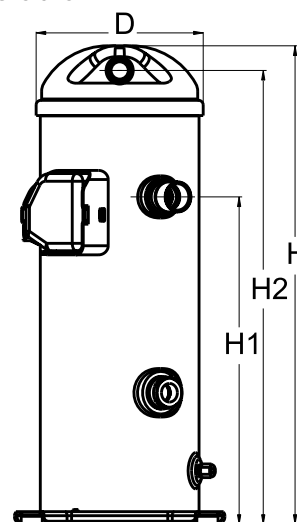


**General Characteristics**

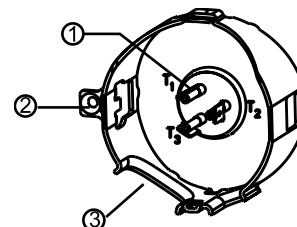
Model number (on compressor nameplate)		<b>MLZ058T4LC9A</b>
Code number for Singlepack*		121L8653
Code number for Industrial pack**		121L8652
Drawing number		0SR6167B-2
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		None
Swept volume		125.95 cm <sup>3</sup> /rev
Displacement @ Nominal speed		21.9 m <sup>3</sup> /h @ 2900 rpm - 26.4 m <sup>3</sup> /h @ 3500 rpm
Net weight		47 kg
Oil charge		2.66 litre, POE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		7.26 kg
Approved refrigerants		R404A, R134a, R407A, R407F, R448A, R449A

**Dimensions**


D=185 mm  
H=536 mm  
H1=369 mm  
H2=509 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.389 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.389 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.389 Ω
Rated Load Amps (RLA)	12.8 A
Maximum Continuous Current (MCC)	20 A
Locked Rotor Amps (LRA)	95 A
Motor protection	Internal overload protector

**Terminal box**


IP22

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

**Recommended Installation torques**

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

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

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

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

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

**Rotolock accessories, suction side**

**Code no.**

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

**Rotolock accessories, discharge side**

**Code no.**

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

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

PVE lubricant, 215PZ, 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

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

**Miscellaneous accessories**

**Code no.**

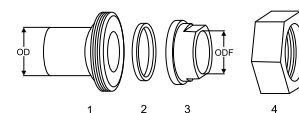
Acoustic hood	120Z5085
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

**Spare parts**

**Code no.**

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

**Solder sleeve adapter set**



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

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

**R404A**

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

**Cooling capacity in W**

10	9 092	11 230	13 765	16 732	20 171	-	-	-	-
20	7 967	10 040	12 452	15 240	18 441	22 094	26 236	-	-
30	6 719	8 690	10 944	13 516	16 446	19 770	23 526	27 750	32 481
40	-	7 192	9 252	11 574	14 196	17 155	20 489	24 235	28 431
50	-	-	7 386	9 422	11 701	14 261	17 138	20 370	23 995
60	-	-	-	-	8 974	11 097	13 482	16 165	19 183

**Power input in W**

10	2 711	2 790	2 860	2 920	2 969	-	-	-	-
20	3 302	3 385	3 466	3 541	3 610	3 672	3 724	-	-
30	4 114	4 183	4 254	4 326	4 396	4 464	4 529	4 588	4 641
40	-	5 290	5 332	5 381	5 433	5 489	5 547	5 604	5 661
50	-	-	6 807	6 813	6 829	6 853	6 884	6 920	6 961
60	-	-	-	-	8 689	8 662	8 647	8 643	8 649

**Current consumption in A**

10	7.73	7.71	7.71	7.70	7.68	-	-	-	-
20	8.43	8.46	8.52	8.59	8.66	8.71	8.73	-	-
30	9.21	9.25	9.32	9.41	9.52	9.62	9.70	9.75	9.76
40	-	10.43	10.45	10.52	10.60	10.70	10.80	10.87	10.92
50	-	-	12.30	12.28	12.30	12.34	12.39	12.43	12.46
60	-	-	-	-	14.96	14.89	14.84	14.80	14.76

**Mass flow in kg/h**

10	182	228	281	343	415	-	-	-	-
20	174	222	277	340	414	500	601	-	-
30	163	212	268	333	408	495	598	716	853
40	-	197	254	320	396	485	589	708	846
50	-	-	234	301	379	469	573	694	833
60	-	-	-	-	353	445	550	672	811

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

10	3.35	4.03	4.81	5.73	6.79	-	-	-	-
20	2.41	2.97	3.59	4.30	5.11	6.02	7.04	-	-
30	1.63	2.08	2.57	3.12	3.74	4.43	5.19	6.05	7.00
40	-	1.36	1.74	2.15	2.61	3.13	3.69	4.32	5.02
50	-	-	1.09	1.38	1.71	2.08	2.49	2.94	3.45
60	-	-	-	-	1.03	1.28	1.56	1.87	2.22

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

Cooling capacity	12 978	W
Power input	6 080	W
Current consumption	11.35	A
Mass flow	388	kg/h
C.O.P.	2.13	



**Pressure switch settings**

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

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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

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

**Cooling capacity in W**

10	8 737	10 868	13 412	16 410	19 901	-	-	-	-
20	7 492	9 535	11 938	14 745	17 997	21 733	25 987	-	-
30	6 145	8 055	10 277	12 853	15 827	19 242	23 135	27 542	32 481
40	4 719	6 453	8 449	10 753	13 409	16 463	19 958	23 936	28 431
50	-	-	6 480	8 467	10 761	13 411	16 467	19 979	23 995
60	-	-	-	-	7 897	10 096	12 668	15 675	19 183

**Power input in W**

10	2 711	2 790	2 860	2 920	2 969	-	-	-	-
20	3 302	3 385	3 466	3 541	3 610	3 672	3 724	-	-
30	4 114	4 183	4 254	4 326	4 396	4 464	4 529	4 588	4 641
40	5 254	5 290	5 332	5 381	5 433	5 489	5 547	5 604	5 661
50	-	-	6 807	6 813	6 829	6 853	6 884	6 920	6 961
60	-	-	-	-	8 689	8 662	8 647	8 643	8 649

**Current consumption in A**

10	7.73	7.71	7.71	7.70	7.68	-	-	-	-
20	8.43	8.46	8.52	8.59	8.66	8.71	8.73	-	-
30	9.21	9.25	9.32	9.41	9.52	9.62	9.70	9.75	9.76
40	10.46	10.43	10.45	10.52	10.60	10.70	10.80	10.87	10.92
50	-	-	12.30	12.28	12.30	12.34	12.39	12.43	12.46
60	-	-	-	-	14.96	14.89	14.84	14.80	14.76

**Mass flow in kg/h**

10	216	267	323	386	459	-	-	-	-
20	208	260	318	383	457	541	635	-	-
30	194	248	308	375	450	536	631	737	853
40	174	230	292	360	438	524	622	729	846
50	-	-	268	339	418	506	605	714	833
60	-	-	-	-	390	480	581	691	811

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

10	3.22	3.90	4.69	5.62	6.70	-	-	-	-
20	2.27	2.82	3.44	4.16	4.98	5.92	6.98	-	-
30	1.49	1.93	2.42	2.97	3.60	4.31	5.11	6.00	7.00
40	0.90	1.22	1.58	2.00	2.47	3.00	3.60	4.27	5.02
50	-	-	0.95	1.24	1.58	1.96	2.39	2.89	3.45
60	-	-	-	-	0.91	1.17	1.47	1.81	2.22

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

Cooling capacity	12 113	W
Power input	6 080	W
Current consumption	11.35	A
Mass flow	429	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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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

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

**Cooling capacity in W**

10	11 233	13 801	17 004	20 857	25 374	-	-	-	-
20	10 026	12 466	15 466	19 041	23 204	27 970	33 351	-	-
30	8 595	10 837	13 564	16 790	20 529	24 796	29 604	34 967	40 895
40	-	8 976	11 358	14 164	17 409	21 107	25 272	29 917	35 056
50	-	-	8 908	11 224	13 903	16 961	20 412	24 269	28 549
60	-	-	-	-	10 071	12 418	15 084	18 084	21 434

**Power input in W**

10	3 380	3 499	3 622	3 732	3 806	-	-	-	-
20	4 166	4 249	4 364	4 491	4 610	4 702	4 747	-	-
30	5 221	5 224	5 285	5 386	5 506	5 625	5 724	5 783	5 781
40	-	6 573	6 537	6 567	6 643	6 745	6 855	6 950	7 013
50	-	-	8 270	8 185	8 173	8 214	8 289	8 377	8 459
60	-	-	-	-	10 246	10 181	10 177	10 214	10 271

**Current consumption in A**

10	5.30	5.49	5.68	5.85	5.97	-	-	-	-
20	6.54	6.67	6.85	7.05	7.23	7.38	7.45	-	-
30	8.19	8.20	8.29	8.45	8.64	8.83	8.98	9.07	9.07
40	-	10.31	10.26	10.30	10.42	10.58	10.75	10.90	11.00
50	-	-	12.98	12.84	12.82	12.89	13.00	13.14	13.27
60	-	-	-	-	16.07	15.97	15.97	16.02	16.11

**Mass flow in kg/h**

10	225	282	349	427	519	-	-	-	-
20	213	276	347	429	525	636	766	-	-
30	196	263	337	421	518	630	760	910	1 083
40	-	240	315	400	496	607	735	883	1 052
50	-	-	281	364	458	566	691	834	998
60	-	-	-	-	402	505	624	761	919

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

10	3.32	3.94	4.69	5.59	6.67	-	-	-	-
20	2.41	2.93	3.54	4.24	5.03	5.95	7.03	-	-
30	1.65	2.07	2.57	3.12	3.73	4.41	5.17	6.05	7.07
40	-	1.37	1.74	2.16	2.62	3.13	3.69	4.30	5.00
50	-	-	1.08	1.37	1.70	2.06	2.46	2.90	3.37
60	-	-	-	-	0.98	1.22	1.48	1.77	2.09

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

Cooling capacity	15 701	W
Power input	7 349	W
Current consumption	11.53	A
Mass flow	479	kg/h
C.O.P.	2.14	

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	78	dB(A)
With acoustic hood	70	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	10 794	13 356	16 569	20 455	25 034	-	-	-	-
20	9 428	11 838	14 828	18 423	22 645	27 512	33 034	-	-
30	7 861	10 045	12 737	15 966	19 757	24 134	29 113	34 704	40 895
40	6 168	8 053	10 373	13 160	16 445	20 255	24 616	29 547	35 056
50	-	-	7 815	10 086	12 786	15 951	19 613	23 803	28 549
60	-	-	-	-	8 863	11 298	14 173	17 536	21 434

**Power input in W**

10	3 380	3 499	3 622	3 732	3 806	-	-	-	-
20	4 166	4 249	4 364	4 491	4 610	4 702	4 747	-	-
30	5 221	5 224	5 285	5 386	5 506	5 625	5 724	5 783	5 781
40	6 696	6 573	6 537	6 567	6 643	6 745	6 855	6 950	7 013
50	-	-	8 270	8 185	8 173	8 214	8 289	8 377	8 459
60	-	-	-	-	10 246	10 181	10 177	10 214	10 271

**Current consumption in A**

10	5.30	5.49	5.68	5.85	5.97	-	-	-	-
20	6.54	6.67	6.85	7.05	7.23	7.38	7.45	-	-
30	8.19	8.20	8.29	8.45	8.64	8.83	8.98	9.07	9.07
40	10.51	10.31	10.26	10.30	10.42	10.58	10.75	10.90	11.00
50	-	-	12.98	12.84	12.82	12.89	13.00	13.14	13.27
60	-	-	-	-	16.07	15.97	15.97	16.02	16.11

**Mass flow in kg/h**

10	268	330	401	481	573	-	-	-	-
20	254	323	399	483	579	688	809	-	-
30	234	307	386	474	572	681	802	937	1 083
40	205	281	362	450	548	656	777	909	1 052
50	-	-	323	410	506	612	730	859	998
60	-	-	-	-	444	546	659	784	919

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

10	3.19	3.82	4.57	5.48	6.58	-	-	-	-
20	2.26	2.79	3.40	4.10	4.91	5.85	6.96	-	-
30	1.51	1.92	2.41	2.96	3.59	4.29	5.09	6.00	7.07
40	0.92	1.23	1.59	2.00	2.48	3.00	3.59	4.25	5.00
50	-	-	0.94	1.23	1.56	1.94	2.37	2.84	3.37
60	-	-	-	-	0.87	1.11	1.39	1.72	2.09

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

Cooling capacity	14 654	W
Power input	7 349	W
Current consumption	11.53	A
Mass flow	529	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	78	dB(A)
With acoustic hood	70	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

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

**Cooling capacity in W**

22	7 733	9 690	11 995	14 684	17 794	-	-	-	-
30	7 069	8 930	11 113	13 655	16 593	19 961	-	-	-
40	6 195	7 923	9 942	12 288	14 998	18 107	21 652	-	-
50	-	6 864	8 705	10 842	13 310	16 146	19 385	-	-
60	-	-	7 413	9 327	11 540	14 089	17 010	-	-
70	-	-	-	7 754	9 699	11 947	14 536	-	-
73	-	-	-	7 273	9 134	11 290	13 776	-	-

**Power input in W**

22	2 176	2 201	2 269	2 360	2 453	-	-	-	-
30	2 610	2 636	2 694	2 765	2 828	2 865	-	-	-
40	3 216	3 263	3 329	3 396	3 442	3 449	3 395	-	-
50	-	3 966	4 063	4 147	4 199	4 198	4 124	-	-
60	-	-	4 874	4 999	5 078	5 092	5 021	-	-
70	-	-	-	5 932	6 062	6 113	6 067	-	-
73	-	-	-	6 225	6 374	6 441	6 406	-	-

**Current consumption in A**

22	4.19	4.24	4.37	4.54	4.72	-	-	-	-
30	5.02	5.07	5.18	5.32	5.44	5.51	-	-	-
40	6.19	6.28	6.41	6.54	6.62	6.64	6.53	-	-
50	-	7.63	7.82	7.98	8.08	8.08	7.94	-	-
60	-	-	9.38	9.62	9.77	9.80	9.66	-	-
70	-	-	-	11.42	11.67	11.76	11.68	-	-
73	-	-	-	11.98	12.27	12.40	12.33	-	-

**Mass flow in kg/h**

22	166	206	250	301	357	-	-	-	-
30	162	202	247	298	355	418	-	-	-
40	159	198	243	294	351	416	488	-	-
50	-	194	238	289	346	412	486	-	-
60	-	-	232	282	339	405	480	-	-
70	-	-	-	273	330	395	470	-	-
73	-	-	-	270	326	392	466	-	-

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

22	3.55	4.40	5.29	6.22	7.25	-	-	-	-
30	2.71	3.39	4.13	4.94	5.87	6.97	-	-	-
40	1.93	2.43	2.99	3.62	4.36	5.25	6.38	-	-
50	-	1.73	2.14	2.61	3.17	3.85	4.70	-	-
60	-	-	1.52	1.87	2.27	2.77	3.39	-	-
70	-	-	-	1.31	1.60	1.95	2.40	-	-
73	-	-	-	1.17	1.43	1.75	2.15	-	-

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

Cooling capacity	7 399	W
Power input	3 606	W
Current consumption	6.94	A
Mass flow	196	kg/h
C.O.P.	2.05	

**Pressure switch settings**

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

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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

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

**Cooling capacity in W**

22	7 857	9 803	12 088	14 748	17 823	-	-	-	-
30	-	9 095	11 256	13 761	16 649	19 961	-	-	-
40	-	-	10 147	12 447	15 087	18 107	21 550	-	-
50	-	-	8 970	11 052	13 432	16 146	19 231	-	-
60	-	-	-	9 587	11 695	14 089	-	-	-
70	-	-	-	-	9 886	11 947	-	-	-
73	-	-	-	-	9 331	11 290	-	-	-

**Power input in W**

22	2 176	2 201	2 269	2 360	2 453	-	-	-	-
30	-	2 636	2 694	2 765	2 828	2 865	-	-	-
40	-	-	3 329	3 396	3 442	3 449	3 395	-	-
50	-	-	4 063	4 147	4 199	4 198	4 124	-	-
60	-	-	-	4 999	5 078	5 092	-	-	-
70	-	-	-	-	6 062	6 113	-	-	-
73	-	-	-	-	6 374	6 441	-	-	-

**Current consumption in A**

22	4.19	4.24	4.37	4.54	4.72	-	-	-	-
30	-	5.07	5.18	5.32	5.44	5.51	-	-	-
40	-	-	6.41	6.54	6.62	6.64	6.53	-	-
50	-	-	7.82	7.98	8.08	8.08	7.94	-	-
60	-	-	-	9.62	9.77	9.80	-	-	-
70	-	-	-	-	11.67	11.76	-	-	-
73	-	-	-	-	12.27	12.40	-	-	-

**Mass flow in kg/h**

22	149	189	234	287	348	-	-	-	-
30	-	185	231	285	346	418	-	-	-
40	-	-	227	281	343	416	501	-	-
50	-	-	223	276	338	412	498	-	-
60	-	-	-	269	332	405	-	-	-
70	-	-	-	-	322	395	-	-	-
73	-	-	-	-	319	392	-	-	-

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

22	3.61	4.45	5.33	6.25	7.27	-	-	-	-
30	-	3.45	4.18	4.98	5.89	6.97	-	-	-
40	-	-	3.05	3.67	4.38	5.25	6.35	-	-
50	-	-	2.21	2.67	3.20	3.85	4.66	-	-
60	-	-	-	1.92	2.30	2.77	-	-	-
70	-	-	-	-	1.63	1.95	-	-	-
73	-	-	-	-	1.46	1.75	-	-	-

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

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

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

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

**Cooling capacity in W**

22	9 410	11 836	14 647	17 858	21 487	-	-	-	-
30	8 613	10 901	13 571	16 638	20 120	24 034	-	-	-
40	7 617	9 690	12 141	14 985	18 241	21 924	26 053	-	-
50	-	8 451	10 635	13 210	16 191	19 597	23 445	-	-
60	-	-	9 074	11 332	13 992	17 073	20 592	-	-
70	-	-	-	9 371	11 664	14 372	17 514	-	-
73	-	-	-	8 770	10 943	13 531	16 550	-	-

**Power input in W**

22	2 627	2 677	2 779	2 916	3 066	-	-	-	-
30	3 097	3 144	3 234	3 348	3 467	3 571	-	-	-
40	3 802	3 865	3 959	4 066	4 166	4 239	4 265	-	-
50	-	4 714	4 835	4 957	5 060	5 124	5 131	-	-
60	-	-	5 837	5 996	6 124	6 202	6 211	-	-
70	-	-	-	7 157	7 333	7 448	7 481	-	-
73	-	-	-	7 526	7 720	7 850	7 895	-	-

**Current consumption in A**

22	4.12	4.20	4.36	4.57	4.81	-	-	-	-
30	4.86	4.93	5.07	5.25	5.44	5.60	-	-	-
40	5.97	6.06	6.21	6.38	6.54	6.65	6.69	-	-
50	-	7.40	7.59	7.78	7.94	8.04	8.05	-	-
60	-	-	9.16	9.41	9.61	9.73	9.74	-	-
70	-	-	-	11.23	11.50	11.68	11.74	-	-
73	-	-	-	11.81	12.11	12.32	12.39	-	-

**Mass flow in kg/h**

22	201	249	303	364	432	-	-	-	-
30	201	248	302	363	432	507	-	-	-
40	197	244	297	359	428	504	588	-	-
50	-	236	290	351	421	498	583	-	-
60	-	-	281	342	412	489	575	-	-
70	-	-	-	333	402	481	567	-	-
73	-	-	-	330	400	478	565	-	-

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

22	3.58	4.42	5.27	6.12	7.01	-	-	-	-
30	2.78	3.47	4.20	4.97	5.80	6.73	-	-	-
40	2.00	2.51	3.07	3.69	4.38	5.17	6.11	-	-
50	-	1.79	2.20	2.66	3.20	3.82	4.57	-	-
60	-	-	1.55	1.89	2.28	2.75	3.32	-	-
70	-	-	-	1.31	1.59	1.93	2.34	-	-
73	-	-	-	1.17	1.42	1.72	2.10	-	-

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

Cooling capacity	9 073	W
Power input	4 275	W
Current consumption	6.71	A
Mass flow	240	kg/h
C.O.P.	2.12	

**Pressure switch settings**

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

**Sound power data**

Sound power level	78	dB(A)
With acoustic hood	70	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

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

**Cooling capacity in W**

22	9 560	11 974	14 760	17 935	21 523	-	-	-	-
30	-	11 103	13 745	16 766	20 188	24 034	-	-	-
40	-	-	12 391	15 178	18 349	21 924	25 931	-	-
50	-	-	10 959	13 466	16 340	19 597	23 258	-	-
60	-	-	-	11 648	14 181	17 073	-	-	-
70	-	-	-	-	11 889	14 372	-	-	-
73	-	-	-	-	11 179	13 531	-	-	-

**Power input in W**

22	2 627	2 677	2 779	2 916	3 066	-	-	-	-
30	-	3 144	3 234	3 348	3 467	3 571	-	-	-
40	-	-	3 959	4 066	4 166	4 239	4 265	-	-
50	-	-	4 835	4 957	5 060	5 124	5 131	-	-
60	-	-	-	5 996	6 124	6 202	-	-	-
70	-	-	-	-	7 333	7 448	-	-	-
73	-	-	-	-	7 720	7 850	-	-	-

**Current consumption in A**

22	4.12	4.20	4.36	4.57	4.81	-	-	-	-
30	-	4.93	5.07	5.25	5.44	5.60	-	-	-
40	-	-	6.21	6.38	6.54	6.65	6.69	-	-
50	-	-	7.59	7.78	7.94	8.04	8.05	-	-
60	-	-	-	9.41	9.61	9.73	-	-	-
70	-	-	-	-	11.50	11.68	-	-	-
73	-	-	-	-	12.11	12.32	-	-	-

**Mass flow in kg/h**

22	181	229	284	348	422	-	-	-	-
30	-	228	283	347	422	507	-	-	-
40	-	-	278	343	418	504	603	-	-
50	-	-	272	336	411	498	598	-	-
60	-	-	-	327	402	489	-	-	-
70	-	-	-	-	393	481	-	-	-
73	-	-	-	-	390	478	-	-	-

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

22	3.64	4.47	5.31	6.15	7.02	-	-	-	-
30	-	3.53	4.25	5.01	5.82	6.73	-	-	-
40	-	-	3.13	3.73	4.40	5.17	6.08	-	-
50	-	-	2.27	2.72	3.23	3.82	4.53	-	-
60	-	-	-	1.94	2.32	2.75	-	-	-
70	-	-	-	-	1.62	1.93	-	-	-
73	-	-	-	-	1.45	1.72	-	-	-

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

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

Sound power level	78	dB(A)
With acoustic hood	70	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions**
**R407A**

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

**Cooling capacity in W**

10	8 901	11 237	14 045	17 380	-	-	-	-	-
20	7 889	10 072	12 679	15 769	19 396	23 617	-	-	-
30	6 811	8 817	11 201	14 021	17 332	21 191	25 653	30 777	-
40	5 688	7 494	9 632	12 159	15 130	18 603	22 633	27 277	-
45	-	6 814	8 820	11 191	13 984	17 255	21 061	25 457	-
50	-	-	7 994	10 204	12 812	15 876	19 450	23 592	-
55	-	-	-	9 198	11 617	14 466	17 804	21 686	-
60	-	-	-	-	10 400	13 030	16 125	19 741	-

**Power input in W**

10	2 516	2 592	2 633	2 612	-	-	-	-	-
20	3 071	3 160	3 251	3 316	3 332	3 270	-	-	-
30	3 858	3 900	3 980	4 071	4 149	4 186	4 157	4 037	-
40	5 056	4 990	4 998	5 054	5 133	5 208	5 253	5 243	-
45	-	5 721	5 671	5 687	5 743	5 814	5 874	5 897	-
50	-	-	6 482	6 442	6 461	6 513	6 572	6 612	-
55	-	-	-	7 343	7 310	7 328	7 371	7 413	-
60	-	-	-	-	8 311	8 279	8 291	8 320	-

**Current consumption in A**

10	9.10	9.14	9.20	9.28	-	-	-	-	-
20	8.42	8.45	8.51	8.59	8.67	8.75	-	-	-
30	8.70	8.73	8.79	8.87	8.95	9.02	9.08	9.10	-
40	9.72	9.77	9.84	9.92	10.01	10.09	10.14	10.17	-
45	-	10.51	10.58	10.68	10.77	10.85	10.91	10.94	-
50	-	-	11.45	11.55	11.65	11.74	11.81	11.84	-
55	-	-	-	12.52	12.63	12.73	12.80	12.84	-
60	-	-	-	-	13.68	13.78	13.87	13.92	-

**Mass flow in kg/h**

10	174	216	266	324	-	-	-	-	-
20	167	210	260	318	386	463	-	-	-
30	159	202	252	310	376	453	540	639	-
40	148	191	240	298	364	439	526	624	-
45	-	184	234	290	356	431	517	614	-
50	-	-	226	282	347	422	507	604	-
55	-	-	-	273	338	412	496	592	-
60	-	-	-	-	327	400	484	579	-

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

10	3.54	4.34	5.33	6.65	-	-	-	-	-
20	2.57	3.19	3.90	4.75	5.82	7.22	-	-	-
30	1.77	2.26	2.81	3.44	4.18	5.06	6.17	7.62	-
40	1.12	1.50	1.93	2.41	2.95	3.57	4.31	5.20	-
45	-	1.19	1.56	1.97	2.44	2.97	3.59	4.32	-
50	-	-	1.23	1.58	1.98	2.44	2.96	3.57	-
55	-	-	-	1.25	1.59	1.97	2.42	2.93	-
60	-	-	-	-	1.25	1.57	1.94	2.37	-

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

Cooling capacity	11 191	W
Power input	5 687	W
Current consumption	10.68	A
Mass flow	290	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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 50 Hz, ARI rating conditions**
**R407A**

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

**Cooling capacity in W**

10	9 453	11 922	14 887	18 406	-	-	-	-	-
20	8 440	10 763	13 535	16 815	20 661	25 133	-	-	-
30	7 355	9 508	12 064	15 081	18 619	22 737	27 494	32 949	-
40	6 219	8 180	10 495	13 227	16 434	20 176	24 513	29 503	-
45	-	7 495	9 682	12 262	15 295	18 841	22 960	27 711	-
50	-	-	8 854	11 277	14 132	17 477	21 373	25 880	-
55	-	-	-	10 276	12 947	16 087	19 757	24 017	-
60	-	-	-	-	-	14 680	18 121	22 132	-

**Power input in W**

10	2 516	2 592	2 633	2 612	-	-	-	-	-
20	3 071	3 160	3 251	3 316	3 332	3 270	-	-	-
30	3 858	3 900	3 980	4 071	4 149	4 186	4 157	4 037	-
40	5 056	4 990	4 998	5 054	5 133	5 208	5 253	5 243	-
45	-	5 721	5 671	5 687	5 743	5 814	5 874	5 897	-
50	-	-	6 482	6 442	6 461	6 513	6 572	6 612	-
55	-	-	-	7 343	7 310	7 328	7 371	7 413	-
60	-	-	-	-	-	8 279	8 291	8 320	-

**Current consumption in A**

10	9.10	9.14	9.20	9.28	-	-	-	-	-
20	8.42	8.45	8.51	8.59	8.67	8.75	-	-	-
30	8.70	8.73	8.79	8.87	8.95	9.02	9.08	9.10	-
40	9.72	9.77	9.84	9.92	10.01	10.09	10.14	10.17	-
45	-	10.51	10.58	10.68	10.77	10.85	10.91	10.94	-
50	-	-	11.45	11.55	11.65	11.74	11.81	11.84	-
55	-	-	-	12.52	12.63	12.73	12.80	12.84	-
60	-	-	-	-	-	13.78	13.87	13.92	-

**Mass flow in kg/h**

10	173	215	265	323	-	-	-	-	-
20	166	209	259	317	383	460	-	-	-
30	158	201	251	308	374	450	537	635	-
40	147	190	239	296	362	437	523	620	-
45	-	183	232	289	354	429	514	611	-
50	-	-	225	281	345	419	504	600	-
55	-	-	-	272	336	409	493	588	-
60	-	-	-	-	-	398	481	576	-

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

10	3.76	4.60	5.66	7.05	-	-	-	-	-
20	2.75	3.41	4.16	5.07	6.20	7.69	-	-	-
30	1.91	2.44	3.03	3.70	4.49	5.43	6.61	8.16	-
40	1.23	1.64	2.10	2.62	3.20	3.87	4.67	5.63	-
45	-	1.31	1.71	2.16	2.66	3.24	3.91	4.70	-
50	-	-	1.37	1.75	2.19	2.68	3.25	3.91	-
55	-	-	-	1.40	1.77	2.20	2.68	3.24	-
60	-	-	-	-	-	1.77	2.19	2.66	-

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

Cooling capacity	12 262	W
Power input	5 687	W
Current consumption	10.68	A
Mass flow	289	kg/h
C.O.P.	2.16	

**Pressure switch settings**

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

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R407A**

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

**Cooling capacity in W**

10	11 075	13 961	17 426	21 540	-	-	-	-	-
20	9 818	12 513	15 731	19 543	24 016	29 223	-	-	-
30	8 485	10 963	13 907	17 388	21 474	26 237	31 746	38 070	-
40	7 100	9 333	11 975	15 098	18 770	23 062	28 043	33 783	-
45	-	8 494	10 976	13 909	17 364	21 410	26 118	31 556	-
50	-	-	9 958	12 696	15 926	19 720	24 146	29 275	-
55	-	-	-	11 459	14 459	17 993	22 132	26 945	-
60	-	-	-	-	12 965	16 233	20 077	24 568	-

**Power input in W**

10	2 958	3 030	3 113	3 204	-	-	-	-	-
20	3 666	3 719	3 793	3 884	3 986	4 095	-	-	-
30	4 618	4 635	4 683	4 758	4 853	4 965	5 088	5 218	-
40	5 927	5 892	5 898	5 939	6 010	6 108	6 226	6 361	-
45	-	6 684	6 662	6 680	6 734	6 818	6 928	7 059	-
50	-	-	7 550	7 541	7 572	7 639	7 736	7 860	-
55	-	-	-	8 536	8 541	8 586	8 666	8 777	-
60	-	-	-	-	9 654	9 673	9 732	9 827	-

**Current consumption in A**

10	7.60	7.71	7.79	7.86	-	-	-	-	-
20	7.89	8.00	8.10	8.18	8.26	8.35	-	-	-
30	8.44	8.55	8.64	8.72	8.80	8.89	8.99	9.13	-
40	9.48	9.57	9.64	9.71	9.77	9.84	9.94	10.06	-
45	-	10.33	10.39	10.44	10.49	10.55	10.63	10.74	-
50	-	-	11.34	11.38	11.41	11.46	11.52	11.62	-
55	-	-	-	12.54	12.55	12.58	12.63	12.70	-
60	-	-	-	-	13.95	13.95	13.98	14.03	-

**Mass flow in kg/h**

10	216	269	330	402	-	-	-	-	-
20	208	261	323	395	477	572	-	-	-
30	198	251	313	384	466	561	668	791	-
40	185	238	299	370	451	545	651	773	-
45	-	230	291	361	442	535	641	762	-
50	-	-	281	351	432	524	629	749	-
55	-	-	-	340	420	512	617	736	-
60	-	-	-	-	408	499	603	721	-

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

10	3.74	4.61	5.60	6.72	-	-	-	-	-
20	2.68	3.36	4.15	5.03	6.02	7.14	-	-	-
30	1.84	2.37	2.97	3.65	4.43	5.28	6.24	7.30	-
40	1.20	1.58	2.03	2.54	3.12	3.78	4.50	5.31	-
45	-	1.27	1.65	2.08	2.58	3.14	3.77	4.47	-
50	-	-	1.32	1.68	2.10	2.58	3.12	3.72	-
55	-	-	-	1.34	1.69	2.10	2.55	3.07	-
60	-	-	-	-	1.34	1.68	2.06	2.50	-

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

Cooling capacity	13 909	W
Power input	6 680	W
Current consumption	10.44	A
Mass flow	361	kg/h
C.O.P.	2.08	

**Pressure switch settings**

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

**Sound power data**

Sound power level	78	dB(A)
With acoustic hood	70	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R407A**

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

**Cooling capacity in W**

10	11 762	14 812	18 471	22 813	-	-	-	-	-
20	10 504	13 372	16 793	20 839	25 583	31 099	-	-	-
30	9 164	11 823	14 978	18 702	23 069	28 152	34 024	40 758	-
40	7 763	10 186	13 048	16 424	20 387	25 012	30 372	36 540	-
45	-	9 343	12 049	15 240	18 992	23 378	28 473	34 350	-
50	-	-	11 030	14 032	17 566	21 709	26 533	32 114	-
55	-	-	-	12 802	16 115	20 009	24 559	29 841	-
60	-	-	-	-	-	18 288	22 562	27 543	-

**Power input in W**

10	2 958	3 030	3 113	3 204	-	-	-	-	-
20	3 666	3 719	3 793	3 884	3 986	4 095	-	-	-
30	4 618	4 635	4 683	4 758	4 853	4 965	5 088	5 218	-
40	5 927	5 892	5 898	5 939	6 010	6 108	6 226	6 361	-
45	-	6 684	6 662	6 680	6 734	6 818	6 928	7 059	-
50	-	-	7 550	7 541	7 572	7 639	7 736	7 860	-
55	-	-	-	8 536	8 541	8 586	8 666	8 777	-
60	-	-	-	-	-	9 673	9 732	9 827	-

**Current consumption in A**

10	7.60	7.71	7.79	7.86	-	-	-	-	-
20	7.89	8.00	8.10	8.18	8.26	8.35	-	-	-
30	8.44	8.55	8.64	8.72	8.80	8.89	8.99	9.13	-
40	9.48	9.57	9.64	9.71	9.77	9.84	9.94	10.06	-
45	-	10.33	10.39	10.44	10.49	10.55	10.63	10.74	-
50	-	-	11.34	11.38	11.41	11.46	11.52	11.62	-
55	-	-	-	12.54	12.55	12.58	12.63	12.70	-
60	-	-	-	-	-	13.95	13.98	14.03	-

**Mass flow in kg/h**

10	215	267	329	400	-	-	-	-	-
20	207	260	321	393	475	569	-	-	-
30	197	250	311	382	464	557	664	786	-
40	184	237	297	368	449	541	647	768	-
45	-	229	289	359	439	532	637	757	-
50	-	-	280	349	429	521	626	745	-
55	-	-	-	339	418	509	613	731	-
60	-	-	-	-	-	496	599	716	-

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

10	3.98	4.89	5.93	7.12	-	-	-	-	-
20	2.87	3.60	4.43	5.37	6.42	7.59	-	-	-
30	1.98	2.55	3.20	3.93	4.75	5.67	6.69	7.81	-
40	1.31	1.73	2.21	2.77	3.39	4.10	4.88	5.74	-
45	-	1.40	1.81	2.28	2.82	3.43	4.11	4.87	-
50	-	-	1.46	1.86	2.32	2.84	3.43	4.09	-
55	-	-	-	1.50	1.89	2.33	2.83	3.40	-
60	-	-	-	-	-	1.89	2.32	2.80	-

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

Cooling capacity	15 240	W
Power input	6 680	W
Current consumption	10.44	A
Mass flow	359	kg/h
C.O.P.	2.28	

**Pressure switch settings**

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

**Sound power data**

Sound power level	78	dB(A)
With acoustic hood	70	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions**
**R407F**

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

**Cooling capacity in W**

10	10 505	12 046	15 003	18 497	-	-	-	-	-
20	9 422	10 870	13 635	16 891	20 697	25 110	-	-	-
30	8 254	9 593	12 141	15 134	18 631	22 691	27 370	32 728	-
40	7 019	8 234	10 539	13 245	16 408	20 088	24 343	29 230	-
45	-	-	9 705	12 256	15 243	18 724	22 757	27 400	-
50	-	-	-	11 242	14 046	17 322	21 126	25 518	-
55	-	-	-	-	12 820	15 883	19 453	23 587	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	2 649	2 695	2 741	2 725	-	-	-	-	-
20	3 229	3 285	3 377	3 445	3 461	3 400	-	-	-
30	4 049	4 080	4 158	4 248	4 323	4 359	4 328	4 204	-
40	5 285	5 252	5 256	5 308	5 383	5 454	5 496	5 481	-
45	-	-	5 979	5 990	6 042	6 108	6 163	6 180	-
50	-	-	-	6 802	6 815	6 862	6 915	6 949	-
55	-	-	-	-	7 726	7 737	7 774	7 810	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	8.34	8.36	8.41	8.48	-	-	-	-	-
20	8.69	8.71	8.76	8.82	8.90	8.98	-	-	-
30	9.34	9.37	9.42	9.49	9.56	9.64	9.71	9.78	-
40	10.44	10.48	10.55	10.62	10.70	10.77	10.84	10.89	-
45	-	-	11.33	11.42	11.50	11.57	11.63	11.68	-
50	-	-	-	12.38	12.47	12.54	12.61	12.65	-
55	-	-	-	-	13.63	13.71	13.78	13.82	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	183	209	257	313	-	-	-	-	-
20	178	203	252	308	372	446	-	-	-
30	170	195	244	299	363	437	521	616	-
40	159	185	232	288	351	424	507	601	-
45	-	-	226	281	344	416	498	592	-
50	-	-	-	273	335	407	489	581	-
55	-	-	-	-	326	397	478	570	-
60	-	-	-	-	-	-	-	-	-

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

10	3.97	4.47	5.47	6.79	-	-	-	-	-
20	2.92	3.31	4.04	4.90	5.98	7.38	-	-	-
30	2.04	2.35	2.92	3.56	4.31	5.21	6.32	7.79	-
40	1.33	1.57	2.01	2.50	3.05	3.68	4.43	5.33	-
45	-	-	1.62	2.05	2.52	3.07	3.69	4.43	-
50	-	-	-	1.65	2.06	2.52	3.05	3.67	-
55	-	-	-	-	1.66	2.05	2.50	3.02	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	12 256	W
Power input	5 990	W
Current consumption	11.42	A
Mass flow	281	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

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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	11 103	12 726	15 838	19 512	-	-	-	-	-
20	10 018	11 551	14 478	17 921	21 941	26 599	-	-	-
30	8 842	10 271	12 985	16 172	19 890	24 202	29 168	34 849	-
40	-	8 903	11 381	14 286	17 678	21 619	26 171	31 394	-
45	-	-	10 544	13 298	16 518	20 265	24 602	29 588	-
50	-	-	-	12 286	15 328	18 876	22 992	27 738	-
55	-	-	-	-	-	17 458	21 350	25 851	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 649	2 695	2 741	2 725	-	-	-	-	-
20	3 229	3 285	3 377	3 445	3 461	3 400	-	-	-
30	4 049	4 080	4 158	4 248	4 323	4 359	4 328	4 204	-
40	-	5 252	5 256	5 308	5 383	5 454	5 496	5 481	-
45	-	-	5 979	5 990	6 042	6 108	6 163	6 180	-
50	-	-	-	6 802	6 815	6 862	6 915	6 949	-
55	-	-	-	-	-	7 737	7 774	7 810	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	8.34	8.36	8.41	8.48	-	-	-	-	-
20	8.69	8.71	8.76	8.82	8.90	8.98	-	-	-
30	9.34	9.37	9.42	9.49	9.56	9.64	9.71	9.78	-
40	-	10.48	10.55	10.62	10.70	10.77	10.84	10.89	-
45	-	-	11.33	11.42	11.50	11.57	11.63	11.68	-
50	-	-	-	12.38	12.47	12.54	12.61	12.65	-
55	-	-	-	-	-	13.71	13.78	13.82	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	182	208	256	311	-	-	-	-	-
20	177	202	250	306	370	443	-	-	-
30	169	194	242	297	361	434	517	612	-
40	-	184	231	286	349	421	504	597	-
45	-	-	224	279	342	413	495	588	-
50	-	-	-	271	333	404	485	578	-
55	-	-	-	-	-	394	475	566	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.19	4.72	5.78	7.16	-	-	-	-	-
20	3.10	3.52	4.29	5.20	6.34	7.82	-	-	-
30	2.18	2.52	3.12	3.81	4.60	5.55	6.74	8.29	-
40	-	1.70	2.17	2.69	3.28	3.96	4.76	5.73	-
45	-	-	1.76	2.22	2.73	3.32	3.99	4.79	-
50	-	-	-	1.81	2.25	2.75	3.32	3.99	-
55	-	-	-	-	-	2.26	2.75	3.31	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	13 298	W
Power input	5 990	W
Current consumption	11.42	A
Mass flow	279	kg/h
C.O.P.	2.22	

Pressure switch settings

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

Sound power data

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R407F**

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

**Cooling capacity in W**

10	12 930	14 815	18 431	22 701	-	-	-	-	-
20	11 599	13 369	16 748	20 726	25 375	30 765	-	-	-
30	10 172	11 809	14 923	18 581	22 855	27 815	33 534	40 082	-
40	8 666	10 153	12 973	16 282	20 153	24 655	29 861	35 841	-
45	-	-	11 957	15 082	18 739	23 002	27 940	33 625	-
50	-	-	-	13 849	17 287	21 302	25 966	31 349	-
55	-	-	-	-	15 798	19 559	23 941	29 015	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	3 099	3 137	3 217	3 317	-	-	-	-	-
20	3 845	3 872	3 936	4 023	4 135	4 268	-	-	-
30	4 844	4 852	4 890	4 955	5 047	5 166	5 311	5 481	-
40	6 208	6 192	6 193	6 225	6 288	6 382	6 506	6 659	-
45	-	-	7 010	7 022	7 067	7 145	7 254	7 394	-
50	-	-	-	7 947	7 970	8 029	8 121	8 247	-
55	-	-	-	-	9 013	9 050	9 122	9 230	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	8.05	8.11	8.18	8.24	-	-	-	-	-
20	8.40	8.46	8.56	8.63	8.70	8.76	-	-	-
30	9.02	9.08	9.17	9.25	9.32	9.40	9.49	9.60	-
40	10.17	10.22	10.28	10.34	10.40	10.47	10.55	10.66	-
45	-	-	11.11	11.15	11.19	11.25	11.32	11.43	-
50	-	-	-	12.17	12.19	12.23	12.29	12.39	-
55	-	-	-	-	13.44	13.46	13.50	13.58	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	226	257	316	384	-	-	-	-	-
20	219	250	309	377	456	546	-	-	-
30	209	240	299	367	446	535	638	754	-
40	196	228	286	354	431	520	622	737	-
45	-	-	278	345	422	511	612	726	-
50	-	-	-	336	412	500	600	714	-
55	-	-	-	-	401	489	588	701	-
60	-	-	-	-	-	-	-	-	-

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

10	4.17	4.72	5.73	6.84	-	-	-	-	-
20	3.02	3.45	4.26	5.15	6.14	7.21	-	-	-
30	2.10	2.43	3.05	3.75	4.53	5.38	6.31	7.31	-
40	1.40	1.64	2.09	2.62	3.20	3.86	4.59	5.38	-
45	-	-	1.71	2.15	2.65	3.22	3.85	4.55	-
50	-	-	-	1.74	2.17	2.65	3.20	3.80	-
55	-	-	-	-	1.75	2.16	2.62	3.14	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	15 082	W
Power input	7 022	W
Current consumption	11.15	A
Mass flow	345	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	78	dB(A)
With acoustic hood	70	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R407F**

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

**Cooling capacity in W**

10	13 666	15 651	19 456	23 947	-	-	-	-	-
20	12 333	14 207	17 783	21 989	26 900	32 590	-	-	-
30	10 898	12 643	15 961	19 855	24 399	29 668	35 738	42 681	-
40	-	10 977	14 009	17 562	21 712	26 534	32 103	38 494	-
45	-	-	12 991	16 363	20 306	24 895	30 205	36 311	-
50	-	-	-	15 135	18 865	23 214	28 260	34 076	-
55	-	-	-	-	-	21 500	26 277	31 801	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	3 099	3 137	3 217	3 317	-	-	-	-	-
20	3 845	3 872	3 936	4 023	4 135	4 268	-	-	-
30	4 844	4 852	4 890	4 955	5 047	5 166	5 311	5 481	-
40	-	6 192	6 193	6 225	6 288	6 382	6 506	6 659	-
45	-	-	7 010	7 022	7 067	7 145	7 254	7 394	-
50	-	-	-	7 947	7 970	8 029	8 121	8 247	-
55	-	-	-	-	-	9 050	9 122	9 230	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	8.05	8.11	8.18	8.24	-	-	-	-	-
20	8.40	8.46	8.56	8.63	8.70	8.76	-	-	-
30	9.02	9.08	9.17	9.25	9.32	9.40	9.49	9.60	-
40	-	10.22	10.28	10.34	10.40	10.47	10.55	10.66	-
45	-	-	11.11	11.15	11.19	11.25	11.32	11.43	-
50	-	-	-	12.17	12.19	12.23	12.29	12.39	-
55	-	-	-	-	-	13.46	13.50	13.58	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	225	256	314	382	-	-	-	-	-
20	218	249	307	375	453	543	-	-	-
30	208	239	298	365	443	532	634	749	-
40	-	226	284	352	429	517	618	732	-
45	-	-	277	343	420	508	608	721	-
50	-	-	-	334	410	497	597	710	-
55	-	-	-	-	-	486	584	696	-
60	-	-	-	-	-	-	-	-	-

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

10	4.41	4.99	6.05	7.22	-	-	-	-	-
20	3.21	3.67	4.52	5.47	6.51	7.64	-	-	-
30	2.25	2.61	3.26	4.01	4.83	5.74	6.73	7.79	-
40	-	1.77	2.26	2.82	3.45	4.16	4.93	5.78	-
45	-	-	1.85	2.33	2.87	3.48	4.16	4.91	-
50	-	-	-	1.90	2.37	2.89	3.48	4.13	-
55	-	-	-	-	-	2.38	2.88	3.45	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	16 363	W
Power input	7 022	W
Current consumption	11.15	A
Mass flow	343	kg/h
C.O.P.	2.33	

**Pressure switch settings**

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

**Sound power data**

Sound power level	78	dB(A)
With acoustic hood	70	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R448A**

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

**Cooling capacity in W**

10	7 404	9 316	11 613	14 353	17 591	-	-	-	-
20	6 675	8 523	10 714	13 303	16 347	19 904	24 030	-	-
30	-	-	9 643	12 037	14 843	18 117	21 917	26 301	31 323
40	-	-	-	10 603	13 125	16 073	19 502	23 471	28 036
50	-	-	-	-	11 244	13 818	16 832	20 342	24 404
60	-	-	-	-	-	-	13 956	16 961	20 475

**Power input in W**

10	2 318	2 368	2 420	2 476	2 542	-	-	-	-
20	2 921	2 975	3 029	3 088	3 156	3 237	3 335	-	-
30	-	-	3 810	3 857	3 912	3 981	4 067	4 174	4 307
40	-	-	-	4 898	4 927	4 970	5 029	5 109	5 214
50	-	-	-	-	6 315	6 317	6 335	6 374	6 438
60	-	-	-	-	-	-	8 101	8 085	8 093

**Current consumption in A**

10	7.47	7.50	7.53	7.55	7.58	-	-	-	-
20	7.84	7.92	7.98	8.03	8.08	8.14	8.22	-	-
30	-	-	8.64	8.71	8.78	8.84	8.92	9.01	9.13
40	-	-	-	9.76	9.83	9.89	9.95	10.03	10.12
50	-	-	-	-	11.41	11.46	11.50	11.54	11.60
60	-	-	-	-	-	-	13.71	13.72	13.73

**Mass flow in kg/h**

10	120	153	192	238	292	-	-	-	-
20	117	150	189	236	291	357	435	-	-
30	-	-	184	231	286	353	431	523	631
40	-	-	-	222	277	343	421	513	620
50	-	-	-	-	264	329	406	497	603
60	-	-	-	-	-	-	386	475	580

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

10	3.19	3.93	4.80	5.80	6.92	-	-	-	-
20	2.29	2.87	3.54	4.31	5.18	6.15	7.21	-	-
30	-	-	2.53	3.12	3.79	4.55	5.39	6.30	7.27
40	-	-	-	2.16	2.66	3.23	3.88	4.59	5.38
50	-	-	-	-	1.78	2.19	2.66	3.19	3.79
60	-	-	-	-	-	-	1.72	2.10	2.53

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

Cooling capacity	12 202	W
Power input	5 568	W
Current consumption	10.54	A
Mass flow	272	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		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

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

**Cooling capacity in W**

10	7 435	9 362	11 679	14 441	17 704	-	-	-	-
20	6 616	8 468	10 669	13 275	16 343	19 927	24 075	-	-
30	5 721	7 451	9 488	11 892	14 719	18 026	21 866	26 286	31 323
40	-	-	8 189	10 343	12 883	15 867	19 353	23 394	28 036
50	-	-	-	8 681	10 887	13 502	16 588	20 203	24 404
60	-	-	-	-	8 782	10 981	13 618	16 761	20 475

**Power input in W**

10	2 318	2 368	2 420	2 476	2 542	-	-	-	-
20	2 921	2 975	3 029	3 088	3 156	3 237	3 335	-	-
30	3 724	3 767	3 810	3 857	3 912	3 981	4 067	4 174	4 307
40	-	-	4 876	4 898	4 927	4 970	5 029	5 109	5 214
50	-	-	-	6 325	6 315	6 317	6 335	6 374	6 438
60	-	-	-	-	8 190	8 137	8 101	8 085	8 093

**Current consumption in A**

10	7.47	7.50	7.53	7.55	7.58	-	-	-	-
20	7.84	7.92	7.98	8.03	8.08	8.14	8.22	-	-
30	8.44	8.55	8.64	8.71	8.78	8.84	8.92	9.01	9.13
40	-	-	9.68	9.76	9.83	9.89	9.95	10.03	10.12
50	-	-	-	11.35	11.41	11.46	11.50	11.54	11.60
60	-	-	-	-	13.68	13.70	13.71	13.72	13.73

**Mass flow in kg/h**

10	142	178	219	266	321	-	-	-	-
20	138	175	216	264	320	384	458	-	-
30	133	169	210	258	314	379	453	537	631
40	-	-	201	249	305	369	443	527	620
50	-	-	-	236	290	354	427	510	603
60	-	-	-	-	271	333	406	488	580

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

10	3.21	3.95	4.83	5.83	6.96	-	-	-	-
20	2.27	2.85	3.52	4.30	5.18	6.16	7.22	-	-
30	1.54	1.98	2.49	3.08	3.76	4.53	5.38	6.30	7.27
40	-	-	1.68	2.11	2.61	3.19	3.85	4.58	5.38
50	-	-	-	1.37	1.72	2.14	2.62	3.17	3.79
60	-	-	-	-	1.07	1.35	1.68	2.07	2.53

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

Cooling capacity	11 902	W
Power input	5 568	W
Current consumption	10.54	A
Mass flow	298	kg/h
C.O.P.	2.14	

**Pressure switch settings**

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

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R449A**

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

**Cooling capacity in W**

10	7 404	9 316	11 613	14 353	17 591	-	-	-	-
20	6 675	8 523	10 714	13 303	16 347	19 904	24 030	-	-
30	-	-	9 643	12 037	14 843	18 117	21 917	26 301	31 323
40	-	-	-	10 603	13 125	16 073	19 502	23 471	28 036
50	-	-	-	-	11 244	13 818	16 832	20 342	24 404
60	-	-	-	-	-	-	13 956	16 961	20 475

**Power input in W**

10	2 318	2 368	2 420	2 476	2 542	-	-	-	-
20	2 921	2 975	3 029	3 088	3 156	3 237	3 335	-	-
30	-	-	3 810	3 857	3 912	3 981	4 067	4 174	4 307
40	-	-	-	4 898	4 927	4 970	5 029	5 109	5 214
50	-	-	-	-	6 315	6 317	6 335	6 374	6 438
60	-	-	-	-	-	-	8 101	8 085	8 093

**Current consumption in A**

10	7.47	7.50	7.53	7.55	7.58	-	-	-	-
20	7.84	7.92	7.98	8.03	8.08	8.14	8.22	-	-
30	-	-	8.64	8.71	8.78	8.84	8.92	9.01	9.13
40	-	-	-	9.76	9.83	9.89	9.95	10.03	10.12
50	-	-	-	-	11.41	11.46	11.50	11.54	11.60
60	-	-	-	-	-	-	13.71	13.72	13.73

**Mass flow in kg/h**

10	120	153	192	238	292	-	-	-	-
20	117	150	189	236	291	357	435	-	-
30	-	-	184	231	286	353	431	523	631
40	-	-	-	222	277	343	421	513	620
50	-	-	-	-	264	329	406	497	603
60	-	-	-	-	-	-	386	475	580

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

10	3.19	3.93	4.80	5.80	6.92	-	-	-	-
20	2.29	2.87	3.54	4.31	5.18	6.15	7.21	-	-
30	-	-	2.53	3.12	3.79	4.55	5.39	6.30	7.27
40	-	-	-	2.16	2.66	3.23	3.88	4.59	5.38
50	-	-	-	-	1.78	2.19	2.66	3.19	3.79
60	-	-	-	-	-	-	1.72	2.10	2.53

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

Cooling capacity	12 202	W
Power input	5 568	W
Current consumption	10.54	A
Mass flow	272	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		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	7 419	9 345	11 661	14 424	17 688	-	-	-	-
20	6 599	8 450	10 650	13 256	16 325	19 911	24 062	-	-
30	5 703	7 432	9 468	11 871	14 699	18 008	21 852	26 278	31 323
40	-	-	8 168	10 321	12 862	15 848	19 338	23 386	28 036
50	-	-	-	8 659	10 865	13 482	16 572	20 194	24 404
60	-	-	-	-	8 760	10 961	13 602	16 751	20 475

**Power input in W**

10	2 318	2 368	2 420	2 476	2 542	-	-	-	-
20	2 921	2 975	3 029	3 088	3 156	3 237	3 335	-	-
30	3 724	3 767	3 810	3 857	3 912	3 981	4 067	4 174	4 307
40	-	-	4 876	4 898	4 927	4 970	5 029	5 109	5 214
50	-	-	-	6 325	6 315	6 317	6 335	6 374	6 438
60	-	-	-	-	8 190	8 137	8 101	8 085	8 093

**Current consumption in A**

10	7.47	7.50	7.53	7.55	7.58	-	-	-	-
20	7.84	7.92	7.98	8.03	8.08	8.14	8.22	-	-
30	8.44	8.55	8.64	8.71	8.78	8.84	8.92	9.01	9.13
40	-	-	9.68	9.76	9.83	9.89	9.95	10.03	10.12
50	-	-	-	11.35	11.41	11.46	11.50	11.54	11.60
60	-	-	-	-	13.68	13.70	13.71	13.72	13.73

**Mass flow in kg/h**

10	142	178	219	266	321	-	-	-	-
20	138	175	216	264	320	384	458	-	-
30	133	169	210	258	314	379	453	537	631
40	-	-	201	249	305	369	443	527	620
50	-	-	-	236	290	354	427	510	603
60	-	-	-	-	271	333	406	488	580

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

10	3.20	3.95	4.82	5.82	6.96	-	-	-	-
20	2.26	2.84	3.52	4.29	5.17	6.15	7.21	-	-
30	1.53	1.97	2.49	3.08	3.76	4.52	5.37	6.30	7.27
40	-	-	1.68	2.11	2.61	3.19	3.85	4.58	5.38
50	-	-	-	1.37	1.72	2.13	2.62	3.17	3.79
60	-	-	-	-	1.07	1.35	1.68	2.07	2.53

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

Cooling capacity	11 880	W
Power input	5 568	W
Current consumption	10.54	A
Mass flow	298	kg/h
C.O.P.	2.13	

**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