ENGINEERING
TOMORROW

Datasheets

Danfoss Reciprocating compressors
MT / MTZ / NTZ

FRCC.UD.160208.154836

www.danfoss.com/odsg

General Characteristics

Model number (on compressor nameplate)		**MTZ40JH4AVE**
Code number for Singlepack*		MTZ40-4VI
Code number for Industrial pack**		MTZ40-4VM
Drawing number		8501025f
Suction and discharge connections		Rotolock
Suction connection		1-1/4 " Rotolock
Discharge connection		1 " Rotolock
Suction connection with supplied sleeve		5/8 " ODF
Discharge connection with supplied sleeve		1/2 " ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		30 bar / 8 bar
Cylinders	1	
Swept volume	67,89 cm3/rev	
Displacement @ Nominal speed	11.8 m3/h @ 2900 rpm - 14.3 m3/h @ 3500 rpm	
Net weight	26 kg	
Oil charge	0,95 litre, POE - 160PZ	
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, R507A, R134a, R407C, R407A, R407F	

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25ºC	4.56 Ω
Maximum Continuous Current (MCC)	10 A
Locked Rotor Amps (LRA)	38 A
Motor protection	Internal overload protector

Recommended Installation torques

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

Parts shipped with compressor

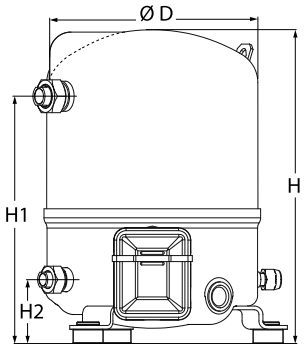
Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), CCC certified

*Singlepack: Compressor in cardboard box

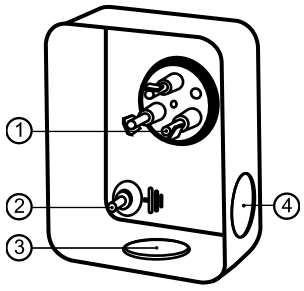
**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Dimensions



D=224 mm
H=356 mm
H1=263 mm
H2=68 mm
H3=- mm

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")

Rotolock accessories, suction side	Code no.
Solder sleeve, P09 (1-1/4" Rotolock, 5/8" ODF)	8153011
Angle adapter, C09 (1-1/4" Rotolock, 5/8" ODF)	8168009
Rotolock valve, V09 (1-1/4" Rotolock, 5/8" ODF)	8168033
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side	Code no.
Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Rotolock accessories, sets	Code no.
Angle adapter set, C09 (1-1/4"~5/8"), C06 (1"~1/2")	7703012
Valve set, V09 (1-1/4"~5/8"), V06 (1"~1/2")	7703005
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

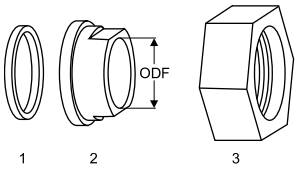
Oil / lubricants	Code no.
POE lubricant, 160PZ, 1 litre can	7754019
POE lubricant, 160PZ, 2.5 litre can	120Z0573

Crankcase heaters	Code no.
PTC heater 27W,CE mark, UL	120Z0459
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106
Belt type crankcase heater, 54 W, 400 V, UL	7773013

Miscellaneous accessories	Code no.
Electronic soft start kit, MCI 15 C	7705006
Acoustic hood for 1 cylinder compressor	120Z0471
Oil equalisation nut	8153127

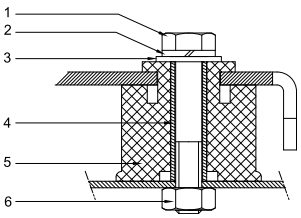
Spare parts	Code no.
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134

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	4 283	5 574	7 096	8 876	10 939	13 312	16 019	-	-
40	3 928	5 152	6 585	8 252	10 179	12 392	14 916	-	-
45	3 557	4 719	6 067	7 625	9 420	11 477	13 822	-	-
50	-	4 271	5 537	6 991	8 658	10 564	12 734	-	-
55	-	-	4 992	6 345	7 889	9 647	11 647	-	-
60	-	-	-	5 683	7 108	8 723	10 556	-	-
65	-	-	-	5 001	6 310	7 787	9 458	-	-
Power input in W									
35	2 036	2 254	2 445	2 609	2 746	2 854	2 935	-	-
40	2 119	2 373	2 597	2 793	2 959	3 094	3 198	-	-
45	2 182	2 479	2 744	2 977	3 179	3 348	3 483	-	-
50	-	2 567	2 879	3 158	3 402	3 611	3 785	-	-
55	-	-	2 999	3 330	3 624	3 880	4 099	-	-
60	-	-	-	3 489	3 840	4 150	4 420	-	-
65	-	-	-	3 632	4 045	4 417	4 746	-	-
Current consumption in A									
35	4.68	4.93	5.15	5.34	5.51	5.64	5.73	-	-
40	4.78	5.08	5.36	5.60	5.81	5.98	6.11	-	-
45	4.85	5.22	5.56	5.86	6.13	6.35	6.52	-	-
50	-	5.34	5.76	6.13	6.46	6.74	6.98	-	-
55	-	-	5.94	6.39	6.80	7.16	7.47	-	-
60	-	-	-	6.64	7.14	7.59	7.98	-	-
65	-	-	-	6.88	7.48	8.02	8.51	-	-
Mass flow in kg/h									
35	93	119	149	183	223	267	317	-	-
40	90	116	145	179	217	261	309	-	-
45	86	112	141	174	212	254	301	-	-
50	-	107	136	169	206	247	293	-	-
55	-	-	131	163	199	239	284	-	-
60	-	-	-	156	192	231	275	-	-
65	-	-	-	149	184	222	265	-	-
Coefficient of performance (C.O.P.)									
35	2.10	2.47	2.90	3.40	3.98	4.66	5.46	-	-
40	1.85	2.17	2.54	2.95	3.44	4.01	4.66	-	-
45	1.63	1.90	2.21	2.56	2.96	3.43	3.97	-	-
50	-	1.66	1.92	2.21	2.55	2.93	3.36	-	-
55	-	-	1.66	1.91	2.18	2.49	2.84	-	-
60	-	-	-	1.63	1.85	2.10	2.39	-	-
65	-	-	-	1.38	1.56	1.76	1.99	-	-

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

Cooling capacity	8 658	W
Power input	3 402	W
Current consumption	6.46	A
Mass flow	206	kg/h
C.O.P.	2.55	

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Pressure switch settings

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	dB(A)

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

All performance data +/- 5%

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	4 610	5 992	7 619	9 520	11 720	14 247	17 128	-	-
40	4 251	5 568	7 107	8 895	10 959	13 326	16 023	-	-
45	3 874	5 132	6 588	8 268	10 201	12 412	14 930	-	-
50	-	4 678	6 056	7 633	9 439	11 500	13 843	-	-
55	-	-	5 506	6 986	8 670	10 585	12 759	-	-
60	-	-	-	6 321	7 889	9 664	11 674	-	-
65	-	-	-	5 635	7 093	8 734	10 585	-	-
Power input in W									
35	2 036	2 254	2 445	2 609	2 746	2 854	2 935	-	-
40	2 119	2 373	2 597	2 793	2 959	3 094	3 198	-	-
45	2 182	2 479	2 744	2 977	3 179	3 348	3 483	-	-
50	-	2 567	2 879	3 158	3 402	3 611	3 785	-	-
55	-	-	2 999	3 330	3 624	3 880	4 099	-	-
60	-	-	-	3 489	3 840	4 150	4 420	-	-
65	-	-	-	3 632	4 045	4 417	4 746	-	-
Current consumption in A									
35	4.68	4.93	5.15	5.34	5.51	5.64	5.73	-	-
40	4.78	5.08	5.36	5.60	5.81	5.98	6.11	-	-
45	4.85	5.22	5.56	5.86	6.13	6.35	6.52	-	-
50	-	5.34	5.76	6.13	6.46	6.74	6.98	-	-
55	-	-	5.94	6.39	6.80	7.16	7.47	-	-
60	-	-	-	6.64	7.14	7.59	7.98	-	-
65	-	-	-	6.88	7.48	8.02	8.51	-	-
Mass flow in kg/h									
35	92	118	148	182	221	266	316	-	-
40	89	115	144	178	216	259	307	-	-
45	85	111	140	173	210	252	299	-	-
50	-	106	135	168	204	245	291	-	-
55	-	-	130	162	198	238	282	-	-
60	-	-	-	155	191	230	273	-	-
65	-	-	-	148	183	221	263	-	-
Coefficient of performance (C.O.P.)									
35	2.26	2.66	3.12	3.65	4.27	4.99	5.84	-	-
40	2.01	2.35	2.74	3.19	3.70	4.31	5.01	-	-
45	1.78	2.07	2.40	2.78	3.21	3.71	4.29	-	-
50	-	1.82	2.10	2.42	2.77	3.18	3.66	-	-
55	-	-	1.84	2.10	2.39	2.73	3.11	-	-
60	-	-	-	1.81	2.05	2.33	2.64	-	-
65	-	-	-	1.55	1.75	1.98	2.23	-	-

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

Cooling capacity	9 582	W
Power input	3 712	W
Current consumption	6.92	A
Mass flow	216	kg/h
C.O.P.	2.58	

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	0.2	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	dB(A)

All performance data +/- 5%

Performance data at 50 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15	20	
Cooling capacity in W									
35	2 832	3 614	4 531	5 599	6 830	8 240	9 843	11 651	-
40	2 642	3 394	4 274	5 298	6 479	7 831	9 368	11 105	-
45	2 446	3 163	4 002	4 978	6 103	7 393	8 861	10 521	-
50	2 241	2 920	3 713	4 636	5 703	6 926	8 320	9 899	-
55	2 027	2 662	3 406	4 272	5 275	6 427	7 743	9 237	-
60	-	2 389	3 079	3 884	4 818	5 895	7 129	8 532	-
65	-	-	-	3 470	4 331	5 328	6 475	7 784	-
70	-	-	-	-	-	4 726	5 780	6 990	-
Power input in W									
35	1 325	1 445	1 555	1 653	1 733	1 791	1 824	1 827	-
40	1 400	1 531	1 656	1 771	1 872	1 954	2 013	2 046	-
45	1 465	1 610	1 752	1 887	2 010	2 118	2 205	2 269	-
50	1 520	1 681	1 842	1 998	2 145	2 280	2 398	2 495	-
55	1 564	1 742	1 923	2 103	2 276	2 440	2 590	2 722	-
60	-	1 791	1 995	2 200	2 402	2 597	2 780	2 949	-
65	-	-	-	2 287	2 519	2 747	2 967	3 174	-
70	-	-	-	-	-	2 891	3 149	3 397	-
Current consumption in A									
35	3.51	3.65	3.79	3.91	4.01	4.10	4.16	4.20	-
40	3.57	3.73	3.89	4.04	4.19	4.31	4.43	4.52	-
45	3.62	3.81	4.00	4.19	4.37	4.55	4.71	4.86	-
50	3.68	3.90	4.12	4.35	4.58	4.80	5.02	5.23	-
55	3.74	3.99	4.25	4.52	4.80	5.08	5.35	5.62	-
60	-	4.08	4.39	4.70	5.03	5.37	5.71	6.05	-
65	-	-	-	4.90	5.28	5.68	6.08	6.49	-
70	-	-	-	-	-	6.01	6.48	6.97	-
Mass flow in kg/h									
35	69	86	105	127	152	180	212	246	-
40	67	85	104	126	151	179	211	245	-
45	66	83	103	125	150	178	209	244	-
50	64	81	101	123	148	176	207	241	-
55	62	79	98	120	145	173	203	237	-
60	-	76	95	117	142	169	199	233	-
65	-	-	-	113	138	164	194	228	-
70	-	-	-	-	-	159	189	221	-
Coefficient of performance (C.O.P.)									
35	2.14	2.50	2.91	3.39	3.94	4.60	5.40	6.38	-
40	1.89	2.22	2.58	2.99	3.46	4.01	4.65	5.43	-
45	1.67	1.96	2.28	2.64	3.04	3.49	4.02	4.64	-
50	1.47	1.74	2.02	2.32	2.66	3.04	3.47	3.97	-
55	1.30	1.53	1.77	2.03	2.32	2.63	2.99	3.39	-
60	-	1.33	1.54	1.77	2.01	2.27	2.56	2.89	-
65	-	-	-	1.52	1.72	1.94	2.18	2.45	-
70	-	-	-	-	-	1.63	1.84	2.06	-

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

Cooling capacity	5 703	W
Power input	2 145	W
Current consumption	4.58	A
Mass flow	148	kg/h
C.O.P.	2.66	

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	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

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

All performance data +/- 5%

Performance data at 50 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15	20	
Cooling capacity in W									
35	3 068	3 907	4 891	6 034	7 351	8 856	10 563	12 488	-
40	2 878	3 689	4 637	5 738	7 006	8 454	10 099	11 953	-
45	2 680	3 458	4 367	5 421	6 635	8 023	9 600	11 380	-
50	2 474	3 214	4 079	5 082	6 238	7 561	9 066	10 767	-
55	2 256	2 955	3 771	4 718	5 811	7 064	8 493	10 111	-
60	-	2 677	3 440	4 327	5 353	6 533	7 880	9 411	-
65	-	-	-	3 907	4 862	5 963	7 225	8 664	-
70	-	-	-	-	-	5 354	6 526	7 868	-
Power input in W									
35	1 325	1 445	1 555	1 653	1 733	1 791	1 824	1 827	-
40	1 400	1 531	1 656	1 771	1 872	1 954	2 013	2 046	-
45	1 465	1 610	1 752	1 887	2 010	2 118	2 205	2 269	-
50	1 520	1 681	1 842	1 998	2 145	2 280	2 398	2 495	-
55	1 564	1 742	1 923	2 103	2 276	2 440	2 590	2 722	-
60	-	1 791	1 995	2 200	2 402	2 597	2 780	2 949	-
65	-	-	-	2 287	2 519	2 747	2 967	3 174	-
70	-	-	-	-	-	2 891	3 149	3 397	-
Current consumption in A									
35	3.51	3.65	3.79	3.91	4.01	4.10	4.16	4.20	-
40	3.57	3.73	3.89	4.04	4.19	4.31	4.43	4.52	-
45	3.62	3.81	4.00	4.19	4.37	4.55	4.71	4.86	-
50	3.68	3.90	4.12	4.35	4.58	4.80	5.02	5.23	-
55	3.74	3.99	4.25	4.52	4.80	5.08	5.35	5.62	-
60	-	4.08	4.39	4.70	5.03	5.37	5.71	6.05	-
65	-	-	-	4.90	5.28	5.68	6.08	6.49	-
70	-	-	-	-	-	6.01	6.48	6.97	-
Mass flow in kg/h									
35	68	85	105	127	151	179	210	245	-
40	67	84	104	126	151	178	210	244	-
45	66	83	102	124	149	177	208	242	-
50	64	81	100	122	147	175	206	240	-
55	61	79	98	120	144	172	202	236	-
60	-	76	95	117	141	168	198	232	-
65	-	-	-	113	137	164	193	226	-
70	-	-	-	-	-	158	188	220	-
Coefficient of performance (C.O.P.)									
35	2.31	2.70	3.15	3.65	4.24	4.94	5.79	6.83	-
40	2.06	2.41	2.80	3.24	3.74	4.33	5.02	5.84	-
45	1.83	2.15	2.49	2.87	3.30	3.79	4.35	5.02	-
50	1.63	1.91	2.21	2.54	2.91	3.32	3.78	4.32	-
55	1.44	1.70	1.96	2.24	2.55	2.89	3.28	3.71	-
60	-	1.49	1.72	1.97	2.23	2.52	2.83	3.19	-
65	-	-	-	1.71	1.93	2.17	2.44	2.73	-
70	-	-	-	-	-	1.85	2.07	2.32	-

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

Cooling capacity	6 398	W
Power input	2 333	W
Current consumption	4.89	A
Mass flow	156	kg/h
C.O.P.	2.74	

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	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

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

All performance data +/- 5%

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	2 448	3 330	4 396	5 669	7 172	8 925	10 953	13 277	15 919
35	2 168	2 997	3 993	5 177	6 573	8 202	10 087	12 250	14 713
40	1 885	2 659	3 581	4 674	5 959	7 461	9 200	11 200	13 482
45	1 601	2 316	3 161	4 159	5 333	6 704	8 294	10 128	12 225
50	1 314	1 968	2 734	3 635	4 693	5 930	7 370	9 033	10 944
55	-	1 616	2 300	3 101	4 040	5 141	6 427	7 918	9 638
60	-	1 262	1 860	2 557	3 376	4 338	5 466	6 782	8 308
Power input in W									
30	1 685	1 940	2 176	2 393	2 590	2 766	2 921	3 056	3 169
35	1 696	1 977	2 237	2 477	2 697	2 896	3 073	3 229	3 363
40	1 703	2 013	2 302	2 571	2 818	3 043	3 247	3 429	3 587
45	1 702	2 046	2 368	2 669	2 948	3 205	3 439	3 650	3 839
50	1 689	2 070	2 430	2 767	3 083	3 375	3 644	3 890	4 112
55	-	2 082	2 483	2 862	3 218	3 550	3 859	4 144	4 404
60	-	2 077	2 524	2 949	3 349	3 726	4 079	4 406	4 709
Current consumption in A									
30	4.20	4.48	4.76	5.03	5.29	5.52	5.71	5.87	5.98
35	4.26	4.58	4.89	5.20	5.49	5.76	6.00	6.21	6.36
40	4.29	4.64	5.00	5.35	5.68	6.00	6.29	6.55	6.76
45	4.29	4.69	5.09	5.48	5.87	6.24	6.59	6.90	7.17
50	4.27	4.71	5.16	5.62	6.06	6.49	6.89	7.27	7.61
55	-	4.73	5.24	5.75	6.25	6.75	7.22	7.66	8.07
60	-	4.74	5.31	5.88	6.46	7.02	7.57	8.09	8.57
Mass flow in kg/h									
30	77	102	132	166	204	249	299	355	419
35	73	99	128	162	200	243	293	348	410
40	69	95	124	157	195	238	286	340	401
45	64	90	119	152	189	231	278	331	391
50	59	85	113	146	182	224	270	322	380
55	-	78	107	139	175	215	261	311	368
60	-	71	100	131	167	206	250	300	355
Coefficient of performance (C.O.P.)									
30	1.45	1.72	2.02	2.37	2.77	3.23	3.75	4.34	5.02
35	1.28	1.52	1.78	2.09	2.44	2.83	3.28	3.79	4.38
40	1.11	1.32	1.56	1.82	2.11	2.45	2.83	3.27	3.76
45	0.94	1.13	1.33	1.56	1.81	2.09	2.41	2.77	3.18
50	0.78	0.95	1.13	1.31	1.52	1.76	2.02	2.32	2.66
55	-	0.78	0.93	1.08	1.26	1.45	1.67	1.91	2.19
60	-	0.61	0.74	0.87	1.01	1.16	1.34	1.54	1.76

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

Cooling capacity	5 333	W
Power input	2 948	W
Current consumption	5.87	A
Mass flow	189	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

CERTIFIED PRODUCT ASERCOM

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

Sound power data

Sound power level	70	dB(A)
With accoustic hood	65	dB(A)

All performance data +/- 5%

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	2 725	3 697	4 868	6 262	7 904	9 815	12 020	14 541	17 402
35	2 439	3 361	4 465	5 773	7 309	9 098	11 163	13 526	16 212
40	2 149	3 020	4 052	5 271	6 701	8 364	10 286	12 489	14 997
45	1 855	2 671	3 631	4 759	6 079	7 615	9 391	11 431	13 760
50	1 557	2 318	3 203	4 237	5 445	6 851	8 481	10 357	12 504
55	-	1 959	2 768	3 707	4 802	6 078	7 560	9 271	11 237
60	-	1 595	2 329	3 174	4 157	5 303	6 638	8 186	9 974
Power input in W									
30	1 685	1 940	2 176	2 393	2 590	2 766	2 921	3 056	3 169
35	1 696	1 977	2 237	2 477	2 697	2 896	3 073	3 229	3 363
40	1 703	2 013	2 302	2 571	2 818	3 043	3 247	3 429	3 587
45	1 702	2 046	2 368	2 669	2 948	3 205	3 439	3 650	3 839
50	1 689	2 070	2 430	2 767	3 083	3 375	3 644	3 890	4 112
55	-	2 082	2 483	2 862	3 218	3 550	3 859	4 144	4 404
60	-	2 077	2 524	2 949	3 349	3 726	4 079	4 406	4 709
Current consumption in A									
30	4.20	4.48	4.76	5.03	5.29	5.52	5.71	5.87	5.98
35	4.26	4.58	4.89	5.20	5.49	5.76	6.00	6.21	6.36
40	4.29	4.64	5.00	5.35	5.68	6.00	6.29	6.55	6.76
45	4.29	4.69	5.09	5.48	5.87	6.24	6.59	6.90	7.17
50	4.27	4.71	5.16	5.62	6.06	6.49	6.89	7.27	7.61
55	-	4.73	5.24	5.75	6.25	6.75	7.22	7.66	8.07
60	-	4.74	5.31	5.88	6.46	7.02	7.57	8.09	8.57
Mass flow in kg/h									
30	77	102	131	165	203	247	297	353	416
35	73	98	127	161	199	242	291	346	408
40	69	94	123	156	194	236	284	338	398
45	64	90	118	151	188	230	277	329	388
50	59	84	113	145	181	222	268	320	377
55	-	78	106	138	174	214	259	309	365
60	-	71	99	131	166	205	249	298	352
Coefficient of performance (C.O.P.)									
30	1.62	1.91	2.24	2.62	3.05	3.55	4.11	4.76	5.49
35	1.44	1.70	2.00	2.33	2.71	3.14	3.63	4.19	4.82
40	1.26	1.50	1.76	2.05	2.38	2.75	3.17	3.64	4.18
45	1.09	1.31	1.53	1.78	2.06	2.38	2.73	3.13	3.58
50	0.92	1.12	1.32	1.53	1.77	2.03	2.33	2.66	3.04
55	-	0.94	1.11	1.30	1.49	1.71	1.96	2.24	2.55
60	-	0.77	0.92	1.08	1.24	1.42	1.63	1.86	2.12

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

Cooling capacity	6 079	W
Power input	2 948	W
Current consumption	5.87	A
Mass flow	188	kg/h
C.O.P.	2.06	

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	0.2	bar(g)
LP pump down setting	0.9	bar(g)

Sound power data

Sound power level	70	dB(A)
With accoustic hood	65	dB(A)

All performance data +/- 5%