ENGINEERING
TOMORROW

Datasheets

Danfoss Reciprocating compressors
MT / MTZ / NTZ

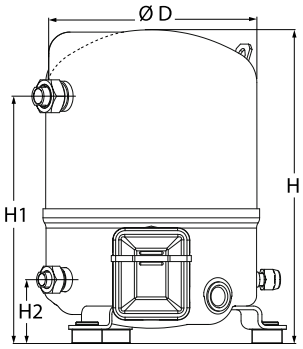
FRCC.UD.180316.103400

www.danfoss.com/odsg

General Characteristics

Model number (on compressor nameplate)		**MTZ22JC5VE**
Code number for Singlepack*		MTZ22-5VI
Code number for Industrial pack**		MTZ22-5VM
Drawing number		8501021e
Suction and discharge connections		Rotolock
Suction connection		1 " Rotolock
Discharge connection		1 " Rotolock
Suction connection with supplied sleeve		1/2 " ODF
Discharge connection with supplied sleeve		3/8 " ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		None
Cylinders	1	
Swept volume	38.12 cm3/rev	
Displacement @ Nominal speed	6.6 m3/h @ 2900 rpm	
Net weight	21 kg	
Oil charge	0.95 litre, POE - 175PZ	
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)	
Maximum differential test pressure	30 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	2.5 kg	
Approved refrigerants	R404A,R134a,R407A/C/F,R448A,R449A,R452A,R513A	

Dimensions

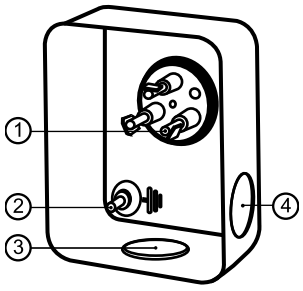


D=224 mm
H=333 mm
H1=263 mm
H2=68 mm
H3=- mm

Electrical Characteristics

Nominal voltage	220-240V/1/50Hz
Voltage range	220-240 V
Winding resistance (main / start) at 25°C	1.35 Ω / 3.83 Ω
Run capacitors A + C	20 µF + 10 µF
Start capacitor B	100 µF
Start relay	RVA-6AMKL
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	41 A
Motor protection	Internal overload protector

Terminal box



IP55 (with cable gland)
1: Spade connectors 1/4"
2: Earth M4-12
3: Knock-out Ø 21 mm (0.83")
4: Hole Ø 21 mm (0.83")

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	2 Nm / 2 Nm
Mounting bolts	15 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

Approvals : CE certified, -, CCC certified
*Singlepack: Compressor in cardboard box
**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Rotolock accessories, suction 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, discharge side	Code no.
Solder sleeve, P01 (1" Rotolock, 3/8" ODF)	8153010
Rotolock valve, V01 (1" Rotolock, 3/8" ODF)	8168027
Gasket, 1"	8156130

Rotolock accessories, sets	Code no.
Valve set, V06 (1"~1/2"), V01 (1"~3/8")	7703004
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

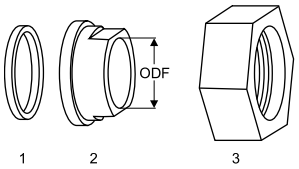
Oil / lubricants	Code no.
POE lubricant, 175PZ, 1 litre can	120Z0638
POE lubricant, 175PZ, 2.5 litre can	120Z0639

Crankcase heaters	Code no.
PTC heater 27W,CE mark, UL	120Z0459
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106

Miscellaneous accessories	Code no.
PSC starting kit, 20 µF, 10 µF	7701026
CSR starting kit, 20 µF, 10 µF, 98 µF	7701022
CSR starting kit, prewired box, 20 µF, 10 µF, 98 µF	7701028
Acoustic hood for 1 cylinder compressor	120Z0575
Oil equalisation nut	8153127

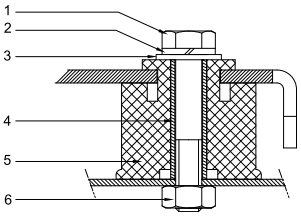
Spare parts	Code no.
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134

Gaskets, sleeves and nuts



1: Gasket
2: Solder sleeve
3: Rotolock nut

Mounting kit



1: Bolt (3x)
2: Lock washer (3x)
3: Flat washer (3x)
4: Sleeve (3x)
5: Grommet (3x)
6: Nut (3x)

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	2 000	2 757	3 672	4 762	6 046	7 543	9 269	-	-
40	1 776	2 482	3 334	4 350	5 548	6 947	8 564	-	-
45	1 559	2 214	3 002	3 943	5 055	6 355	7 862	-	-
50	-	1 955	2 679	3 544	4 568	5 769	7 166	-	-
55	-	-	2 367	3 155	4 091	5 192	6 477	-	-
60	-	-	-	2 779	3 625	4 626	5 798	-	-
65	-	-	-	2 416	3 173	4 072	5 132	-	-
Power input in W									
35	1 054	1 173	1 272	1 351	1 409	1 445	1 458	-	-
40	1 075	1 212	1 331	1 430	1 508	1 565	1 598	-	-
45	1 088	1 246	1 386	1 506	1 606	1 684	1 740	-	-
50	-	1 274	1 436	1 579	1 702	1 804	1 884	-	-
55	-	-	1 483	1 650	1 798	1 925	2 030	-	-
60	-	-	-	1 718	1 892	2 045	2 177	-	-
65	-	-	-	1 784	1 985	2 167	2 327	-	-
Current consumption in A									
35	5.26	5.70	6.08	6.40	6.64	6.79	6.85	-	-
40	5.35	5.84	6.28	6.66	6.97	7.20	7.34	-	-
45	5.44	5.99	6.51	6.96	7.36	7.67	7.90	-	-
50	-	6.14	6.73	7.28	7.76	8.18	8.51	-	-
55	-	-	6.94	7.59	8.18	8.70	9.15	-	-
60	-	-	-	7.88	8.58	9.23	9.80	-	-
65	-	-	-	8.12	8.95	9.73	10.45	-	-
Mass flow in kg/h									
35	43	59	77	98	123	151	184	-	-
40	41	56	73	94	118	146	178	-	-
45	38	52	70	90	114	141	171	-	-
50	-	49	66	86	108	135	165	-	-
55	-	-	62	81	103	129	158	-	-
60	-	-	-	77	98	123	151	-	-
65	-	-	-	72	93	116	144	-	-
Coefficient of performance (C.O.P.)									
35	1.90	2.35	2.89	3.53	4.29	5.22	6.36	-	-
40	1.65	2.05	2.50	3.04	3.68	4.44	5.36	-	-
45	1.43	1.78	2.17	2.62	3.15	3.77	4.52	-	-
50	-	1.53	1.87	2.24	2.68	3.20	3.80	-	-
55	-	-	1.60	1.91	2.28	2.70	3.19	-	-
60	-	-	-	1.62	1.92	2.26	2.66	-	-
65	-	-	-	1.35	1.60	1.88	2.21	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	4 568	W
Power input	1 702	W
Current consumption	7.76	A
Mass flow	108	kg/h
C.O.P.	2.68	

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Pressure switch settings

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	2 153	2 964	3 943	5 108	6 478	8 073	9 911	-	-
40	1 922	2 682	3 598	4 689	5 974	7 471	9 200	-	-
45	1 698	2 407	3 260	4 276	5 473	6 873	8 492	-	-
50	-	2 141	2 930	3 870	4 980	6 280	7 790	-	-
55	-	-	2 610	3 474	4 496	5 697	7 095	-	-
60	-	-	-	3 090	4 024	5 125	6 412	-	-
65	-	-	-	2 723	3 567	4 567	5 743	-	-
Power input in W									
35	1 054	1 173	1 272	1 351	1 409	1 445	1 458	-	-
40	1 075	1 212	1 331	1 430	1 508	1 565	1 598	-	-
45	1 088	1 246	1 386	1 506	1 606	1 684	1 740	-	-
50	-	1 274	1 436	1 579	1 702	1 804	1 884	-	-
55	-	-	1 483	1 650	1 798	1 925	2 030	-	-
60	-	-	-	1 718	1 892	2 045	2 177	-	-
65	-	-	-	1 784	1 985	2 167	2 327	-	-
Current consumption in A									
35	5.26	5.70	6.08	6.40	6.64	6.79	6.85	-	-
40	5.35	5.84	6.28	6.66	6.97	7.20	7.34	-	-
45	5.44	5.99	6.51	6.96	7.36	7.67	7.90	-	-
50	-	6.14	6.73	7.28	7.76	8.18	8.51	-	-
55	-	-	6.94	7.59	8.18	8.70	9.15	-	-
60	-	-	-	7.88	8.58	9.23	9.80	-	-
65	-	-	-	8.12	8.95	9.73	10.45	-	-
Mass flow in kg/h									
35	43	59	77	98	122	150	182	-	-
40	40	55	73	94	118	145	177	-	-
45	37	52	69	90	113	140	170	-	-
50	-	49	66	85	108	134	164	-	-
55	-	-	62	81	103	128	157	-	-
60	-	-	-	76	97	122	150	-	-
65	-	-	-	72	92	116	143	-	-
Coefficient of performance (C.O.P.)									
35	2.04	2.53	3.10	3.78	4.60	5.59	6.80	-	-
40	1.79	2.21	2.70	3.28	3.96	4.78	5.76	-	-
45	1.56	1.93	2.35	2.84	3.41	4.08	4.88	-	-
50	-	1.68	2.04	2.45	2.93	3.48	4.13	-	-
55	-	-	1.76	2.11	2.50	2.96	3.50	-	-
60	-	-	-	1.80	2.13	2.51	2.94	-	-
65	-	-	-	1.53	1.80	2.11	2.47	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	5 064	W
Power input	1 844	W
Current consumption	8.36	A
Mass flow	114	kg/h
C.O.P.	2.75	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-10	-5	0	5	10	15	20
Cooling capacity in W									
35	574	869	1 732	2 329	3 059	3 935	4 974	6 191	7 600
40	487	766	1 572	2 128	2 807	3 624	4 595	5 735	7 059
45	396	660	1 408	1 922	2 550	3 308	4 211	5 274	6 513
50	304	552	1 242	1 714	2 291	2 990	3 825	4 811	5 964
55	-	-	1 075	1 505	2 032	2 671	3 437	4 346	5 414
60	-	-	-	1 298	1 773	2 352	3 050	3 882	4 864
65	-	-	-	-	1 518	2 037	2 666	3 421	4 317
75	-	-	-	-	-	-	1 912	2 512	3 235
Power input in W									
35	528	620	794	869	932	978	1 004	1 005	978
40	541	636	824	909	982	1 041	1 081	1 099	1 090
45	544	645	848	942	1 028	1 101	1 157	1 192	1 203
50	537	644	864	971	1 070	1 157	1 230	1 284	1 316
55	-	-	874	993	1 106	1 210	1 301	1 375	1 428
60	-	-	-	1 008	1 137	1 259	1 369	1 464	1 540
65	-	-	-	-	1 162	1 302	1 433	1 550	1 650
75	-	-	-	-	-	-	1 548	1 713	1 864
Current consumption in A									
35	5.12	5.26	5.55	5.69	5.81	5.92	6.02	6.10	6.15
40	5.13	5.28	5.61	5.77	5.92	6.06	6.19	6.31	6.40
45	5.12	5.29	5.65	5.84	6.02	6.20	6.37	6.53	6.67
50	5.10	5.28	5.69	5.90	6.12	6.34	6.55	6.75	6.94
55	-	-	5.72	5.96	6.21	6.47	6.73	6.98	7.22
60	-	-	-	6.01	6.30	6.60	6.90	7.21	7.51
65	-	-	-	-	6.38	6.73	7.08	7.44	7.80
75	-	-	-	-	-	-	7.44	7.92	8.40
Mass flow in kg/h									
35	15	22	41	54	70	88	109	133	161
40	13	20	39	52	67	85	105	129	157
45	11	18	37	50	64	81	102	125	151
50	9	16	35	47	61	78	97	120	146
55	-	-	32	44	58	74	93	115	140
60	-	-	-	40	54	69	88	109	133
65	-	-	-	-	49	64	82	102	126
75	-	-	-	-	-	-	69	88	110
Coefficient of performance (C.O.P.)									
35	1.09	1.40	2.18	2.68	3.28	4.02	4.96	6.16	7.77
40	0.90	1.20	1.91	2.34	2.86	3.48	4.25	5.22	6.47
45	0.73	1.02	1.66	2.04	2.48	3.01	3.64	4.43	5.42
50	0.57	0.86	1.44	1.77	2.14	2.58	3.11	3.75	4.53
55	-	-	1.23	1.52	1.84	2.21	2.64	3.16	3.79
60	-	-	-	1.29	1.56	1.87	2.23	2.65	3.16
65	-	-	-	-	1.31	1.56	1.86	2.21	2.62
75	-	-	-	-	-	-	1.24	1.47	1.74

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	2 990	W
Power input	1 157	W
Current consumption	6.34	A
Mass flow	78	kg/h
C.O.P.	2.58	

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	20.2	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.4	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-10	-5	0	5	10	15	20
Cooling capacity in W									
35	624	943	1 872	2 515	3 297	4 235	5 346	6 644	8 146
40	532	836	1 708	2 308	3 040	3 919	4 961	6 182	7 599
45	436	725	1 539	2 097	2 777	3 596	4 570	5 714	7 045
50	-	611	1 367	1 882	2 511	3 270	4 175	5 242	6 487
55	-	-	1 193	1 666	2 244	2 942	3 778	4 767	5 927
60	-	-	-	1 450	1 976	2 614	3 380	4 292	5 365
65	-	-	-	-	-	2 286	2 984	3 818	4 804
75	-	-	-	-	-	-	2 200	2 879	3 694
Power input in W									
35	528	620	794	869	932	978	1 004	1 005	978
40	541	636	824	909	982	1 041	1 081	1 099	1 090
45	544	645	848	942	1 028	1 101	1 157	1 192	1 203
50	-	644	864	971	1 070	1 157	1 230	1 284	1 316
55	-	-	874	993	1 106	1 210	1 301	1 375	1 428
60	-	-	-	1 008	1 137	1 259	1 369	1 464	1 540
65	-	-	-	-	-	1 302	1 433	1 550	1 650
75	-	-	-	-	-	-	1 548	1 713	1 864
Current consumption in A									
35	5.12	5.26	5.55	5.69	5.81	5.92	6.02	6.10	6.15
40	5.13	5.28	5.61	5.77	5.92	6.06	6.19	6.31	6.40
45	5.12	5.29	5.65	5.84	6.02	6.20	6.37	6.53	6.67
50	-	5.28	5.69	5.90	6.12	6.34	6.55	6.75	6.94
55	-	-	5.72	5.96	6.21	6.47	6.73	6.98	7.22
60	-	-	-	6.01	6.30	6.60	6.90	7.21	7.51
65	-	-	-	-	-	6.73	7.08	7.44	7.80
75	-	-	-	-	-	-	7.44	7.92	8.40
Mass flow in kg/h									
35	14	22	41	54	69	87	108	133	160
40	13	20	39	52	67	84	105	129	156
45	11	18	37	49	64	81	101	124	151
50	-	16	35	47	61	77	97	119	145
55	-	-	32	43	57	73	92	114	139
60	-	-	-	40	53	69	87	108	132
65	-	-	-	-	-	64	82	102	125
75	-	-	-	-	-	-	69	88	109
Coefficient of performance (C.O.P.)									
35	1.18	1.52	2.36	2.89	3.54	4.33	5.33	6.61	8.33
40	0.98	1.31	2.07	2.54	3.10	3.76	4.59	5.63	6.97
45	0.80	1.12	1.82	2.23	2.70	3.27	3.95	4.79	5.86
50	-	0.95	1.58	1.94	2.35	2.83	3.39	4.08	4.93
55	-	-	1.37	1.68	2.03	2.43	2.90	3.47	4.15
60	-	-	-	1.44	1.74	2.08	2.47	2.93	3.48
65	-	-	-	-	-	1.76	2.08	2.46	2.91
75	-	-	-	-	-	-	1.42	1.68	1.98

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	3 335	W
Power input	1 245	W
Current consumption	6.56	A
Mass flow	82	kg/h
C.O.P.	2.68	

Pressure switch settings

Maximum HP switch setting	20.2	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.4	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	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

Performance data at 50 Hz, EN 12900 rating conditions

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	1 070	1 535	2 125	2 856	3 744	4 804	6 052	7 504	9 176
35	918	1 342	1 882	2 552	3 368	4 347	5 504	6 854	8 413
40	774	1 156	1 643	2 251	2 995	3 891	4 954	6 201	7 647
45	639	978	1 411	1 955	2 625	3 436	4 405	5 547	6 878
50	515	809	1 187	1 665	2 259	2 985	3 857	4 892	6 106
55	-	650	971	1 382	1 899	2 537	3 311	4 239	5 334
60	-	503	765	1 108	1 545	2 094	2 769	3 587	4 563
Power input in W									
30	893	1 017	1 128	1 224	1 305	1 369	1 414	1 440	1 443
35	890	1 029	1 156	1 270	1 370	1 454	1 521	1 570	1 599
40	879	1 032	1 176	1 309	1 428	1 534	1 624	1 697	1 752
45	859	1 029	1 190	1 342	1 482	1 610	1 724	1 822	1 904
50	832	1 019	1 198	1 370	1 532	1 683	1 821	1 945	2 054
55	-	1 002	1 201	1 393	1 577	1 752	1 916	2 067	2 204
60	-	980	1 199	1 413	1 620	1 819	2 009	2 188	2 354
Current consumption in A									
30	6.04	6.34	6.63	6.91	7.16	7.37	7.52	7.61	7.62
35	6.08	6.40	6.72	7.02	7.31	7.56	7.76	7.91	7.98
40	6.09	6.44	6.80	7.15	7.49	7.79	8.06	8.27	8.42
45	6.05	6.45	6.86	7.27	7.67	8.05	8.39	8.69	8.92
50	5.96	6.42	6.90	7.38	7.86	8.32	8.75	9.14	9.48
55	-	6.32	6.88	7.45	8.02	8.58	9.12	9.62	10.08
60	-	6.14	6.79	7.47	8.15	8.82	9.48	10.10	10.69
Mass flow in kg/h									
30	34	47	64	84	107	134	165	200	241
35	31	44	60	80	102	129	160	195	235
40	28	41	57	76	98	124	154	189	228
45	26	38	53	71	93	118	148	182	220
50	23	35	49	67	88	112	141	174	212
55	-	32	45	62	82	106	134	167	204
60	-	28	41	57	76	100	127	158	194
Coefficient of performance (C.O.P.)									
30	1.20	1.51	1.88	2.33	2.87	3.51	4.28	5.21	6.36
35	1.03	1.30	1.63	2.01	2.46	2.99	3.62	4.37	5.26
40	0.88	1.12	1.40	1.72	2.10	2.54	3.05	3.65	4.36
45	0.74	0.95	1.19	1.46	1.77	2.13	2.56	3.04	3.61
50	0.62	0.79	0.99	1.22	1.47	1.77	2.12	2.52	2.97
55	-	0.65	0.81	0.99	1.20	1.45	1.73	2.05	2.42
60	-	0.51	0.64	0.78	0.95	1.15	1.38	1.64	1.94

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

Cooling capacity	2 625	W
Power input	1 482	W
Current consumption	7.67	A
Mass flow	93	kg/h
C.O.P.	1.77	

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	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	1 191	1 704	2 353	3 155	4 126	5 283	6 642	8 219	10 031
35	1 033	1 505	2 104	2 845	3 746	4 822	6 091	7 568	9 270
40	882	1 313	1 860	2 539	3 368	4 362	5 539	6 915	8 506
45	741	1 128	1 621	2 237	2 992	3 903	4 987	6 261	7 741
50	610	953	1 391	1 941	2 621	3 448	4 438	5 609	6 977
55	-	788	1 169	1 653	2 257	2 999	3 895	4 963	6 219
60	-	635	958	1 375	1 903	2 560	3 363	4 330	5 477
Power input in W									
30	893	1 017	1 128	1 224	1 305	1 369	1 414	1 440	1 443
35	890	1 029	1 156	1 270	1 370	1 454	1 521	1 570	1 599
40	879	1 032	1 176	1 309	1 428	1 534	1 624	1 697	1 752
45	859	1 029	1 190	1 342	1 482	1 610	1 724	1 822	1 904
50	832	1 019	1 198	1 370	1 532	1 683	1 821	1 945	2 054
55	-	1 002	1 201	1 393	1 577	1 752	1 916	2 067	2 204
60	-	980	1 199	1 413	1 620	1 819	2 009	2 188	2 354
Current consumption in A									
30	6.04	6.34	6.63	6.91	7.16	7.37	7.52	7.61	7.62
35	6.08	6.40	6.72	7.02	7.31	7.56	7.76	7.91	7.98
40	6.09	6.44	6.80	7.15	7.49	7.79	8.06	8.27	8.42
45	6.05	6.45	6.86	7.27	7.67	8.05	8.39	8.69	8.92
50	5.96	6.42	6.90	7.38	7.86	8.32	8.75	9.14	9.48
55	-	6.32	6.88	7.45	8.02	8.58	9.12	9.62	10.08
60	-	6.14	6.79	7.47	8.15	8.82	9.48	10.10	10.69
Mass flow in kg/h									
30	33	47	63	83	106	133	164	199	239
35	31	44	60	79	102	128	159	193	233
40	28	41	57	75	97	123	153	187	226
45	26	38	53	71	92	118	147	181	219
50	23	35	49	66	87	112	140	173	211
55	-	31	45	62	82	106	133	165	202
60	-	28	41	57	76	99	126	157	193
Coefficient of performance (C.O.P.)									
30	1.33	1.68	2.09	2.58	3.16	3.86	4.70	5.71	6.95
35	1.16	1.46	1.82	2.24	2.74	3.32	4.00	4.82	5.80
40	1.00	1.27	1.58	1.94	2.36	2.84	3.41	4.07	4.85
45	0.86	1.10	1.36	1.67	2.02	2.42	2.89	3.44	4.07
50	0.73	0.94	1.16	1.42	1.71	2.05	2.44	2.88	3.40
55	-	0.79	0.97	1.19	1.43	1.71	2.03	2.40	2.82
60	-	0.65	0.80	0.97	1.17	1.41	1.67	1.98	2.33

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

Cooling capacity	2 992	W
Power input	1 482	W
Current consumption	7.67	A
Mass flow	92	kg/h
C.O.P.	2.02	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions

R407A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	791	1 221	1 768	2 447	3 273	4 261	5 426	6 783	8 347
35	667	1 066	1 576	2 211	2 987	3 918	5 020	6 306	7 793
40	544	911	1 381	1 970	2 693	3 564	4 599	5 812	7 218
45	429	760	1 187	1 727	2 393	3 201	4 166	5 303	6 626
50	-	617	999	1 486	2 093	2 836	3 728	4 785	6 023
55	-	-	820	1 252	1 797	2 470	3 287	4 262	5 410
60	-	-	-	1 029	1 509	2 110	2 849	3 739	4 795
Power input in W									
30	701	836	963	1 078	1 176	1 255	1 309	1 336	1 332
35	685	833	975	1 107	1 225	1 325	1 405	1 459	1 486
40	661	822	980	1 130	1 269	1 393	1 499	1 582	1 639
45	628	803	978	1 147	1 308	1 457	1 590	1 703	1 793
50	-	775	967	1 157	1 342	1 516	1 677	1 821	1 945
55	-	-	948	1 160	1 368	1 570	1 760	1 937	2 094
60	-	-	-	1 153	1 387	1 617	1 838	2 048	2 241
Current consumption in A									
30	5.63	5.95	6.26	6.56	6.84	7.07	7.25	7.37	7.39
35	5.66	5.97	6.30	6.62	6.93	7.21	7.45	7.62	7.73
40	5.66	5.99	6.34	6.70	7.06	7.40	7.70	7.96	8.15
45	5.63	5.98	6.37	6.78	7.20	7.61	7.99	8.34	8.64
50	-	5.92	6.37	6.84	7.33	7.82	8.30	8.76	9.18
55	-	-	6.30	6.85	7.43	8.03	8.62	9.20	9.75
60	-	-	-	6.81	7.49	8.19	8.91	9.62	10.32
Mass flow in kg/h									
30	19	29	41	55	72	92	116	143	173
35	17	26	38	52	69	89	113	139	170
40	14	24	35	49	66	86	109	135	165
45	12	21	32	46	62	81	104	130	160
50	-	18	29	42	58	77	99	125	154
55	-	-	25	38	53	72	94	119	148
60	-	-	-	34	49	66	88	112	141
Coefficient of performance (C.O.P.)									
30	1.13	1.46	1.83	2.27	2.78	3.40	4.14	5.08	6.26
35	0.97	1.28	1.62	2.00	2.44	2.96	3.57	4.32	5.25
40	0.82	1.11	1.41	1.74	2.12	2.56	3.07	3.67	4.40
45	0.68	0.95	1.21	1.51	1.83	2.20	2.62	3.11	3.70
50	-	0.80	1.03	1.28	1.56	1.87	2.22	2.63	3.10
55	-	-	0.86	1.08	1.31	1.57	1.87	2.20	2.58
60	-	-	-	0.89	1.09	1.31	1.55	1.83	2.14

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

Cooling capacity	2 393	W
Power input	1 308	W
Current consumption	7.20	A
Mass flow	62	kg/h
C.O.P.	1.83	

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	25.8	bar(g)
Minimum LP switch setting	0.9	bar(g)
LP pump down setting	1.2	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R407A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	856	1 318	1 906	2 635	3 520	4 577	5 822	7 270	8 936
35	725	1 158	1 709	2 394	3 230	4 231	5 413	6 792	8 383
40	596	996	1 507	2 146	2 929	3 871	4 987	6 294	7 807
45	474	837	1 306	1 895	2 622	3 502	4 549	5 782	7 213
50	-	686	1 109	1 646	2 313	3 128	4 104	5 258	6 607
55	-	-	921	1 402	2 007	2 753	3 656	4 730	5 992
60	-	-	-	1 169	1 709	2 384	3 209	4 201	5 375
Power input in W									
30	701	836	963	1 078	1 176	1 255	1 309	1 336	1 332
35	685	833	975	1 107	1 225	1 325	1 405	1 459	1 486
40	661	822	980	1 130	1 269	1 393	1 499	1 582	1 639
45	628	803	978	1 147	1 308	1 457	1 590	1 703	1 793
50	-	775	967	1 157	1 342	1 516	1 677	1 821	1 945
55	-	-	948	1 160	1 368	1 570	1 760	1 937	2 094
60	-	-	-	1 153	1 387	1 617	1 838	2 048	2 241
Current consumption in A									
30	5.63	5.95	6.26	6.56	6.84	7.07	7.25	7.37	7.39
35	5.66	5.97	6.30	6.62	6.93	7.21	7.45	7.62	7.73
40	5.66	5.99	6.34	6.70	7.06	7.40	7.70	7.96	8.15
45	5.63	5.98	6.37	6.78	7.20	7.61	7.99	8.34	8.64
50	-	5.92	6.37	6.84	7.33	7.82	8.30	8.76	9.18
55	-	-	6.30	6.85	7.43	8.03	8.62	9.20	9.75
60	-	-	-	6.81	7.49	8.19	8.91	9.62	10.32
Mass flow in kg/h									
30	19	28	40	55	72	92	115	142	172
35	17	26	38	52	69	89	112	138	169
40	14	24	35	49	66	85	108	134	164
45	12	21	32	45	62	81	104	130	159
50	-	18	29	42	58	76	99	124	154
55	-	-	25	38	53	71	93	118	147
60	-	-	-	34	48	66	87	112	140
Coefficient of performance (C.O.P.)									
30	1.22	1.58	1.98	2.44	2.99	3.65	4.45	5.44	6.71
35	1.06	1.39	1.75	2.16	2.64	3.19	3.85	4.65	5.64
40	0.90	1.21	1.54	1.90	2.31	2.78	3.33	3.98	4.76
45	0.76	1.04	1.34	1.65	2.00	2.40	2.86	3.40	4.02
50	-	0.89	1.15	1.42	1.72	2.06	2.45	2.89	3.40
55	-	-	0.97	1.21	1.47	1.75	2.08	2.44	2.86
60	-	-	-	1.01	1.23	1.47	1.75	2.05	2.40

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

Cooling capacity	2 622	W
Power input	1 308	W
Current consumption	7.20	A
Mass flow	62	kg/h
C.O.P.	2.00	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings

Maximum HP switch setting	25.8	bar(g)
Minimum LP switch setting	0.9	bar(g)
LP pump down setting	1.2	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	-	1 326	1 939	2 700	3 626	4 737	6 051	7 585	9 359
35	-	1 124	1 679	2 371	3 216	4 234	5 443	6 861	8 507
40	-	954	1 458	2 086	2 857	3 788	4 899	6 207	7 732
45	-	811	1 269	1 841	2 543	3 395	4 414	5 620	7 029
50	-	-	1 109	1 631	2 272	3 050	3 984	5 093	6 394
55	-	-	-	1 451	2 037	2 749	3 604	4 623	5 822
60	-	-	-	-	-	-	-	-	-
Power input in W									
30	-	893	1 020	1 134	1 232	1 305	1 349	1 358	1 325
35	-	894	1 034	1 168	1 288	1 390	1 467	1 512	1 522
40	-	893	1 046	1 196	1 338	1 465	1 573	1 654	1 703
45	-	897	1 059	1 224	1 385	1 536	1 672	1 786	1 873
50	-	-	1 080	1 257	1 435	1 608	1 770	1 916	2 038
55	-	-	-	1 300	1 493	1 686	1 872	2 047	2 203
60	-	-	-	-	-	-	-	-	-
Current consumption in A									
30	-	5.96	6.30	6.64	6.94	7.19	7.36	7.43	7.39
35	-	6.05	6.41	6.76	7.10	7.40	7.63	7.79	7.83
40	-	6.09	6.47	6.86	7.25	7.61	7.93	8.17	8.33
45	-	6.09	6.50	6.95	7.40	7.84	8.25	8.60	8.88
50	-	-	6.53	7.04	7.57	8.10	8.62	9.10	9.51
55	-	-	-	7.14	7.77	8.41	9.05	9.66	10.23
60	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
30	-	27	39	54	72	92	116	144	176
35	-	24	36	50	66	86	109	136	167
40	-	22	33	46	62	81	103	129	159
45	-	19	30	43	58	76	98	123	152
50	-	-	28	40	55	73	94	118	146
55	-	-	-	38	53	70	90	114	141
60	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
30	-	1.48	1.90	2.38	2.94	3.63	4.49	5.59	7.06
35	-	1.26	1.62	2.03	2.50	3.05	3.71	4.54	5.59
40	-	1.07	1.39	1.74	2.14	2.59	3.12	3.75	4.54
45	-	0.90	1.20	1.50	1.84	2.21	2.64	3.15	3.75
50	-	-	1.03	1.30	1.58	1.90	2.25	2.66	3.14
55	-	-	-	1.12	1.36	1.63	1.93	2.26	2.64
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	2 543	W
Power input	1 385	W
Current consumption	7.40	A
Mass flow	58	kg/h
C.O.P.	1.84	

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	24	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.26	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
30	-	1 421	2 076	2 888	3 875	5 058	6 454	8 084	9 966
35	-	1 211	1 806	2 547	3 451	4 539	5 830	7 342	9 095
40	-	1 033	1 576	2 253	3 081	4 081	5 272	6 674	8 304
45	-	883	1 381	2 000	2 760	3 679	4 778	6 075	7 590
50	-	-	1 216	1 785	2 483	3 328	4 342	5 543	6 950
55	-	-	-	1 603	2 246	3 026	3 962	5 074	6 381
60	-	-	-	-	-	-	-	-	-
Power input in W									
30	-	893	1 020	1 134	1 232	1 305	1 349	1 358	1 325
35	-	894	1 034	1 168	1 288	1 390	1 467	1 512	1 522
40	-	893	1 046	1 196	1 338	1 465	1 573	1 654	1 703
45	-	897	1 059	1 224	1 385	1 536	1 672	1 786	1 873
50	-	-	1 080	1 257	1 435	1 608	1 770	1 916	2 038
55	-	-	-	1 300	1 493	1 686	1 872	2 047	2 203
60	-	-	-	-	-	-	-	-	-
Current consumption in A									
30	-	5.96	6.30	6.64	6.94	7.19	7.36	7.43	7.39
35	-	6.05	6.41	6.76	7.10	7.40	7.63	7.79	7.83
40	-	6.09	6.47	6.86	7.25	7.61	7.93	8.17	8.33
45	-	6.09	6.50	6.95	7.40	7.84	8.25	8.60	8.88
50	-	-	6.53	7.04	7.57	8.10	8.62	9.10	9.51
55	-	-	-	7.14	7.77	8.41	9.05	9.66	10.23
60	-	-	-	-	-	-	-	-	-
Mass flow in kg/h									
30	-	27	39	54	71	92	116	143	175
35	-	24	36	49	66	86	109	135	166
40	-	22	32	46	62	81	103	128	158
45	-	19	30	43	58	76	97	122	151
50	-	-	28	40	55	72	93	117	145
55	-	-	-	38	52	69	89	113	140
60	-	-	-	-	-	-	-	-	-
Coefficient of performance (C.O.P.)									
30	-	1.59	2.04	2.55	3.15	3.88	4.78	5.95	7.52
35	-	1.35	1.75	2.18	2.68	3.27	3.98	4.85	5.98
40	-	1.16	1.51	1.88	2.30	2.79	3.35	4.04	4.88
45	-	0.98	1.30	1.63	1.99	2.39	2.86	3.40	4.05
50	-	-	1.13	1.42	1.73	2.07	2.45	2.89	3.41
55	-	-	-	1.23	1.50	1.79	2.12	2.48	2.90
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	2 760	W
Power input	1 385	W
Current consumption	7.40	A
Mass flow	58	kg/h
C.O.P.	1.99	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings

Maximum HP switch setting	24	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.26	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-10	-5	0	5	10	15	20
Cooling capacity in W									
35	574	869	1 732	2 329	3 059	3 935	4 974	6 191	7 600
40	487	766	1 572	2 128	2 807	3 624	4 595	5 735	7 059
45	396	660	1 408	1 922	2 550	3 308	4 211	5 274	6 513
50	304	552	1 242	1 714	2 291	2 990	3 825	4 811	5 964
55	-	-	1 075	1 505	2 032	2 671	3 437	4 346	5 414
60	-	-	-	1 298	1 773	2 352	3 050	3 882	4 864
65	-	-	-	-	1 518	2 037	2 666	3 421	4 317
75	-	-	-	-	-	-	1 912	2 512	3 235
Power input in W									
35	528	620	794	869	932	978	1 004	1 005	978
40	541	636	824	909	982	1 041	1 081	1 099	1 090
45	544	645	848	942	1 028	1 101	1 157	1 192	1 203
50	537	644	864	971	1 070	1 157	1 230	1 284	1 316
55	-	-	874	993	1 106	1 210	1 301	1 375	1 428
60	-	-	-	1 008	1 137	1 259	1 369	1 464	1 540
65	-	-	-	-	1 162	1 302	1 433	1 550	1 650
75	-	-	-	-	-	-	1 548	1 713	1 864
Current consumption in A									
35	5.12	5.26	5.55	5.69	5.81	5.92	6.02	6.10	6.15
40	5.13	5.28	5.61	5.77	5.92	6.06	6.19	6.31	6.40
45	5.12	5.29	5.65	5.84	6.02	6.20	6.37	6.53	6.67
50	5.10	5.28	5.69	5.90	6.12	6.34	6.55	6.75	6.94
55	-	-	5.72	5.96	6.21	6.47	6.73	6.98	7.22
60	-	-	-	6.01	6.30	6.60	6.90	7.21	7.51
65	-	-	-	-	6.38	6.73	7.08	7.44	7.80
75	-	-	-	-	-	-	7.44	7.92	8.40
Mass flow in kg/h									
35	15	22	41	54	70	88	109	133	161
40	13	20	39	52	67	85	105	129	157
45	11	18	37	50	64	81	102	125	151
50	9	16	35	47	61	78	97	120	146
55	-	-	32	44	58	74	93	115	140
60	-	-	-	40	54	69	88	109	133
65	-	-	-	-	49	64	82	102	126
75	-	-	-	-	-	-	69	88	110
Coefficient of performance (C.O.P.)									
35	1.09	1.40	2.18	2.68	3.28	4.02	4.96	6.16	7.77
40	0.90	1.20	1.91	2.34	2.86	3.48	4.25	5.22	6.47
45	0.73	1.02	1.66	2.04	2.48	3.01	3.64	4.43	5.42
50	0.57	0.86	1.44	1.77	2.14	2.58	3.11	3.75	4.53
55	-	-	1.23	1.52	1.84	2.21	2.64	3.16	3.79
60	-	-	-	1.29	1.56	1.87	2.23	2.65	3.16
65	-	-	-	-	1.31	1.56	1.86	2.21	2.62
75	-	-	-	-	-	-	1.24	1.47	1.74

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	2 990	W
Power input	1 157	W
Current consumption	6.34	A
Mass flow	78	kg/h
C.O.P.	2.58	

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	20.2	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.4	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-10	-5	0	5	10	15	20
Cooling capacity in W									
35	624	943	1 872	2 515	3 297	4 235	5 346	6 644	8 146
40	532	836	1 708	2 308	3 040	3 919	4 961	6 182	7 599
45	436	725	1 539	2 097	2 777	3 596	4 570	5 714	7 045
50	-	611	1 367	1 882	2 511	3 270	4 175	5 242	6 487
55	-	-	1 193	1 666	2 244	2 942	3 778	4 767	5 927
60	-	-	-	1 450	1 976	2 614	3 380	4 292	5 365
65	-	-	-	-	-	2 286	2 984	3 818	4 804
75	-	-	-	-	-	-	2 200	2 879	3 694
Power input in W									
35	528	620	794	869	932	978	1 004	1 005	978
40	541	636	824	909	982	1 041	1 081	1 099	1 090
45	544	645	848	942	1 028	1 101	1 157	1 192	1 203
50	-	644	864	971	1 070	1 157	1 230	1 284	1 316
55	-	-	874	993	1 106	1 210	1 301	1 375	1 428
60	-	-	-	1 008	1 137	1 259	1 369	1 464	1 540
65	-	-	-	-	-	1 302	1 433	1 550	1 650
75	-	-	-	-	-	-	1 548	1 713	1 864
Current consumption in A									
35	5.12	5.26	5.55	5.69	5.81	5.92	6.02	6.10	6.15
40	5.13	5.28	5.61	5.77	5.92	6.06	6.19	6.31	6.40
45	5.12	5.29	5.65	5.84	6.02	6.20	6.37	6.53	6.67
50	-	5.28	5.69	5.90	6.12	6.34	6.55	6.75	6.94
55	-	-	5.72	5.96	6.21	6.47	6.73	6.98	7.22
60	-	-	-	6.01	6.30	6.60	6.90	7.21	7.51
65	-	-	-	-	-	6.73	7.08	7.44	7.80
75	-	-	-	-	-	-	7.44	7.92	8.40
Mass flow in kg/h									
35	14	22	41	54	69	87	108	133	160
40	13	20	39	52	67	84	105	129	156
45	11	18	37	49	64	81	101	124	151
50	-	16	35	47	61	77	97	119	145
55	-	-	32	43	57	73	92	114	139
60	-	-	-	40	53	69	87	108	132
65	-	-	-	-	-	64	82	102	125
75	-	-	-	-	-	-	69	88	109
Coefficient of performance (C.O.P.)									
35	1.18	1.52	2.36	2.89	3.54	4.33	5.33	6.61	8.33
40	0.98	1.31	2.07	2.54	3.10	3.76	4.59	5.63	6.97
45	0.80	1.12	1.82	2.23	2.70	3.27	3.95	4.79	5.86
50	-	0.95	1.58	1.94	2.35	2.83	3.39	4.08	4.93
55	-	-	1.37	1.68	2.03	2.43	2.90	3.47	4.15
60	-	-	-	1.44	1.74	2.08	2.47	2.93	3.48
65	-	-	-	-	-	1.76	2.08	2.46	2.91
75	-	-	-	-	-	-	1.42	1.68	1.98

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	3 335	W
Power input	1 245	W
Current consumption	6.56	A
Mass flow	82	kg/h
C.O.P.	2.68	

Pressure switch settings

Maximum HP switch setting	20.2	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.4	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	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

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	2 000	2 757	3 672	4 762	6 046	7 543	9 269	-	-
40	1 776	2 482	3 334	4 350	5 548	6 947	8 564	-	-
45	1 559	2 214	3 002	3 943	5 055	6 355	7 862	-	-
50	-	1 955	2 679	3 544	4 568	5 769	7 166	-	-
55	-	-	2 367	3 155	4 091	5 192	6 477	-	-
60	-	-	-	2 779	3 625	4 626	5 798	-	-
65	-	-	-	2 416	3 173	4 072	5 132	-	-
Power input in W									
35	1 054	1 173	1 272	1 351	1 409	1 445	1 458	-	-
40	1 075	1 212	1 331	1 430	1 508	1 565	1 598	-	-
45	1 088	1 246	1 386	1 506	1 606	1 684	1 740	-	-
50	-	1 274	1 436	1 579	1 702	1 804	1 884	-	-
55	-	-	1 483	1 650	1 798	1 925	2 030	-	-
60	-	-	-	1 718	1 892	2 045	2 177	-	-
65	-	-	-	1 784	1 985	2 167	2 327	-	-
Current consumption in A									
35	5.26	5.70	6.08	6.40	6.64	6.79	6.85	-	-
40	5.35	5.84	6.28	6.66	6.97	7.20	7.34	-	-
45	5.44	5.99	6.51	6.96	7.36	7.67	7.90	-	-
50	-	6.14	6.73	7.28	7.76	8.18	8.51	-	-
55	-	-	6.94	7.59	8.18	8.70	9.15	-	-
60	-	-	-	7.88	8.58	9.23	9.80	-	-
65	-	-	-	8.12	8.95	9.73	10.45	-	-
Mass flow in kg/h									
35	43	59	77	98	123	151	184	-	-
40	41	56	73	94	118	146	178	-	-
45	38	52	70	90	114	141	171	-	-
50	-	49	66	86	108	135	165	-	-
55	-	-	62	81	103	129	158	-	-
60	-	-	-	77	98	123	151	-	-
65	-	-	-	72	93	116	144	-	-
Coefficient of performance (C.O.P.)									
35	1.90	2.35	2.89	3.53	4.29	5.22	6.36	-	-
40	1.65	2.05	2.50	3.04	3.68	4.44	5.36	-	-
45	1.43	1.78	2.17	2.62	3.15	3.77	4.52	-	-
50	-	1.53	1.87	2.24	2.68	3.20	3.80	-	-
55	-	-	1.60	1.91	2.28	2.70	3.19	-	-
60	-	-	-	1.62	1.92	2.26	2.66	-	-
65	-	-	-	1.35	1.60	1.88	2.21	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	4 568	W
Power input	1 702	W
Current consumption	7.76	A
Mass flow	108	kg/h
C.O.P.	2.68	

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Pressure switch settings

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

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

Tolerance according EN12900

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	2 153	2 964	3 943	5 108	6 478	8 073	9 911	-	-
40	1 922	2 682	3 598	4 689	5 974	7 471	9 200	-	-
45	1 698	2 407	3 260	4 276	5 473	6 873	8 492	-	-
50	-	2 141	2 930	3 870	4 980	6 280	7 790	-	-
55	-	-	2 610	3 474	4 496	5 697	7 095	-	-
60	-	-	-	3 090	4 024	5 125	6 412	-	-
65	-	-	-	2 723	3 567	4 567	5 743	-	-
Power input in W									
35	1 054	1 173	1 272	1 351	1 409	1 445	1 458	-	-
40	1 075	1 212	1 331	1 430	1 508	1 565	1 598	-	-
45	1 088	1 246	1 386	1 506	1 606	1 684	1 740	-	-
50	-	1 274	1 436	1 579	1 702	1 804	1 884	-	-
55	-	-	1 483	1 650	1 798	1 925	2 030	-	-
60	-	-	-	1 718	1 892	2 045	2 177	-	-
65	-	-	-	1 784	1 985	2 167	2 327	-	-
Current consumption in A									
35	5.26	5.70	6.08	6.40	6.64	6.79	6.85	-	-
40	5.35	5.84	6.28	6.66	6.97	7.20	7.34	-	-
45	5.44	5.99	6.51	6.96	7.36	7.67	7.90	-	-
50	-	6.14	6.73	7.28	7.76	8.18	8.51	-	-
55	-	-	6.94	7.59	8.18	8.70	9.15	-	-
60	-	-	-	7.88	8.58	9.23	9.80	-	-
65	-	-	-	8.12	8.95	9.73	10.45	-	-
Mass flow in kg/h									
35	43	59	77	98	122	150	182	-	-
40	40	55	73	94	118	145	177	-	-
45	37	52	69	90	113	140	170	-	-
50	-	49	66	85	108	134	164	-	-
55	-	-	62	81	103	128	157	-	-
60	-	-	-	76	97	122	150	-	-
65	-	-	-	72	92	116	143	-	-
Coefficient of performance (C.O.P.)									
35	2.04	2.53	3.10	3.78	4.60	5.59	6.80	-	-
40	1.79	2.21	2.70	3.28	3.96	4.78	5.76	-	-
45	1.56	1.93	2.35	2.84	3.41	4.08	4.88	-	-
50	-	1.68	2.04	2.45	2.93	3.48	4.13	-	-
55	-	-	1.76	2.11	2.50	2.96	3.50	-	-
60	-	-	-	1.80	2.13	2.51	2.94	-	-
65	-	-	-	1.53	1.80	2.11	2.47	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	5 064	W
Power input	1 844	W
Current consumption	8.36	A
Mass flow	114	kg/h
C.O.P.	2.75	

to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	73	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

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	-	1 915	2 671	3 599	4 714	-	-	-	-
20	-	1 680	2 393	3 258	4 291	5 508	6 925	-	-
30	-	1 355	2 018	2 814	3 758	4 865	6 152	7 635	9 338
40	-	-	1 570	2 291	3 140	4 131	5 280	6 602	8 116
50	-	-	-	1 712	2 460	3 330	4 336	5 490	6 810
60	-	-	-	-	1 744	2 488	3 345	4 327	5 447
Power input in W									
10	-	983	1 055	1 089	1 080	-	-	-	-
20	-	960	1 076	1 161	1 208	1 211	1 165	-	-
30	-	921	1 080	1 213	1 314	1 378	1 399	1 371	1 287
40	-	-	1 053	1 233	1 387	1 510	1 596	1 639	1 632
50	-	-	-	1 209	1 415	1 595	1 744	1 856	1 925
60	-	-	-	-	1 384	1 620	1 831	2 010	2 153
Current consumption in A									
10	-	5.16	5.56	5.80	5.88	-	-	-	-
20	-	4.78	5.30	5.68	5.92	5.99	5.89	-	-
30	-	4.60	5.27	5.82	6.23	6.51	6.63	6.58	6.36
40	-	-	5.23	5.98	6.61	7.12	7.49	7.71	7.77
50	-	-	-	5.95	6.82	7.59	8.24	8.76	9.14
60	-	-	-	-	6.65	7.71	8.67	9.52	10.25
Mass flow in kg/h									
10	-	33	46	61	80	-	-	-	-
20	-	30	43	58	77	99	126	-	-
30	-	26	39	54	72	95	121	152	189
40	-	-	33	48	66	88	114	144	180
50	-	-	-	40	58	79	104	134	169
60	-	-	-	-	47	68	92	121	155
Coefficient of performance (C.O.P.)									
10	-	1.95	2.53	3.30	4.37	-	-	-	-
20	-	1.75	2.22	2.81	3.55	4.55	5.94	-	-
30	-	1.47	1.87	2.32	2.86	3.53	4.40	5.57	7.25
40	-	-	1.49	1.86	2.26	2.74	3.31	4.03	4.97
50	-	-	-	1.42	1.74	2.09	2.49	2.96	3.54
60	-	-	-	-	1.26	1.54	1.83	2.15	2.53

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

Cooling capacity	2 806	W
Power input	1 408	W
Current consumption	6.75	A
Mass flow	63	kg/h
C.O.P.	1.99	

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	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900

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

R448A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
10	1 319	1 924	2 686	3 621	4 744	-	-	-	-
20	1 095	1 669	2 383	3 252	4 290	5 514	6 938	-	-
30	791	1 328	1 985	2 780	3 727	4 841	6 137	7 631	9 338
40	437	927	1 521	2 234	3 082	4 078	5 240	6 581	8 116
50	-	495	1 018	1 642	2 382	3 254	4 273	5 453	6 810
60	-	-	504	1 031	1 657	2 396	3 264	4 276	5 447
Power input in W									
10	879	983	1 055	1 089	1 080	-	-	-	-
20	818	960	1 076	1 161	1 208	1 211	1 165	-	-
30	742	921	1 080	1 213	1 314	1 378	1 399	1 371	1 287
40	639	853	1 053	1 233	1 387	1 510	1 596	1 639	1 632
50	-	744	984	1 209	1 415	1 595	1 744	1 856	1 925
60	-	-	860	1 129	1 384	1 620	1 831	2 010	2 153
Current consumption in A									
10	4.61	5.16	5.56	5.80	5.88	-	-	-	-
20	4.14	4.78	5.30	5.68	5.92	5.99	5.89	-	-
30	3.83	4.60	5.27	5.82	6.23	6.51	6.63	6.58	6.36
40	3.47	4.39	5.23	5.98	6.61	7.12	7.49	7.71	7.77
50	-	3.94	4.98	5.95	6.82	7.59	8.24	8.76	9.14
60	-	-	4.29	5.51	6.65	7.71	8.67	9.52	10.25
Mass flow in kg/h									
10	27	38	52	69	88	-	-	-	-
20	23	35	49	65	84	107	133	-	-
30	18	30	44	60	80	102	127	156	189
40	11	23	37	54	73	95	120	148	180
50	-	14	28	45	64	85	110	138	169
60	-	-	16	33	52	73	97	124	155
Coefficient of performance (C.O.P.)									
10	1.50	1.96	2.55	3.32	4.39	-	-	-	-
20	1.34	1.74	2.21	2.80	3.55	4.55	5.95	-	-
30	1.07	1.44	1.84	2.29	2.84	3.51	4.39	5.57	7.25
40	0.68	1.09	1.44	1.81	2.22	2.70	3.28	4.02	4.97
50	-	0.67	1.04	1.36	1.68	2.04	2.45	2.94	3.54
60	-	-	0.59	0.91	1.20	1.48	1.78	2.13	2.53

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

Cooling capacity	2 737	W
Power input	1 408	W
Current consumption	6.75	A
Mass flow	69	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	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900

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

R449A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
10	-	1 918	2 675	3 603	4 718	-	-	-	-
20	-	1 684	2 397	3 263	4 296	5 512	6 929	-	-
30	-	1 358	2 022	2 819	3 763	4 870	6 156	7 638	9 338
40	-	-	1 574	2 295	3 145	4 136	5 284	6 605	8 116
50	-	-	-	1 716	2 465	3 335	4 340	5 493	6 810
60	-	-	-	-	1 748	2 492	3 349	4 329	5 447
Power input in W									
10	-	983	1 055	1 089	1 080	-	-	-	-
20	-	960	1 076	1 161	1 208	1 211	1 165	-	-
30	-	921	1 080	1 213	1 314	1 378	1 399	1 371	1 287
40	-	-	1 053	1 233	1 387	1 510	1 596	1 639	1 632
50	-	-	-	1 209	1 415	1 595	1 744	1 856	1 925
60	-	-	-	-	1 384	1 620	1 831	2 010	2 153
Current consumption in A									
10	-	5.16	5.56	5.80	5.88	-	-	-	-
20	-	4.78	5.30	5.68	5.92	5.99	5.89	-	-
30	-	4.60	5.27	5.82	6.23	6.51	6.63	6.58	6.36
40	-	-	5.23	5.98	6.61	7.12	7.49	7.71	7.77
50	-	-	-	5.95	6.82	7.59	8.24	8.76	9.14
60	-	-	-	-	6.65	7.71	8.67	9.52	10.25
Mass flow in kg/h									
10	-	33	46	62	81	-	-	-	-
20	-	30	43	59	78	101	128	-	-
30	-	26	39	55	74	96	123	155	192
40	-	-	34	49	68	90	116	147	183
50	-	-	-	41	59	81	107	137	172
60	-	-	-	-	48	69	94	124	158
Coefficient of performance (C.O.P.)									
10	-	1.95	2.54	3.31	4.37	-	-	-	-
20	-	1.75	2.23	2.81	3.56	4.55	5.95	-	-
30	-	1.48	1.87	2.32	2.86	3.53	4.40	5.57	7.25
40	-	-	1.49	1.86	2.27	2.74	3.31	4.03	4.97
50	-	-	-	1.42	1.74	2.09	2.49	2.96	3.54
60	-	-	-	-	1.26	1.54	1.83	2.15	2.53

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

Cooling capacity	2 811	W
Power input	1 408	W
Current consumption	6.75	A
Mass flow	64	kg/h
C.O.P.	2.00	

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	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900

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)								
	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity in W									
10	1 319	1 924	2 686	3 621	4 744	-	-	-	-
20	1 095	1 669	2 383	3 252	4 290	5 514	6 938	-	-
30	791	1 328	1 985	2 780	3 727	4 841	6 137	7 631	9 338
40	437	927	1 521	2 234	3 082	4 078	5 240	6 581	8 116
50	-	495	1 018	1 642	2 382	3 254	4 273	5 453	6 810
60	-	-	504	1 031	1 657	2 396	3 264	4 276	5 447
Power input in W									
10	879	983	1 055	1 089	1 080	-	-	-	-
20	818	960	1 076	1 161	1 208	1 211	1 165	-	-
30	742	921	1 080	1 213	1 314	1 378	1 399	1 371	1 287
40	639	853	1 053	1 233	1 387	1 510	1 596	1 639	1 632
50	-	744	984	1 209	1 415	1 595	1 744	1 856	1 925
60	-	-	860	1 129	1 384	1 620	1 831	2 010	2 153
Current consumption in A									
10	4.61	5.16	5.56	5.80	5.88	-	-	-	-
20	4.14	4.78	5.30	5.68	5.92	5.99	5.89	-	-
30	3.83	4.60	5.27	5.82	6.23	6.51	6.63	6.58	6.36
40	3.47	4.39	5.23	5.98	6.61	7.12	7.49	7.71	7.77
50	-	3.94	4.98	5.95	6.82	7.59	8.24	8.76	9.14
60	-	-	4.29	5.51	6.65	7.71	8.67	9.52	10.25
Mass flow in kg/h									
10	26	38	52	69	89	-	-	-	-
20	23	35	49	66	86	109	135	-	-
30	18	31	45	62	81	104	129	159	192
40	11	24	38	55	74	97	122	151	183
50	-	14	29	46	65	87	112	140	172
60	-	-	17	34	53	75	99	127	158
Coefficient of performance (C.O.P.)									
10	1.50	1.96	2.55	3.32	4.39	-	-	-	-
20	1.34	1.74	2.21	2.80	3.55	4.55	5.95	-	-
30	1.07	1.44	1.84	2.29	2.84	3.51	4.39	5.57	7.25
40	0.68	1.09	1.44	1.81	2.22	2.70	3.28	4.02	4.97
50	-	0.67	1.04	1.36	1.68	2.04	2.45	2.94	3.54
60	-	-	0.59	0.91	1.20	1.48	1.78	2.13	2.53

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

Cooling capacity	2 737	W
Power input	1 408	W
Current consumption	6.75	A
Mass flow	70	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	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900

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	-	2 032	2 739	3 600	4 626	-	-	-	-
20	-	1 778	2 447	3 250	4 198	5 305	6 585	-	-
30	-	1 449	2 069	2 803	3 662	4 659	5 806	7 117	8 611
40	-	1 071	1 630	2 284	3 043	3 918	4 921	6 064	7 363
50	-	-	1 155	1 717	2 366	3 109	3 958	4 922	6 014
60	-	-	-	1 129	1 657	2 259	2 945	3 721	4 595
Power input in W									
10	-	876	923	949	957	-	-	-	-
20	-	938	1 018	1 076	1 113	1 132	1 133	-	-
30	-	970	1 088	1 183	1 256	1 307	1 340	1 355	1 353
40	-	959	1 121	1 257	1 370	1 461	1 531	1 581	1 613
50	-	-	1 100	1 285	1 444	1 579	1 691	1 782	1 853
60	-	-	-	1 251	1 462	1 646	1 807	1 944	2 060
Current consumption in A									
10	-	5.28	5.77	6.10	6.28	-	-	-	-
20	-	5.19	5.66	6.00	6.22	6.31	6.29	-	-
30	-	5.41	5.89	6.28	6.58	6.78	6.90	6.94	6.89
40	-	5.60	6.15	6.63	7.04	7.40	7.70	7.96	8.16
50	-	-	6.11	6.72	7.30	7.85	8.38	8.89	9.38
60	-	-	-	6.25	7.03	7.82	8.61	9.42	10.24
Mass flow in kg/h									
10	-	43	58	76	98	-	-	-	-
20	-	40	55	73	95	121	151	-	-
30	-	35	51	69	90	116	146	181	223
40	-	29	44	62	84	109	138	173	214
50	-	-	36	54	74	99	128	161	201
60	-	-	-	42	62	86	114	146	185
Coefficient of performance (C.O.P.)									
10	-	2.32	2.97	3.79	4.83	-	-	-	-
20	-	1.90	2.40	3.02	3.77	4.69	5.81	-	-
30	-	1.49	1.90	2.37	2.92	3.56	4.33	5.25	6.36
40	-	1.12	1.45	1.82	2.22	2.68	3.21	3.84	4.56
50	-	-	1.05	1.34	1.64	1.97	2.34	2.76	3.24
60	-	-	-	0.90	1.13	1.37	1.63	1.91	2.23

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

Cooling capacity	2 710	W
Power input	1 413	W
Current consumption	7.22	A
Mass flow	79	kg/h
C.O.P.	1.92	

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	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900

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	1 417	1 978	2 682	3 544	4 577	-	-	-	-
20	1 168	1 702	2 362	3 161	4 114	5 234	6 534	-	-
30	863	1 358	1 961	2 685	3 545	4 553	5 725	7 073	8 611
40	533	975	1 508	2 144	2 898	3 783	4 813	6 002	7 363
50	206	583	1 033	1 568	2 203	2 952	3 827	4 843	6 014
60	-	210	563	985	1 489	2 088	2 796	3 627	4 595
Power input in W									
10	807	876	923	949	957	-	-	-	-
20	835	938	1 018	1 076	1 113	1 132	1 133	-	-
30	828	970	1 088	1 183	1 256	1 307	1 340	1 355	1 353
40	771	959	1 121	1 257	1 370	1 461	1 531	1 581	1 613
50	650	889	1 100	1 285	1 444	1 579	1 691	1 782	1 853
60	-	748	1 014	1 251	1 462	1 646	1 807	1 944	2 060
Current consumption in A									
10	4.62	5.28	5.77	6.10	6.28	-	-	-	-
20	4.59	5.19	5.66	6.00	6.22	6.31	6.29	-	-
30	4.82	5.41	5.89	6.28	6.58	6.78	6.90	6.94	6.89
40	4.99	5.60	6.15	6.63	7.04	7.40	7.70	7.96	8.16
50	4.79	5.47	6.11	6.72	7.30	7.85	8.38	8.89	9.38
60	-	4.69	5.47	6.25	7.03	7.82	8.61	9.42	10.24
Mass flow in kg/h									
10	37	50	66	85	107	-	-	-	-
20	32	46	63	82	104	130	159	-	-
30	27	41	58	77	99	125	154	186	223
40	19	34	51	70	92	117	146	178	214
50	9	24	41	60	82	107	135	166	201
60	-	11	28	47	69	93	120	150	185
Coefficient of performance (C.O.P.)									
10	1.76	2.26	2.91	3.73	4.78	-	-	-	-
20	1.40	1.81	2.32	2.94	3.70	4.62	5.77	-	-
30	1.04	1.40	1.80	2.27	2.82	3.48	4.27	5.22	6.36
40	0.69	1.02	1.35	1.71	2.11	2.59	3.14	3.80	4.56
50	0.32	0.66	0.94	1.22	1.53	1.87	2.26	2.72	3.24
60	-	0.28	0.56	0.79	1.02	1.27	1.55	1.87	2.23

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

Cooling capacity	2 555	W
Power input	1 413	W
Current consumption	7.22	A
Mass flow	87	kg/h
C.O.P.	1.81	

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	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	68	dB(A)

Tolerance according EN12900