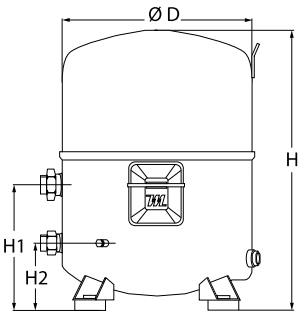
General Characteristics

Model number (on compressor nameplate)	MTZ100HS4	MTZ100HS4VE
Code number for Singlepack*	MTZ100-4I	MTZ100-4VI
Code number for Industrial pack**	MTZ100-4M	MTZ100-4VM
Drawing number	8504013e	8504010f
Suction and discharge connections	Rotolock	Rotolock
Suction connection	1-3/4 " Rotolock	1-3/4 " Rotolock
Discharge connection	1-1/4 " Rotolock	1-1/4 " Rotolock
Suction connection with supplied sleeve	1-1/8 " ODF	1-1/8 " ODF
Discharge connection with supplied sleeve	3/4 " ODF	3/4 " ODF
Oil sight glass	Brazed	Threaded
Oil equalisation connection	None	3/8'' flare SAE
Oil drain connection	None	None
LP gauge port	Schrader	Schrader
IPR valve	30 bar / 8 bar	30 bar / 8 bar
Cylinders	4	
Swept volume	171.26 cm3/rev	
Displacement @ Nominal speed	29.8 m3/h @ 2900 rpm - 36.0 m3/h @ 3500 rpm	
Net weight	60 kg	
Oil charge	3.9 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	10 kg	
Approved refrigerants	R404A - R507A - R134a - R407C	

Dimensions

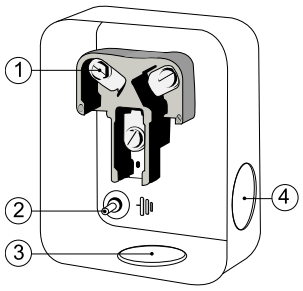


D=352 mm
H=519 mm
H1=233 mm
H2=125 mm

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	1.85 Ω
Maximum Continuous Current (MCC)	22 A
Locked Rotor Amps (LRA)	90 A
Motor protection	Internal overload protector

Terminal box



IP54 (with cable gland)

1: Screw connectors 10-32 UNF x 9.5
2: Earth M4-12, torque 2 Nm (17 in.lb)
3: Knock-out Ø 29 mm (1.14")
4: Knock-out Ø 25.5 mm (1.00")

Recommended Installation torques

Suction Rotolock nut or valve	110 Nm
Discharge Rotolock nut or valve	90 Nm
Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	50 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), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side	Code no.
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

Rotolock accessories, sets	Code no.
Angle adapter set, C02 (1-3/4"~1-1/8"), C04 (1-1/4"~3/4")	7703014
Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")	7703009
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

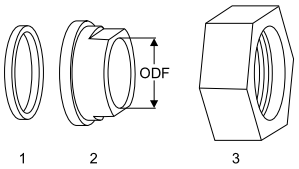
Oil / lubricants	Code no.
POE lubricant, 160PZ, 1 litre can	7754019
POE lubricant, 160PZ, 2 litre can	7754020

Crankcase heaters	Code no.
PTC crankcase heater, 35 W, incl. heat transfer paste	7773001
PTC crankcase heater, 35 W, mounting without paste	7773125
Belt type crankcase heater, 75 W, 110 V, CE mark, UL	7773110
Belt type crankcase heater, 75 W, 230 V, CE mark, UL	7773108
Belt type crankcase heater, 75 W, 400 V, CE mark, UL	7773118
Belt type crankcase heater, 75 W, 240 V, UL	7773004
Belt type crankcase heater, 75 W, 400 V, UL	7773014
Belt type crankcase heater, 75 W, 460 V, UL	7773008

Miscellaneous accessories	Code no.
Electronic soft start kit, MCI 25 C	7705007
Soft start kit with statoric resistors, prewired box, SCR03	7705001
Acoustic hood for 4 cylinder compressor	7755003
Oil equalisation nut	8153127

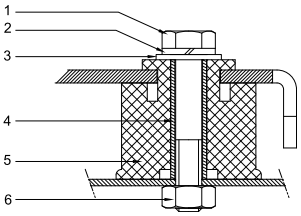
Spare parts	Code no.
Mounting kit for 4 cylinder compressor & MS, including 4 grommets, 4 bolts	8156007
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp, 1 T block connector 52 x 57 mm	8156135
T block connector 52 x 57 mm	8173230

Gaskets, sleeves and nuts



1: Gasket
2: Solder sleeve
3: Rotolock nut

Mounting kit



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

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	9 186	12 506	16 495	21 229	26 784	33 239	40 670	-	-
40	8 185	11 303	15 045	19 488	24 708	30 783	37 790	-	-
45	7 201	10 105	13 588	17 729	22 602	28 287	34 858	-	-
50	-	8 927	12 141	15 968	20 484	25 766	31 891	-	-
55	-	-	10 720	14 221	18 368	23 237	28 904	-	-
60	-	-	-	12 506	16 273	20 717	25 915	-	-
65	-	-	-	10 839	14 213	18 221	22 940	-	-
Power input in W									
35	4 578	5 036	5 412	5 720	5 973	6 184	6 366	-	-
40	4 724	5 279	5 743	6 129	6 449	6 719	6 949	-	-
45	4 805	5 472	6 038	6 517	6 920	7 263	7 557	-	-
50	-	5 605	6 289	6 875	7 377	7 808	8 181	-	-
55	-	-	6 486	7 194	7 809	8 344	8 810	-	-
60	-	-	-	7 466	8 209	8 862	9 437	-	-
65	-	-	-	7 682	8 568	9 353	10 053	-	-
Current consumption in A									
35	9.96	10.40	10.81	11.16	11.44	11.63	11.69	-	-
40	10.08	10.62	11.13	11.58	11.96	12.24	12.41	-	-
45	10.14	10.81	11.44	12.01	12.50	12.90	13.18	-	-
50	-	10.94	11.71	12.42	13.05	13.58	14.00	-	-
55	-	-	11.93	12.79	13.58	14.27	14.84	-	-
60	-	-	-	13.12	14.08	14.94	15.68	-	-
65	-	-	-	13.38	14.54	15.59	16.52	-	-
Mass flow in kg/h									
35	200	267	347	439	545	667	806	-	-
40	187	254	332	423	527	647	784	-	-
45	174	239	316	405	508	626	760	-	-
50	-	224	299	386	487	602	733	-	-
55	-	-	281	366	464	576	705	-	-
60	-	-	-	345	440	549	674	-	-
65	-	-	-	323	415	521	642	-	-
Coefficient of performance (C.O.P.)									
35	2.01	2.48	3.05	3.71	4.48	5.38	6.39	-	-
40	1.73	2.14	2.62	3.18	3.83	4.58	5.44	-	-
45	1.50	1.85	2.25	2.72	3.27	3.89	4.61	-	-
50	-	1.59	1.93	2.32	2.78	3.30	3.90	-	-
55	-	-	1.65	1.98	2.35	2.79	3.28	-	-
60	-	-	-	1.68	1.98	2.34	2.75	-	-
65	-	-	-	1.41	1.66	1.95	2.28	-	-

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

Cooling capacity	20 484	W
Power input	7 377	W
Current consumption	13.05	A
Mass flow	487	kg/h
C.O.P.	2.78	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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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	0	dB(A)
With accoustic hood	0	dB(A)

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	9 887	13 445	17 712	22 769	28 696	35 574	43 484	-	-
40	8 859	12 216	16 238	21 007	26 602	33 105	40 596	-	-
45	7 843	10 988	14 755	19 223	24 475	30 590	37 651	-	-
50	-	9 779	13 277	17 434	22 330	28 048	34 668	-	-
55	-	-	11 824	15 657	20 186	25 495	31 664	-	-
60	-	-	-	13 910	18 062	22 951	28 658	-	-
65	-	-	-	12 215	15 978	20 436	25 673	-	-
Power input in W									
35	4 578	5 036	5 412	5 720	5 973	6 184	6 366	-	-
40	4 724	5 279	5 743	6 129	6 449	6 719	6 949	-	-
45	4 805	5 472	6 038	6 517	6 920	7 263	7 557	-	-
50	-	5 605	6 289	6 875	7 377	7 808	8 181	-	-
55	-	-	6 486	7 194	7 809	8 344	8 810	-	-
60	-	-	-	7 466	8 209	8 862	9 437	-	-
65	-	-	-	7 682	8 568	9 353	10 053	-	-
Current consumption in A									
35	9.96	10.40	10.81	11.16	11.44	11.63	11.69	-	-
40	10.08	10.62	11.13	11.58	11.96	12.24	12.41	-	-
45	10.14	10.81	11.44	12.01	12.50	12.90	13.18	-	-
50	-	10.94	11.71	12.42	13.05	13.58	14.00	-	-
55	-	-	11.93	12.79	13.58	14.27	14.84	-	-
60	-	-	-	13.12	14.08	14.94	15.68	-	-
65	-	-	-	13.38	14.54	15.59	16.52	-	-
Mass flow in kg/h									
35	199	266	345	436	542	663	801	-	-
40	186	252	330	420	524	644	779	-	-
45	173	238	314	403	505	622	755	-	-
50	-	223	297	384	484	598	729	-	-
55	-	-	280	364	461	573	701	-	-
60	-	-	-	343	437	546	670	-	-
65	-	-	-	321	412	518	638	-	-
Coefficient of performance (C.O.P.)									
35	2.16	2.67	3.27	3.98	4.80	5.75	6.83	-	-
40	1.88	2.31	2.83	3.43	4.12	4.93	5.84	-	-
45	1.63	2.01	2.44	2.95	3.54	4.21	4.98	-	-
50	-	1.74	2.11	2.54	3.03	3.59	4.24	-	-
55	-	-	1.82	2.18	2.58	3.06	3.59	-	-
60	-	-	-	1.86	2.20	2.59	3.04	-	-
65	-	-	-	1.59	1.86	2.18	2.55	-	-

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

Cooling capacity	22 699	W
Power input	7 997	W
Current consumption	13.83	A
Mass flow	511	kg/h
C.O.P.	2.84	

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	0	dB(A)
With accoustic hood	0	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	5 871	8 009	10 634	13 810	17 602	22 075	27 296	33 328	-
40	5 232	7 253	9 733	12 736	16 326	20 570	25 531	31 276	-
45	4 658	6 545	8 863	11 676	15 048	19 044	23 730	29 169	-
50	4 155	5 892	8 031	10 637	13 774	17 506	21 899	27 016	-
55	3 728	5 298	7 243	9 626	12 511	15 963	20 045	24 822	-
60	-	4 770	6 504	8 648	11 265	14 419	18 174	22 594	-
65	-	-	-	7 709	10 042	12 883	16 294	20 340	-
70	-	-	-	-	-	11 359	14 409	18 064	-
Power input in W									
35	3 052	3 383	3 675	3 913	4 080	4 162	4 144	4 010	-
40	3 162	3 524	3 854	4 137	4 358	4 501	4 550	4 492	-
45	3 247	3 645	4 018	4 352	4 630	4 839	4 962	4 984	-
50	3 305	3 743	4 165	4 554	4 896	5 175	5 376	5 483	-
55	3 333	3 817	4 291	4 741	5 151	5 505	5 789	5 987	-
60	-	3 863	4 395	4 910	5 393	5 827	6 199	6 492	-
65	-	-	-	5 058	5 618	6 138	6 602	6 995	-
70	-	-	-	-	-	6 435	6 996	7 495	-
Current consumption in A									
35	8.25	8.52	8.75	8.95	9.09	9.16	9.17	9.08	-
40	8.30	8.60	8.88	9.13	9.33	9.48	9.56	9.57	-
45	8.33	8.67	9.00	9.31	9.58	9.81	9.98	10.08	-
50	8.34	8.74	9.12	9.50	9.84	10.15	10.41	10.61	-
55	8.34	8.79	9.24	9.68	10.10	10.50	10.86	11.16	-
60	-	8.82	9.34	9.86	10.37	10.86	11.32	11.74	-
65	-	-	-	10.04	10.64	11.23	11.80	12.33	-
70	-	-	-	-	-	11.60	12.29	12.95	-
Mass flow in kg/h									
35	143	190	247	314	392	483	587	705	-
40	133	181	237	304	381	471	574	692	-
45	125	172	228	293	370	458	560	676	-
50	119	164	218	282	357	444	544	658	-
55	114	157	210	272	345	429	527	638	-
60	-	152	202	261	332	413	508	617	-
65	-	-	-	252	319	397	489	593	-
70	-	-	-	-	-	381	468	569	-
Coefficient of performance (C.O.P.)									
35	1.92	2.37	2.89	3.53	4.31	5.30	6.59	8.31	-
40	1.65	2.06	2.53	3.08	3.75	4.57	5.61	6.96	-
45	1.43	1.80	2.21	2.68	3.25	3.94	4.78	5.85	-
50	1.26	1.57	1.93	2.34	2.81	3.38	4.07	4.93	-
55	1.12	1.39	1.69	2.03	2.43	2.90	3.46	4.15	-
60	-	1.23	1.48	1.76	2.09	2.47	2.93	3.48	-
65	-	-	-	1.52	1.79	2.10	2.47	2.91	-
70	-	-	-	-	-	1.77	2.06	2.41	-

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

Cooling capacity	13 774	W
Power input	4 896	W
Current consumption	9.84	A
Mass flow	357	kg/h
C.O.P.	2.81	

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)

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

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15	20	
Cooling capacity in W									
35	6 359	8 661	11 480	14 886	18 945	23 726	29 295	35 722	-
40	5 698	7 884	10 561	13 795	17 655	22 209	27 524	33 667	-
45	5 104	7 157	9 673	12 718	16 360	20 669	25 710	31 553	-
50	4 586	6 487	8 823	11 661	15 068	19 113	23 863	29 386	-
55	4 150	5 881	8 019	10 631	13 785	17 548	21 988	27 174	-
60	-	5 346	7 268	9 636	12 518	15 981	20 094	24 924	-
65	-	-	-	8 682	11 274	14 419	18 186	22 642	-
70	-	-	-	-	-	12 869	16 272	20 335	-
Power input in W									
35	3 052	3 383	3 675	3 913	4 080	4 162	4 144	4 010	-
40	3 162	3 524	3 854	4 137	4 358	4 501	4 550	4 492	-
45	3 247	3 645	4 018	4 352	4 630	4 839	4 962	4 984	-
50	3 305	3 743	4 165	4 554	4 896	5 175	5 376	5 483	-
55	3 333	3 817	4 291	4 741	5 151	5 505	5 789	5 987	-
60	-	3 863	4 395	4 910	5 393	5 827	6 199	6 492	-
65	-	-	-	5 058	5 618	6 138	6 602	6 995	-
70	-	-	-	-	-	6 435	6 996	7 495	-
Current consumption in A									
35	8.25	8.52	8.75	8.95	9.09	9.16	9.17	9.08	-
40	8.30	8.60	8.88	9.13	9.33	9.48	9.56	9.57	-
45	8.33	8.67	9.00	9.31	9.58	9.81	9.98	10.08	-
50	8.34	8.74	9.12	9.50	9.84	10.15	10.41	10.61	-
55	8.34	8.79	9.24	9.68	10.10	10.50	10.86	11.16	-
60	-	8.82	9.34	9.86	10.37	10.86	11.32	11.74	-
65	-	-	-	10.04	10.64	11.23	11.80	12.33	-
70	-	-	-	-	-	11.60	12.29	12.95	-
Mass flow in kg/h									
35	142	189	246	312	390	480	584	701	-
40	133	180	236	302	379	469	571	688	-
45	125	171	226	292	368	456	557	672	-
50	118	163	217	281	355	442	541	654	-
55	113	156	209	270	343	427	524	635	-
60	-	151	201	260	330	411	505	613	-
65	-	-	-	250	317	395	486	590	-
70	-	-	-	-	-	379	466	566	-
Coefficient of performance (C.O.P.)									
35	2.08	2.56	3.12	3.80	4.64	5.70	7.07	8.91	-
40	1.80	2.24	2.74	3.33	4.05	4.93	6.05	7.50	-
45	1.57	1.96	2.41	2.92	3.53	4.27	5.18	6.33	-
50	1.39	1.73	2.12	2.56	3.08	3.69	4.44	5.36	-
55	1.24	1.54	1.87	2.24	2.68	3.19	3.80	4.54	-
60	-	1.38	1.65	1.96	2.32	2.74	3.24	3.84	-
65	-	-	-	1.72	2.01	2.35	2.75	3.24	-
70	-	-	-	-	-	2.00	2.33	2.71	-

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

Cooling capacity	15 530	W
Power input	5 281	W
Current consumption	10.25	A
Mass flow	380	kg/h
C.O.P.	2.94	

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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	5 175	7 248	9 826	12 976	16 759	21 239	26 480	32 545	39 497
35	4 560	6 501	8 892	11 797	15 279	19 402	24 229	29 823	36 249
40	3 917	5 730	7 937	10 602	13 787	17 556	21 973	27 101	33 003
45	3 242	4 932	6 959	9 387	12 279	15 698	19 709	24 374	29 756
50	2 532	4 103	5 953	8 148	10 751	13 825	17 433	21 638	26 505
55	-	3 239	4 917	6 883	9 200	11 932	15 141	18 891	23 247
60	-	2 337	3 846	5 587	7 623	10 016	12 830	16 129	19 977
Power input in W									
30	3 997	4 532	5 003	5 409	5 750	6 025	6 233	6 374	6 447
35	4 063	4 676	5 223	5 704	6 117	6 461	6 736	6 942	7 077
40	4 069	4 769	5 401	5 963	6 456	6 877	7 227	7 505	7 710
45	4 008	4 802	5 526	6 178	6 758	7 265	7 697	8 055	8 338
50	3 870	4 767	5 590	6 340	7 015	7 614	8 137	8 583	8 951
55	-	4 653	5 584	6 439	7 217	7 917	8 538	9 079	9 541
60	-	4 452	5 499	6 467	7 355	8 163	8 890	9 535	10 098
Current consumption in A									
30	9.32	9.80	10.28	10.72	11.12	11.45	11.70	11.84	11.87
35	9.35	9.92	10.47	11.00	11.48	11.89	12.22	12.45	12.57
40	9.34	10.00	10.65	11.28	11.85	12.36	12.79	13.12	13.33
45	9.28	10.04	10.80	11.53	12.21	12.83	13.37	13.82	14.14
50	9.11	10.00	10.88	11.73	12.53	13.28	13.94	14.51	14.96
55	-	9.85	10.86	11.84	12.78	13.66	14.46	15.17	15.76
60	-	9.56	10.72	11.85	12.94	13.96	14.92	15.77	16.51
Mass flow in kg/h									
30	164	223	294	378	477	592	724	875	1 046
35	155	215	285	368	464	575	702	848	1 013
40	144	205	275	356	450	558	681	822	981
45	131	192	262	343	435	540	660	796	949
50	113	176	247	327	418	521	637	769	918
55	-	157	228	308	398	499	613	741	885
60	-	132	205	286	375	475	586	711	851
Coefficient of performance (C.O.P.)									
30	1.29	1.60	1.96	2.40	2.91	3.53	4.25	5.11	6.13
35	1.12	1.39	1.70	2.07	2.50	3.00	3.60	4.30	5.12
40	0.96	1.20	1.47	1.78	2.14	2.55	3.04	3.61	4.28
45	0.81	1.03	1.26	1.52	1.82	2.16	2.56	3.03	3.57
50	0.65	0.86	1.06	1.29	1.53	1.82	2.14	2.52	2.96
55	-	0.70	0.88	1.07	1.27	1.51	1.77	2.08	2.44
60	-	0.52	0.70	0.86	1.04	1.23	1.44	1.69	1.98

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

Cooling capacity	12 279	W
Power input	6 758	W
Current consumption	12.21	A
Mass flow	435	kg/h
C.O.P.	1.82	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

CERTIFIED PERFORMANCE 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	84.7	dB(A)
With accoustic hood	0	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	5 761	8 046	10 881	14 333	18 469	23 356	29 059	35 644	43 177
35	5 131	7 291	9 943	13 154	16 992	21 523	26 814	32 931	39 941
40	4 465	6 508	8 982	11 958	15 502	19 682	24 566	30 220	36 712
45	3 758	5 690	7 994	10 740	13 996	17 832	22 314	27 512	33 491
50	3 000	4 832	6 974	9 498	12 474	15 972	20 060	24 808	30 284
55	-	3 924	5 917	8 230	10 935	14 106	17 810	22 119	27 103
60	-	2 954	4 817	6 936	9 387	12 245	15 582	19 470	23 980
Power input in W									
30	3 997	4 532	5 003	5 409	5 750	6 025	6 233	6 374	6 447
35	4 063	4 676	5 223	5 704	6 117	6 461	6 736	6 942	7 077
40	4 069	4 769	5 401	5 963	6 456	6 877	7 227	7 505	7 710
45	4 008	4 802	5 526	6 178	6 758	7 265	7 697	8 055	8 338
50	3 870	4 767	5 590	6 340	7 015	7 614	8 137	8 583	8 951
55	-	4 653	5 584	6 439	7 217	7 917	8 538	9 079	9 541
60	-	4 452	5 499	6 467	7 355	8 163	8 890	9 535	10 098
Current consumption in A									
30	9.32	9.80	10.28	10.72	11.12	11.45	11.70	11.84	11.87
35	9.35	9.92	10.47	11.00	11.48	11.89	12.22	12.45	12.57
40	9.34	10.00	10.65	11.28	11.85	12.36	12.79	13.12	13.33
45	9.28	10.04	10.80	11.53	12.21	12.83	13.37	13.82	14.14
50	9.11	10.00	10.88	11.73	12.53	13.28	13.94	14.51	14.96
55	-	9.85	10.86	11.84	12.78	13.66	14.46	15.17	15.76
60	-	9.56	10.72	11.85	12.94	13.96	14.92	15.77	16.51
Mass flow in kg/h									
30	163	222	293	376	474	588	719	869	1 039
35	154	214	284	366	461	571	698	842	1 006
40	143	204	273	354	447	554	677	816	974
45	130	191	261	341	432	537	655	790	943
50	113	175	246	325	415	517	633	764	911
55	-	156	227	307	396	496	609	736	879
60	-	131	204	284	373	472	583	707	845
Coefficient of performance (C.O.P.)									
30	1.44	1.78	2.18	2.65	3.21	3.88	4.66	5.59	6.70
35	1.26	1.56	1.90	2.31	2.78	3.33	3.98	4.74	5.64
40	1.10	1.36	1.66	2.01	2.40	2.86	3.40	4.03	4.76
45	0.94	1.18	1.45	1.74	2.07	2.45	2.90	3.42	4.02
50	0.78	1.01	1.25	1.50	1.78	2.10	2.47	2.89	3.38
55	-	0.84	1.06	1.28	1.52	1.78	2.09	2.44	2.84
60	-	0.66	0.88	1.07	1.28	1.50	1.75	2.04	2.37

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

Cooling capacity	13 996	W
Power input	6 758	W
Current consumption	12.21	A
Mass flow	432	kg/h
C.O.P.	2.07	

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	84.7	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

Performance data at 60 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	11 781	15 688	20 352	25 874	32 351	39 883	48 568	-	-
40	10 671	14 369	18 765	23 957	30 044	37 125	45 296	-	-
45	9 537	13 026	17 154	22 019	27 717	34 346	42 005	-	-
50	-	11 663	15 524	20 060	25 370	31 549	38 696	-	-
55	-	-	13 875	18 084	23 005	28 735	35 370	-	-
60	-	-	-	16 092	20 624	25 903	32 024	-	-
65	-	-	-	14 084	18 225	23 050	28 655	-	-
Power input in W									
35	5 651	6 195	6 630	6 987	7 296	7 587	7 891	-	-
40	5 849	6 524	7 068	7 511	7 883	8 215	8 537	-	-
45	5 954	6 787	7 465	8 020	8 482	8 880	9 246	-	-
50	-	6 968	7 807	8 500	9 076	9 567	10 003	-	-
55	-	-	8 077	8 933	9 651	10 260	10 792	-	-
60	-	-	-	9 306	10 191	10 944	11 597	-	-
65	-	-	-	9 602	10 679	11 603	12 404	-	-
Current consumption in A									
35	9.60	10.15	10.64	11.06	11.41	11.71	11.96	-	-
40	9.80	10.48	11.06	11.57	11.99	12.34	12.62	-	-
45	9.92	10.75	11.48	12.11	12.64	13.08	13.42	-	-
50	-	10.95	11.86	12.64	13.32	13.87	14.32	-	-
55	-	-	12.15	13.14	13.98	14.70	15.29	-	-
60	-	-	-	13.54	14.60	15.51	16.28	-	-
65	-	-	-	13.84	15.14	16.28	17.26	-	-
Mass flow in kg/h									
35	256	335	427	535	658	800	962	-	-
40	243	322	414	519	641	780	939	-	-
45	230	308	398	503	622	759	915	-	-
50	-	292	382	484	602	737	889	-	-
55	-	-	363	465	580	712	862	-	-
60	-	-	-	443	557	686	833	-	-
65	-	-	-	419	531	658	801	-	-
Coefficient of performance (C.O.P.)									
35	2.08	2.53	3.07	3.70	4.43	5.26	6.16	-	-
40	1.82	2.20	2.65	3.19	3.81	4.52	5.31	-	-
45	1.60	1.92	2.30	2.75	3.27	3.87	4.54	-	-
50	-	1.67	1.99	2.36	2.80	3.30	3.87	-	-
55	-	-	1.72	2.02	2.38	2.80	3.28	-	-
60	-	-	-	1.73	2.02	2.37	2.76	-	-
65	-	-	-	1.47	1.71	1.99	2.31	-	-

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

Cooling capacity	25 370	W
Power input	9 076	W
Current consumption	13.32	A
Mass flow	602	kg/h
C.O.P.	2.80	

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

Sound power data

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

All performance data +/- 5%

Performance data at 60 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	12 681	16 865	21 854	27 751	34 661	42 685	51 928	-	-
40	11 549	15 529	20 253	25 825	32 348	39 925	48 659	-	-
45	10 387	14 165	18 627	23 875	30 013	37 143	45 371	-	-
50	-	12 776	16 977	21 902	27 657	34 344	42 066	-	-
55	-	-	15 304	19 910	25 283	31 527	38 746	-	-
60	-	-	-	17 899	22 892	28 696	35 413	-	-
65	-	-	-	15 872	20 487	25 852	32 070	-	-
Power input in W									
35	5 651	6 195	6 630	6 987	7 296	7 587	7 891	-	-
40	5 849	6 524	7 068	7 511	7 883	8 215	8 537	-	-
45	5 954	6 787	7 465	8 020	8 482	8 880	9 246	-	-
50	-	6 968	7 807	8 500	9 076	9 567	10 003	-	-
55	-	-	8 077	8 933	9 651	10 260	10 792	-	-
60	-	-	-	9 306	10 191	10 944	11 597	-	-
65	-	-	-	9 602	10 679	11 603	12 404	-	-
Current consumption in A									
35	9.60	10.15	10.64	11.06	11.41	11.71	11.96	-	-
40	9.80	10.48	11.06	11.57	11.99	12.34	12.62	-	-
45	9.92	10.75	11.48	12.11	12.64	13.08	13.42	-	-
50	-	10.95	11.86	12.64	13.32	13.87	14.32	-	-
55	-	-	12.15	13.14	13.98	14.70	15.29	-	-
60	-	-	-	13.54	14.60	15.51	16.28	-	-
65	-	-	-	13.84	15.14	16.28	17.26	-	-
Mass flow in kg/h									
35	254	333	425	532	655	796	956	-	-
40	242	320	411	516	637	776	933	-	-
45	229	306	396	500	619	755	909	-	-
50	-	291	380	482	599	732	884	-	-
55	-	-	361	462	577	708	856	-	-
60	-	-	-	440	553	682	827	-	-
65	-	-	-	417	528	654	796	-	-
Coefficient of performance (C.O.P.)									
35	2.24	2.72	3.30	3.97	4.75	5.63	6.58	-	-
40	1.97	2.38	2.87	3.44	4.10	4.86	5.70	-	-
45	1.74	2.09	2.50	2.98	3.54	4.18	4.91	-	-
50	-	1.83	2.17	2.58	3.05	3.59	4.21	-	-
55	-	-	1.89	2.23	2.62	3.07	3.59	-	-
60	-	-	-	1.92	2.25	2.62	3.05	-	-
65	-	-	-	1.65	1.92	2.23	2.59	-	-

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

Cooling capacity	28 225	W
Power input	9 856	W
Current consumption	14.23	A
Mass flow	635	kg/h
C.O.P.	2.86	

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	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

Performance data at 60 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	7 231	9 920	13 165	17 033	21 593	26 914	33 064	40 114	-
40	6 349	8 913	12 001	15 684	20 028	25 103	30 977	37 720	-
45	5 487	7 906	10 821	14 299	18 409	23 220	28 799	35 216	-
50	4 649	6 906	9 628	12 884	16 742	21 270	26 536	32 608	-
55	3 841	5 917	8 430	11 446	15 033	19 260	24 193	29 902	-
60	-	4 946	7 231	9 989	13 288	17 195	21 777	27 103	-
65	-	-	-	8 521	11 513	15 082	19 295	24 219	-
70	-	-	-	-	-	12 929	16 752	21 255	-
Power input in W									
35	3 684	4 181	4 629	5 006	5 291	5 462	5 497	5 375	-
40	3 759	4 294	4 788	5 220	5 570	5 814	5 932	5 902	-
45	3 796	4 373	4 920	5 414	5 834	6 158	6 365	6 433	-
50	3 788	4 415	5 020	5 581	6 078	6 488	6 789	6 961	-
55	3 729	4 412	5 081	5 716	6 295	6 796	7 199	7 480	-
60	-	4 358	5 097	5 812	6 479	7 078	7 587	7 984	-
65	-	-	-	5 862	6 624	7 327	7 948	8 467	-
70	-	-	-	-	-	7 536	8 276	8 923	-
Current consumption in A									
35	7.48	7.88	8.24	8.56	8.82	9.00	9.10	9.09	-
40	7.57	8.00	8.42	8.79	9.12	9.39	9.58	9.67	-
45	7.60	8.09	8.56	9.00	9.41	9.76	10.04	10.25	-
50	7.59	8.12	8.66	9.18	9.67	10.11	10.50	10.82	-
55	7.52	8.12	8.72	9.32	9.90	10.44	10.94	11.38	-
60	-	8.06	8.74	9.43	10.10	10.75	11.37	11.93	-
65	-	-	-	9.50	10.28	11.04	11.78	12.47	-
70	-	-	-	-	-	11.30	12.17	13.00	-
Mass flow in kg/h									
35	175	236	306	387	481	589	711	849	-
40	162	222	292	374	468	575	697	834	-
45	147	208	278	359	452	559	680	816	-
50	133	192	262	342	434	540	659	794	-
55	117	175	244	323	414	518	636	769	-
60	-	157	224	302	391	493	609	740	-
65	-	-	-	278	365	464	578	706	-
70	-	-	-	-	-	432	543	668	-
Coefficient of performance (C.O.P.)									
35	1.96	2.37	2.84	3.40	4.08	4.93	6.02	7.46	-
40	1.69	2.08	2.51	3.00	3.60	4.32	5.22	6.39	-
45	1.45	1.81	2.20	2.64	3.16	3.77	4.52	5.47	-
50	1.23	1.56	1.92	2.31	2.75	3.28	3.91	4.68	-
55	1.03	1.34	1.66	2.00	2.39	2.83	3.36	4.00	-
60	-	1.14	1.42	1.72	2.05	2.43	2.87	3.39	-
65	-	-	-	1.45	1.74	2.06	2.43	2.86	-
70	-	-	-	-	-	1.72	2.02	2.38	-

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

Cooling capacity	16 742	W
Power input	6 078	W
Current consumption	9.67	A
Mass flow	434	kg/h
C.O.P.	2.75	

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)

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 60 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	7 832	10 727	14 213	18 360	23 240	28 926	35 487	42 996	-
40	6 915	9 688	13 022	16 988	21 658	27 103	33 395	40 604	-
45	6 013	8 645	11 809	15 575	20 015	25 200	31 203	38 094	-
50	5 132	7 604	10 577	14 124	18 315	23 222	28 916	35 469	-
55	4 276	6 569	9 333	12 641	16 563	21 172	26 539	32 735	-
60	-	5 544	8 080	11 130	14 765	19 057	24 077	29 897	-
65	-	-	-	9 597	12 925	16 881	21 535	26 960	-
70	-	-	-	-	-	14 648	18 917	23 927	-
Power input in W									
35	3 684	4 181	4 629	5 006	5 291	5 462	5 497	5 375	-
40	3 759	4 294	4 788	5 220	5 570	5 814	5 932	5 902	-
45	3 796	4 373	4 920	5 414	5 834	6 158	6 365	6 433	-
50	3 788	4 415	5 020	5 581	6 078	6 488	6 789	6 961	-
55	3 729	4 412	5 081	5 716	6 295	6 796	7 199	7 480	-
60	-	4 358	5 097	5 812	6 479	7 078	7 587	7 984	-
65	-	-	-	5 862	6 624	7 327	7 948	8 467	-
70	-	-	-	-	-	7 536	8 276	8 923	-
Current consumption in A									
35	7.48	7.88	8.24	8.56	8.82	9.00	9.10	9.09	-
40	7.57	8.00	8.42	8.79	9.12	9.39	9.58	9.67	-
45	7.60	8.09	8.56	9.00	9.41	9.76	10.04	10.25	-
50	7.59	8.12	8.66	9.18	9.67	10.11	10.50	10.82	-
55	7.52	8.12	8.72	9.32	9.90	10.44	10.94	11.38	-
60	-	8.06	8.74	9.43	10.10	10.75	11.37	11.93	-
65	-	-	-	9.50	10.28	11.04	11.78	12.47	-
70	-	-	-	-	-	11.30	12.17	13.00	-
Mass flow in kg/h									
35	175	234	304	385	479	586	707	844	-
40	161	221	291	372	465	572	693	829	-
45	147	207	276	357	450	556	676	811	-
50	132	191	260	340	432	537	656	790	-
55	116	175	243	321	412	515	632	765	-
60	-	156	223	300	389	490	605	735	-
65	-	-	-	276	363	462	575	702	-
70	-	-	-	-	-	430	540	665	-
Coefficient of performance (C.O.P.)									
35	2.13	2.57	3.07	3.67	4.39	5.30	6.46	8.00	-
40	1.84	2.26	2.72	3.25	3.89	4.66	5.63	6.88	-
45	1.58	1.98	2.40	2.88	3.43	4.09	4.90	5.92	-
50	1.35	1.72	2.11	2.53	3.01	3.58	4.26	5.10	-
55	1.15	1.49	1.84	2.21	2.63	3.12	3.69	4.38	-
60	-	1.27	1.59	1.92	2.28	2.69	3.17	3.74	-
65	-	-	-	1.64	1.95	2.30	2.71	3.18	-
70	-	-	-	-	-	1.94	2.29	2.68	-

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

Cooling capacity	18 731	W
Power input	6 497	W
Current consumption	10.11	A
Mass flow	458	kg/h
C.O.P.	2.88	

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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

Performance data at 60 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	6 602	9 153	12 243	15 941	20 316	25 437	31 375	38 199	45 981
35	5 637	8 021	10 896	14 333	18 401	23 169	28 707	35 086	42 375
40	4 697	6 902	9 553	12 719	16 470	20 875	26 004	31 926	38 712
45	3 787	5 804	8 220	11 106	14 530	18 562	23 272	28 728	35 002
50	2 916	4 734	6 907	9 502	12 590	16 239	20 519	25 500	31 251
55	-	3 701	5 619	7 914	10 655	13 912	17 753	22 248	27 467
60	-	2 712	4 366	6 351	8 735	11 589	14 980	18 979	23 655
Power input in W									
30	4 956	5 637	6 215	6 697	7 090	7 403	7 642	7 816	7 932
35	4 912	5 701	6 385	6 970	7 464	7 875	8 210	8 477	8 684
40	4 796	5 699	6 494	7 188	7 789	8 303	8 740	9 105	9 408
45	4 606	5 630	6 542	7 350	8 062	8 686	9 229	9 699	10 103
50	4 342	5 491	6 525	7 453	8 283	9 021	9 676	10 255	10 767
55	-	5 280	6 443	7 496	8 449	9 307	10 080	10 774	11 398
60	-	4 997	6 293	7 477	8 558	9 542	10 438	11 253	11 994
Current consumption in A									
30	8.74	9.42	10.03	10.57	11.01	11.36	11.61	11.74	11.75
35	8.70	9.48	10.20	10.84	11.40	11.87	12.25	12.51	12.66
40	8.60	9.48	10.31	11.07	11.75	12.34	12.85	13.25	13.54
45	8.42	9.41	10.35	11.23	12.04	12.77	13.41	13.95	14.39
50	8.16	9.27	10.33	11.34	12.28	13.14	13.93	14.62	15.21
55	-	9.05	10.24	11.38	12.45	13.47	14.40	15.25	16.00
60	-	8.75	10.07	11.35	12.57	13.73	14.82	15.82	16.74
Mass flow in kg/h									
30	208	282	368	466	579	709	856	1 022	1 209
35	192	265	350	448	560	688	833	997	1 182
40	173	247	331	428	538	665	808	970	1 152
45	153	226	310	406	515	640	781	941	1 120
50	131	204	287	381	489	612	751	909	1 086
55	-	180	262	355	462	583	720	874	1 048
60	-	154	235	327	432	551	685	837	1 009
Coefficient of performance (C.O.P.)									
30	1.33	1.62	1.97	2.38	2.87	3.44	4.11	4.89	5.80
35	1.15	1.41	1.71	2.06	2.47	2.94	3.50	4.14	4.88
40	0.98	1.21	1.47	1.77	2.11	2.51	2.98	3.51	4.11
45	0.82	1.03	1.26	1.51	1.80	2.14	2.52	2.96	3.46
50	0.67	0.86	1.06	1.27	1.52	1.80	2.12	2.49	2.90
55	-	0.70	0.87	1.06	1.26	1.49	1.76	2.06	2.41
60	-	0.54	0.69	0.85	1.02	1.21	1.44	1.69	1.97

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

Cooling capacity	14 530	W
Power input	8 062	W
Current consumption	12.04	A
Mass flow	515	kg/h
C.O.P.	1.80	

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

Sound power data

Sound power level	87.1	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

Performance data at 60 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	7 349	10 162	13 557	17 608	22 389	27 972	34 430	41 837	50 265
35	6 343	8 996	12 184	15 982	20 463	25 701	31 769	38 741	46 690
40	5 354	7 838	10 810	14 345	18 518	23 402	29 072	35 601	43 063
45	4 389	6 696	9 443	12 707	16 563	21 085	26 348	32 427	39 395
50	3 454	5 576	8 091	11 076	14 607	18 761	23 612	29 235	35 706
55	-	4 485	6 762	9 463	12 665	16 446	20 882	26 049	32 022
60	-	3 429	5 467	7 884	10 758	14 168	18 194	22 911	28 396
Power input in W									
30	4 956	5 637	6 215	6 697	7 090	7 403	7 642	7 816	7 932
35	4 912	5 701	6 385	6 970	7 464	7 875	8 210	8 477	8 684
40	4 796	5 699	6 494	7 188	7 789	8 303	8 740	9 105	9 408
45	4 606	5 630	6 542	7 350	8 062	8 686	9 229	9 699	10 103
50	4 342	5 491	6 525	7 453	8 283	9 021	9 676	10 255	10 767
55	-	5 280	6 443	7 496	8 449	9 307	10 080	10 774	11 398
60	-	4 997	6 293	7 477	8 558	9 542	10 438	11 253	11 994
Current consumption in A									
30	8.74	9.42	10.03	10.57	11.01	11.36	11.61	11.74	11.75
35	8.70	9.48	10.20	10.84	11.40	11.87	12.25	12.51	12.66
40	8.60	9.48	10.31	11.07	11.75	12.34	12.85	13.25	13.54
45	8.42	9.41	10.35	11.23	12.04	12.77	13.41	13.95	14.39
50	8.16	9.27	10.33	11.34	12.28	13.14	13.93	14.62	15.21
55	-	9.05	10.24	11.38	12.45	13.47	14.40	15.25	16.00
60	-	8.75	10.07	11.35	12.57	13.73	14.82	15.82	16.74
Mass flow in kg/h									
30	207	281	366	463	576	704	850	1 015	1 201
35	191	264	348	445	556	683	828	991	1 174
40	172	245	329	425	535	661	803	964	1 144
45	152	225	308	403	512	636	776	934	1 112
50	131	203	285	379	487	609	747	903	1 078
55	-	179	260	353	459	579	715	869	1 041
60	-	153	233	325	429	547	681	832	1 002
Coefficient of performance (C.O.P.)									
30	1.48	1.80	2.18	2.63	3.16	3.78	4.51	5.35	6.34
35	1.29	1.58	1.91	2.29	2.74	3.26	3.87	4.57	5.38
40	1.12	1.38	1.66	2.00	2.38	2.82	3.33	3.91	4.58
45	0.95	1.19	1.44	1.73	2.05	2.43	2.85	3.34	3.90
50	0.80	1.02	1.24	1.49	1.76	2.08	2.44	2.85	3.32
55	-	0.85	1.05	1.26	1.50	1.77	2.07	2.42	2.81
60	-	0.69	0.87	1.05	1.26	1.48	1.74	2.04	2.37

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

Cooling capacity	16 563	W
Power input	8 062	W
Current consumption	12.04	A
Mass flow	512	kg/h
C.O.P.	2.05	

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	87.1	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%