88	4.75	5.70	6.69	-	-	-
30	2.01	2.31	2.89	3.57	4.35	5.22	6.14	7.07	-
40	-	1.61	2.03	2.53	3.12	3.79	4.55	5.36	-
45	-	-	1.67	2.09	2.59	3.17	3.82	4.54	-
50	-	-	-	1.71	2.13	2.61	3.17	3.80	-
55	-	-	-	-	-	2.14	2.61	3.15	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	5 903	W
Power input	2 820	W
Current consumption	5.06	A
Mass flow	124	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	67	dB(A)
With acoustic hood	59	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	5 633	6 461	8 047	9 919	-	-	-	-	-
20	5 063	5 847	7 341	9 099	11 154	13 536	-	-	-
30	4 445	5 175	6 563	8 193	10 097	12 307	14 855	17 774	-
40	3 784	4 452	5 720	7 207	8 946	10 970	13 309	15 997	-
45	-	-	5 276	6 686	8 338	10 262	12 492	15 059	-
50	-	-	-	6 149	7 709	9 531	11 647	14 090	-
55	-	-	-	-	7 060	8 776	10 775	13 089	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 596	1 611	1 642	1 683	-	-	-	-	-
20	1 870	1 882	1 906	1 938	1 979	2 031	-	-	-
30	2 268	2 278	2 298	2 324	2 357	2 400	2 453	2 520	-
40	2 850	2 860	2 878	2 900	2 928	2 964	3 008	3 064	-
45	-	-	3 256	3 278	3 304	3 337	3 378	3 430	-
50	-	-	-	3 725	3 750	3 781	3 820	3 868	-
55	-	-	-	-	4 274	4 304	4 340	4 385	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.55	3.54	3.52	3.50	-	-	-	-	-
20	3.76	3.77	3.78	3.79	3.80	3.80	-	-	-
30	4.04	4.06	4.10	4.13	4.16	4.18	4.21	4.24	-
40	4.56	4.59	4.64	4.68	4.72	4.76	4.79	4.83	-
45	-	-	5.04	5.09	5.13	5.17	5.20	5.24	-
50	-	-	-	5.61	5.65	5.69	5.72	5.76	-
55	-	-	-	-	6.30	6.34	6.37	6.40	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	98	112	138	168	-	-	-	-	-
20	95	109	136	166	200	240	-	-	-
30	91	105	132	162	197	237	283	334	-
40	86	100	126	156	191	231	277	329	-
45	-	-	123	153	188	228	274	325	-
50	-	-	-	149	184	224	269	321	-
55	-	-	-	-	179	219	265	316	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.53	4.01	4.90	5.89	-	-	-	-	-
20	2.71	3.11	3.85	4.70	5.64	6.66	-	-	-
30	1.96	2.27	2.86	3.53	4.28	5.13	6.06	7.05	-
40	1.33	1.56	1.99	2.48	3.06	3.70	4.42	5.22	-
45	-	-	1.62	2.04	2.52	3.08	3.70	4.39	-
50	-	-	-	1.65	2.06	2.52	3.05	3.64	-
55	-	-	-	-	1.65	2.04	2.48	2.99	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	6 686	W
Power input	3 278	W
Current consumption	5.09	A
Mass flow	153	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	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 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	5 953	6 825	8 495	10 464	-	-	-	-	-
20	5 384	6 213	7 795	9 654	11 824	14 339	-	-	-
30	4 762	5 540	7 019	8 755	10 779	13 127	15 832	18 926	-
40	-	4 814	6 176	7 773	9 638	11 806	14 309	17 181	-
45	-	-	5 732	7 255	9 035	11 107	13 505	16 262	-
50	-	-	-	6 719	8 412	10 386	12 676	15 315	-
55	-	-	-	-	-	9 646	11 826	14 346	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 596	1 611	1 642	1 683	-	-	-	-	-
20	1 870	1 882	1 906	1 938	1 979	2 031	-	-	-
30	2 268	2 278	2 298	2 324	2 357	2 400	2 453	2 520	-
40	-	2 860	2 878	2 900	2 928	2 964	3 008	3 064	-
45	-	-	3 256	3 278	3 304	3 337	3 378	3 430	-
50	-	-	-	3 725	3 750	3 781	3 820	3 868	-
55	-	-	-	-	-	4 304	4 340	4 385	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.55	3.54	3.52	3.50	-	-	-	-	-
20	3.76	3.77	3.78	3.79	3.80	3.80	-	-	-
30	4.04	4.06	4.10	4.13	4.16	4.18	4.21	4.24	-
40	-	4.59	4.64	4.68	4.72	4.76	4.79	4.83	-
45	-	-	5.04	5.09	5.13	5.17	5.20	5.24	-
50	-	-	-	5.61	5.65	5.69	5.72	5.76	-
55	-	-	-	-	-	6.34	6.37	6.40	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	98	111	137	167	-	-	-	-	-
20	95	109	135	165	199	239	-	-	-
30	91	105	131	161	196	235	281	332	-
40	-	99	125	156	190	230	275	327	-
45	-	-	122	152	187	227	272	323	-
50	-	-	-	148	183	222	268	319	-
55	-	-	-	-	-	218	263	314	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.73	4.24	5.17	6.22	-	-	-	-	-
20	2.88	3.30	4.09	4.98	5.98	7.06	-	-	-
30	2.10	2.43	3.05	3.77	4.57	5.47	6.45	7.51	-
40	-	1.68	2.15	2.68	3.29	3.98	4.76	5.61	-
45	-	-	1.76	2.21	2.73	3.33	4.00	4.74	-
50	-	-	-	1.80	2.24	2.75	3.32	3.96	-
55	-	-	-	-	-	2.24	2.72	3.27	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	7 255	W
Power input	3 278	W
Current consumption	5.09	A
Mass flow	152	kg/h
C.O.P.	2.21	

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 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	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	-	-	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	-	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	-	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	-	-	6.83	6.83	6.83

**Mass flow in kg/h**

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

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

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

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

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	122	kg/h
C.O.P.	1.97	

**Pressure switch settings**

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

**Sound power data**

Sound power level		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	3 405	4 310	5 385	6 657	8 148	-	-	-	-
20	2 966	3 844	4 872	6 074	7 477	9 105	10 978	-	-
30	2 476	3 311	4 274	5 393	6 692	8 197	9 932	11 917	14 170
40	-	-	3 611	4 629	5 810	7 177	8 758	10 576	12 651
50	-	-	-	3 802	4 847	6 062	7 474	9 109	10 991
60	-	-	-	-	3 823	4 868	6 094	7 530	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	3.90	3.97	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	4.61	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	5.53	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	6.81	6.82	6.83	6.83	6.83

**Mass flow in kg/h**

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

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

10	2.97	3.69	4.54	5.55	6.72	-	-	-	-
20	2.08	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.83	3.48	4.23	5.09	6.05	7.09
40	-	-	1.51	1.90	2.37	2.91	3.54	4.26	5.07
50	-	-	-	1.22	1.54	1.91	2.36	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

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

Cooling capacity	5 337	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	134	kg/h
C.O.P.	1.92	

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	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	-	-	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	-	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	-	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	-	-	6.83	6.83	6.83

**Mass flow in kg/h**

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

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

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

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

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	122	kg/h
C.O.P.	1.97	

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	3 397	4 302	5 377	6 649	8 141	-	-	-	-
20	2 959	3 836	4 863	6 066	7 469	9 097	10 972	-	-
30	2 468	3 302	4 265	5 383	6 683	8 189	9 926	11 914	14 170
40	-	-	3 601	4 620	5 800	7 169	8 752	10 572	12 651
50	-	-	-	3 792	4 838	6 053	7 467	9 104	10 991
60	-	-	-	-	3 813	4 859	6 087	7 526	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	3.90	3.97	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	4.61	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	5.53	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	6.81	6.82	6.83	6.83	6.83

**Mass flow in kg/h**

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

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

10	2.97	3.68	4.54	5.55	6.71	-	-	-	-
20	2.07	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.82	3.47	4.23	5.09	6.05	7.09
40	-	-	1.50	1.90	2.36	2.91	3.54	4.26	5.07
50	-	-	-	1.21	1.53	1.91	2.35	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

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

Cooling capacity	5 328	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	134	kg/h
C.O.P.	1.92	

**Pressure switch settings**

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

**Sound power data**

Sound power level		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