General Characteristics

Model number (on compressor nameplate)	MLZ021T4LP9A	MLZ021T4LP9A
Code number for Singlepack*	121U8633	121L8633
Code number for Industrial pack**	121U8632	121L8632
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4 " ODF	3/4 " ODF
Discharge connection	1/2 " ODF	1/2 " ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	46.21 cm3/rev	
Displacement @ Nominal speed	8.0 m3/h @ 2900 rpm - 9.7 m3/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/F,R448A,R449A,R452A,R513A,R22	

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 25ºC	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25ºC	3.422 Ω
Winding resistance between phases 2-3 +/- 7% at 25ºC	4.664 Ω
Rated Load Amps (RLA)	6.1 A
Maximum Continuous Current (MCC)	9.5 A
Locked Rotor Amps (LRA)	45 A
Motor protection	Internal overload protector

Recommended Installation torques

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

Parts shipped with compressor

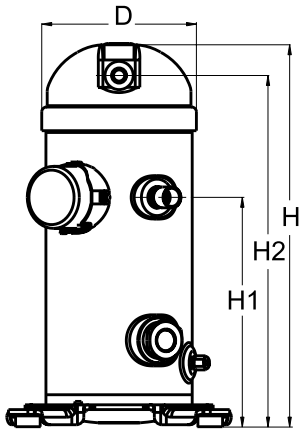
Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, -, -

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

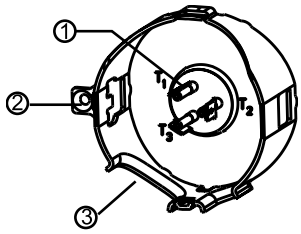
**Industrial pack: 121U..: 12 unboxed compressors on Danfoss pallet. 120U..: 16 unboxed compressors on US pallet

Dimensions



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

Terminal box



IP22

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

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Rotolock accessories, suction side	Code no.
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
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
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

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

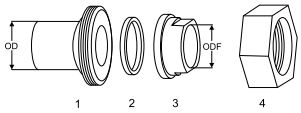
Oil / lubricants	Code no.
POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648

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

Solder sleeve adapter set



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

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

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-20	-15	-10	-5	0	5	10		
Cooling capacity in W									
16	4 362	5 186	6 120	7 197	-	-	-	-	-
20	4 166	4 992	5 924	6 993	8 231	-	-	-	-
30	3 694	4 505	5 410	6 443	7 635	9 017	10 615	-	-
40	3 247	4 015	4 868	5 838	6 958	8 260	9 772	-	-
50	-	3 527	4 300	5 180	6 202	7 398	8 799	-	-
60	-	-	-	4 473	5 371	6 434	7 697	-	-
68	-	-	-	-	-	5 592	6 726	-	-
Power input in W									
16	938	972	1 011	1 056	-	-	-	-	-
20	1 096	1 127	1 162	1 199	1 241	-	-	-	-
30	1 433	1 465	1 495	1 522	1 548	1 573	1 597	-	-
40	1 748	1 791	1 826	1 854	1 875	1 889	1 898	-	-
50	-	2 181	2 232	2 270	2 297	2 312	2 315	-	-
60	-	-	-	2 848	2 890	2 916	2 924	-	-
68	-	-	-	-	-	3 581	3 601	-	-
Current consumption in A									
16	1.80	1.87	1.95	2.03	-	-	-	-	-
20	2.11	2.17	2.24	2.31	2.39	-	-	-	-
30	2.76	2.82	2.88	2.93	2.98	3.03	3.07	-	-
40	3.36	3.45	3.51	3.57	3.61	3.64	3.65	-	-
50	-	4.20	4.30	4.37	4.42	4.45	4.46	-	-
60	-	-	-	5.48	5.56	5.61	5.63	-	-
68	-	-	-	-	-	6.89	6.93	-	-
Mass flow in kg/h									
16	91	106	121	140	-	-	-	-	-
20	87	102	119	137	159	-	-	-	-
30	80	96	114	133	156	182	211	-	-
40	75	91	110	130	153	180	210	-	-
50	-	86	105	125	149	175	206	-	-
60	-	-	-	118	141	168	198	-	-
68	-	-	-	-	-	159	189	-	-
Coefficient of performance (C.O.P.)									
16	4.65	5.34	6.05	6.82	-	-	-	-	-
20	3.80	4.43	5.10	5.83	6.63	-	-	-	-
30	2.58	3.08	3.62	4.23	4.93	5.73	6.65	-	-
40	1.86	2.24	2.67	3.15	3.71	4.37	5.15	-	-
50	-	1.62	1.93	2.28	2.70	3.20	3.80	-	-
60	-	-	-	1.57	1.86	2.21	2.63	-	-
68	-	-	-	-	-	1.56	1.87	-	-

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

Cooling capacity	4 587	W
Power input	2 015	W
Current consumption	3.88	A
Mass flow	107	kg/h
C.O.P.	2.28	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

Tolerance according EN12900

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

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-20	-15	-10	-5	0	5	10		
Cooling capacity in W									
16	4 255	5 075	6 009	7 091	-	-	-	-	-
20	4 076	4 896	5 826	6 899	8 151	-	-	-	-
30	3 641	4 446	5 348	6 381	7 580	8 980	10 615	-	-
40	-	3 993	4 841	5 809	6 930	8 239	9 772	-	-
50	-	-	-	5 184	6 201	7 394	8 799	-	-
60	-	-	-	-	5 395	6 447	7 697	-	-
68	-	-	-	-	-	-	6 726	-	-
Power input in W									
16	938	972	1 011	1 056	-	-	-	-	-
20	1 096	1 127	1 162	1 199	1 241	-	-	-	-
30	1 433	1 465	1 495	1 522	1 548	1 573	1 597	-	-
40	-	1 791	1 826	1 854	1 875	1 889	1 898	-	-
50	-	-	-	2 270	2 297	2 312	2 315	-	-
60	-	-	-	-	2 890	2 916	2 924	-	-
68	-	-	-	-	-	-	3 601	-	-
Current consumption in A									
16	1.80	1.87	1.95	2.03	-	-	-	-	-
20	2.11	2.17	2.24	2.31	2.39	-	-	-	-
30	2.76	2.82	2.88	2.93	2.98	3.03	3.07	-	-
40	-	3.45	3.51	3.57	3.61	3.64	3.65	-	-
50	-	-	-	4.37	4.42	4.45	4.46	-	-
60	-	-	-	-	5.56	5.61	5.63	-	-
68	-	-	-	-	-	-	6.93	-	-
Mass flow in kg/h									
16	80	95	111	130	-	-	-	-	-
20	77	92	109	128	152	-	-	-	-
30	70	86	104	125	149	177	211	-	-
40	-	82	100	121	146	175	210	-	-
50	-	-	-	117	142	171	206	-	-
60	-	-	-	-	135	164	198	-	-
68	-	-	-	-	-	-	189	-	-
Coefficient of performance (C.O.P.)									
16	4.54	5.22	5.94	6.72	-	-	-	-	-
20	3.72	4.34	5.01	5.75	6.57	-	-	-	-
30	2.54	3.04	3.58	4.19	4.90	5.71	6.65	-	-
40	-	2.23	2.65	3.13	3.70	4.36	5.15	-	-
50	-	-	-	2.28	2.70	3.20	3.80	-	-
60	-	-	-	-	1.87	2.21	2.63	-	-
68	-	-	-	-	-	-	1.87	-	-

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

Cooling capacity	4 578	W
Power input	2 015	W
Current consumption	3.88	A
Mass flow	98	kg/h
C.O.P.	2.27	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

Tolerance according EN12900

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

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-20	-15	-10	-5	0	5	10		
Cooling capacity in W									
16	4 505	5 695	7 081	8 660	-	-	-	-	-
20	4 450	5 601	6 944	8 475	10 190	-	-	-	-
30	4 198	5 255	6 492	7 909	9 500	11 261	13 182	-	-
40	3 813	4 778	5 914	7 219	8 690	10 324	12 112	-	-
50	-	4 207	5 244	6 440	7 793	9 303	10 962	-	-
60	-	-	-	5 604	6 843	8 230	9 764	-	-
68	-	-	-	-	-	7 357	8 793	-	-
Power input in W									
16	1 100	1 158	1 218	1 287	-	-	-	-	-
20	1 284	1 334	1 385	1 442	1 510	-	-	-	-
30	1 691	1 730	1 765	1 801	1 844	1 899	1 970	-	-
40	2 075	2 115	2 147	2 175	2 204	2 241	2 290	-	-
50	-	2 556	2 597	2 629	2 658	2 689	2 728	-	-
60	-	-	-	3 231	3 272	3 310	3 351	-	-
68	-	-	-	-	-	3 977	4 028	-	-
Current consumption in A									
16	1.73	1.82	1.91	2.02	-	-	-	-	-
20	2.02	2.09	2.17	2.26	2.37	-	-	-	-
30	2.65	2.71	2.77	2.83	2.89	2.98	3.09	-	-
40	3.26	3.32	3.37	3.41	3.46	3.52	3.59	-	-
50	-	4.01	4.07	4.12	4.17	4.22	4.28	-	-
60	-	-	-	5.07	5.13	5.19	5.26	-	-
68	-	-	-	-	-	6.24	6.32	-	-
Mass flow in kg/h									
16	97	116	139	165	-	-	-	-	-
20	98	117	139	165	194	-	-	-	-
30	98	117	139	164	193	225	260	-	-
40	93	113	136	162	191	223	258	-	-
50	-	105	129	156	186	219	255	-	-
60	-	-	-	146	177	212	249	-	-
68	-	-	-	-	-	204	243	-	-
Coefficient of performance (C.O.P.)									
16	4.10	4.92	5.81	6.73	-	-	-	-	-
20	3.46	4.20	5.01	5.88	6.75	-	-	-	-
30	2.48	3.04	3.68	4.39	5.15	5.93	6.69	-	-
40	1.84	2.26	2.76	3.32	3.94	4.61	5.29	-	-
50	-	1.65	2.02	2.45	2.93	3.46	4.02	-	-
60	-	-	-	1.73	2.09	2.49	2.91	-	-
68	-	-	-	-	-	1.85	2.18	-	-

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

Cooling capacity	5 589	W
Power input	2 359	W
Current consumption	3.70	A
Mass flow	133	kg/h
C.O.P.	2.37	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

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

Tolerance according EN12900

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

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-20	-15	-10	-5	0	5	10		
Cooling capacity in W									
16	4 395	5 573	6 952	8 532	-	-	-	-	-
20	4 353	5 493	6 830	8 362	10 091	-	-	-	-
30	4 137	5 186	6 418	7 833	9 432	11 215	13 182	-	-
40	-	4 752	5 882	7 183	8 655	10 298	12 112	-	-
50	-	-	-	6 444	7 792	9 298	10 962	-	-
60	-	-	-	-	6 874	8 246	9 764	-	-
68	-	-	-	-	-	-	8 793	-	-
Power input in W									
16	1 100	1 158	1 218	1 287	-	-	-	-	-
20	1 284	1 334	1 385	1 442	1 510	-	-	-	-
30	1 691	1 730	1 765	1 801	1 844	1 899	1 970	-	-
40	-	2 115	2 147	2 175	2 204	2 241	2 290	-	-
50	-	-	-	2 629	2 658	2 689	2 728	-	-
60	-	-	-	-	3 272	3 310	3 351	-	-
68	-	-	-	-	-	-	4 028	-	-
Current consumption in A									
16	1.73	1.82	1.91	2.02	-	-	-	-	-
20	2.02	2.09	2.17	2.26	2.37	-	-	-	-
30	2.65	2.71	2.77	2.83	2.89	2.98	3.09	-	-
40	-	3.32	3.37	3.41	3.46	3.52	3.59	-	-
50	-	-	-	4.12	4.17	4.22	4.28	-	-
60	-	-	-	-	5.13	5.19	5.26	-	-
68	-	-	-	-	-	-	6.32	-	-
Mass flow in kg/h									
16	85	104	127	154	-	-	-	-	-
20	86	105	127	154	185	-	-	-	-
30	86	105	127	153	184	219	260	-	-
40	-	102	124	151	182	217	258	-	-
50	-	-	-	146	177	213	255	-	-
60	-	-	-	-	169	207	249	-	-
68	-	-	-	-	-	-	243	-	-
Coefficient of performance (C.O.P.)									
16	4.00	4.81	5.71	6.63	-	-	-	-	-
20	3.39	4.12	4.93	5.80	6.68	-	-	-	-
30	2.45	3.00	3.64	4.35	5.11	5.91	6.69	-	-
40	-	2.25	2.74	3.30	3.93	4.60	5.29	-	-
50	-	-	-	2.45	2.93	3.46	4.02	-	-
60	-	-	-	-	2.10	2.49	2.91	-	-
68	-	-	-	-	-	-	2.18	-	-

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

Cooling capacity	5 578	W
Power input	2 359	W
Current consumption	3.70	A
Mass flow	122	kg/h
C.O.P.	2.36	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

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

Tolerance according EN12900

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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	2 767	3 475	4 332	5 348	6 532	-	-	-	-
30	2 556	3 221	4 027	4 983	6 101	7 389	-	-	-
40	2 275	2 881	3 617	4 493	5 521	6 709	8 069	-	-
50	-	2 521	3 181	3 971	4 901	5 983	7 225	-	-
60	-	-	2 725	3 421	4 248	5 216	6 335	-	-
70	-	-	-	2 851	3 568	4 415	5 404	-	-
73	-	-	-	2 677	3 359	4 169	5 117	-	-
Power input in W									
22	818	824	831	841	855	-	-	-	-
30	971	983	993	1 002	1 014	1 030	-	-	-
40	1 180	1 203	1 220	1 234	1 246	1 259	1 275	-	-
50	-	1 461	1 489	1 511	1 528	1 542	1 556	-	-
60	-	-	1 815	1 849	1 875	1 895	1 911	-	-
70	-	-	-	2 264	2 303	2 333	2 355	-	-
73	-	-	-	2 406	2 450	2 483	2 508	-	-
Current consumption in A									
22	1.57	1.59	1.60	1.62	1.64	-	-	-	-
30	1.87	1.89	1.91	1.93	1.95	1.98	-	-	-
40	2.27	2.32	2.35	2.37	2.40	2.42	2.45	-	-
50	-	2.81	2.87	2.91	2.94	2.97	2.99	-	-
60	-	-	3.49	3.56	3.61	3.65	3.68	-	-
70	-	-	-	4.36	4.43	4.49	4.53	-	-
73	-	-	-	4.63	4.71	4.78	4.83	-	-
Mass flow in kg/h									
22	61	75	92	110	132	-	-	-	-
30	59	74	91	110	131	156	-	-	-
40	57	72	89	108	130	155	182	-	-
50	-	69	86	106	128	153	180	-	-
60	-	-	84	103	125	150	177	-	-
70	-	-	-	100	122	146	174	-	-
73	-	-	-	100	121	145	173	-	-
Coefficient of performance (C.O.P.)									
22	3.38	4.22	5.21	6.36	7.64	-	-	-	-
30	2.63	3.28	4.06	4.97	6.02	7.18	-	-	-
40	1.93	2.39	2.96	3.64	4.43	5.33	6.33	-	-
50	-	1.73	2.14	2.63	3.21	3.88	4.64	-	-
60	-	-	1.50	1.85	2.27	2.75	3.31	-	-
70	-	-	-	1.26	1.55	1.89	2.29	-	-
73	-	-	-	1.11	1.37	1.68	2.04	-	-

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

Cooling capacity	2 703	W
Power input	1 326	W
Current consumption	2.55	A
Mass flow	71	kg/h
C.O.P.	2.04	

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	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 accoustic hood	59	dB(A)

Tolerance according EN12900

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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	2 811	3 516	4 366	5 371	6 543	-	-	-	-
30	-	3 281	4 079	5 022	6 121	7 389	-	-	-
40	-	-	3 691	4 551	5 554	6 709	8 031	-	-
50	-	-	3 278	4 048	4 946	5 983	7 168	-	-
60	-	-	-	3 517	4 305	5 216	-	-	-
70	-	-	-	-	3 637	4 415	-	-	-
73	-	-	-	-	3 432	4 169	-	-	-
Power input in W									
22	818	824	831	841	855	-	-	-	-
30	-	983	993	1 002	1 014	1 030	-	-	-
40	-	-	1 220	1 234	1 246	1 259	1 275	-	-
50	-	-	1 489	1 511	1 528	1 542	1 556	-	-
60	-	-	-	1 849	1 875	1 895	-	-	-
70	-	-	-	-	2 303	2 333	-	-	-
73	-	-	-	-	2 450	2 483	-	-	-
Current consumption in A									
22	1.57	1.59	1.60	1.62	1.64	-	-	-	-
30	-	1.89	1.91	1.93	1.95	1.98	-	-	-
40	-	-	2.35	2.37	2.40	2.42	2.45	-	-
50	-	-	2.87	2.91	2.94	2.97	2.99	-	-
60	-	-	-	3.56	3.61	3.65	-	-	-
70	-	-	-	-	4.43	4.49	-	-	-
73	-	-	-	-	4.71	4.78	-	-	-
Mass flow in kg/h									
22	55	69	86	105	129	-	-	-	-
30	-	68	85	105	128	156	-	-	-
40	-	-	83	103	127	155	187	-	-
50	-	-	81	101	125	153	185	-	-
60	-	-	-	99	122	150	-	-	-
70	-	-	-	-	119	146	-	-	-
73	-	-	-	-	118	145	-	-	-
Coefficient of performance (C.O.P.)									
22	3.44	4.27	5.25	6.39	7.66	-	-	-	-
30	-	3.34	4.11	5.01	6.04	7.18	-	-	-
40	-	-	3.03	3.69	4.46	5.33	6.30	-	-
50	-	-	2.20	2.68	3.24	3.88	4.61	-	-
60	-	-	-	1.90	2.30	2.75	-	-	-
70	-	-	-	-	1.58	1.89	-	-	-
73	-	-	-	-	1.40	1.68	-	-	-

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.	-	

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 accoustic 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

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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	3 408	4 323	5 386	6 615	8 030	-	-	-	-
30	3 093	3 983	5 006	6 181	7 526	9 063	-	-	-
40	2 690	3 547	4 518	5 622	6 878	8 307	9 927	-	-
50	-	3 073	3 989	5 020	6 185	7 503	8 994	-	-
60	-	-	3 392	4 347	5 418	6 623	7 982	-	-
70	-	-	-	3 577	4 550	5 640	6 865	-	-
73	-	-	-	3 322	4 266	5 320	6 505	-	-
Power input in W									
22	978	1 008	1 029	1 051	1 083	-	-	-	-
30	1 146	1 186	1 210	1 227	1 247	1 282	-	-	-
40	1 378	1 442	1 479	1 501	1 517	1 538	1 574	-	-
50	-	1 726	1 790	1 828	1 852	1 871	1 896	-	-
60	-	-	2 134	2 201	2 244	2 273	2 299	-	-
70	-	-	-	2 612	2 686	2 738	2 776	-	-
73	-	-	-	2 741	2 828	2 888	2 933	-	-
Current consumption in A									
22	1.53	1.58	1.61	1.65	1.70	-	-	-	-
30	1.80	1.86	1.90	1.92	1.96	2.01	-	-	-
40	2.16	2.26	2.32	2.35	2.38	2.41	2.47	-	-
50	-	2.71	2.81	2.87	2.91	2.94	2.97	-	-
60	-	-	3.35	3.45	3.52	3.57	3.61	-	-
70	-	-	-	4.10	4.21	4.30	4.36	-	-
73	-	-	-	4.30	4.44	4.53	4.60	-	-
Mass flow in kg/h									
22	78	94	115	140	169	-	-	-	-
30	77	94	115	139	167	198	-	-	-
40	74	91	113	137	165	195	228	-	-
50	-	86	109	134	162	192	224	-	-
60	-	-	103	130	159	189	222	-	-
70	-	-	-	125	155	187	220	-	-
73	-	-	-	123	154	186	220	-	-
Coefficient of performance (C.O.P.)									
22	3.49	4.29	5.23	6.30	7.41	-	-	-	-
30	2.70	3.36	4.14	5.04	6.03	7.07	-	-	-
40	1.95	2.46	3.05	3.75	4.53	5.40	6.31	-	-
50	-	1.78	2.23	2.75	3.34	4.01	4.74	-	-
60	-	-	1.59	1.98	2.41	2.91	3.47	-	-
70	-	-	-	1.37	1.69	2.06	2.47	-	-
73	-	-	-	1.21	1.51	1.84	2.22	-	-

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

Cooling capacity	3 317	W
Power input	1 581	W
Current consumption	2.48	A
Mass flow	89	kg/h
C.O.P.	2.10	

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	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 accoustic hood	63	dB(A)

Tolerance according EN12900

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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	3 463	4 374	5 427	6 644	8 044	-	-	-	-
30	-	4 057	5 070	6 228	7 552	9 063	-	-	-
40	-	-	4 611	5 694	6 919	8 307	9 881	-	-
50	-	-	4 111	5 117	6 242	7 503	8 922	-	-
60	-	-	-	4 469	5 491	6 623	-	-	-
70	-	-	-	-	4 638	5 640	-	-	-
73	-	-	-	-	4 358	5 320	-	-	-
Power input in W									
22	978	1 008	1 029	1 051	1 083	-	-	-	-
30	-	1 186	1 210	1 227	1 247	1 282	-	-	-
40	-	-	1 479	1 501	1 517	1 538	1 574	-	-
50	-	-	1 790	1 828	1 852	1 871	1 896	-	-
60	-	-	-	2 201	2 244	2 273	-	-	-
70	-	-	-	-	2 686	2 738	-	-	-
73	-	-	-	-	2 828	2 888	-	-	-
Current consumption in A									
22	1.53	1.58	1.61	1.65	1.70	-	-	-	-
30	-	1.86	1.90	1.92	1.96	2.01	-	-	-
40	-	-	2.32	2.35	2.38	2.41	2.47	-	-
50	-	-	2.81	2.87	2.91	2.94	2.97	-	-
60	-	-	-	3.45	3.52	3.57	-	-	-
70	-	-	-	-	4.21	4.30	-	-	-
73	-	-	-	-	4.44	4.53	-	-	-
Mass flow in kg/h									
22	70	87	108	134	165	-	-	-	-
30	-	86	107	133	163	198	-	-	-
40	-	-	105	131	161	195	234	-	-
50	-	-	102	128	158	192	230	-	-
60	-	-	-	124	155	189	-	-	-
70	-	-	-	-	152	187	-	-	-
73	-	-	-	-	151	186	-	-	-
Coefficient of performance (C.O.P.)									
22	3.54	4.34	5.27	6.32	7.43	-	-	-	-
30	-	3.42	4.19	5.08	6.05	7.07	-	-	-
40	-	-	3.12	3.79	4.56	5.40	6.28	-	-
50	-	-	2.30	2.80	3.37	4.01	4.71	-	-
60	-	-	-	2.03	2.45	2.91	-	-	-
70	-	-	-	-	1.73	2.06	-	-	-
73	-	-	-	-	1.54	1.84	-	-	-

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.	-	

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 accoustic 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

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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	3 186	3 958	4 879	5 970	7 252	-	-	-	-
20	2 899	3 622	4 468	5 457	6 613	7 955	9 506	-	-
30	2 569	3 238	4 004	4 889	5 913	7 098	8 467	10 039	11 835
40	-	2 795	3 477	4 251	5 139	6 163	7 345	8 704	10 264
50	-	-	2 872	3 532	4 280	5 138	6 127	7 270	8 588
60	-	-	-	-	3 321	4 008	4 802	5 725	6 798
Power input in W									
10	1 088	1 043	1 019	1 016	1 033	-	-	-	-
20	1 320	1 295	1 283	1 283	1 294	1 317	1 352	-	-
30	1 602	1 601	1 604	1 609	1 617	1 628	1 642	1 658	1 676
40	-	1 986	2 006	2 020	2 028	2 030	2 025	2 014	1 996
50	-	-	2 517	2 542	2 552	2 548	2 528	2 492	2 442
60	-	-	-	-	3 217	3 208	3 175	3 119	3 038
Current consumption in A									
10	2.24	2.15	2.10	2.09	2.13	-	-	-	-
20	2.72	2.67	2.65	2.65	2.67	2.72	2.79	-	-
30	3.30	3.30	3.31	3.32	3.33	3.36	3.38	3.42	3.46
40	-	4.10	4.14	4.17	4.18	4.18	4.18	4.15	4.12
50	-	-	5.19	5.24	5.26	5.25	5.21	5.14	5.03
60	-	-	-	-	6.63	6.61	6.55	6.43	6.26
Mass flow in kg/h									
10	58	77	98	122	149	-	-	-	-
20	61	79	99	122	150	181	218	-	-
30	62	79	98	121	148	179	216	259	309
40	-	77	96	118	144	175	212	255	304
50	-	-	91	113	138	169	206	248	298
60	-	-	-	-	131	161	197	240	290
Coefficient of performance (C.O.P.)									
10	2.93	3.79	4.79	5.88	7.02	-	-	-	-
20	2.20	2.80	3.48	4.25	5.11	6.04	7.03	-	-
30	1.60	2.02	2.50	3.04	3.66	4.36	5.16	6.06	7.06
40	-	1.41	1.73	2.10	2.53	3.04	3.63	4.32	5.14
50	-	-	1.14	1.39	1.68	2.02	2.42	2.92	3.52
60	-	-	-	-	1.03	1.25	1.51	1.84	2.24

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

Cooling capacity	4 721	W
Power input	2 274	W
Current consumption	4.69	A
Mass flow	141	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	67	dB(A)
With accoustic 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

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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	3 061	3 831	4 754	5 855	7 155	-	-	-	-
20	2 726	3 439	4 283	5 280	6 453	7 825	9 416	-	-
30	2 350	3 002	3 760	4 649	5 690	6 909	8 326	9 963	11 835
40	1 924	2 508	3 175	3 950	4 855	5 915	7 154	8 597	10 264
50	-	-	2 519	3 173	3 936	4 832	5 887	7 131	8 588
60	-	-	-	-	2 922	3 647	4 513	5 551	6 798
Power input in W									
10	1 088	1 043	1 019	1 016	1 033	-	-	-	-
20	1 320	1 295	1 283	1 283	1 294	1 317	1 352	-	-
30	1 602	1 601	1 604	1 609	1 617	1 628	1 642	1 658	1 676
40	1 961	1 986	2 006	2 020	2 028	2 030	2 025	2 014	1 996
50	-	-	2 517	2 542	2 552	2 548	2 528	2 492	2 442
60	-	-	-	-	3 217	3 208	3 175	3 119	3 038
Current consumption in A									
10	2.24	2.15	2.10	2.09	2.13	-	-	-	-
20	2.72	2.67	2.65	2.65	2.67	2.72	2.79	-	-
30	3.30	3.30	3.31	3.32	3.33	3.36	3.38	3.42	3.46
40	4.04	4.10	4.14	4.17	4.18	4.18	4.18	4.15	4.12
50	-	-	5.19	5.24	5.26	5.25	5.21	5.14	5.03
60	-	-	-	-	6.63	6.61	6.55	6.43	6.26
Mass flow in kg/h									
10	69	90	112	137	165	-	-	-	-
20	73	92	114	138	165	196	231	-	-
30	74	92	113	136	163	194	229	267	309
40	73	90	110	133	159	189	224	262	304
50	-	-	105	127	153	183	217	256	298
60	-	-	-	-	145	174	208	247	290
Coefficient of performance (C.O.P.)									
10	2.81	3.67	4.66	5.76	6.93	-	-	-	-
20	2.07	2.66	3.34	4.12	4.99	5.94	6.97	-	-
30	1.47	1.87	2.34	2.89	3.52	4.24	5.07	6.01	7.06
40	0.98	1.26	1.58	1.96	2.39	2.91	3.53	4.27	5.14
50	-	-	1.00	1.25	1.54	1.90	2.33	2.86	3.52
60	-	-	-	-	0.91	1.14	1.42	1.78	2.24

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

Cooling capacity	4 406	W
Power input	2 274	W
Current consumption	4.69	A
Mass flow	156	kg/h
C.O.P.	1.94	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings

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

Sound power data

Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

Tolerance according EN12900

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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	3 935	4 935	6 115	7 489	9 072	-	-	-	-
20	3 570	4 478	5 543	6 778	8 199	9 819	11 653	-	-
30	3 169	3 987	4 937	6 035	7 294	8 729	10 355	12 185	14 234
40	-	3 444	4 281	5 241	6 339	7 590	9 009	10 610	12 406
50	-	-	3 556	4 379	5 318	6 386	7 598	8 969	10 514
60	-	-	-	-	4 213	5 098	6 105	7 249	8 544
Power input in W									
10	1 097	1 210	1 260	1 266	1 249	-	-	-	-
20	1 351	1 494	1 568	1 592	1 588	1 576	1 577	-	-
30	1 674	1 842	1 935	1 973	1 977	1 967	1 964	1 988	2 061
40	-	2 294	2 402	2 449	2 457	2 444	2 433	2 443	2 495
50	-	-	3 008	3 061	3 067	3 048	3 024	3 015	3 043
60	-	-	-	-	3 848	3 817	3 776	3 745	3 744
Current consumption in A									
10	1.72	1.90	1.98	1.99	1.96	-	-	-	-
20	2.12	2.34	2.46	2.50	2.49	2.47	2.47	-	-
30	2.63	2.89	3.04	3.10	3.10	3.09	3.08	3.12	3.23
40	-	3.60	3.77	3.84	3.85	3.84	3.82	3.83	3.92
50	-	-	4.72	4.80	4.81	4.78	4.74	4.73	4.77
60	-	-	-	-	6.04	5.99	5.92	5.87	5.87
Mass flow in kg/h									
10	67	94	122	153	188	-	-	-	-
20	72	97	123	152	185	224	270	-	-
30	73	97	123	150	182	219	263	316	379
40	-	94	119	146	178	214	257	309	371
50	-	-	113	140	172	208	251	303	365
60	-	-	-	-	164	201	245	298	360
Coefficient of performance (C.O.P.)									
10	3.59	4.08	4.86	5.92	7.26	-	-	-	-
20	2.64	3.00	3.54	4.26	5.16	6.23	7.39	-	-
30	1.89	2.16	2.55	3.06	3.69	4.44	5.27	6.13	6.91
40	-	1.50	1.78	2.14	2.58	3.11	3.70	4.34	4.97
50	-	-	1.18	1.43	1.73	2.10	2.51	2.97	3.46
60	-	-	-	-	1.09	1.34	1.62	1.94	2.28

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

Cooling capacity	5 838	W
Power input	2 743	W
Current consumption	4.30	A
Mass flow	175	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	71	dB(A)
With accoustic 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

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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	3 781	4 776	5 959	7 345	8 950	-	-	-	-
20	3 357	4 253	5 314	6 558	8 001	9 658	11 542	-	-
30	2 899	3 696	4 636	5 738	7 019	8 496	10 183	12 094	14 234
40	2 394	3 090	3 909	4 869	5 988	7 284	8 775	10 479	12 406
50	-	-	3 120	3 935	4 890	6 005	7 301	8 797	10 514
60	-	-	-	-	3 707	4 638	5 737	7 029	8 544
Power input in W									
10	1 097	1 210	1 260	1 266	1 249	-	-	-	-
20	1 351	1 494	1 568	1 592	1 588	1 576	1 577	-	-
30	1 674	1 842	1 935	1 973	1 977	1 967	1 964	1 988	2 061
40	2 104	2 294	2 402	2 449	2 457	2 444	2 433	2 443	2 495
50	-	-	3 008	3 061	3 067	3 048	3 024	3 015	3 043
60	-	-	-	-	3 848	3 817	3 776	3 745	3 744
Current consumption in A									
10	1.72	1.90	1.98	1.99	1.96	-	-	-	-
20	2.12	2.34	2.46	2.50	2.49	2.47	2.47	-	-
30	2.63	2.89	3.04	3.10	3.10	3.09	3.08	3.12	3.23
40	3.30	3.60	3.77	3.84	3.85	3.84	3.82	3.83	3.92
50	-	-	4.72	4.80	4.81	4.78	4.74	4.73	4.77
60	-	-	-	-	6.04	5.99	5.92	5.87	5.87
Mass flow in kg/h									
10	79	110	140	172	207	-	-	-	-
20	85	114	142	172	204	242	285	-	-
30	87	114	141	169	201	237	278	325	379
40	83	110	137	165	196	231	272	318	371
50	-	-	129	158	189	225	266	312	365
60	-	-	-	-	181	217	259	306	360
Coefficient of performance (C.O.P.)									
10	3.45	3.95	4.73	5.80	7.17	-	-	-	-
20	2.48	2.85	3.39	4.12	5.04	6.13	7.32	-	-
30	1.73	2.01	2.40	2.91	3.55	4.32	5.18	6.08	6.91
40	1.14	1.35	1.63	1.99	2.44	2.98	3.61	4.29	4.97
50	-	-	1.04	1.29	1.59	1.97	2.41	2.92	3.46
60	-	-	-	-	0.96	1.22	1.52	1.88	2.28

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

Cooling capacity	5 448	W
Power input	2 743	W
Current consumption	4.30	A
Mass flow	193	kg/h
C.O.P.	1.99	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings

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

Sound power data

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

Tolerance according EN12900

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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	3 189	4 028	5 034	6 228	-	-	-	-	-
20	2 834	3 626	4 571	5 690	7 003	8 532	-	-	-
30	2 451	3 187	4 062	5 095	6 308	7 723	9 358	11 237	-
40	2 047	2 717	3 511	4 449	5 553	6 842	8 339	10 064	-
45	-	2 472	3 222	4 109	5 154	6 377	7 801	9 445	-
50	-	-	2 925	3 758	4 742	5 897	7 245	8 806	-
55	-	-	-	3 398	4 318	5 402	6 672	8 147	-
60	-	-	-	-	3 882	4 894	6 082	7 470	-
Power input in W									
10	1 062	1 090	1 114	1 133	-	-	-	-	-
20	1 237	1 269	1 298	1 323	1 342	1 355	-	-	-
30	1 490	1 524	1 557	1 586	1 611	1 631	1 644	1 650	-
40	1 862	1 897	1 932	1 964	1 993	2 018	2 038	2 052	-
45	-	2 141	2 176	2 209	2 240	2 267	2 290	2 307	-
50	-	-	2 464	2 498	2 530	2 559	2 584	2 605	-
55	-	-	-	2 837	2 870	2 900	2 927	2 950	-
60	-	-	-	-	3 263	3 295	3 324	3 349	-
Current consumption in A									
10	2.89	2.88	2.87	2.85	-	-	-	-	-
20	3.13	3.14	3.15	3.16	3.17	3.18	-	-	-
30	3.37	3.40	3.43	3.46	3.49	3.52	3.55	3.58	-
40	3.78	3.82	3.87	3.91	3.95	3.99	4.03	4.07	-
45	-	4.14	4.19	4.24	4.28	4.33	4.37	4.42	-
50	-	-	4.62	4.67	4.72	4.76	4.81	4.86	-
55	-	-	-	5.21	5.26	5.31	5.36	5.41	-
60	-	-	-	-	5.95	6.00	6.05	6.10	-
Mass flow in kg/h									
10	62	78	95	116	-	-	-	-	-
20	60	76	94	115	139	167	-	-	-
30	57	73	91	113	137	165	197	233	-
40	53	69	88	109	133	162	194	230	-
45	-	67	85	107	131	159	192	228	-
50	-	-	83	104	129	157	189	225	-
55	-	-	-	101	126	154	186	222	-
60	-	-	-	-	122	150	182	219	-
Coefficient of performance (C.O.P.)									
10	3.00	3.69	4.52	5.50	-	-	-	-	-
20	2.29	2.86	3.52	4.30	5.22	6.30	-	-	-
30	1.65	2.09	2.61	3.21	3.92	4.74	5.69	6.81	-
40	1.10	1.43	1.82	2.27	2.79	3.39	4.09	4.90	-
45	-	1.15	1.48	1.86	2.30	2.81	3.41	4.09	-
50	-	-	1.19	1.50	1.87	2.30	2.80	3.38	-
55	-	-	-	1.20	1.50	1.86	2.28	2.76	-
60	-	-	-	-	1.19	1.49	1.83	2.23	-

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

Cooling capacity	4 109	W
Power input	2 209	W
Current consumption	4.24	A
Mass flow	107	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 accoustic 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	3 386	4 273	5 336	6 596	-	-	-	-	-
20	3 031	3 875	4 880	6 068	7 460	9 080	-	-	-
30	2 647	3 437	4 375	5 480	6 777	8 286	10 030	12 031	-
40	2 238	2 966	3 826	4 840	6 031	7 421	9 031	10 885	-
45	-	2 719	3 537	4 502	5 637	6 964	8 504	10 281	-
50	-	-	3 240	4 154	5 230	6 492	7 961	9 660	-
55	-	-	-	3 796	4 813	6 008	7 404	9 023	-
60	-	-	-	-	-	5 513	6 835	8 375	-
Power input in W									
10	1 062	1 090	1 114	1 133	-	-	-	-	-
20	1 237	1 269	1 298	1 323	1 342	1 355	-	-	-
30	1 490	1 524	1 557	1 586	1 611	1 631	1 644	1 650	-
40	1 862	1 897	1 932	1 964	1 993	2 018	2 038	2 052	-
45	-	2 141	2 176	2 209	2 240	2 267	2 290	2 307	-
50	-	-	2 464	2 498	2 530	2 559	2 584	2 605	-
55	-	-	-	2 837	2 870	2 900	2 927	2 950	-
60	-	-	-	-	-	3 295	3 324	3 349	-
Current consumption in A									
10	2.89	2.88	2.87	2.85	-	-	-	-	-
20	3.13	3.14	3.15	3.16	3.17	3.18	-	-	-
30	3.37	3.40	3.43	3.46	3.49	3.52	3.55	3.58	-
40	3.78	3.82	3.87	3.91	3.95	3.99	4.03	4.07	-
45	-	4.14	4.19	4.24	4.28	4.33	4.37	4.42	-
50	-	-	4.62	4.67	4.72	4.76	4.81	4.86	-
55	-	-	-	5.21	5.26	5.31	5.36	5.41	-
60	-	-	-	-	-	6.00	6.05	6.10	-
Mass flow in kg/h									
10	62	77	95	116	-	-	-	-	-
20	60	75	93	114	138	166	-	-	-
30	57	73	91	112	136	164	196	232	-
40	53	69	87	108	133	161	193	229	-
45	-	67	85	106	130	158	190	227	-
50	-	-	82	103	128	156	188	224	-
55	-	-	-	100	125	153	185	221	-
60	-	-	-	-	-	149	181	218	-
Coefficient of performance (C.O.P.)									
10	3.19	3.92	4.79	5.82	-	-	-	-	-
20	2.45	3.05	3.76	4.59	5.56	6.70	-	-	-
30	1.78	2.26	2.81	3.46	4.21	5.08	6.10	7.29	-
40	1.20	1.56	1.98	2.46	3.03	3.68	4.43	5.30	-
45	-	1.27	1.63	2.04	2.52	3.07	3.71	4.46	-
50	-	-	1.31	1.66	2.07	2.54	3.08	3.71	-
55	-	-	-	1.34	1.68	2.07	2.53	3.06	-
60	-	-	-	-	-	1.67	2.06	2.50	-

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

Cooling capacity	4 502	W
Power input	2 209	W
Current consumption	4.24	A
Mass flow	106	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	67	dB(A)
With accoustic 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	4 001	5 049	6 305	7 797	-	-	-	-	-
20	3 557	4 544	5 721	7 114	8 749	10 652	-	-	-
30	3 082	3 997	5 082	6 365	7 872	9 627	11 658	13 990	-
40	2 583	3 414	4 397	5 559	6 925	8 521	10 374	12 510	-
45	-	3 112	4 039	5 136	6 427	7 940	9 700	11 733	-
50	-	-	3 672	4 701	5 915	7 341	9 005	10 933	-
55	-	-	-	4 255	5 389	6 726	8 290	10 109	-
60	-	-	-	-	4 850	6 094	7 557	9 265	-
Power input in W									
10	1 273	1 300	1 326	1 347	-	-	-	-	-
20	1 493	1 519	1 548	1 577	1 603	1 622	-	-	-
30	1 810	1 827	1 853	1 885	1 918	1 949	1 974	1 990	-
40	2 288	2 290	2 306	2 332	2 365	2 401	2 437	2 469	-
45	-	2 599	2 607	2 628	2 659	2 695	2 733	2 770	-
50	-	-	2 969	2 984	3 010	3 044	3 084	3 124	-
55	-	-	-	3 406	3 426	3 457	3 496	3 538	-
60	-	-	-	-	3 916	3 942	3 978	4 020	-
Current consumption in A									
10	2.97	2.96	2.95	2.94	-	-	-	-	-
20	3.12	3.14	3.16	3.17	3.18	3.20	-	-	-
30	3.34	3.38	3.41	3.45	3.47	3.50	3.53	3.57	-
40	3.75	3.81	3.85	3.90	3.94	3.97	4.01	4.05	-
45	-	4.14	4.19	4.23	4.27	4.31	4.35	4.39	-
50	-	-	4.61	4.66	4.70	4.74	4.77	4.81	-
55	-	-	-	5.19	5.23	5.27	5.30	5.34	-
60	-	-	-	-	5.89	5.92	5.95	5.98	-
Mass flow in kg/h									
10	78	97	120	146	-	-	-	-	-
20	75	95	118	144	174	209	-	-	-
30	72	92	114	141	171	206	245	291	-
40	67	87	110	136	166	201	241	286	-
45	-	84	107	133	164	198	238	283	-
50	-	-	104	130	160	195	235	280	-
55	-	-	-	126	157	191	231	276	-
60	-	-	-	-	153	187	227	272	-
Coefficient of performance (C.O.P.)									
10	3.14	3.88	4.76	5.79	-	-	-	-	-
20	2.38	2.99	3.70	4.51	5.46	6.57	-	-	-
30	1.70	2.19	2.74	3.38	4.11	4.94	5.91	7.03	-
40	1.13	1.49	1.91	2.38	2.93	3.55	4.26	5.07	-
45	-	1.20	1.55	1.95	2.42	2.95	3.55	4.24	-
50	-	-	1.24	1.58	1.97	2.41	2.92	3.50	-
55	-	-	-	1.25	1.57	1.95	2.37	2.86	-
60	-	-	-	-	1.24	1.55	1.90	2.30	-

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

Cooling capacity	5 136	W
Power input	2 628	W
Current consumption	4.23	A
Mass flow	133	kg/h
C.O.P.	1.95	

Pressure switch settings

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

Sound power data

Sound power level	71	dB(A)
With accoustic 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	4 249	5 357	6 684	8 257	-	-	-	-	-
20	3 806	4 856	6 107	7 585	9 319	11 336	-	-	-
30	3 329	4 310	5 474	6 846	8 456	10 330	12 495	14 978	-
40	2 825	3 726	4 791	6 047	7 521	9 242	11 236	13 531	-
45	-	3 422	4 434	5 627	7 030	8 670	10 575	12 772	-
50	-	-	4 067	5 195	6 524	8 082	9 895	11 993	-
55	-	-	-	4 753	6 006	7 479	9 200	11 196	-
60	-	-	-	-	-	6 865	8 492	10 387	-
Power input in W									
10	1 273	1 300	1 326	1 347	-	-	-	-	-
20	1 493	1 519	1 548	1 577	1 603	1 622	-	-	-
30	1 810	1 827	1 853	1 885	1 918	1 949	1 974	1 990	-
40	2 288	2 290	2 306	2 332	2 365	2 401	2 437	2 469	-
45	-	2 599	2 607	2 628	2 659	2 695	2 733	2 770	-
50	-	-	2 969	2 984	3 010	3 044	3 084	3 124	-
55	-	-	-	3 406	3 426	3 457	3 496	3 538	-
60	-	-	-	-	-	3 942	3 978	4 020	-
Current consumption in A									
10	2.97	2.96	2.95	2.94	-	-	-	-	-
20	3.12	3.14	3.16	3.17	3.18	3.20	-	-	-
30	3.34	3.38	3.41	3.45	3.47	3.50	3.53	3.57	-
40	3.75	3.81	3.85	3.90	3.94	3.97	4.01	4.05	-
45	-	4.14	4.19	4.23	4.27	4.31	4.35	4.39	-
50	-	-	4.61	4.66	4.70	4.74	4.77	4.81	-
55	-	-	-	5.19	5.23	5.27	5.30	5.34	-
60	-	-	-	-	-	5.92	5.95	5.98	-
Mass flow in kg/h									
10	78	97	119	145	-	-	-	-	-
20	75	94	117	143	173	207	-	-	-
30	72	91	114	140	170	204	244	289	-
40	67	87	109	135	165	200	240	284	-
45	-	84	106	133	163	197	237	282	-
50	-	-	103	129	159	194	233	278	-
55	-	-	-	126	156	190	230	274	-
60	-	-	-	-	-	186	225	270	-
Coefficient of performance (C.O.P.)									
10	3.34	4.12	5.04	6.13	-	-	-	-	-
20	2.55	3.20	3.94	4.81	5.81	6.99	-	-	-
30	1.84	2.36	2.95	3.63	4.41	5.30	6.33	7.53	-
40	1.23	1.63	2.08	2.59	3.18	3.85	4.61	5.48	-
45	-	1.32	1.70	2.14	2.64	3.22	3.87	4.61	-
50	-	-	1.37	1.74	2.17	2.65	3.21	3.84	-
55	-	-	-	1.40	1.75	2.16	2.63	3.16	-
60	-	-	-	-	-	1.74	2.13	2.58	-

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

Cooling capacity	5 627	W
Power input	2 628	W
Current consumption	4.23	A
Mass flow	133	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	71	dB(A)
With accoustic 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, Superheat = 10 K

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	-	2 456	3 155	4 002	5 015	6 212	7 610	9 228	11 082
35	-	2 299	2 963	3 766	4 725	5 859	7 184	8 720	10 482
40	-	2 129	2 758	3 517	4 424	5 495	6 749	8 202	9 873
45	-	-	2 539	3 255	4 109	5 118	6 300	7 673	9 254
50	-	-	-	2 976	3 778	4 726	5 837	7 129	8 619
55	-	-	-	-	3 429	4 316	5 356	6 568	7 968
60	-	-	-	-	-	3 885	4 855	5 986	7 295
65	-	-	-	-	-	-	4 329	5 379	6 598
Power input in W									
30	-	1 519	1 509	1 504	1 498	1 489	1 471	1 441	1 395
35	-	1 726	1 710	1 701	1 693	1 682	1 665	1 637	1 594
40	-	1 957	1 936	1 923	1 914	1 903	1 886	1 860	1 821
45	-	-	2 191	2 175	2 164	2 153	2 138	2 115	2 080
50	-	-	-	2 459	2 447	2 437	2 424	2 404	2 374
55	-	-	-	-	2 768	2 758	2 748	2 732	2 707
60	-	-	-	-	-	3 121	3 114	3 103	3 084
65	-	-	-	-	-	-	3 526	3 520	3 507
Current consumption in A									
30	-	3.40	3.45	3.48	3.49	3.49	3.49	3.48	3.47
35	-	3.55	3.60	3.63	3.65	3.66	3.66	3.67	3.68
40	-	3.76	3.80	3.82	3.83	3.84	3.86	3.87	3.90
45	-	-	4.05	4.06	4.06	4.07	4.08	4.10	4.14
50	-	-	-	4.37	4.36	4.35	4.35	4.37	4.41
55	-	-	-	-	4.72	4.70	4.69	4.69	4.72
60	-	-	-	-	-	5.12	5.09	5.08	5.10
65	-	-	-	-	-	-	5.58	5.54	5.54
Mass flow in kg/h									
30	-	55	69	87	107	130	157	187	222
35	-	54	69	85	105	128	155	185	219
40	-	53	67	84	104	127	153	183	216
45	-	-	66	82	102	124	150	180	213
50	-	-	-	80	99	122	147	177	210
55	-	-	-	-	96	118	144	173	206
60	-	-	-	-	-	115	140	169	202
65	-	-	-	-	-	-	135	164	196
Coefficient of performance (C.O.P.)									
30	-	1.62	2.09	2.66	3.35	4.17	5.17	6.40	7.95
35	-	1.33	1.73	2.21	2.79	3.48	4.31	5.33	6.58
40	-	1.09	1.42	1.83	2.31	2.89	3.58	4.41	5.42
45	-	-	1.16	1.50	1.90	2.38	2.95	3.63	4.45
50	-	-	-	1.21	1.54	1.94	2.41	2.97	3.63
55	-	-	-	-	1.24	1.56	1.95	2.40	2.94
60	-	-	-	-	-	1.24	1.56	1.93	2.37
65	-	-	-	-	-	-	1.23	1.53	1.88

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

Cooling capacity	4 109	W
Power input	2 164	W
Current consumption	4.06	A
Mass flow	102	kg/h
C.O.P.	1.90	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic 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

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Performance data at 50 Hz, R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Power input in W									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Current consumption in A									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °C

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

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	-	2 930	3 763	4 774	5 982	7 410	9 077	11 006	13 217
35	-	2 744	3 535	4 493	5 638	6 991	8 572	10 404	12 506
40	-	2 543	3 293	4 199	5 281	6 559	8 056	9 791	11 786
45	-	-	3 034	3 888	4 907	6 113	7 525	9 164	11 052
50	-	-	-	3 557	4 515	5 648	6 975	8 519	10 300
55	-	-	-	-	4 100	5 160	6 404	7 853	9 527
60	-	-	-	-	-	4 647	5 807	7 161	8 728
65	-	-	-	-	-	-	5 181	6 439	7 898
Power input in W									
30	-	1 924	1 913	1 906	1 898	1 885	1 862	1 825	1 769
35	-	2 165	2 149	2 139	2 129	2 116	2 094	2 059	2 006
40	-	2 429	2 409	2 395	2 384	2 371	2 350	2 318	2 270
45	-	-	2 695	2 679	2 667	2 654	2 636	2 607	2 564
50	-	-	-	2 995	2 983	2 972	2 956	2 932	2 894
55	-	-	-	-	3 336	3 327	3 314	3 295	3 264
60	-	-	-	-	-	3 724	3 716	3 702	3 677
65	-	-	-	-	-	-	4 164	4 156	4 140
Current consumption in A									
30	-	2.58	2.54	2.59	2.69	2.82	2.93	3.00	2.98
35	-	3.25	3.15	3.13	3.18	3.26	3.33	3.37	3.33
40	-	3.72	3.56	3.50	3.51	3.55	3.60	3.61	3.55
45	-	-	3.86	3.77	3.75	3.77	3.80	3.80	3.75
50	-	-	-	4.03	3.99	4.00	4.03	4.03	3.99
55	-	-	-	-	4.32	4.33	4.36	4.39	4.36
60	-	-	-	-	-	4.84	4.89	4.95	4.96
65	-	-	-	-	-	-	5.70	5.79	5.85
Mass flow in kg/h									
30	-	66	83	103	127	155	187	223	264
35	-	65	82	102	126	153	185	221	261
40	-	63	80	100	124	151	182	218	258
45	-	-	78	98	122	149	180	215	255
50	-	-	-	95	119	145	176	211	251
55	-	-	-	-	115	142	172	207	247
60	-	-	-	-	-	137	167	202	241
65	-	-	-	-	-	-	162	196	235
Coefficient of performance (C.O.P.)									
30	-	1.52	1.97	2.50	3.15	3.93	4.87	6.03	7.47
35	-	1.27	1.64	2.10	2.65	3.30	4.09	5.05	6.23
40	-	1.05	1.37	1.75	2.21	2.77	3.43	4.22	5.19
45	-	-	1.13	1.45	1.84	2.30	2.85	3.51	4.31
50	-	-	-	1.19	1.51	1.90	2.36	2.91	3.56
55	-	-	-	-	1.23	1.55	1.93	2.38	2.92
60	-	-	-	-	-	1.25	1.56	1.93	2.37
65	-	-	-	-	-	-	1.24	1.55	1.91

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

Cooling capacity	4 907	W
Power input	2 667	W
Current consumption	3.75	A
Mass flow	122	kg/h
C.O.P.	1.84	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic 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

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Performance data at 60 Hz, R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Power input in W									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Current consumption in A									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °C

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

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = °C , Subcooling = 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	3 746	4 300	5 360	6 611	-	-	-	-	-
20	3 367	3 892	4 893	6 072	7 449	9 047	-	-	-
30	2 952	3 442	4 375	5 470	6 750	8 236	9 950	11 913	-
40	2 507	2 956	3 809	4 811	5 983	7 347	8 925	10 738	-
45	-	-	3 511	4 462	5 576	6 876	8 381	10 115	-
50	-	-	-	4 100	5 154	6 386	7 817	9 470	-
55	-	-	-	-	4 718	5 880	7 234	8 802	-
60	-	-	-	-	-	-	-	-	-
Power input in W									
10	1 153	1 163	1 183	1 214	-	-	-	-	-
20	1 339	1 351	1 368	1 388	1 418	1 465	-	-	-
30	1 613	1 632	1 655	1 673	1 692	1 721	1 766	1 834	-
40	2 001	2 033	2 070	2 094	2 112	2 132	2 159	2 202	-
45	-	-	2 334	2 365	2 386	2 403	2 425	2 458	-
50	-	-	-	2 680	2 705	2 723	2 742	2 768	-
55	-	-	-	-	3 074	3 096	3 113	3 133	-
60	-	-	-	-	-	-	-	-	-
Current consumption in A									
10	3.08	3.07	3.05	3.02	-	-	-	-	-
20	3.35	3.35	3.36	3.36	3.36	3.36	-	-	-
30	3.62	3.64	3.67	3.69	3.71	3.73	3.76	3.78	-
40	4.07	4.10	4.14	4.18	4.22	4.25	4.29	4.33	-
45	-	-	4.50	4.54	4.58	4.62	4.66	4.71	-
50	-	-	-	5.00	5.05	5.09	5.13	5.18	-
55	-	-	-	-	5.64	5.68	5.73	5.78	-
60	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
10	65	75	92	112	-	-	-	-	-
20	63	73	90	111	134	161	-	-	-
30	61	70	88	108	132	159	189	224	-
40	57	66	84	104	128	155	186	221	-
45	-	-	82	102	126	153	184	218	-
50	-	-	-	99	123	150	181	216	-
55	-	-	-	-	120	147	178	213	-
60	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
10	3.25	3.70	4.53	5.44	-	-	-	-	-
20	2.51	2.88	3.58	4.37	5.25	6.17	-	-	-
30	1.83	2.11	2.64	3.27	3.99	4.79	5.63	6.50	-
40	1.25	1.45	1.84	2.30	2.83	3.45	4.13	4.88	-
45	-	-	1.50	1.89	2.34	2.86	3.46	4.11	-
50	-	-	-	1.53	1.91	2.34	2.85	3.42	-
55	-	-	-	-	1.53	1.90	2.32	2.81	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 462	W
Power input	2 365	W
Current consumption	4.54	A
Mass flow	102	kg/h
C.O.P.	1.89	

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 accoustic 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	3 959	4 542	5 658	6 974	-	-	-	-	-
20	3 580	4 136	5 196	6 442	7 897	9 583	-	-	-
30	3 163	3 685	4 679	5 845	7 206	8 785	10 604	12 685	-
40	-	3 196	4 113	5 189	6 446	7 907	9 595	11 533	-
45	-	-	3 814	4 841	6 042	7 441	9 061	10 923	-
50	-	-	-	4 481	5 624	6 959	8 508	10 293	-
55	-	-	-	-	-	6 463	7 940	9 647	-
60	-	-	-	-	-	-	-	-	-
Power input in W									
10	1 153	1 163	1 183	1 214	-	-	-	-	-
20	1 339	1 351	1 368	1 388	1 418	1 465	-	-	-
30	1 613	1 632	1 655	1 673	1 692	1 721	1 766	1 834	-
40	-	2 033	2 070	2 094	2 112	2 132	2 159	2 202	-
45	-	-	2 334	2 365	2 386	2 403	2 425	2 458	-
50	-	-	-	2 680	2 705	2 723	2 742	2 768	-
55	-	-	-	-	-	3 096	3 113	3 133	-
60	-	-	-	-	-	-	-	-	-
Current consumption in A									
10	3.08	3.07	3.05	3.02	-	-	-	-	-
20	3.35	3.35	3.36	3.36	3.36	3.36	-	-	-
30	3.62	3.64	3.67	3.69	3.71	3.73	3.76	3.78	-
40	-	4.10	4.14	4.18	4.22	4.25	4.29	4.33	-
45	-	-	4.50	4.54	4.58	4.62	4.66	4.71	-
50	-	-	-	5.00	5.05	5.09	5.13	5.18	-
55	-	-	-	-	-	5.68	5.73	5.78	-
60	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
10	65	74	91	111	-	-	-	-	-
20	63	72	90	110	133	160	-	-	-
30	60	70	87	108	131	158	188	223	-
40	-	66	84	104	127	154	185	219	-
45	-	-	81	102	125	152	182	217	-
50	-	-	-	99	122	149	180	214	-
55	-	-	-	-	-	146	177	211	-
60	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
10	3.43	3.91	4.78	5.74	-	-	-	-	-
20	2.67	3.06	3.80	4.64	5.57	6.54	-	-	-
30	1.96	2.26	2.83	3.49	4.26	5.10	6.00	6.92	-
40	-	1.57	1.99	2.48	3.05	3.71	4.44	5.24	-
45	-	-	1.63	2.05	2.53	3.10	3.74	4.44	-
50	-	-	-	1.67	2.08	2.56	3.10	3.72	-
55	-	-	-	-	-	2.09	2.55	3.08	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 841	W
Power input	2 365	W
Current consumption	4.54	A
Mass flow	102	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	67	dB(A)
With accoustic 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	4 698	5 388	6 711	8 272	-	-	-	-	-
20	4 223	4 876	6 122	7 589	9 302	11 289	-	-	-
30	3 707	4 316	5 473	6 833	8 421	10 264	12 389	14 823	-
40	3 156	3 713	4 770	6 010	7 461	9 149	11 100	13 341	-
45	-	-	4 400	5 576	6 954	8 559	10 418	12 559	-
50	-	-	-	5 128	6 429	7 949	9 714	11 751	-
55	-	-	-	-	5 888	7 319	8 986	10 917	-
60	-	-	-	-	-	-	-	-	-
Power input in W									
10	1 370	1 383	1 410	1 445	-	-	-	-	-
20	1 605	1 615	1 636	1 663	1 699	1 744	-	-	-
30	1 947	1 956	1 973	1 995	2 024	2 060	2 106	2 163	-
40	2 447	2 455	2 471	2 490	2 514	2 544	2 583	2 630	-
45	-	-	2 796	2 814	2 837	2 865	2 900	2 944	-
50	-	-	-	3 198	3 220	3 246	3 279	3 320	-
55	-	-	-	-	3 669	3 695	3 726	3 764	-
60	-	-	-	-	-	-	-	-	-
Current consumption in A									
10	3.16	3.15	3.14	3.12	-	-	-	-	-
20	3.35	3.36	3.37	3.37	3.38	3.39	-	-	-
30	3.60	3.62	3.65	3.68	3.70	3.72	3.75	3.78	-
40	4.06	4.09	4.13	4.17	4.20	4.23	4.27	4.30	-
45	-	-	4.49	4.53	4.57	4.60	4.63	4.67	-
50	-	-	-	4.99	5.03	5.06	5.10	5.13	-
55	-	-	-	-	5.61	5.64	5.67	5.70	-
60	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
10	82	93	115	140	-	-	-	-	-
20	80	91	113	138	167	200	-	-	-
30	76	88	110	135	164	198	236	279	-
40	72	83	105	131	160	193	231	274	-
45	-	-	102	128	157	190	228	271	-
50	-	-	-	124	153	187	225	268	-
55	-	-	-	-	150	183	221	264	-
60	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
10	3.43	3.90	4.76	5.73	-	-	-	-	-
20	2.63	3.02	3.74	4.56	5.48	6.47	-	-	-
30	1.90	2.21	2.77	3.42	4.16	4.98	5.88	6.85	-
40	1.29	1.51	1.93	2.41	2.97	3.60	4.30	5.07	-
45	-	-	1.57	1.98	2.45	2.99	3.59	4.27	-
50	-	-	-	1.60	2.00	2.45	2.96	3.54	-
55	-	-	-	-	1.60	1.98	2.41	2.90	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	5 576	W
Power input	2 814	W
Current consumption	4.53	A
Mass flow	128	kg/h
C.O.P.	1.98	

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 accoustic 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	4 965	5 692	7 084	8 727	-	-	-	-	-
20	4 490	5 182	6 501	8 051	9 861	11 959	-	-	-
30	3 971	4 621	5 854	7 301	8 990	10 948	13 203	15 784	-
40	-	4 015	5 151	6 483	8 038	9 846	11 933	14 329	-
45	-	-	4 780	6 050	7 535	9 263	11 263	13 562	-
50	-	-	-	5 604	7 016	8 662	10 572	12 773	-
55	-	-	-	-	-	8 045	9 863	11 965	-
60	-	-	-	-	-	-	-	-	-
Power input in W									
10	1 370	1 383	1 410	1 445	-	-	-	-	-
20	1 605	1 615	1 636	1 663	1 699	1 744	-	-	-
30	1 947	1 956	1 973	1 995	2 024	2 060	2 106	2 163	-
40	-	2 455	2 471	2 490	2 514	2 544	2 583	2 630	-
45	-	-	2 796	2 814	2 837	2 865	2 900	2 944	-
50	-	-	-	3 198	3 220	3 246	3 279	3 320	-
55	-	-	-	-	-	3 695	3 726	3 764	-
60	-	-	-	-	-	-	-	-	-
Current consumption in A									
10	3.16	3.15	3.14	3.12	-	-	-	-	-
20	3.35	3.36	3.37	3.37	3.38	3.39	-	-	-
30	3.60	3.62	3.65	3.68	3.70	3.72	3.75	3.78	-
40	-	4.09	4.13	4.17	4.20	4.23	4.27	4.30	-
45	-	-	4.49	4.53	4.57	4.60	4.63	4.67	-
50	-	-	-	4.99	5.03	5.06	5.10	5.13	-
55	-	-	-	-	-	5.64	5.67	5.70	-
60	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
10	82	93	114	139	-	-	-	-	-
20	79	91	112	137	166	199	-	-	-
30	76	87	109	134	163	196	234	277	-
40	-	83	105	130	159	192	230	272	-
45	-	-	102	127	156	189	227	269	-
50	-	-	-	124	152	186	223	266	-
55	-	-	-	-	-	182	219	262	-
60	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
10	3.62	4.12	5.02	6.04	-	-	-	-	-
20	2.80	3.21	3.97	4.84	5.81	6.86	-	-	-
30	2.04	2.36	2.97	3.66	4.44	5.31	6.27	7.30	-
40	-	1.64	2.08	2.60	3.20	3.87	4.62	5.45	-
45	-	-	1.71	2.15	2.66	3.23	3.88	4.61	-
50	-	-	-	1.75	2.18	2.67	3.22	3.85	-
55	-	-	-	-	-	2.18	2.65	3.18	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	6 050	W
Power input	2 814	W
Current consumption	4.53	A
Mass flow	127	kg/h
C.O.P.	2.15	

Pressure switch settings

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

Sound power data

Sound power level	71	dB(A)
With accoustic 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	2 705	3 415	4 269	5 286	6 489	-	-	-	-
20	2 413	3 094	3 902	4 856	5 978	7 290	8 811	-	-
30	-	-	3 485	4 363	5 393	6 594	7 989	9 598	11 441
40	-	-	-	3 823	4 746	5 824	7 078	8 530	10 200
50	-	-	-	-	4 051	4 993	6 094	7 376	8 859
60	-	-	-	-	-	-	5 051	6 149	7 431
Power input in W									
10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	-	-	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	-	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	-	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	-	-	3 244	3 220	3 208
Current consumption in A									
10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	-	-	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	-	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	-	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	-	-	5.55	5.54	5.54
Mass flow in kg/h									
10	44	56	70	87	108	-	-	-	-
20	42	55	69	86	107	131	160	-	-
30	-	-	67	84	104	128	157	191	230
40	-	-	-	80	100	124	153	186	226
50	-	-	-	-	95	119	147	180	219
60	-	-	-	-	-	-	140	172	210
Coefficient of performance (C.O.P.)									
10	2.85	3.52	4.32	5.27	6.39	-	-	-	-
20	2.03	2.57	3.19	3.91	4.74	5.69	6.80	-	-
30	-	-	2.27	2.82	3.45	4.17	4.99	5.92	6.97
40	-	-	-	1.94	2.41	2.95	3.56	4.25	5.03
50	-	-	-	-	1.59	1.98	2.42	2.92	3.50
60	-	-	-	-	-	-	1.56	1.91	2.32

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

Cooling capacity	4 403	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	98	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 accoustic hood	dB(A)

Tolerance according EN12900

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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	2 716	3 432	4 293	5 319	6 530	-	-	-	-
20	2 392	3 074	3 885	4 846	5 977	7 298	8 828	-	-
30	2 047	2 682	3 429	4 311	5 348	6 561	7 970	9 592	11 441
40	-	-	2 940	3 729	4 658	5 750	7 024	8 502	10 200
50	-	-	-	3 115	3 923	4 879	6 006	7 326	8 859
60	-	-	-	-	3 157	3 963	4 928	6 076	7 431
Power input in W									
10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	1 529	1 528	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	1 977	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	2 568	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	3 332	3 281	3 244	3 220	3 208
Current consumption in A									
10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	3.34	3.37	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	3.86	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	4.57	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	5.56	5.56	5.55	5.54	5.54
Mass flow in kg/h									
10	52	65	80	98	118	-	-	-	-
20	50	63	79	96	117	141	168	-	-
30	47	61	76	94	114	138	165	196	230
40	-	-	72	90	110	134	161	191	226
50	-	-	-	85	105	128	155	185	219
60	-	-	-	-	98	120	147	177	210
Coefficient of performance (C.O.P.)									
10	2.86	3.54	4.35	5.30	6.44	-	-	-	-
20	2.01	2.55	3.18	3.90	4.74	5.70	6.81	-	-
30	1.34	1.76	2.24	2.79	3.42	4.15	4.98	5.91	6.97
40	-	-	1.49	1.89	2.36	2.91	3.53	4.23	5.03
50	-	-	-	1.21	1.54	1.93	2.38	2.90	3.50
60	-	-	-	-	0.95	1.21	1.52	1.89	2.32

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

Cooling capacity	4 295	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	108	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 accoustic hood	dB(A)

Tolerance according EN12900

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Performance data at 60 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	3 140	3 983	5 004	6 227	7 678	-	-	-	-
20	2 851	3 660	4 624	5 770	7 122	8 707	10 549	-	-
30	-	-	4 196	5 247	6 484	7 930	9 613	11 558	13 790
40	-	-	-	4 676	5 779	7 071	8 578	10 325	12 338
50	-	-	-	-	5 025	6 145	7 459	8 992	10 768
60	-	-	-	-	-	-	6 274	7 575	9 098
Power input in W									
10	1 107	1 137	1 166	1 196	1 229	-	-	-	-
20	1 386	1 421	1 452	1 480	1 509	1 540	1 577	-	-
30	-	-	1 819	1 846	1 871	1 895	1 922	1 954	1 992
40	-	-	-	2 319	2 340	2 358	2 376	2 395	2 417
50	-	-	-	-	2 943	2 955	2 963	2 970	2 978
60	-	-	-	-	-	-	3 709	3 705	3 698
Current consumption in A									
10	2.63	2.65	2.68	2.72	2.76	-	-	-	-
20	2.99	2.97	2.98	3.01	3.05	3.10	3.13	-	-
30	-	-	3.36	3.37	3.39	3.43	3.47	3.51	3.53
40	-	-	-	3.87	3.87	3.89	3.93	3.96	4.00
50	-	-	-	-	4.58	4.57	4.58	4.61	4.64
60	-	-	-	-	-	-	5.53	5.53	5.55
Mass flow in kg/h									
10	51	65	83	103	128	-	-	-	-
20	50	64	82	102	127	156	191	-	-
30	-	-	80	101	125	154	189	230	278
40	-	-	-	98	122	151	185	226	273
50	-	-	-	-	118	146	180	220	266
60	-	-	-	-	-	-	173	212	258
Coefficient of performance (C.O.P.)									
10	2.84	3.50	4.29	5.21	6.25	-	-	-	-
20	2.06	2.57	3.19	3.90	4.72	5.65	6.69	-	-
30	-	-	2.31	2.84	3.47	4.18	5.00	5.92	6.92
40	-	-	-	2.02	2.47	3.00	3.61	4.31	5.10
50	-	-	-	-	1.71	2.08	2.52	3.03	3.62
60	-	-	-	-	-	-	1.69	2.04	2.46

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

Cooling capacity	5 407	W
Power input	2 623	W
Current consumption	4.19	A
Mass flow	120	kg/h
C.O.P.	2.06	

Pressure switch settings

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

Sound power data

Sound power level	dB(A)
With accoustic 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

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Performance data at 60 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	3 153	4 003	5 032	6 265	7 728	-	-	-	-
20	2 826	3 636	4 605	5 758	7 121	8 717	10 569	-	-
30	2 485	3 238	4 129	5 184	6 429	7 890	9 591	11 552	13 790
40	-	-	3 621	4 561	5 672	6 981	8 512	10 291	12 338
50	-	-	-	3 905	4 865	6 005	7 351	8 930	10 768
60	-	-	-	-	4 025	4 979	6 122	7 485	9 098
Power input in W									
10	1 107	1 137	1 166	1 196	1 229	-	-	-	-
20	1 386	1 421	1 452	1 480	1 509	1 540	1 577	-	-
30	1 746	1 786	1 819	1 846	1 871	1 895	1 922	1 954	1 992
40	-	-	2 292	2 319	2 340	2 358	2 376	2 395	2 417
50	-	-	-	2 924	2 943	2 955	2 963	2 970	2 978
60	-	-	-	-	3 703	3 710	3 709	3 705	3 698
Current consumption in A									
10	2.63	2.65	2.68	2.72	2.76	-	-	-	-
20	2.99	2.97	2.98	3.01	3.05	3.10	3.13	-	-
30	3.45	3.39	3.36	3.37	3.39	3.43	3.47	3.51	3.53
40	-	-	3.91	3.87	3.87	3.89	3.93	3.96	4.00
50	-	-	-	4.63	4.58	4.57	4.58	4.61	4.64
60	-	-	-	-	5.62	5.56	5.53	5.53	5.55
Mass flow in kg/h									
10	60	76	94	115	140	-	-	-	-
20	59	75	93	114	139	168	201	-	-
30	58	73	91	113	137	166	199	236	278
40	-	-	89	110	134	162	195	232	273
50	-	-	-	106	130	157	189	226	266
60	-	-	-	-	124	151	182	218	258
Coefficient of performance (C.O.P.)									
10	2.85	3.52	4.32	5.24	6.29	-	-	-	-
20	2.04	2.56	3.17	3.89	4.72	5.66	6.70	-	-
30	1.42	1.81	2.27	2.81	3.44	4.16	4.99	5.91	6.92
40	-	-	1.58	1.97	2.42	2.96	3.58	4.30	5.10
50	-	-	-	1.34	1.65	2.03	2.48	3.01	3.62
60	-	-	-	-	1.09	1.34	1.65	2.02	2.46

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

Cooling capacity	5 274	W
Power input	2 623	W
Current consumption	4.19	A
Mass flow	132	kg/h
C.O.P.	2.01	

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 accoustic hood	dB(A)

Tolerance according EN12900

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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	2 705	3 415	4 269	5 286	6 489	-	-	-	-
20	2 413	3 094	3 902	4 856	5 978	7 290	8 811	-	-
30	-	-	3 485	4 363	5 393	6 594	7 989	9 598	11 441
40	-	-	-	3 823	4 746	5 824	7 078	8 530	10 200
50	-	-	-	-	4 051	4 993	6 094	7 376	8 859
60	-	-	-	-	-	-	5 051	6 149	7 431
Power input in W									
10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	-	-	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	-	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	-	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	-	-	3 244	3 220	3 208
Current consumption in A									
10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	-	-	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	-	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	-	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	-	-	5.55	5.54	5.54
Mass flow in kg/h									
10	44	56	70	87	108	-	-	-	-
20	42	55	69	86	107	131	160	-	-
30	-	-	67	84	104	128	157	191	230
40	-	-	-	80	100	124	153	186	226
50	-	-	-	-	95	119	147	180	219
60	-	-	-	-	-	-	140	172	210
Coefficient of performance (C.O.P.)									
10	2.85	3.52	4.32	5.27	6.39	-	-	-	-
20	2.03	2.57	3.19	3.91	4.74	5.69	6.80	-	-
30	-	-	2.27	2.82	3.45	4.17	4.99	5.92	6.97
40	-	-	-	1.94	2.41	2.95	3.56	4.25	5.03
50	-	-	-	-	1.59	1.98	2.42	2.92	3.50
60	-	-	-	-	-	-	1.56	1.91	2.32

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

Cooling capacity	4 403	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	98	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 accoustic hood	dB(A)

Tolerance according EN12900

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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	2 710	3 426	4 286	5 312	6 524	-	-	-	-
20	2 386	3 068	3 878	4 839	5 970	7 292	8 823	-	-
30	2 041	2 675	3 422	4 303	5 341	6 555	7 965	9 589	11 441
40	-	-	2 932	3 721	4 650	5 743	7 019	8 499	10 200
50	-	-	-	3 107	3 915	4 872	6 000	7 322	8 859
60	-	-	-	-	3 149	3 956	4 922	6 073	7 431
Power input in W									
10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	1 529	1 528	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	1 977	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	2 568	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	3 332	3 281	3 244	3 220	3 208
Current consumption in A									
10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	3.34	3.37	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	3.86	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	4.57	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	5.56	5.56	5.55	5.54	5.54
Mass flow in kg/h									
10	52	65	80	98	118	-	-	-	-
20	50	63	79	96	117	141	168	-	-
30	47	61	76	94	114	138	165	196	230
40	-	-	72	90	110	134	161	191	226
50	-	-	-	85	105	128	155	185	219
60	-	-	-	-	98	120	147	177	210
Coefficient of performance (C.O.P.)									
10	2.85	3.53	4.34	5.30	6.43	-	-	-	-
20	2.01	2.55	3.17	3.90	4.73	5.70	6.81	-	-
30	1.33	1.75	2.23	2.78	3.42	4.15	4.97	5.91	6.97
40	-	-	1.48	1.89	2.36	2.90	3.53	4.23	5.03
50	-	-	-	1.21	1.54	1.93	2.38	2.90	3.50
60	-	-	-	-	0.95	1.21	1.52	1.89	2.32

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

Cooling capacity	4 287	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	108	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 accoustic hood	dB(A)

Tolerance according EN12900

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Performance data at 60 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	3 140	3 983	5 004	6 227	7 678	-	-	-	-
20	2 851	3 660	4 624	5 770	7 122	8 707	10 549	-	-
30	-	-	4 196	5 247	6 484	7 930	9 613	11 558	13 790
40	-	-	-	4 676	5 779	7 071	8 578	10 325	12 338
50	-	-	-	-	5 025	6 145	7 459	8 992	10 768
60	-	-	-	-	-	-	6 274	7 575	9 098
Power input in W									
10	1 107	1 137	1 166	1 196	1 229	-	-	-	-
20	1 386	1 421	1 452	1 480	1 509	1 540	1 577	-	-
30	-	-	1 819	1 846	1 871	1 895	1 922	1 954	1 992
40	-	-	-	2 319	2 340	2 358	2 376	2 395	2 417
50	-	-	-	-	2 943	2 955	2 963	2 970	2 978
60	-	-	-	-	-	-	3 709	3 705	3 698
Current consumption in A									
10	2.63	2.65	2.68	2.72	2.76	-	-	-	-
20	2.99	2.97	2.98	3.01	3.05	3.10	3.13	-	-
30	-	-	3.36	3.37	3.39	3.43	3.47	3.51	3.53
40	-	-	-	3.87	3.87	3.89	3.93	3.96	4.00
50	-	-	-	-	4.58	4.57	4.58	4.61	4.64
60	-	-	-	-	-	-	5.53	5.53	5.55
Mass flow in kg/h									
10	52	67	84	105	130	-	-	-	-
20	51	66	83	104	129	159	194	-	-
30	-	-	82	102	127	157	193	234	283
40	-	-	-	100	125	154	189	230	278
50	-	-	-	-	121	149	184	224	272
60	-	-	-	-	-	-	177	217	263
Coefficient of performance (C.O.P.)									
10	2.84	3.50	4.29	5.21	6.25	-	-	-	-
20	2.06	2.57	3.19	3.90	4.72	5.65	6.69	-	-
30	-	-	2.31	2.84	3.47	4.18	5.00	5.92	6.92
40	-	-	-	2.02	2.47	3.00	3.61	4.31	5.10
50	-	-	-	-	1.71	2.08	2.52	3.03	3.62
60	-	-	-	-	-	-	1.69	2.04	2.46

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

Cooling capacity	5 407	W
Power input	2 623	W
Current consumption	4.19	A
Mass flow	123	kg/h
C.O.P.	2.06	

Pressure switch settings

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

Sound power data

Sound power level	dB(A)
With accoustic 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

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Performance data at 60 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	3 146	3 995	5 024	6 258	7 721	-	-	-	-
20	2 819	3 628	4 597	5 750	7 113	8 710	10 563	-	-
30	2 477	3 230	4 120	5 175	6 421	7 883	9 585	11 548	13 790
40	-	-	3 611	4 551	5 663	6 972	8 506	10 287	12 338
50	-	-	-	3 895	4 856	5 996	7 344	8 926	10 768
60	-	-	-	-	4 015	4 970	6 115	7 481	9 098
Power input in W									
10	1 107	1 137	1 166	1 196	1 229	-	-	-	-
20	1 386	1 421	1 452	1 480	1 509	1 540	1 577	-	-
30	1 746	1 786	1 819	1 846	1 871	1 895	1 922	1 954	1 992
40	-	-	2 292	2 319	2 340	2 358	2 376	2 395	2 417
50	-	-	-	2 924	2 943	2 955	2 963	2 970	2 978
60	-	-	-	-	3 703	3 710	3 709	3 705	3 698
Current consumption in A									
10	2.63	2.65	2.68	2.72	2.76	-	-	-	-
20	2.99	2.97	2.98	3.01	3.05	3.10	3.13	-	-
30	3.45	3.39	3.36	3.37	3.39	3.43	3.47	3.51	3.53
40	-	-	3.91	3.87	3.87	3.89	3.93	3.96	4.00
50	-	-	-	4.63	4.58	4.57	4.58	4.61	4.64
60	-	-	-	-	5.62	5.56	5.53	5.53	5.55
Mass flow in kg/h									
10	61	77	96	117	142	-	-	-	-
20	60	76	95	116	142	171	205	-	-
30	59	75	93	115	140	169	202	240	283
40	-	-	91	112	137	166	199	236	278
50	-	-	-	108	132	161	193	230	272
60	-	-	-	-	127	154	186	223	263
Coefficient of performance (C.O.P.)									
10	2.84	3.51	4.31	5.23	6.28	-	-	-	-
20	2.03	2.55	3.17	3.88	4.71	5.65	6.70	-	-
30	1.42	1.81	2.27	2.80	3.43	4.16	4.99	5.91	6.92
40	-	-	1.58	1.96	2.42	2.96	3.58	4.30	5.10
50	-	-	-	1.33	1.65	2.03	2.48	3.01	3.62
60	-	-	-	-	1.08	1.34	1.65	2.02	2.46

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

Cooling capacity	5 264	W
Power input	2 623	W
Current consumption	4.19	A
Mass flow	135	kg/h
C.O.P.	2.01	

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 accoustic hood	dB(A)

Tolerance according EN12900

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

R452A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
10	2 999	3 746	4 648	5 726	6 995	-	-	-	-
20	2 661	3 365	4 206	5 200	6 366	7 722	9 286	-	-
30	-	2 976	3 741	4 640	5 690	6 909	8 316	9 928	11 765
40	-	-	3 255	4 045	4 966	6 036	7 273	8 695	10 321
50	-	-	-	-	4 194	5 103	6 157	7 376	8 778
60	-	-	-	-	-	4 108	4 967	5 971	7 137
Power input in W									
10	1 030	1 044	1 052	1 059	1 068	-	-	-	-
20	1 257	1 282	1 296	1 304	1 309	1 314	1 321	-	-
30	-	1 578	1 604	1 618	1 625	1 626	1 626	1 627	1 634
40	-	-	1 991	2 017	2 030	2 033	2 031	2 025	2 019
50	-	-	-	-	2 540	2 551	2 551	2 543	2 531
60	-	-	-	-	-	3 193	3 202	3 197	3 183
Current consumption in A									
10	3.11	3.13	3.14	3.15	3.16	-	-	-	-
20	3.32	3.35	3.36	3.37	3.38	3.38	3.39	-	-
30	-	3.64	3.67	3.68	3.69	3.69	3.69	3.69	3.70
40	-	-	4.09	4.12	4.14	4.14	4.14	4.13	4.13
50	-	-	-	-	4.75	4.77	4.78	4.77	4.76
60	-	-	-	-	-	5.61	5.63	5.64	5.63
Mass flow in kg/h									
10	60	76	95	118	145	-	-	-	-
20	58	75	94	116	143	175	212	-	-
30	-	72	91	113	140	172	209	253	304
40	-	-	88	110	136	168	205	248	299
50	-	-	-	-	132	163	199	242	293
60	-	-	-	-	-	156	193	235	285
Coefficient of performance (C.O.P.)									
10	2.91	3.59	4.42	5.40	6.55	-	-	-	-
20	2.12	2.63	3.24	3.99	4.86	5.88	7.03	-	-
30	-	1.89	2.33	2.87	3.50	4.25	5.11	6.10	7.20
40	-	-	1.63	2.01	2.45	2.97	3.58	4.29	5.11
50	-	-	-	-	1.65	2.00	2.41	2.90	3.47
60	-	-	-	-	-	1.29	1.55	1.87	2.24

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

Cooling capacity	4 586	W
Power input	2 271	W
Current consumption	4.42	A
Mass flow	134	kg/h
C.O.P.	2.02	

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 accoustic hood	dB(A)

Tolerance according EN12900

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

R452A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
10	2 902	3 646	4 551	5 637	6 921	-	-	-	-
20	2 525	3 221	4 059	5 057	6 237	7 617	9 214	-	-
30	2 154	2 788	3 545	4 445	5 507	6 753	8 200	9 867	11 765
40	1 787	2 347	3 011	3 798	4 730	5 828	7 114	8 605	10 321
50	-	-	2 454	3 117	3 906	4 844	5 954	7 258	8 778
60	-	-	-	-	3 031	3 796	4 717	5 821	7 137
Power input in W									
10	1 030	1 044	1 052	1 059	1 068	-	-	-	-
20	1 257	1 282	1 296	1 304	1 309	1 314	1 321	-	-
30	1 538	1 578	1 604	1 618	1 625	1 626	1 626	1 627	1 634
40	1 886	1 948	1 991	2 017	2 030	2 033	2 031	2 025	2 019
50	-	-	2 471	2 514	2 540	2 551	2 551	2 543	2 531
60	-	-	-	-	3 169	3 193	3 202	3 197	3 183
Current consumption in A									
10	3.11	3.13	3.14	3.15	3.16	-	-	-	-
20	3.32	3.35	3.36	3.37	3.38	3.38	3.39	-	-
30	3.59	3.64	3.67	3.68	3.69	3.69	3.69	3.69	3.70
40	3.96	4.04	4.09	4.12	4.14	4.14	4.14	4.13	4.13
50	-	-	4.66	4.72	4.75	4.77	4.78	4.77	4.76
60	-	-	-	-	5.57	5.61	5.63	5.64	5.63
Mass flow in kg/h									
10	72	89	109	132	159	-	-	-	-
20	69	87	107	130	157	188	224	-	-
30	67	84	104	127	154	185	220	260	304
40	64	81	101	124	150	181	216	255	299
50	-	-	96	119	145	175	210	249	293
60	-	-	-	-	139	169	203	242	285
Coefficient of performance (C.O.P.)									
10	2.82	3.49	4.32	5.32	6.48	-	-	-	-
20	2.01	2.51	3.13	3.88	4.77	5.80	6.97	-	-
30	1.40	1.77	2.21	2.75	3.39	4.15	5.04	6.06	7.20
40	0.95	1.20	1.51	1.88	2.33	2.87	3.50	4.25	5.11
50	-	-	0.99	1.24	1.54	1.90	2.33	2.85	3.47
60	-	-	-	-	0.96	1.19	1.47	1.82	2.24

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

Cooling capacity	4 324	W
Power input	2 271	W
Current consumption	4.42	A
Mass flow	148	kg/h
C.O.P.	1.90	

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 accoustic hood	dB(A)

Tolerance according EN12900

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

R452A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
10	3 645	4 525	5 585	6 847	8 333	-	-	-	-
20	3 246	4 087	5 087	6 267	7 650	9 255	11 103	-	-
30	-	3 617	4 536	5 614	6 872	8 331	10 013	11 937	14 125
40	-	-	3 939	4 893	6 006	7 298	8 792	10 507	12 466
50	-	-	-	-	5 059	6 164	7 448	8 934	10 641
60	-	-	-	-	-	4 934	5 989	7 223	8 660
Power input in W									
10	1 269	1 303	1 332	1 356	1 371	-	-	-	-
20	1 518	1 555	1 589	1 619	1 643	1 661	1 670	-	-
30	-	1 892	1 925	1 955	1 983	2 005	2 021	2 028	2 027
40	-	-	2 376	2 401	2 425	2 446	2 463	2 473	2 476
50	-	-	-	-	3 007	3 021	3 032	3 039	3 041
60	-	-	-	-	-	3 766	3 765	3 763	3 758
Current consumption in A									
10	2.90	2.91	2.93	2.96	2.99	-	-	-	-
20	3.20	3.21	3.23	3.26	3.28	3.30	3.33	-	-
30	-	3.55	3.58	3.61	3.64	3.66	3.67	3.68	3.68
40	-	-	4.03	4.07	4.11	4.13	4.15	4.15	4.14
50	-	-	-	-	4.74	4.78	4.80	4.81	4.80
60	-	-	-	-	-	5.65	5.68	5.70	5.70
Mass flow in kg/h									
10	73	92	115	141	172	-	-	-	-
20	71	91	113	140	171	209	254	-	-
30	-	88	111	137	169	207	252	304	365
40	-	-	107	133	165	203	248	300	361
50	-	-	-	-	159	197	241	294	355
60	-	-	-	-	-	188	232	284	345
Coefficient of performance (C.O.P.)									
10	2.87	3.47	4.19	5.05	6.08	-	-	-	-
20	2.14	2.63	3.20	3.87	4.65	5.57	6.65	-	-
30	-	1.91	2.36	2.87	3.47	4.16	4.96	5.89	6.97
40	-	-	1.66	2.04	2.48	2.98	3.57	4.25	5.03
50	-	-	-	-	1.68	2.04	2.46	2.94	3.50
60	-	-	-	-	-	1.31	1.59	1.92	2.30

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

Cooling capacity	5 542	W
Power input	2 697	W
Current consumption	4.40	A
Mass flow	162	kg/h
C.O.P.	2.06	

Pressure switch settings

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

Sound power data

Sound power level	dB(A)
With accoustic 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

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

R452A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
10	3 528	4 405	5 468	6 741	8 245	-	-	-	-
20	3 081	3 911	4 909	6 096	7 495	9 129	11 018	-	-
30	2 626	3 389	4 298	5 377	6 651	8 143	9 873	11 863	14 125
40	2 172	2 845	3 644	4 595	5 721	7 047	8 599	10 399	12 466
50	-	-	2 955	3 755	4 712	5 852	7 202	8 790	10 641
60	-	-	-	-	3 628	4 560	5 687	7 042	8 660
Power input in W									
10	1 269	1 303	1 332	1 356	1 371	-	-	-	-
20	1 518	1 555	1 589	1 619	1 643	1 661	1 670	-	-
30	1 858	1 892	1 925	1 955	1 983	2 005	2 021	2 028	2 027
40	2 326	2 350	2 376	2 401	2 425	2 446	2 463	2 473	2 476
50	-	-	2 978	2 993	3 007	3 021	3 032	3 039	3 041
60	-	-	-	-	3 765	3 766	3 765	3 763	3 758
Current consumption in A									
10	2.90	2.91	2.93	2.96	2.99	-	-	-	-
20	3.20	3.21	3.23	3.26	3.28	3.30	3.33	-	-
30	3.53	3.55	3.58	3.61	3.64	3.66	3.67	3.68	3.68
40	3.94	3.99	4.03	4.07	4.11	4.13	4.15	4.15	4.14
50	-	-	4.63	4.69	4.74	4.78	4.80	4.81	4.80
60	-	-	-	-	5.59	5.65	5.68	5.70	5.70
Mass flow in kg/h									
10	87	108	131	158	190	-	-	-	-
20	85	106	129	157	189	225	267	-	-
30	81	103	126	154	186	223	265	313	365
40	77	98	122	150	182	219	261	309	361
50	-	-	116	143	175	212	254	302	355
60	-	-	-	-	166	203	245	292	345
Coefficient of performance (C.O.P.)									
10	2.78	3.38	4.10	4.97	6.01	-	-	-	-
20	2.03	2.52	3.09	3.77	4.56	5.50	6.60	-	-
30	1.41	1.79	2.23	2.75	3.35	4.06	4.89	5.85	6.97
40	0.93	1.21	1.53	1.91	2.36	2.88	3.49	4.20	5.03
50	-	-	0.99	1.25	1.57	1.94	2.38	2.89	3.50
60	-	-	-	-	0.96	1.21	1.51	1.87	2.30

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

Cooling capacity	5 226	W
Power input	2 697	W
Current consumption	4.40	A
Mass flow	179	kg/h
C.O.P.	1.94	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings

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

Sound power data

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

Tolerance according EN12900

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

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15	18	
Cooling capacity in W									
10	3 431	4 184	5 091	-	-	-	-	-	-
20	3 141	3 855	4 705	5 707	6 874	-	-	-	-
30	2 824	3 491	4 277	5 197	6 266	7 499	-	-	-
40	-	3 095	3 809	4 640	5 604	6 714	7 985	8 831	-
50	-	-	3 305	4 041	4 891	5 871	6 995	7 745	-
60	-	-	-	3 401	4 131	4 973	5 942	6 591	-
70	-	-	-	2 726	3 327	4 024	4 831	5 374	-
73	-	-	-	-	3 078	3 729	4 486	4 997	-
Power input in W									
10	707	713	720	-	-	-	-	-	-
20	866	873	880	889	899	-	-	-	-
30	1 060	1 067	1 075	1 083	1 094	1 106	-	-	-
40	-	1 309	1 317	1 326	1 336	1 348	1 363	1 373	-
50	-	-	1 619	1 628	1 638	1 650	1 665	1 675	-
60	-	-	-	2 003	2 013	2 025	2 039	2 049	-
70	-	-	-	2 465	2 474	2 485	2 498	2 508	-
73	-	-	-	-	2 630	2 641	2 654	2 664	-
Current consumption in A									
10	2.72	2.73	2.73	-	-	-	-	-	-
20	2.82	2.83	2.84	2.85	2.85	-	-	-	-
30	2.96	2.97	2.98	2.99	3.00	3.01	-	-	-
40	-	3.17	3.18	3.20	3.21	3.23	3.24	3.25	-
50	-	-	3.48	3.49	3.51	3.52	3.55	3.56	-
60	-	-	-	3.91	3.92	3.93	3.95	3.97	-
70	-	-	-	4.48	4.48	4.49	4.50	4.52	-
73	-	-	-	-	4.68	4.69	4.70	4.71	-
Mass flow in kg/h									
10	66	81	99	-	-	-	-	-	-
20	65	80	98	120	145	-	-	-	-
30	64	79	98	119	144	174	-	-	-
40	-	78	96	117	143	172	207	230	-
50	-	-	93	115	140	170	205	228	-
60	-	-	-	111	137	166	201	225	-
70	-	-	-	107	132	162	196	220	-
73	-	-	-	-	131	160	195	218	-
Coefficient of performance (C.O.P.)									
10	4.85	5.87	7.07	-	-	-	-	-	-
20	3.63	4.42	5.35	6.42	7.65	-	-	-	-
30	2.67	3.27	3.98	4.80	5.73	6.78	-	-	-
40	-	2.36	2.89	3.50	4.19	4.98	5.86	6.43	-
50	-	-	2.04	2.48	2.99	3.56	4.20	4.62	-
60	-	-	-	1.70	2.05	2.46	2.91	3.22	-
70	-	-	-	1.11	1.34	1.62	1.93	2.14	-
73	-	-	-	-	1.17	1.41	1.69	1.88	-

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

Cooling capacity	2 886	W
Power input	1 452	W
Current consumption	3.31	A
Mass flow	77	kg/h
C.O.P.	1.99	

Pressure switch settings

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

Sound power data

Sound power level	dB(A)
With accoustic 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

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

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15	18	
Cooling capacity in W									
10	3 366	4 125	5 043	-	-	-	-	-	-
20	3 050	3 770	4 632	5 653	6 845	-	-	-	-
30	2 708	3 380	4 179	5 122	6 224	7 499	-	-	-
40	2 343	2 959	3 687	4 545	5 549	6 714	8 053	8 944	-
50	-	2 511	3 160	3 926	4 824	5 871	7 083	7 895	-
60	-	-	2 603	3 267	4 051	4 973	6 051	6 779	-
70	-	-	-	2 574	3 235	4 024	4 960	5 601	-
73	-	-	-	2 359	2 982	3 729	4 622	5 237	-
Power input in W									
10	707	713	720	-	-	-	-	-	-
20	866	873	880	889	899	-	-	-	-
30	1 060	1 067	1 075	1 083	1 094	1 106	-	-	-
40	1 302	1 309	1 317	1 326	1 336	1 348	1 363	1 373	-
50	-	1 612	1 619	1 628	1 638	1 650	1 665	1 675	-
60	-	-	1 995	2 003	2 013	2 025	2 039	2 049	-
70	-	-	-	2 465	2 474	2 485	2 498	2 508	-
73	-	-	-	2 622	2 630	2 641	2 654	2 664	-
Current consumption in A									
10	2.72	2.73	2.73	-	-	-	-	-	-
20	2.82	2.83	2.84	2.85	2.85	-	-	-	-
30	2.96	2.97	2.98	2.99	3.00	3.01	-	-	-
40	3.17	3.17	3.18	3.20	3.21	3.23	3.24	3.25	-
50	-	3.48	3.48	3.49	3.51	3.52	3.55	3.56	-
60	-	-	3.91	3.91	3.92	3.93	3.95	3.97	-
70	-	-	-	4.48	4.48	4.49	4.50	4.52	-
73	-	-	-	4.69	4.68	4.69	4.70	4.71	-
Mass flow in kg/h									
10	73	88	105	-	-	-	-	-	-
20	72	87	105	125	148	-	-	-	-
30	71	86	104	124	147	174	-	-	-
40	69	84	102	122	146	172	202	222	-
50	-	82	99	120	143	170	200	219	-
60	-	-	96	116	140	166	196	216	-
70	-	-	-	112	135	162	192	211	-
73	-	-	-	110	133	160	190	210	-
Coefficient of performance (C.O.P.)									
10	4.76	5.78	7.00	-	-	-	-	-	-
20	3.52	4.32	5.26	6.36	7.62	-	-	-	-
30	2.56	3.17	3.89	4.73	5.69	6.78	-	-	-
40	1.80	2.26	2.80	3.43	4.15	4.98	5.91	6.52	-
50	-	1.56	1.95	2.41	2.94	3.56	4.25	4.71	-
60	-	-	1.30	1.63	2.01	2.46	2.97	3.31	-
70	-	-	-	1.04	1.31	1.62	1.99	2.23	-
73	-	-	-	0.90	1.13	1.41	1.74	1.97	-

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

Cooling capacity	2 738	W
Power input	1 452	W
Current consumption	3.31	A
Mass flow	83	kg/h
C.O.P.	1.89	

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 accoustic 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

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

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15	18	
Cooling capacity in W									
10	4 164	5 098	6 229	-	-	-	-	-	-
20	3 794	4 664	5 709	6 948	8 400	-	-	-	-
30	3 413	4 212	5 164	6 288	7 603	9 126	-	-	-
40	-	3 743	4 595	5 596	6 767	8 124	9 688	10 732	-
50	-	-	4 004	4 876	5 894	7 078	8 447	9 364	-
60	-	-	-	4 129	4 988	5 991	7 157	7 942	-
70	-	-	-	3 357	4 049	4 864	5 820	6 469	-
73	-	-	-	-	3 762	4 519	5 410	6 018	-
Power input in W									
10	858	868	881	-	-	-	-	-	-
20	1 052	1 062	1 073	1 086	1 104	-	-	-	-
30	1 285	1 297	1 309	1 322	1 337	1 356	-	-	-
40	-	1 584	1 599	1 613	1 628	1 646	1 667	1 683	-
50	-	-	1 950	1 969	1 986	2 005	2 025	2 039	-
60	-	-	-	2 398	2 421	2 442	2 464	2 478	-
70	-	-	-	2 910	2 940	2 967	2 993	3 009	-
73	-	-	-	-	3 114	3 143	3 171	3 188	-
Current consumption in A									
10	2.58	2.59	2.61	-	-	-	-	-	-
20	2.69	2.69	2.71	2.73	2.75	-	-	-	-
30	2.86	2.86	2.87	2.89	2.91	2.92	-	-	-
40	-	3.10	3.11	3.13	3.16	3.17	3.16	3.15	-
50	-	-	3.45	3.47	3.50	3.51	3.52	3.51	-
60	-	-	-	3.92	3.95	3.97	3.99	3.99	-
70	-	-	-	4.49	4.52	4.56	4.58	4.59	-
73	-	-	-	-	4.72	4.76	4.79	4.80	-
Mass flow in kg/h									
10	80	98	121	-	-	-	-	-	-
20	79	97	119	146	177	-	-	-	-
30	77	96	118	144	175	211	-	-	-
40	-	94	116	141	172	208	251	280	-
50	-	-	113	139	169	205	247	276	-
60	-	-	-	135	165	200	242	271	-
70	-	-	-	132	161	196	237	265	-
73	-	-	-	-	160	194	235	263	-
Coefficient of performance (C.O.P.)									
10	4.85	5.87	7.07	-	-	-	-	-	-
20	3.61	4.39	5.32	6.40	7.61	-	-	-	-
30	2.66	3.25	3.94	4.76	5.69	6.73	-	-	-
40	-	2.36	2.87	3.47	4.16	4.94	5.81	6.38	-
50	-	-	2.05	2.48	2.97	3.53	4.17	4.59	-
60	-	-	-	1.72	2.06	2.45	2.90	3.20	-
70	-	-	-	1.15	1.38	1.64	1.94	2.15	-
73	-	-	-	-	1.21	1.44	1.71	1.89	-

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

Cooling capacity	3 504	W
Power input	1 749	W
Current consumption	3.26	A
Mass flow	93	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	dB(A)
With accoustic 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

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

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15	18	
Cooling capacity in W									
10	4 085	5 026	6 170	-	-	-	-	-	-
20	3 684	4 561	5 621	6 882	8 364	-	-	-	-
30	3 273	4 078	5 046	6 198	7 552	9 126	-	-	-
40	2 853	3 579	4 448	5 482	6 701	8 124	9 770	10 869	-
50	-	3 066	3 828	4 737	5 813	7 078	8 553	9 545	-
60	-	-	3 189	3 965	4 891	5 991	7 287	8 169	-
70	-	-	-	3 169	3 938	4 864	5 976	6 743	-
73	-	-	-	2 926	3 645	4 519	5 574	6 306	-
Power input in W									
10	858	868	881	-	-	-	-	-	-
20	1 052	1 062	1 073	1 086	1 104	-	-	-	-
30	1 285	1 297	1 309	1 322	1 337	1 356	-	-	-
40	1 566	1 584	1 599	1 613	1 628	1 646	1 667	1 683	-
50	-	1 930	1 950	1 969	1 986	2 005	2 025	2 039	-
60	-	-	2 373	2 398	2 421	2 442	2 464	2 478	-
70	-	-	-	2 910	2 940	2 967	2 993	3 009	-
73	-	-	-	3 081	3 114	3 143	3 171	3 188	-
Current consumption in A									
10	2.58	2.59	2.61	-	-	-	-	-	-
20	2.69	2.69	2.71	2.73	2.75	-	-	-	-
30	2.86	2.86	2.87	2.89	2.91	2.92	-	-	-
40	3.11	3.10	3.11	3.13	3.16	3.17	3.16	3.15	-
50	-	3.44	3.45	3.47	3.50	3.51	3.52	3.51	-
60	-	-	3.89	3.92	3.95	3.97	3.99	3.99	-
70	-	-	-	4.49	4.52	4.56	4.58	4.59	-
73	-	-	-	4.69	4.72	4.76	4.79	4.80	-
Mass flow in kg/h									
10	88	107	128	-	-	-	-	-	-
20	87	106	127	152	181	-	-	-	-
30	85	104	125	150	179	211	-	-	-
40	84	102	123	148	176	208	245	269	-
50	-	100	121	145	173	205	241	265	-
60	-	-	118	141	169	200	236	260	-
70	-	-	-	138	164	196	231	254	-
73	-	-	-	136	163	194	229	253	-
Coefficient of performance (C.O.P.)									
10	4.76	5.79	7.01	-	-	-	-	-	-
20	3.50	4.30	5.24	6.34	7.58	-	-	-	-
30	2.55	3.14	3.85	4.69	5.65	6.73	-	-	-
40	1.82	2.26	2.78	3.40	4.12	4.94	5.86	6.46	-
50	-	1.59	1.96	2.41	2.93	3.53	4.22	4.68	-
60	-	-	1.34	1.65	2.02	2.45	2.96	3.30	-
70	-	-	-	1.09	1.34	1.64	2.00	2.24	-
73	-	-	-	0.95	1.17	1.44	1.76	1.98	-

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

Cooling capacity	3 324	W
Power input	1 749	W
Current consumption	3.26	A
Mass flow	101	kg/h
C.O.P.	1.90	

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 accoustic 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

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