General Characteristics

Model number (on compressor nameplate)		**VTZ215AGNR1A**
Code number for Singlepack*		120B0006
Drawing number		8504018a
Suction and discharge connections		Rotolock
Suction connection		1-3/4 " Rotolock
Discharge connection		1-1/4 " Rotolock
Suction connection with supplied sleeve		1-1/8 " ODF
Discharge connection with supplied sleeve		3/4 " 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	4	
Swept volume	215.44 cm3/rev	
Net weight	64 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	

Electrical Characteristics

Nominal voltage	Frequency converter CD302 required with supply voltage 380-480V/3/50-60Hz
Voltage range	342-528 V supply to frequency converter
Winding resistance (between phases) +/- 7% at 25ºC	0.47 Ω
Rated Load Amps (RLA)	40.8 A
Maximum Must Trip current (MMT)	51 A
Locked Rotor Amps (LRA)	197 A
Motor protection	Motor protection by frequency converter

Recommended Installation torques

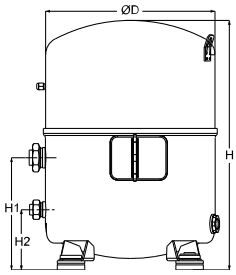
Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	50 Nm

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

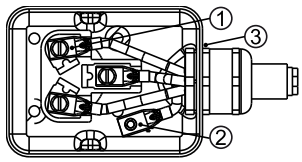
Approvals : CE certified, UL certified when connected to frequency converter, -
*Singlepack: Compressor in cardboard box
-

Dimensions



D=352 mm
H=518 mm
H1=233 mm
H2=125 mm
H3=- mm

Terminal box



IP54 (with cable gland)
1: Power connection, 3 x 4.8 mm (3/16")
2: Earth M4
3: Hole Ø 33 mm (1.30")

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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

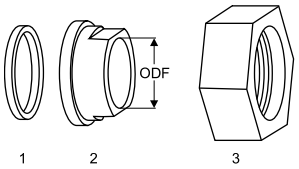
Oil / lubricants	Code no.
POE lubricant, 160PZ, 1 litre can	7754019
POE lubricant, 160PZ, 2.5 litre can	120Z0573

Crankcase heaters	Code no.
PTC heater 27W,CE mark, UL	120Z0459
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, 460 V, CE mark, UL	120Z0464

Miscellaneous accessories	Code no.
Acoustic hood for 4 cylinder compressor	120Z0473
Oil equalisation nut	8153127

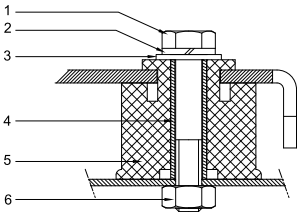
Spare parts	Code no.
Mounting kit for 4 cylinder compressor & MS, including 4 grommets, 4 bolts	8156007
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Terminal box incl cover	120Z0146
Terminal box cover	120Z0149
T block connector 52 x 57 mm	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)

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Performance data at 30 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	4 684	6 195	8 007	10 158	12 687	15 632	19 030	-	-
40	4 288	5 736	7 468	9 524	11 939	14 754	18 005	-	-
45	3 878	5 258	6 905	8 859	11 156	13 835	16 933	-	-
50	3 458	4 765	6 322	8 169	10 342	12 880	15 821	-	-
55	3 034	4 262	5 725	7 459	9 503	11 894	14 672	-	-
60	-	-	5 117	6 734	8 643	10 883	13 492	-	-
65	-	-	-	5 999	7 768	9 852	12 287	-	-
70	-	-	-	-	-	8 805	11 061	-	-
Power input in W									
35	2 683	2 938	3 167	3 384	3 603	3 839	4 107	-	-
40	2 774	3 068	3 327	3 564	3 794	4 033	4 294	-	-
45	2 843	3 187	3 486	3 755	4 007	4 259	4 524	-	-
50	2 877	3 281	3 631	3 942	4 227	4 502	4 782	-	-
55	2 861	3 336	3 748	4 111	4 440	4 749	5 054	-	-
60	-	-	3 821	4 247	4 631	4 985	5 326	-	-
65	-	-	-	4 338	4 786	5 196	5 584	-	-
70	-	-	-	-	-	5 368	5 813	-	-
Current consumption in A									
35	5.80	6.40	6.81	7.11	7.36	7.63	8.01	-	-
40	6.00	6.70	7.19	7.56	7.86	8.18	8.59	-	-
45	6.14	6.93	7.51	7.94	8.31	8.68	9.12	-	-
50	6.22	7.11	7.77	8.27	8.70	9.11	9.59	-	-
55	6.25	7.24	7.98	8.56	9.04	9.50	10.02	-	-
60	-	-	8.15	8.80	9.34	9.85	10.40	-	-
65	-	-	-	9.01	9.61	10.17	10.76	-	-
70	-	-	-	-	-	10.46	11.08	-	-
Mass flow in kg/h									
35	114	147	186	232	283	343	410	-	-
40	110	144	183	228	280	339	406	-	-
45	105	139	178	223	275	334	401	-	-
50	99	133	173	218	269	328	395	-	-
55	93	127	166	211	262	321	387	-	-
60	-	-	159	204	255	313	378	-	-
65	-	-	-	195	245	303	368	-	-
70	-	-	-	-	-	292	356	-	-
Coefficient of performance (C.O.P.)									
35	1.75	2.11	2.53	3.00	3.52	4.07	4.63	-	-
40	1.55	1.87	2.24	2.67	3.15	3.66	4.19	-	-
45	1.36	1.65	1.98	2.36	2.78	3.25	3.74	-	-
50	1.20	1.45	1.74	2.07	2.45	2.86	3.31	-	-
55	1.06	1.28	1.53	1.81	2.14	2.50	2.90	-	-
60	-	-	1.34	1.59	1.87	2.18	2.53	-	-
65	-	-	-	1.38	1.62	1.90	2.20	-	-
70	-	-	-	-	-	1.64	1.90	-	-

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

Cooling capacity	10 342	W
Power input	4 227	W
Current consumption	8.70	A
Mass flow	269	kg/h
C.O.P.	2.45	

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

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Performance data at 30 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	5 074	6 698	8 643	10 949	13 654	16 799	20 423	-	-
40	4 670	6 235	8 103	10 315	12 910	15 928	19 409	-	-
45	4 249	5 749	7 535	9 648	12 128	15 013	18 345	-	-
50	3 816	5 246	6 945	8 953	11 312	14 060	17 238	-	-
55	3 377	4 731	6 337	8 236	10 468	13 074	16 093	-	-
60	-	-	5 717	7 501	9 602	12 060	14 915	-	-
65	-	-	-	6 755	8 720	11 025	13 712	-	-
70	-	-	-	-	-	9 975	12 490	-	-
Power input in W									
35	2 683	2 938	3 167	3 384	3 603	3 839	4 107	-	-
40	2 774	3 068	3 327	3 564	3 794	4 033	4 294	-	-
45	2 843	3 187	3 486	3 755	4 007	4 259	4 524	-	-
50	2 877	3 281	3 631	3 942	4 227	4 502	4 782	-	-
55	2 861	3 336	3 748	4 111	4 440	4 749	5 054	-	-
60	-	-	3 821	4 247	4 631	4 985	5 326	-	-
65	-	-	-	4 338	4 786	5 196	5 584	-	-
70	-	-	-	-	-	5 368	5 813	-	-
Current consumption in A									
35	5.80	6.40	6.81	7.11	7.36	7.63	8.01	-	-
40	6.00	6.70	7.19	7.56	7.86	8.18	8.59	-	-
45	6.14	6.93	7.51	7.94	8.31	8.68	9.12	-	-
50	6.22	7.11	7.77	8.27	8.70	9.11	9.59	-	-
55	6.25	7.24	7.98	8.56	9.04	9.50	10.02	-	-
60	-	-	8.15	8.80	9.34	9.85	10.40	-	-
65	-	-	-	9.01	9.61	10.17	10.76	-	-
70	-	-	-	-	-	10.46	11.08	-	-
Mass flow in kg/h									
35	113	147	186	230	282	341	408	-	-
40	109	143	182	227	278	337	404	-	-
45	104	138	177	222	274	332	399	-	-
50	99	133	172	217	268	326	392	-	-
55	93	126	165	210	261	319	385	-	-
60	-	-	158	203	253	311	376	-	-
65	-	-	-	194	244	301	366	-	-
70	-	-	-	-	-	291	355	-	-
Coefficient of performance (C.O.P.)									
35	1.89	2.28	2.73	3.24	3.79	4.38	4.97	-	-
40	1.68	2.03	2.44	2.89	3.40	3.95	4.52	-	-
45	1.49	1.80	2.16	2.57	3.03	3.53	4.06	-	-
50	1.33	1.60	1.91	2.27	2.68	3.12	3.60	-	-
55	1.18	1.42	1.69	2.00	2.36	2.75	3.18	-	-
60	-	-	1.50	1.77	2.07	2.42	2.80	-	-
65	-	-	-	1.56	1.82	2.12	2.46	-	-
70	-	-	-	-	-	1.86	2.15	-	-

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

Cooling capacity	11 676	W
Power input	4 551	W
Current consumption	9.20	A
Mass flow	287	kg/h
C.O.P.	2.57	

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

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Performance data at 35 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	5 596	7 412	9 590	12 171	15 198	18 712	22 754	-	-
40	5 128	6 867	8 945	11 405	14 288	17 635	21 489	-	-
45	4 640	6 300	8 276	10 612	13 348	16 526	20 187	-	-
50	4 134	5 712	7 584	9 792	12 379	15 384	18 851	-	-
55	3 612	5 104	6 869	8 947	11 382	14 213	17 482	-	-
60	-	-	6 133	8 079	10 358	13 012	16 082	-	-
65	-	-	-	7 188	9 310	11 783	14 651	-	-
70	-	-	-	-	-	10 528	13 190	-	-
Power input in W									
35	3 203	3 514	3 792	4 055	4 318	4 599	4 913	-	-
40	3 312	3 670	3 984	4 271	4 546	4 828	5 132	-	-
45	3 393	3 810	4 172	4 496	4 797	5 093	5 399	-	-
50	3 430	3 919	4 342	4 715	5 054	5 376	5 698	-	-
55	3 407	3 981	4 477	4 912	5 302	5 664	6 014	-	-
60	-	-	4 563	5 073	5 527	5 941	6 332	-	-
65	-	-	-	5 182	5 712	6 190	6 635	-	-
70	-	-	-	-	-	6 398	6 909	-	-
Current consumption in A									
35	6.35	7.00	7.45	7.77	8.04	8.34	8.76	-	-
40	6.57	7.33	7.87	8.27	8.60	8.95	9.40	-	-
45	6.72	7.58	8.21	8.69	9.09	9.49	9.98	-	-
50	6.80	7.77	8.50	9.05	9.51	9.97	10.49	-	-
55	6.83	7.91	8.73	9.36	9.89	10.39	10.96	-	-
60	-	-	8.91	9.62	10.22	10.78	11.38	-	-
65	-	-	-	9.85	10.52	11.13	11.77	-	-
70	-	-	-	-	-	11.45	12.13	-	-
Mass flow in kg/h									
35	136	176	223	277	340	410	490	-	-
40	131	172	219	273	335	405	484	-	-
45	126	166	214	268	329	399	478	-	-
50	119	160	207	261	322	392	470	-	-
55	111	152	199	253	314	383	461	-	-
60	-	-	190	244	305	374	451	-	-
65	-	-	-	234	294	362	439	-	-
70	-	-	-	-	-	349	425	-	-
Coefficient of performance (C.O.P.)									
35	1.75	2.11	2.53	3.00	3.52	4.07	4.63	-	-
40	1.55	1.87	2.25	2.67	3.14	3.65	4.19	-	-
45	1.37	1.65	1.98	2.36	2.78	3.25	3.74	-	-
50	1.21	1.46	1.75	2.08	2.45	2.86	3.31	-	-
55	1.06	1.28	1.53	1.82	2.15	2.51	2.91	-	-
60	-	-	1.34	1.59	1.87	2.19	2.54	-	-
65	-	-	-	1.39	1.63	1.90	2.21	-	-
70	-	-	-	-	-	1.65	1.91	-	-

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

Cooling capacity	12 379	W
Power input	5 054	W
Current consumption	9.51	A
Mass flow	322	kg/h
C.O.P.	2.45	

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

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Performance data at 35 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	6 061	8 014	10 352	13 119	16 357	20 110	24 420	-	-
40	5 584	7 464	9 705	12 353	15 450	19 039	23 164	-	-
45	5 084	6 888	9 031	11 558	14 511	17 934	21 870	-	-
50	4 563	6 288	8 330	10 733	13 540	16 794	20 540	-	-
55	4 020	5 665	7 604	9 880	12 538	15 622	19 175	-	-
60	-	-	6 852	9 000	11 508	14 419	17 778	-	-
65	-	-	-	8 094	10 450	13 187	16 350	-	-
70	-	-	-	-	-	11 927	14 893	-	-
Power input in W									
35	3 203	3 514	3 792	4 055	4 318	4 599	4 913	-	-
40	3 312	3 670	3 984	4 271	4 546	4 828	5 132	-	-
45	3 393	3 810	4 172	4 496	4 797	5 093	5 399	-	-
50	3 430	3 919	4 342	4 715	5 054	5 376	5 698	-	-
55	3 407	3 981	4 477	4 912	5 302	5 664	6 014	-	-
60	-	-	4 563	5 073	5 527	5 941	6 332	-	-
65	-	-	-	5 182	5 712	6 190	6 635	-	-
70	-	-	-	-	-	6 398	6 909	-	-
Current consumption in A									
35	6.35	7.00	7.45	7.77	8.04	8.34	8.76	-	-
40	6.57	7.33	7.87	8.27	8.60	8.95	9.40	-	-
45	6.72	7.58	8.21	8.69	9.09	9.49	9.98	-	-
50	6.80	7.77	8.50	9.05	9.51	9.97	10.49	-	-
55	6.83	7.91	8.73	9.36	9.89	10.39	10.96	-	-
60	-	-	8.91	9.62	10.22	10.78	11.38	-	-
65	-	-	-	9.85	10.52	11.13	11.77	-	-
70	-	-	-	-	-	11.45	12.13	-	-
Mass flow in kg/h									
35	135	175	222	276	338	408	488	-	-
40	131	171	218	272	333	403	482	-	-
45	125	166	212	266	327	397	475	-	-
50	118	159	206	260	321	390	467	-	-
55	110	151	198	252	313	381	458	-	-
60	-	-	190	243	303	372	448	-	-
65	-	-	-	232	293	360	436	-	-
70	-	-	-	-	-	347	423	-	-
Coefficient of performance (C.O.P.)									
35	1.89	2.28	2.73	3.24	3.79	4.37	4.97	-	-
40	1.69	2.03	2.44	2.89	3.40	3.94	4.51	-	-
45	1.50	1.81	2.16	2.57	3.03	3.52	4.05	-	-
50	1.33	1.60	1.92	2.28	2.68	3.12	3.60	-	-
55	1.18	1.42	1.70	2.01	2.36	2.76	3.19	-	-
60	-	-	1.50	1.77	2.08	2.43	2.81	-	-
65	-	-	-	1.56	1.83	2.13	2.46	-	-
70	-	-	-	-	-	1.86	2.16	-	-

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

Cooling capacity	13 971	W
Power input	5 433	W
Current consumption	10.06	A
Mass flow	343	kg/h
C.O.P.	2.57	

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

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Performance data at 40 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	6 502	8 620	11 160	14 168	17 689	21 770	26 456	-	-
40	5 962	7 989	10 411	13 273	16 622	20 502	24 959	-	-
45	5 397	7 333	9 636	12 352	15 526	19 205	23 434	-	-
50	4 807	6 651	8 834	11 403	14 402	17 879	21 877	-	-
55	4 189	5 940	8 003	10 423	13 247	16 521	20 289	-	-
60	-	-	7 141	9 412	12 060	15 130	18 667	-	-
65	-	-	-	8 368	10 839	13 704	17 009	-	-
70	-	-	-	-	-	12 242	15 313	-	-
Power input in W									
35	3 715	4 079	4 406	4 713	5 020	5 344	5 705	-	-
40	3 842	4 261	4 628	4 964	5 285	5 610	5 958	-	-
45	3 934	4 421	4 845	5 222	5 572	5 913	6 263	-	-
50	3 974	4 545	5 038	5 473	5 866	6 237	6 604	-	-
55	3 946	4 615	5 193	5 698	6 150	6 565	6 963	-	-
60	-	-	5 292	5 883	6 407	6 881	7 325	-	-
65	-	-	-	6 011	6 621	7 169	7 673	-	-
70	-	-	-	-	-	7 412	7 991	-	-
Current consumption in A									
35	7.00	7.72	8.22	8.57	8.87	9.20	9.66	-	-
40	7.25	8.09	8.68	9.12	9.49	9.88	10.37	-	-
45	7.41	8.37	9.06	9.59	10.03	10.47	11.01	-	-
50	7.50	8.57	9.37	9.98	10.50	11.00	11.58	-	-
55	7.53	8.72	9.62	10.32	10.91	11.47	12.09	-	-
60	-	-	9.83	10.61	11.27	11.89	12.55	-	-
65	-	-	-	10.87	11.60	12.28	12.98	-	-
70	-	-	-	-	-	12.64	13.39	-	-
Mass flow in kg/h									
35	158	205	260	323	395	477	570	-	-
40	153	200	255	318	389	471	563	-	-
45	146	194	249	311	383	464	555	-	-
50	138	186	241	304	375	455	545	-	-
55	128	177	232	295	366	446	535	-	-
60	-	-	222	285	355	434	523	-	-
65	-	-	-	272	342	421	509	-	-
70	-	-	-	-	-	406	494	-	-
Coefficient of performance (C.O.P.)									
35	1.75	2.11	2.53	3.01	3.52	4.07	4.64	-	-
40	1.55	1.88	2.25	2.67	3.15	3.65	4.19	-	-
45	1.37	1.66	1.99	2.37	2.79	3.25	3.74	-	-
50	1.21	1.46	1.75	2.08	2.46	2.87	3.31	-	-
55	1.06	1.29	1.54	1.83	2.15	2.52	2.91	-	-
60	-	-	1.35	1.60	1.88	2.20	2.55	-	-
65	-	-	-	1.39	1.64	1.91	2.22	-	-
70	-	-	-	-	-	1.65	1.92	-	-

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

Cooling capacity	14 402	W
Power input	5 866	W
Current consumption	10.50	A
Mass flow	375	kg/h
C.O.P.	2.46	

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

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Performance data at 40 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	7 043	9 321	12 048	15 271	19 038	23 396	28 392	-	-
40	6 493	8 684	11 296	14 376	17 973	22 133	26 905	-	-
45	5 914	8 019	10 515	13 453	16 879	20 841	25 387	-	-
50	5 305	7 323	9 704	12 498	15 753	19 517	23 837	-	-
55	4 663	6 593	8 859	11 510	14 594	18 159	22 254	-	-
60	-	-	7 978	10 486	13 399	16 766	20 635	-	-
65	-	-	-	9 423	12 166	15 336	18 981	-	-
70	-	-	-	-	-	13 868	17 290	-	-
Power input in W									
35	3 715	4 079	4 406	4 713	5 020	5 344	5 705	-	-
40	3 842	4 261	4 628	4 964	5 285	5 610	5 958	-	-
45	3 934	4 421	4 845	5 222	5 572	5 913	6 263	-	-
50	3 974	4 545	5 038	5 473	5 866	6 237	6 604	-	-
55	3 946	4 615	5 193	5 698	6 150	6 565	6 963	-	-
60	-	-	5 292	5 883	6 407	6 881	7 325	-	-
65	-	-	-	6 011	6 621	7 169	7 673	-	-
70	-	-	-	-	-	7 412	7 991	-	-
Current consumption in A									
35	7.00	7.72	8.22	8.57	8.87	9.20	9.66	-	-
40	7.25	8.09	8.68	9.12	9.49	9.88	10.37	-	-
45	7.41	8.37	9.06	9.59	10.03	10.47	11.01	-	-
50	7.50	8.57	9.37	9.98	10.50	11.00	11.58	-	-
55	7.53	8.72	9.62	10.32	10.91	11.47	12.09	-	-
60	-	-	9.83	10.61	11.27	11.89	12.55	-	-
65	-	-	-	10.87	11.60	12.28	12.98	-	-
70	-	-	-	-	-	12.64	13.39	-	-
Mass flow in kg/h									
35	157	204	259	321	393	475	567	-	-
40	152	199	253	316	387	468	560	-	-
45	145	193	247	310	381	461	551	-	-
50	137	185	240	302	373	453	542	-	-
55	128	176	231	294	364	443	532	-	-
60	-	-	221	283	353	432	520	-	-
65	-	-	-	271	341	419	507	-	-
70	-	-	-	-	-	404	491	-	-
Coefficient of performance (C.O.P.)									
35	1.90	2.29	2.73	3.24	3.79	4.38	4.98	-	-
40	1.69	2.04	2.44	2.90	3.40	3.95	4.52	-	-
45	1.50	1.81	2.17	2.58	3.03	3.52	4.05	-	-
50	1.33	1.61	1.93	2.28	2.69	3.13	3.61	-	-
55	1.18	1.43	1.71	2.02	2.37	2.77	3.20	-	-
60	-	-	1.51	1.78	2.09	2.44	2.82	-	-
65	-	-	-	1.57	1.84	2.14	2.47	-	-
70	-	-	-	-	-	1.87	2.16	-	-

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

Cooling capacity	16 251	W
Power input	6 300	W
Current consumption	11.10	A
Mass flow	399	kg/h
C.O.P.	2.58	

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

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Performance data at 45 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	7 404	9 821	12 718	16 148	20 160	24 805	30 134	-	-
40	6 791	9 104	11 866	15 127	18 939	23 352	28 416	-	-
45	6 150	8 359	10 985	14 079	17 691	21 872	26 672	-	-
50	5 476	7 582	10 073	13 000	16 412	20 362	24 898	-	-
55	4 766	6 770	9 126	11 886	15 100	18 818	23 091	-	-
60	-	-	8 140	10 733	13 748	17 236	21 246	-	-
65	-	-	-	9 539	12 356	15 613	19 361	-	-
70	-	-	-	-	-	13 945	17 431	-	-
Power input in W									
35	4 219	4 634	5 007	5 359	5 709	6 077	6 483	-	-
40	4 363	4 840	5 260	5 643	6 009	6 379	6 772	-	-
45	4 466	5 021	5 504	5 934	6 333	6 720	7 115	-	-
50	4 510	5 159	5 721	6 215	6 663	7 083	7 497	-	-
55	4 479	5 238	5 895	6 469	6 981	7 451	7 900	-	-
60	-	-	6 007	6 678	7 271	7 807	8 306	-	-
65	-	-	-	6 824	7 514	8 132	8 698	-	-
70	-	-	-	-	-	8 411	9 060	-	-
Current consumption in A									
35	7.76	8.56	9.11	9.50	9.83	10.21	10.71	-	-
40	8.04	8.97	9.63	10.12	10.53	10.96	11.51	-	-
45	8.22	9.28	10.05	10.64	11.13	11.62	12.21	-	-
50	8.32	9.51	10.40	11.08	11.65	12.20	12.84	-	-
55	8.35	9.67	10.67	11.45	12.10	12.72	13.41	-	-
60	-	-	10.90	11.77	12.51	13.19	13.93	-	-
65	-	-	-	12.06	12.87	13.62	14.41	-	-
70	-	-	-	-	-	14.03	14.86	-	-
Mass flow in kg/h									
35	180	234	296	368	451	544	650	-	-
40	174	228	290	362	444	536	641	-	-
45	166	221	283	355	436	528	631	-	-
50	157	212	275	347	427	519	621	-	-
55	146	202	265	337	417	508	609	-	-
60	-	-	253	324	405	495	595	-	-
65	-	-	-	310	390	480	580	-	-
70	-	-	-	-	-	463	562	-	-
Coefficient of performance (C.O.P.)									
35	1.76	2.12	2.54	3.01	3.53	4.08	4.65	-	-
40	1.56	1.88	2.26	2.68	3.15	3.66	4.20	-	-
45	1.38	1.66	2.00	2.37	2.79	3.25	3.75	-	-
50	1.21	1.47	1.76	2.09	2.46	2.87	3.32	-	-
55	1.06	1.29	1.55	1.84	2.16	2.53	2.92	-	-
60	-	-	1.36	1.61	1.89	2.21	2.56	-	-
65	-	-	-	1.40	1.64	1.92	2.23	-	-
70	-	-	-	-	-	1.66	1.92	-	-

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

Cooling capacity	16 412	W
Power input	6 663	W
Current consumption	11.65	A
Mass flow	427	kg/h
C.O.P.	2.46	

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

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Performance data at 45 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	8 020	10 619	13 730	17 405	21 697	26 658	32 340	-	-
40	7 396	9 895	12 874	16 384	20 479	25 211	30 632	-	-
45	6 739	9 140	11 987	15 334	19 232	23 735	28 896	-	-
50	6 043	8 348	11 065	14 249	17 952	22 228	27 129	-	-
55	5 304	7 514	10 103	13 125	16 634	20 684	25 327	-	-
60	-	-	9 094	11 957	15 275	19 100	23 487	-	-
65	-	-	-	10 741	13 869	17 472	21 606	-	-
70	-	-	-	-	-	15 797	19 681	-	-
Power input in W									
35	4 219	4 634	5 007	5 359	5 709	6 077	6 483	-	-
40	4 363	4 840	5 260	5 643	6 009	6 379	6 772	-	-
45	4 466	5 021	5 504	5 934	6 333	6 720	7 115	-	-
50	4 510	5 159	5 721	6 215	6 663	7 083	7 497	-	-
55	4 479	5 238	5 895	6 469	6 981	7 451	7 900	-	-
60	-	-	6 007	6 678	7 271	7 807	8 306	-	-
65	-	-	-	6 824	7 514	8 132	8 698	-	-
70	-	-	-	-	-	8 411	9 060	-	-
Current consumption in A									
35	7.76	8.56	9.11	9.50	9.83	10.21	10.71	-	-
40	8.04	8.97	9.63	10.12	10.53	10.96	11.51	-	-
45	8.22	9.28	10.05	10.64	11.13	11.62	12.21	-	-
50	8.32	9.51	10.40	11.08	11.65	12.20	12.84	-	-
55	8.35	9.67	10.67	11.45	12.10	12.72	13.41	-	-
60	-	-	10.90	11.77	12.51	13.19	13.93	-	-
65	-	-	-	12.06	12.87	13.62	14.41	-	-
70	-	-	-	-	-	14.03	14.86	-	-
Mass flow in kg/h									
35	179	232	295	366	448	541	646	-	-
40	173	227	289	360	441	534	637	-	-
45	166	220	282	353	434	525	628	-	-
50	156	211	274	345	425	516	617	-	-
55	145	201	264	335	415	505	606	-	-
60	-	-	252	323	403	492	592	-	-
65	-	-	-	308	388	477	577	-	-
70	-	-	-	-	-	460	559	-	-
Coefficient of performance (C.O.P.)									
35	1.90	2.29	2.74	3.25	3.80	4.39	4.99	-	-
40	1.70	2.04	2.45	2.90	3.41	3.95	4.52	-	-
45	1.51	1.82	2.18	2.58	3.04	3.53	4.06	-	-
50	1.34	1.62	1.93	2.29	2.69	3.14	3.62	-	-
55	1.18	1.43	1.71	2.03	2.38	2.78	3.21	-	-
60	-	-	1.51	1.79	2.10	2.45	2.83	-	-
65	-	-	-	1.57	1.85	2.15	2.48	-	-
70	-	-	-	-	-	1.88	2.17	-	-

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

Cooling capacity	18 518	W
Power input	7 152	W
Current consumption	12.32	A
Mass flow	455	kg/h
C.O.P.	2.59	

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

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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		
Cooling capacity in W									
35	8 302	11 013	14 264	18 111	22 610	27 818	33 790	-	-
40	7 616	10 211	13 309	16 967	21 241	26 186	31 860	-	-
45	6 897	9 377	12 323	15 793	19 842	24 527	29 904	-	-
50	6 141	8 506	11 301	14 584	18 410	22 835	27 915	-	-
55	5 342	7 593	10 239	13 335	16 938	21 104	25 889	-	-
60	-	-	9 131	12 042	15 423	19 331	23 822	-	-
65	-	-	-	10 699	13 860	17 511	21 708	-	-
70	-	-	-	-	-	15 638	19 542	-	-
Power input in W									
35	4 715	5 179	5 597	5 992	6 384	6 795	7 248	-	-
40	4 875	5 409	5 879	6 309	6 721	7 134	7 573	-	-
45	4 989	5 609	6 149	6 633	7 080	7 514	7 956	-	-
50	5 039	5 762	6 389	6 943	7 445	7 916	8 379	-	-
55	5 005	5 850	6 582	7 224	7 797	8 323	8 824	-	-
60	-	-	6 709	7 456	8 118	8 717	9 274	-	-
65	-	-	-	7 623	8 391	9 080	9 710	-	-
70	-	-	-	-	-	9 394	10 115	-	-
Current consumption in A									
35	8.63	9.52	10.13	10.57	10.94	11.36	11.92	-	-
40	8.94	9.98	10.71	11.26	11.71	12.19	12.81	-	-
45	9.15	10.33	11.19	11.84	12.38	12.93	13.59	-	-
50	9.26	10.58	11.57	12.33	12.96	13.58	14.29	-	-
55	9.28	10.76	11.88	12.74	13.47	14.16	14.92	-	-
60	-	-	12.12	13.10	13.92	14.68	15.50	-	-
65	-	-	-	13.41	14.32	15.16	16.03	-	-
70	-	-	-	-	-	15.61	16.54	-	-
Mass flow in kg/h									
35	202	262	332	413	505	610	728	-	-
40	195	255	326	406	498	601	718	-	-
45	187	248	318	398	489	592	708	-	-
50	176	238	309	389	479	582	696	-	-
55	164	226	297	378	468	569	683	-	-
60	-	-	284	364	454	555	668	-	-
65	-	-	-	348	438	538	650	-	-
70	-	-	-	-	-	519	630	-	-
Coefficient of performance (C.O.P.)									
35	1.76	2.13	2.55	3.02	3.54	4.09	4.66	-	-
40	1.56	1.89	2.26	2.69	3.16	3.67	4.21	-	-
45	1.38	1.67	2.00	2.38	2.80	3.26	3.76	-	-
50	1.22	1.48	1.77	2.10	2.47	2.88	3.33	-	-
55	1.07	1.30	1.56	1.85	2.17	2.54	2.93	-	-
60	-	-	1.36	1.62	1.90	2.22	2.57	-	-
65	-	-	-	1.40	1.65	1.93	2.24	-	-
70	-	-	-	-	-	1.66	1.93	-	-

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

Cooling capacity	18 410	W
Power input	7 445	W
Current consumption	12.96	A
Mass flow	479	kg/h
C.O.P.	2.47	

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

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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		
Cooling capacity in W									
35	8 991	11 908	15 398	19 521	24 334	29 895	36 263	-	-
40	8 294	11 098	14 440	18 377	22 968	28 271	34 344	-	-
45	7 558	10 253	13 447	17 200	21 571	26 617	32 397	-	-
50	6 777	9 365	12 414	15 985	20 136	24 927	30 416	-	-
55	5 945	8 428	11 334	14 725	18 660	23 197	28 396	-	-
60	-	-	10 201	13 415	17 135	21 422	26 334	-	-
65	-	-	-	12 048	15 557	19 596	24 225	-	-
70	-	-	-	-	-	17 715	22 065	-	-
Power input in W									
35	4 715	5 179	5 597	5 992	6 384	6 795	7 248	-	-
40	4 875	5 409	5 879	6 309	6 721	7 134	7 573	-	-
45	4 989	5 609	6 149	6 633	7 080	7 514	7 956	-	-
50	5 039	5 762	6 389	6 943	7 445	7 916	8 379	-	-
55	5 005	5 850	6 582	7 224	7 797	8 323	8 824	-	-
60	-	-	6 709	7 456	8 118	8 717	9 274	-	-
65	-	-	-	7 623	8 391	9 080	9 710	-	-
70	-	-	-	-	-	9 394	10 115	-	-
Current consumption in A									
35	8.63	9.52	10.13	10.57	10.94	11.36	11.92	-	-
40	8.94	9.98	10.71	11.26	11.71	12.19	12.81	-	-
45	9.15	10.33	11.19	11.84	12.38	12.93	13.59	-	-
50	9.26	10.58	11.57	12.33	12.96	13.58	14.29	-	-
55	9.28	10.76	11.88	12.74	13.47	14.16	14.92	-	-
60	-	-	12.12	13.10	13.92	14.68	15.50	-	-
65	-	-	-	13.41	14.32	15.16	16.03	-	-
70	-	-	-	-	-	15.61	16.54	-	-
Mass flow in kg/h									
35	201	261	330	411	503	607	724	-	-
40	194	254	324	404	495	598	714	-	-
45	186	246	316	396	487	589	704	-	-
50	175	237	307	387	477	578	692	-	-
55	163	225	296	376	466	566	679	-	-
60	-	-	282	362	452	552	664	-	-
65	-	-	-	346	436	536	647	-	-
70	-	-	-	-	-	516	626	-	-
Coefficient of performance (C.O.P.)									
35	1.91	2.30	2.75	3.26	3.81	4.40	5.00	-	-
40	1.70	2.05	2.46	2.91	3.42	3.96	4.54	-	-
45	1.51	1.83	2.19	2.59	3.05	3.54	4.07	-	-
50	1.35	1.63	1.94	2.30	2.70	3.15	3.63	-	-
55	1.19	1.44	1.72	2.04	2.39	2.79	3.22	-	-
60	-	-	1.52	1.80	2.11	2.46	2.84	-	-
65	-	-	-	1.58	1.85	2.16	2.49	-	-
70	-	-	-	-	-	1.89	2.18	-	-

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

Cooling capacity	20 771	W
Power input	7 988	W
Current consumption	13.71	A
Mass flow	510	kg/h
C.O.P.	2.60	

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

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Performance data at 55 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	9 194	12 197	15 797	20 057	25 040	30 808	37 423	-	-
40	8 435	11 310	14 741	18 793	23 527	29 006	35 291	-	-
45	7 640	10 386	13 650	17 494	21 980	27 170	33 128	-	-
50	6 802	9 421	12 519	16 155	20 394	25 297	30 926	-	-
55	5 917	8 411	11 341	14 772	18 764	23 380	28 683	-	-
60	-	-	10 114	13 339	17 085	21 416	26 392	-	-
65	-	-	-	11 851	15 352	19 398	24 049	-	-
70	-	-	-	-	-	17 321	21 648	-	-
Power input in W									
35	5 203	5 714	6 176	6 612	7 045	7 500	7 998	-	-
40	5 379	5 966	6 486	6 962	7 418	7 877	8 362	-	-
45	5 504	6 185	6 781	7 316	7 813	8 295	8 785	-	-
50	5 558	6 353	7 044	7 656	8 212	8 736	9 250	-	-
55	5 525	6 450	7 255	7 963	8 597	9 181	9 737	-	-
60	-	-	7 397	8 219	8 950	9 612	10 230	-	-
65	-	-	-	8 407	9 252	10 012	10 709	-	-
70	-	-	-	-	-	10 362	11 157	-	-
Current consumption in A									
35	9.61	10.61	11.29	11.78	12.19	12.65	13.29	-	-
40	9.96	11.12	11.94	12.54	13.05	13.59	14.27	-	-
45	10.19	11.51	12.47	13.19	13.80	14.41	15.15	-	-
50	10.31	11.79	12.89	13.74	14.44	15.13	15.93	-	-
55	10.34	11.99	13.24	14.20	15.01	15.78	16.63	-	-
60	-	-	13.51	14.60	15.51	16.36	17.27	-	-
65	-	-	-	14.94	15.96	16.89	17.86	-	-
70	-	-	-	-	-	17.39	18.43	-	-
Mass flow in kg/h									
35	223	290	368	457	560	676	807	-	-
40	216	283	361	450	551	666	796	-	-
45	207	274	352	441	542	656	784	-	-
50	195	264	342	431	531	644	771	-	-
55	181	251	329	418	518	631	756	-	-
60	-	-	314	403	503	615	740	-	-
65	-	-	-	385	485	596	720	-	-
70	-	-	-	-	-	575	698	-	-
Coefficient of performance (C.O.P.)									
35	1.77	2.13	2.56	3.03	3.55	4.11	4.68	-	-
40	1.57	1.90	2.27	2.70	3.17	3.68	4.22	-	-
45	1.39	1.68	2.01	2.39	2.81	3.28	3.77	-	-
50	1.22	1.48	1.78	2.11	2.48	2.90	3.34	-	-
55	1.07	1.30	1.56	1.86	2.18	2.55	2.95	-	-
60	-	-	1.37	1.62	1.91	2.23	2.58	-	-
65	-	-	-	1.41	1.66	1.94	2.25	-	-
70	-	-	-	-	-	1.67	1.94	-	-

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

Cooling capacity	20 394	W
Power input	8 212	W
Current consumption	14.44	A
Mass flow	531	kg/h
C.O.P.	2.48	

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

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Performance data at 55 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	9 958	13 188	17 053	21 618	26 949	33 109	40 163	-	-
40	9 186	12 293	15 994	20 355	25 440	31 315	38 043	-	-
45	8 371	11 356	14 895	19 053	23 894	29 485	35 889	-	-
50	7 507	10 373	13 751	17 707	22 307	27 615	33 697	-	-
55	6 585	9 335	12 555	16 311	20 671	25 699	31 461	-	-
60	-	-	11 300	14 860	18 981	23 732	29 176	-	-
65	-	-	-	13 344	17 232	21 708	26 838	-	-
70	-	-	-	-	-	19 622	24 443	-	-
Power input in W									
35	5 203	5 714	6 176	6 612	7 045	7 500	7 998	-	-
40	5 379	5 966	6 486	6 962	7 418	7 877	8 362	-	-
45	5 504	6 185	6 781	7 316	7 813	8 295	8 785	-	-
50	5 558	6 353	7 044	7 656	8 212	8 736	9 250	-	-
55	5 525	6 450	7 255	7 963	8 597	9 181	9 737	-	-
60	-	-	7 397	8 219	8 950	9 612	10 230	-	-
65	-	-	-	8 407	9 252	10 012	10 709	-	-
70	-	-	-	-	-	10 362	11 157	-	-
Current consumption in A									
35	9.61	10.61	11.29	11.78	12.19	12.65	13.29	-	-
40	9.96	11.12	11.94	12.54	13.05	13.59	14.27	-	-
45	10.19	11.51	12.47	13.19	13.80	14.41	15.15	-	-
50	10.31	11.79	12.89	13.74	14.44	15.13	15.93	-	-
55	10.34	11.99	13.24	14.20	15.01	15.78	16.63	-	-
60	-	-	13.51	14.60	15.51	16.36	17.27	-	-
65	-	-	-	14.94	15.96	16.89	17.86	-	-
70	-	-	-	-	-	17.39	18.43	-	-
Mass flow in kg/h									
35	222	289	366	455	557	672	802	-	-
40	215	282	359	447	548	663	791	-	-
45	206	273	350	439	539	652	780	-	-
50	194	262	340	429	528	641	767	-	-
55	181	250	328	416	516	627	752	-	-
60	-	-	313	401	501	612	736	-	-
65	-	-	-	383	482	593	716	-	-
70	-	-	-	-	-	572	694	-	-
Coefficient of performance (C.O.P.)									
35	1.91	2.31	2.76	3.27	3.83	4.41	5.02	-	-
40	1.71	2.06	2.47	2.92	3.43	3.98	4.55	-	-
45	1.52	1.84	2.20	2.60	3.06	3.55	4.09	-	-
50	1.35	1.63	1.95	2.31	2.72	3.16	3.64	-	-
55	1.19	1.45	1.73	2.05	2.40	2.80	3.23	-	-
60	-	-	1.53	1.81	2.12	2.47	2.85	-	-
65	-	-	-	1.59	1.86	2.17	2.51	-	-
70	-	-	-	-	-	1.89	2.19	-	-

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

Cooling capacity	23 010	W
Power input	8 810	W
Current consumption	15.28	A
Mass flow	565	kg/h
C.O.P.	2.61	

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

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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		
Cooling capacity in W									
35	10 083	13 373	17 318	21 987	27 450	33 776	41 033	-	-
40	9 250	12 400	16 162	20 605	25 797	31 809	38 709	-	-
45	8 377	11 388	14 966	19 182	24 104	29 801	36 344	-	-
50	7 459	10 330	13 725	17 713	22 365	27 748	33 933	-	-
55	6 491	9 222	12 433	16 195	20 576	25 646	31 473	-	-
60	-	-	11 088	14 623	18 733	23 489	28 958	-	-
65	-	-	-	12 992	16 832	21 273	26 385	-	-
70	-	-	-	-	-	18 995	23 749	-	-
Power input in W									
35	5 683	6 238	6 743	7 219	7 694	8 191	8 735	-	-
40	5 874	6 513	7 080	7 601	8 102	8 606	9 138	-	-
45	6 010	6 750	7 400	7 986	8 532	9 062	9 602	-	-
50	6 070	6 931	7 684	8 354	8 964	9 541	10 108	-	-
55	6 037	7 039	7 914	8 687	9 382	10 024	10 638	-	-
60	-	-	8 071	8 967	9 766	10 493	11 174	-	-
65	-	-	-	9 175	10 097	10 929	11 695	-	-
70	-	-	-	-	-	11 314	12 186	-	-
Current consumption in A									
35	10.70	11.81	12.57	13.11	13.58	14.10	14.80	-	-
40	11.09	12.38	13.29	13.97	14.54	15.14	15.90	-	-
45	11.35	12.82	13.89	14.69	15.37	16.05	16.87	-	-
50	11.49	13.14	14.36	15.30	16.09	16.86	17.74	-	-
55	11.52	13.36	14.74	15.82	16.72	17.58	18.53	-	-
60	-	-	15.04	16.26	17.28	18.22	19.24	-	-
65	-	-	-	16.64	17.77	18.81	19.90	-	-
70	-	-	-	-	-	19.37	20.52	-	-
Mass flow in kg/h									
35	245	318	403	501	613	741	885	-	-
40	237	310	395	493	604	731	873	-	-
45	227	301	386	484	594	719	860	-	-
50	214	289	375	472	582	707	846	-	-
55	199	275	361	459	568	692	830	-	-
60	-	-	344	442	552	675	812	-	-
65	-	-	-	422	532	654	790	-	-
70	-	-	-	-	-	630	766	-	-
Coefficient of performance (C.O.P.)									
35	1.77	2.14	2.57	3.05	3.57	4.12	4.70	-	-
40	1.57	1.90	2.28	2.71	3.18	3.70	4.24	-	-
45	1.39	1.69	2.02	2.40	2.83	3.29	3.78	-	-
50	1.23	1.49	1.79	2.12	2.49	2.91	3.36	-	-
55	1.08	1.31	1.57	1.86	2.19	2.56	2.96	-	-
60	-	-	1.37	1.63	1.92	2.24	2.59	-	-
65	-	-	-	1.42	1.67	1.95	2.26	-	-
70	-	-	-	-	-	1.68	1.95	-	-

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

Cooling capacity	22 365	W
Power input	8 964	W
Current consumption	16.09	A
Mass flow	582	kg/h
C.O.P.	2.49	

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

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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		
Cooling capacity in W									
35	10 920	14 459	18 695	23 698	29 542	36 298	44 037	-	-
40	10 073	13 478	17 536	22 317	27 895	34 341	41 727	-	-
45	9 179	12 452	16 331	20 891	26 203	32 340	39 374	-	-
50	8 232	11 373	15 076	19 415	24 462	30 291	36 973	-	-
55	7 225	10 236	13 764	17 883	22 667	28 189	34 520	-	-
60	-	-	12 388	16 290	20 813	26 029	32 012	-	-
65	-	-	-	14 630	18 893	23 807	29 445	-	-
70	-	-	-	-	-	21 518	26 815	-	-
Power input in W									
35	5 683	6 238	6 743	7 219	7 694	8 191	8 735	-	-
40	5 874	6 513	7 080	7 601	8 102	8 606	9 138	-	-
45	6 010	6 750	7 400	7 986	8 532	9 062	9 602	-	-
50	6 070	6 931	7 684	8 354	8 964	9 541	10 108	-	-
55	6 037	7 039	7 914	8 687	9 382	10 024	10 638	-	-
60	-	-	8 071	8 967	9 766	10 493	11 174	-	-
65	-	-	-	9 175	10 097	10 929	11 695	-	-
70	-	-	-	-	-	11 314	12 186	-	-
Current consumption in A									
35	10.70	11.81	12.57	13.11	13.58	14.10	14.80	-	-
40	11.09	12.38	13.29	13.97	14.54	15.14	15.90	-	-
45	11.35	12.82	13.89	14.69	15.37	16.05	16.87	-	-
50	11.49	13.14	14.36	15.30	16.09	16.86	17.74	-	-
55	11.52	13.36	14.74	15.82	16.72	17.58	18.53	-	-
60	-	-	15.04	16.26	17.28	18.22	19.24	-	-
65	-	-	-	16.64	17.77	18.81	19.90	-	-
70	-	-	-	-	-	19.37	20.52	-	-
Mass flow in kg/h									
35	244	316	401	499	610	737	880	-	-
40	235	309	393	491	601	727	868	-	-
45	225	299	384	481	591	716	855	-	-
50	213	288	373	470	579	703	841	-	-
55	198	274	359	456	565	688	825	-	-
60	-	-	343	440	549	671	807	-	-
65	-	-	-	420	529	651	786	-	-
70	-	-	-	-	-	627	761	-	-
Coefficient of performance (C.O.P.)									
35	1.92	2.32	2.77	3.28	3.84	4.43	5.04	-	-
40	1.71	2.07	2.48	2.94	3.44	3.99	4.57	-	-
45	1.53	1.84	2.21	2.62	3.07	3.57	4.10	-	-
50	1.36	1.64	1.96	2.32	2.73	3.17	3.66	-	-
55	1.20	1.45	1.74	2.06	2.42	2.81	3.24	-	-
60	-	-	1.53	1.82	2.13	2.48	2.86	-	-
65	-	-	-	1.59	1.87	2.18	2.52	-	-
70	-	-	-	-	-	1.90	2.20	-	-

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

Cooling capacity	25 235	W
Power input	9 617	W
Current consumption	17.02	A
Mass flow	620	kg/h
C.O.P.	2.62	

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

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Performance data at 65 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	10 966	14 540	18 826	23 900	29 839	36 721	44 621	-	-
40	10 060	13 483	17 572	22 403	28 052	34 597	42 114	-	-
45	9 110	12 381	16 271	20 856	26 214	32 420	39 553	-	-
50	8 112	11 230	14 919	19 258	24 322	30 189	36 935	-	-
55	7 065	10 027	13 515	17 605	22 375	27 900	34 258	-	-
60	-	-	12 055	15 895	20 368	25 550	31 519	-	-
65	-	-	-	14 125	18 299	23 137	28 715	-	-
70	-	-	-	-	-	20 658	25 843	-	-
Power input in W									
35	6 155	6 753	7 297	7 814	8 329	8 868	9 457	-	-
40	6 361	7 048	7 661	8 227	8 772	9 322	9 902	-	-
45	6 507	7 303	8 005	8 641	9 236	9 816	10 408	-	-
50	6 574	7 499	8 311	9 036	9 702	10 333	10 956	-	-
55	6 543	7 617	8 559	9 395	10 151	10 853	11 528	-	-
60	-	-	8 732	9 699	10 565	11 359	12 105	-	-
65	-	-	-	9 928	10 926	11 831	12 669	-	-
70	-	-	-	-	-	12 250	13 201	-	-
Current consumption in A									
35	11.90	13.14	13.98	14.59	15.11	15.69	16.47	-	-
40	12.34	13.77	14.79	15.54	16.17	16.84	17.69	-	-
45	12.63	14.26	15.45	16.35	17.10	17.86	18.77	-	-
50	12.78	14.62	15.98	17.03	17.90	18.76	19.74	-	-
55	12.82	14.86	16.41	17.61	18.61	19.56	20.62	-	-
60	-	-	16.74	18.09	19.22	20.28	21.41	-	-
65	-	-	-	18.51	19.77	20.93	22.14	-	-
70	-	-	-	-	-	21.54	22.83	-	-
Mass flow in kg/h									
35	266	346	438	545	667	805	962	-	-
40	257	337	430	536	657	795	949	-	-
45	246	327	420	526	646	783	936	-	-
50	233	314	408	513	633	769	921	-	-
55	217	299	393	499	618	753	903	-	-
60	-	-	374	481	600	734	883	-	-
65	-	-	-	459	578	711	860	-	-
70	-	-	-	-	-	685	833	-	-
Coefficient of performance (C.O.P.)									
35	1.78	2.15	2.58	3.06	3.58	4.14	4.72	-	-
40	1.58	1.91	2.29	2.72	3.20	3.71	4.25	-	-
45	1.40	1.70	2.03	2.41	2.84	3.30	3.80	-	-
50	1.23	1.50	1.80	2.13	2.51	2.92	3.37	-	-
55	1.08	1.32	1.58	1.87	2.20	2.57	2.97	-	-
60	-	-	1.38	1.64	1.93	2.25	2.60	-	-
65	-	-	-	1.42	1.67	1.96	2.27	-	-
70	-	-	-	-	-	1.69	1.96	-	-

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

Cooling capacity	24 322	W
Power input	9 702	W
Current consumption	17.90	A
Mass flow	633	kg/h
C.O.P.	2.51	

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

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Performance data at 65 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	11 877	15 722	20 323	25 760	32 114	39 463	47 887	-	-
40	10 955	14 656	19 065	24 264	30 333	37 351	45 397	-	-
45	9 982	13 538	17 755	22 715	28 497	35 182	42 850	-	-
50	8 953	12 364	16 388	21 108	26 604	32 956	40 244	-	-
55	7 864	11 129	14 961	19 440	24 649	30 667	37 576	-	-
60	-	-	13 468	17 707	22 629	28 314	34 843	-	-
65	-	-	-	15 905	20 540	25 893	32 045	-	-
70	-	-	-	-	-	23 403	29 179	-	-
Power input in W									
35	6 155	6 753	7 297	7 814	8 329	8 868	9 457	-	-
40	6 361	7 048	7 661	8 227	8 772	9 322	9 902	-	-
45	6 507	7 303	8 005	8 641	9 236	9 816	10 408	-	-
50	6 574	7 499	8 311	9 036	9 702	10 333	10 956	-	-
55	6 543	7 617	8 559	9 395	10 151	10 853	11 528	-	-
60	-	-	8 732	9 699	10 565	11 359	12 105	-	-
65	-	-	-	9 928	10 926	11 831	12 669	-	-
70	-	-	-	-	-	12 250	13 201	-	-
Current consumption in A									
35	11.90	13.14	13.98	14.59	15.11	15.69	16.47	-	-
40	12.34	13.77	14.79	15.54	16.17	16.84	17.69	-	-
45	12.63	14.26	15.45	16.35	17.10	17.86	18.77	-	-
50	12.78	14.62	15.98	17.03	17.90	18.76	19.74	-	-
55	12.82	14.86	16.41	17.61	18.61	19.56	20.62	-	-
60	-	-	16.74	18.09	19.22	20.28	21.41	-	-
65	-	-	-	18.51	19.77	20.93	22.14	-	-
70	-	-	-	-	-	21.54	22.83	-	-
Mass flow in kg/h									
35	265	344	436	542	663	801	956	-	-
40	256	336	428	533	654	790	944	-	-
45	245	325	418	523	643	778	931	-	-
50	232	313	405	511	630	765	916	-	-
55	216	297	391	496	615	749	898	-	-
60	-	-	372	478	597	730	878	-	-
65	-	-	-	457	575	708	855	-	-
70	-	-	-	-	-	682	828	-	-
Coefficient of performance (C.O.P.)									
35	1.93	2.33	2.78	3.30	3.86	4.45	5.06	-	-
40	1.72	2.08	2.49	2.95	3.46	4.01	4.58	-	-
45	1.53	1.85	2.22	2.63	3.09	3.58	4.12	-	-
50	1.36	1.65	1.97	2.34	2.74	3.19	3.67	-	-
55	1.20	1.46	1.75	2.07	2.43	2.83	3.26	-	-
60	-	-	1.54	1.83	2.14	2.49	2.88	-	-
65	-	-	-	1.60	1.88	2.19	2.53	-	-
70	-	-	-	-	-	1.91	2.21	-	-

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

Cooling capacity	27 447	W
Power input	10 408	W
Current consumption	18.94	A
Mass flow	674	kg/h
C.O.P.	2.64	

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

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Performance data at 70 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	11 845	15 699	20 322	25 796	32 209	39 643	48 185	-	-
40	10 865	14 558	18 971	24 187	30 291	37 369	45 505	-	-
45	9 837	13 366	17 565	22 518	28 311	35 028	42 754	-	-
50	8 762	12 122	16 103	20 790	26 267	32 620	39 932	-	-
55	7 638	10 826	14 586	19 002	24 160	30 144	37 040	-	-
60	-	-	13 013	17 155	21 989	27 601	34 075	-	-
65	-	-	-	15 247	19 755	24 991	31 040	-	-
70	-	-	-	-	-	22 312	27 932	-	-
Power input in W									
35	6 619	7 257	7 841	8 396	8 950	9 531	10 166	-	-
40	6 839	7 572	8 230	8 840	9 429	10 024	10 654	-	-
45	6 995	7 844	8 597	9 282	9 926	10 557	11 202	-	-
50	7 069	8 054	8 923	9 704	10 424	11 111	11 792	-	-
55	7 043	8 184	9 190	10 088	10 905	11 668	12 405	-	-
60	-	-	9 380	10 415	11 349	12 209	13 024	-	-
65	-	-	-	10 666	11 738	12 717	13 629	-	-
70	-	-	-	-	-	13 172	14 203	-	-
Current consumption in A									
35	13.21	14.58	15.52	16.20	16.78	17.42	18.30	-	-
40	13.70	15.29	16.42	17.25	17.96	18.70	19.64	-	-
45	14.02	15.83	17.16	18.15	18.99	19.83	20.85	-	-
50	14.20	16.23	17.75	18.91	19.88	20.83	21.92	-	-
55	14.24	16.51	18.22	19.55	20.67	21.73	22.90	-	-
60	-	-	18.59	20.09	21.35	22.52	23.78	-	-
65	-	-	-	20.55	21.95	23.24	24.59	-	-
70	-	-	-	-	-	23.91	25.34	-	-
Mass flow in kg/h									
35	288	373	473	588	720	869	1 039	-	-
40	278	364	464	579	710	858	1 026	-	-
45	266	353	453	568	698	846	1 012	-	-
50	252	339	440	554	684	831	996	-	-
55	234	323	424	538	667	813	977	-	-
60	-	-	404	519	648	793	955	-	-
65	-	-	-	495	624	768	930	-	-
70	-	-	-	-	-	740	900	-	-
Coefficient of performance (C.O.P.)									
35	1.79	2.16	2.59	3.07	3.60	4.16	4.74	-	-
40	1.59	1.92	2.31	2.74	3.21	3.73	4.27	-	-
45	1.41	1.70	2.04	2.43	2.85	3.32	3.82	-	-
50	1.24	1.51	1.80	2.14	2.52	2.94	3.39	-	-
55	1.08	1.32	1.59	1.88	2.22	2.58	2.99	-	-
60	-	-	1.39	1.65	1.94	2.26	2.62	-	-
65	-	-	-	1.43	1.68	1.97	2.28	-	-
70	-	-	-	-	-	1.69	1.97	-	-

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

Cooling capacity	26 267	W
Power input	10 424	W
Current consumption	19.88	A
Mass flow	684	kg/h
C.O.P.	2.52	

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

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Performance data at 70 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	12 829	16 975	21 937	27 804	34 664	42 604	51 713	-	-
40	11 832	15 824	20 583	26 196	32 754	40 344	49 053	-	-
45	10 780	14 615	19 167	24 524	30 776	38 012	46 318	-	-
50	9 670	13 346	17 689	22 787	28 731	35 609	43 510	-	-
55	8 502	12 016	16 146	20 983	26 615	33 134	40 626	-	-
60	-	-	14 538	19 111	24 430	30 586	37 669	-	-
65	-	-	-	17 169	22 174	27 967	34 639	-	-
70	-	-	-	-	-	25 276	31 538	-	-
Power input in W									
35	6 619	7 257	7 841	8 396	8 950	9 531	10 166	-	-
40	6 839	7 572	8 230	8 840	9 429	10 024	10 654	-	-
45	6 995	7 844	8 597	9 282	9 926	10 557	11 202	-	-
50	7 069	8 054	8 923	9 704	10 424	11 111	11 792	-	-
55	7 043	8 184	9 190	10 088	10 905	11 668	12 405	-	-
60	-	-	9 380	10 415	11 349	12 209	13 024	-	-
65	-	-	-	10 666	11 738	12 717	13 629	-	-
70	-	-	-	-	-	13 172	14 203	-	-
Current consumption in A									
35	13.21	14.58	15.52	16.20	16.78	17.42	18.30	-	-
40	13.70	15.29	16.42	17.25	17.96	18.70	19.64	-	-
45	14.02	15.83	17.16	18.15	18.99	19.83	20.85	-	-
50	14.20	16.23	17.75	18.91	19.88	20.83	21.92	-	-
55	14.24	16.51	18.22	19.55	20.67	21.73	22.90	-	-
60	-	-	18.59	20.09	21.35	22.52	23.78	-	-
65	-	-	-	20.55	21.95	23.24	24.59	-	-
70	-	-	-	-	-	23.91	25.34	-	-
Mass flow in kg/h									
35	286	372	471	585	716	865	1 033	-	-
40	277	362	462	576	706	854	1 020	-	-
45	265	351	451	565	694	841	1 006	-	-
50	250	338	438	551	681	826	990	-	-
55	233	321	421	535	664	809	971	-	-
60	-	-	402	516	644	788	950	-	-
65	-	-	-	493	621	764	924	-	-
70	-	-	-	-	-	736	895	-	-
Coefficient of performance (C.O.P.)									
35	1.94	2.34	2.80	3.31	3.87	4.47	5.09	-	-
40	1.73	2.09	2.50	2.96	3.47	4.02	4.60	-	-
45	1.54	1.86	2.23	2.64	3.10	3.60	4.13	-	-
50	1.37	1.66	1.98	2.35	2.76	3.20	3.69	-	-
55	1.21	1.47	1.76	2.08	2.44	2.84	3.27	-	-
60	-	-	1.55	1.84	2.15	2.51	2.89	-	-
65	-	-	-	1.61	1.89	2.20	2.54	-	-
70	-	-	-	-	-	1.92	2.22	-	-

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

Cooling capacity	29 645	W
Power input	11 184	W
Current consumption	21.03	A
Mass flow	728	kg/h
C.O.P.	2.65	

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

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Performance data at 75 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	12 719	16 850	21 805	27 676	34 557	42 544	51 727	-	-
40	11 665	15 625	20 358	25 956	32 514	40 125	48 883	-	-
45	10 560	14 343	18 847	24 166	30 394	37 623	45 948	-	-
50	9 408	13 007	17 276	22 308	28 198	35 039	42 925	-	-
55	8 211	11 619	15 646	20 386	25 932	32 378	39 817	-	-
60	-	-	13 962	18 402	23 597	29 641	36 627	-	-
65	-	-	-	16 360	21 197	26 832	33 359	-	-
70	-	-	-	-	-	23 955	30 015	-	-
Power input in W									
35	7 075	7 752	8 372	8 965	9 558	10 181	10 861	-	-
40	7 308	8 085	8 786	9 439	10 072	10 713	11 393	-	-
45	7 474	8 373	9 175	9 909	10 602	11 284	11 984	-	-
50	7 556	8 598	9 522	10 357	11 132	11 875	12 616	-	-
55	7 535	8 740	9 807	10 765	11 642	12 468	13 271	-	-
60	-	-	10 013	11 115	12 116	13 045	13 930	-	-
65	-	-	-	11 389	12 534	13 587	14 576	-	-
70	-	-	-	-	-	14 077	15 191	-	-
Current consumption in A									
35	14.63	16.15	17.19	17.95	18.59	19.30	20.28	-	-
40	15.17	16.93	18.19	19.11	19.89	20.72	21.76	-	-
45	15.54	17.54	19.00	20.11	21.04	21.97	23.09	-	-
50	15.73	17.99	19.67	20.95	22.03	23.08	24.29	-	-
55	15.78	18.29	20.19	21.67	22.90	24.07	25.37	-	-
60	-	-	20.59	22.26	23.65	24.96	26.35	-	-
65	-	-	-	22.76	24.32	25.75	27.24	-	-
70	-	-	-	-	-	26.48	28.07	-	-
Mass flow in kg/h									
35	309	401	508	631	772	933	1 115	-	-
40	298	391	498	621	762	922	1 102	-	-
45	286	379	486	609	749	908	1 087	-	-
50	270	364	472	595	734	892	1 070	-	-
55	252	346	454	577	716	873	1 050	-	-
60	-	-	434	556	695	851	1 026	-	-
65	-	-	-	532	670	825	999	-	-
70	-	-	-	-	-	795	967	-	-
Coefficient of performance (C.O.P.)									
35	1.80	2.17	2.60	3.09	3.62	4.18	4.76	-	-
40	1.60	1.93	2.32	2.75	3.23	3.75	4.29	-	-
45	1.41	1.71	2.05	2.44	2.87	3.33	3.83	-	-
50	1.25	1.51	1.81	2.15	2.53	2.95	3.40	-	-
55	1.09	1.33	1.60	1.89	2.23	2.60	3.00	-	-
60	-	-	1.39	1.66	1.95	2.27	2.63	-	-
65	-	-	-	1.44	1.69	1.97	2.29	-	-
70	-	-	-	-	-	1.70	1.98	-	-

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

Cooling capacity	28 198	W
Power input	11 132	W
Current consumption	22.03	A
Mass flow	734	kg/h
C.O.P.	2.53	

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

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Performance data at 75 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	13 776	18 220	23 538	29 830	37 192	45 721	55 514	-	-
40	12 703	16 984	22 088	28 113	35 158	43 319	52 694	-	-
45	11 571	15 683	20 567	26 320	33 041	40 828	49 778	-	-
50	10 383	14 320	18 977	24 451	30 843	38 250	46 770	-	-
55	9 139	12 896	17 320	22 511	28 567	35 588	43 672	-	-
60	-	-	15 599	20 500	26 216	32 847	40 490	-	-
65	-	-	-	18 422	23 793	30 028	37 227	-	-
70	-	-	-	-	-	27 138	33 890	-	-
Power input in W									
35	7 075	7 752	8 372	8 965	9 558	10 181	10 861	-	-
40	7 308	8 085	8 786	9 439	10 072	10 713	11 393	-	-
45	7 474	8 373	9 175	9 909	10 602	11 284	11 984	-	-
50	7 556	8 598	9 522	10 357	11 132	11 875	12 616	-	-
55	7 535	8 740	9 807	10 765	11 642	12 468	13 271	-	-
60	-	-	10 013	11 115	12 116	13 045	13 930	-	-
65	-	-	-	11 389	12 534	13 587	14 576	-	-
70	-	-	-	-	-	14 077	15 191	-	-
Current consumption in A									
35	14.63	16.15	17.19	17.95	18.59	19.30	20.28	-	-
40	15.17	16.93	18.19	19.11	19.89	20.72	21.76	-	-
45	15.54	17.54	19.00	20.11	21.04	21.97	23.09	-	-
50	15.73	17.99	19.67	20.95	22.03	23.08	24.29	-	-
55	15.78	18.29	20.19	21.67	22.90	24.07	25.37	-	-
60	-	-	20.59	22.26	23.65	24.96	26.35	-	-
65	-	-	-	22.76	24.32	25.75	27.24	-	-
70	-	-	-	-	-	26.48	28.07	-	-
Mass flow in kg/h									
35	307	399	505	628	768	928	1 109	-	-
40	297	389	496	618	758	917	1 096	-	-
45	284	377	484	606	745	903	1 081	-	-
50	269	362	469	592	731	888	1 064	-	-
55	251	345	452	574	713	869	1 044	-	-
60	-	-	431	553	691	847	1 021	-	-
65	-	-	-	529	666	821	994	-	-
70	-	-	-	-	-	791	962	-	-
Coefficient of performance (C.O.P.)									
35	1.95	2.35	2.81	3.33	3.89	4.49	5.11	-	-
40	1.74	2.10	2.51	2.98	3.49	4.04	4.63	-	-
45	1.55	1.87	2.24	2.66	3.12	3.62	4.15	-	-
50	1.37	1.67	1.99	2.36	2.77	3.22	3.71	-	-
55	1.21	1.48	1.77	2.09	2.45	2.85	3.29	-	-
60	-	-	1.56	1.84	2.16	2.52	2.91	-	-
65	-	-	-	1.62	1.90	2.21	2.55	-	-
70	-	-	-	-	-	1.93	2.23	-	-

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

Cooling capacity	31 829	W
Power input	11 946	W
Current consumption	23.31	A
Mass flow	781	kg/h
C.O.P.	2.66	

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

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Performance data at 80 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	13 589	17 993	23 275	29 539	36 886	45 421	55 247	-	-
40	12 460	16 685	21 734	27 712	34 722	42 866	52 248	-	-
45	11 278	15 312	20 119	25 802	32 463	40 206	49 134	-	-
50	10 049	13 884	18 437	23 814	30 117	37 448	45 912	-	-
55	8 783	12 406	16 697	21 757	27 691	34 600	42 590	-	-
60	-	-	14 904	19 638	25 192	31 670	39 174	-	-
65	-	-	-	17 464	22 628	28 663	35 672	-	-
70	-	-	-	-	-	25 589	32 092	-	-
Power input in W									
35	7 523	8 236	8 892	9 521	10 153	10 817	11 542	-	-
40	7 768	8 588	9 330	10 024	10 701	11 390	12 120	-	-
45	7 945	8 891	9 740	10 521	11 264	11 998	12 754	-	-
50	8 035	9 129	10 106	10 994	11 824	12 626	13 428	-	-
55	8 021	9 284	10 410	11 427	12 365	13 254	14 124	-	-
60	-	-	10 633	11 800	12 867	13 866	14 824	-	-
65	-	-	-	12 096	13 314	14 442	15 511	-	-
70	-	-	-	-	-	14 967	16 166	-	-
Current consumption in A									
35	16.16	17.84	18.99	19.83	20.54	21.33	22.41	-	-
40	16.76	18.71	20.09	21.11	21.98	22.89	24.05	-	-
45	17.16	19.38	21.00	22.22	23.24	24.27	25.52	-	-
50	17.38	19.87	21.73	23.15	24.34	25.51	26.84	-	-
55	17.44	20.21	22.31	23.94	25.30	26.60	28.03	-	-
60	-	-	22.75	24.60	26.14	27.58	29.11	-	-
65	-	-	-	25.14	26.87	28.45	30.10	-	-
70	-	-	-	-	-	29.24	31.00	-	-
Mass flow in kg/h									
35	330	428	542	673	824	996	1 190	-	-
40	319	417	532	663	814	985	1 178	-	-
45	305	404	519	650	800	971	1 163	-	-
50	289	389	504	635	784	954	1 145	-	-
55	269	370	485	616	765	933	1 123	-	-
60	-	-	463	594	742	909	1 098	-	-
65	-	-	-	567	715	881	1 068	-	-
70	-	-	-	-	-	849	1 034	-	-
Coefficient of performance (C.O.P.)									
35	1.81	2.18	2.62	3.10	3.63	4.20	4.79	-	-
40	1.60	1.94	2.33	2.76	3.24	3.76	4.31	-	-
45	1.42	1.72	2.07	2.45	2.88	3.35	3.85	-	-
50	1.25	1.52	1.82	2.17	2.55	2.97	3.42	-	-
55	1.09	1.34	1.60	1.90	2.24	2.61	3.02	-	-
60	-	-	1.40	1.66	1.96	2.28	2.64	-	-
65	-	-	-	1.44	1.70	1.98	2.30	-	-
70	-	-	-	-	-	1.71	1.99	-	-

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

Cooling capacity	30 117	W
Power input	11 824	W
Current consumption	24.34	A
Mass flow	784	kg/h
C.O.P.	2.55	

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

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Performance data at 80 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	14 718	19 455	25 126	31 838	39 698	48 814	59 291	-	-
40	13 569	18 135	23 581	30 015	37 545	46 279	56 322	-	-
45	12 358	16 743	21 954	28 101	35 291	43 631	53 231	-	-
50	11 091	15 286	20 253	26 102	32 941	40 880	50 025	-	-
55	9 775	13 770	18 483	24 025	30 505	38 032	46 714	-	-
60	-	-	16 651	21 877	27 988	35 095	43 306	-	-
65	-	-	-	19 664	25 399	32 077	39 809	-	-
70	-	-	-	-	-	28 989	36 236	-	-
Power input in W									
35	7 523	8 236	8 892	9 521	10 153	10 817	11 542	-	-
40	7 768	8 588	9 330	10 024	10 701	11 390	12 120	-	-
45	7 945	8 891	9 740	10 521	11 264	11 998	12 754	-	-
50	8 035	9 129	10 106	10 994	11 824	12 626	13 428	-	-
55	8 021	9 284	10 410	11 427	12 365	13 254	14 124	-	-
60	-	-	10 633	11 800	12 867	13 866	14 824	-	-
65	-	-	-	12 096	13 314	14 442	15 511	-	-
70	-	-	-	-	-	14 967	16 166	-	-
Current consumption in A									
35	16.16	17.84	18.99	19.83	20.54	21.33	22.41	-	-
40	16.76	18.71	20.09	21.11	21.98	22.89	24.05	-	-
45	17.16	19.38	21.00	22.22	23.24	24.27	25.52	-	-
50	17.38	19.87	21.73	23.15	24.34	25.51	26.84	-	-
55	17.44	20.21	22.31	23.94	25.30	26.60	28.03	-	-
60	-	-	22.75	24.60	26.14	27.58	29.11	-	-
65	-	-	-	25.14	26.87	28.45	30.10	-	-
70	-	-	-	-	-	29.24	31.00	-	-
Mass flow in kg/h									
35	328	426	539	670	820	991	1 184	-	-
40	317	415	529	660	809	979	1 172	-	-
45	304	402	516	647	796	965	1 157	-	-
50	287	387	501	632	780	949	1 138	-	-
55	268	368	482	613	761	928	1 117	-	-
60	-	-	461	591	738	905	1 092	-	-
65	-	-	-	565	711	877	1 062	-	-
70	-	-	-	-	-	844	1 029	-	-
Coefficient of performance (C.O.P.)									
35	1.96	2.36	2.83	3.34	3.91	4.51	5.14	-	-
40	1.75	2.11	2.53	2.99	3.51	4.06	4.65	-	-
45	1.56	1.88	2.25	2.67	3.13	3.64	4.17	-	-
50	1.38	1.67	2.00	2.37	2.79	3.24	3.73	-	-
55	1.22	1.48	1.78	2.10	2.47	2.87	3.31	-	-
60	-	-	1.57	1.85	2.18	2.53	2.92	-	-
65	-	-	-	1.63	1.91	2.22	2.57	-	-
70	-	-	-	-	-	1.94	2.24	-	-

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

Cooling capacity	33 999	W
Power input	12 692	W
Current consumption	25.75	A
Mass flow	835	kg/h
C.O.P.	2.68	

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

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Performance data at 85 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	14 454	19 128	24 733	31 385	39 194	48 276	58 743	-	-
40	13 250	17 736	23 099	29 454	36 914	45 591	55 600	-	-
45	11 990	16 273	21 380	27 424	34 519	42 777	52 313	-	-
50	10 687	14 753	19 588	25 307	32 022	39 847	48 895	-	-
55	9 354	13 187	17 736	23 115	29 436	36 813	45 359	-	-
60	-	-	15 837	20 861	26 773	33 687	41 716	-	-
65	-	-	-	18 557	24 046	30 483	37 980	-	-
70	-	-	-	-	-	27 213	34 164	-	-
Power input in W									
35	7 963	8 710	9 401	10 065	10 734	11 439	12 210	-	-
40	8 220	9 079	9 860	10 596	11 317	12 052	12 834	-	-
45	8 407	9 398	10 291	11 119	11 912	12 699	13 513	-	-
50	8 506	9 650	10 676	11 617	12 502	13 363	14 230	-	-
55	8 500	9 818	10 998	12 073	13 072	14 026	14 966	-	-
60	-	-	11 240	12 469	13 602	14 671	15 706	-	-
65	-	-	-	12 789	14 078	15 282	16 432	-	-
70	-	-	-	-	-	15 842	17 128	-	-
Current consumption in A									
35	17.79	19.65	20.92	21.84	22.63	23.51	24.69	-	-
40	18.46	20.60	22.13	23.26	24.21	25.22	26.49	-	-
45	18.91	21.35	23.13	24.47	25.61	26.74	28.11	-	-
50	19.16	21.90	23.94	25.51	26.82	28.10	29.57	-	-
55	19.22	22.27	24.58	26.38	27.88	29.31	30.89	-	-
60	-	-	25.07	27.10	28.80	30.39	32.08	-	-
65	-	-	-	27.69	29.59	31.34	33.16	-	-
70	-	-	-	-	-	32.20	34.14	-	-
Mass flow in kg/h									
35	351	455	576	716	876	1 058	1 265	-	-
40	339	444	565	705	865	1 047	1 254	-	-
45	324	430	552	691	851	1 033	1 238	-	-
50	307	413	535	675	834	1 015	1 219	-	-
55	287	393	515	654	813	993	1 196	-	-
60	-	-	492	631	789	967	1 169	-	-
65	-	-	-	603	760	937	1 137	-	-
70	-	-	-	-	-	903	1 101	-	-
Coefficient of performance (C.O.P.)									
35	1.82	2.20	2.63	3.12	3.65	4.22	4.81	-	-
40	1.61	1.95	2.34	2.78	3.26	3.78	4.33	-	-
45	1.43	1.73	2.08	2.47	2.90	3.37	3.87	-	-
50	1.26	1.53	1.83	2.18	2.56	2.98	3.44	-	-
55	1.10	1.34	1.61	1.91	2.25	2.62	3.03	-	-
60	-	-	1.41	1.67	1.97	2.30	2.66	-	-
65	-	-	-	1.45	1.71	1.99	2.31	-	-
70	-	-	-	-	-	1.72	1.99	-	-

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

Cooling capacity	32 022	W
Power input	12 502	W
Current consumption	26.82	A
Mass flow	834	kg/h
C.O.P.	2.56	

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

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Performance data at 85 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	15 655	20 682	26 700	33 827	42 182	51 882	63 044	-	-
40	14 429	19 277	25 062	31 902	39 915	49 221	59 935	-	-
45	13 139	17 794	23 330	29 868	37 525	46 422	56 675	-	-
50	11 795	16 242	21 517	27 738	35 025	43 498	53 275	-	-
55	10 411	14 636	19 634	25 524	32 427	40 463	49 751	-	-
60	-	-	17 694	23 239	29 745	37 330	46 116	-	-
65	-	-	-	20 896	26 991	34 114	42 385	-	-
70	-	-	-	-	-	30 828	38 575	-	-
Power input in W									
35	7 963	8 710	9 401	10 065	10 734	11 439	12 210	-	-
40	8 220	9 079	9 860	10 596	11 317	12 052	12 834	-	-
45	8 407	9 398	10 291	11 119	11 912	12 699	13 513	-	-
50	8 506	9 650	10 676	11 617	12 502	13 363	14 230	-	-
55	8 500	9 818	10 998	12 073	13 072	14 026	14 966	-	-
60	-	-	11 240	12 469	13 602	14 671	15 706	-	-
65	-	-	-	12 789	14 078	15 282	16 432	-	-
70	-	-	-	-	-	15 842	17 128	-	-
Current consumption in A									
35	17.79	19.65	20.92	21.84	22.63	23.51	24.69	-	-
40	18.46	20.60	22.13	23.26	24.21	25.22	26.49	-	-
45	18.91	21.35	23.13	24.47	25.61	26.74	28.11	-	-
50	19.16	21.90	23.94	25.51	26.82	28.10	29.57	-	-
55	19.22	22.27	24.58	26.38	27.88	29.31	30.89	-	-
60	-	-	25.07	27.10	28.80	30.39	32.08	-	-
65	-	-	-	27.69	29.59	31.34	33.16	-	-
70	-	-	-	-	-	32.20	34.14	-	-
Mass flow in kg/h									
35	349	453	573	712	871	1 053	1 258	-	-
40	337	442	562	701	860	1 042	1 247	-	-
45	323	428	549	688	847	1 027	1 231	-	-
50	306	411	532	671	830	1 009	1 212	-	-
55	286	391	513	651	809	988	1 190	-	-
60	-	-	489	627	784	962	1 162	-	-
65	-	-	-	600	756	932	1 131	-	-
70	-	-	-	-	-	898	1 095	-	-
Coefficient of performance (C.O.P.)									
35	1.97	2.37	2.84	3.36	3.93	4.54	5.16	-	-
40	1.76	2.12	2.54	3.01	3.53	4.08	4.67	-	-
45	1.56	1.89	2.27	2.69	3.15	3.66	4.19	-	-
50	1.39	1.68	2.02	2.39	2.80	3.26	3.74	-	-
55	1.22	1.49	1.79	2.11	2.48	2.88	3.32	-	-
60	-	-	1.57	1.86	2.19	2.54	2.94	-	-
65	-	-	-	1.63	1.92	2.23	2.58	-	-
70	-	-	-	-	-	1.95	2.25	-	-

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

Cooling capacity	36 156	W
Power input	13 423	W
Current consumption	28.38	A
Mass flow	888	kg/h
C.O.P.	2.69	

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

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Performance data at 90 Hz, EN 12900 rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	15 315	20 254	26 179	33 214	41 482	51 109	62 217	-	-
40	14 036	18 779	24 453	31 182	39 090	48 301	58 939	-	-
45	12 698	17 226	22 630	29 033	36 561	45 337	55 485	-	-
50	11 322	15 614	20 727	26 786	33 914	42 235	51 873	-	-
55	9 924	13 962	18 765	24 459	31 167	39 014	48 123	-	-
60	-	-	16 762	22 072	28 341	35 693	44 253	-	-
65	-	-	-	19 642	25 452	32 291	40 283	-	-
70	-	-	-	-	-	28 827	36 230	-	-
Power input in W									
35	8 395	9 174	9 897	10 596	11 302	12 047	12 863	-	-
40	8 663	9 559	10 379	11 155	11 919	12 702	13 536	-	-
45	8 860	9 892	10 829	11 703	12 545	13 387	14 260	-	-
50	8 968	10 158	11 233	12 224	13 165	14 086	15 019	-	-
55	8 973	10 340	11 572	12 703	13 763	14 783	15 796	-	-
60	-	-	11 833	13 122	14 322	15 462	16 576	-	-
65	-	-	-	13 466	14 826	16 107	17 341	-	-
70	-	-	-	-	-	16 701	18 076	-	-
Current consumption in A									
35	19.54	21.58	22.98	23.99	24.86	25.83	27.13	-	-
40	20.28	22.63	24.30	25.55	26.60	27.70	29.10	-	-
45	20.77	23.45	25.41	26.89	28.13	29.38	30.88	-	-
50	21.05	24.06	26.30	28.03	29.47	30.87	32.49	-	-
55	21.12	24.47	27.01	28.98	30.63	32.20	33.94	-	-
60	-	-	27.54	29.78	31.64	33.38	35.24	-	-
65	-	-	-	30.42	32.51	34.43	36.42	-	-
70	-	-	-	-	-	35.35	37.49	-	-
Mass flow in kg/h									
35	372	482	610	757	927	1 120	1 340	-	-
40	359	470	598	746	916	1 110	1 329	-	-
45	343	455	584	732	902	1 095	1 313	-	-
50	325	437	566	714	883	1 076	1 294	-	-
55	304	416	545	693	861	1 052	1 269	-	-
60	-	-	521	667	835	1 025	1 240	-	-
65	-	-	-	638	804	993	1 206	-	-
70	-	-	-	-	-	956	1 168	-	-
Coefficient of performance (C.O.P.)									
35	1.82	2.21	2.65	3.13	3.67	4.24	4.84	-	-
40	1.62	1.96	2.36	2.80	3.28	3.80	4.35	-	-
45	1.43	1.74	2.09	2.48	2.91	3.39	3.89	-	-
50	1.26	1.54	1.85	2.19	2.58	3.00	3.45	-	-
55	1.11	1.35	1.62	1.93	2.26	2.64	3.05	-	-
60	-	-	1.42	1.68	1.98	2.31	2.67	-	-
65	-	-	-	1.46	1.72	2.00	2.32	-	-
70	-	-	-	-	-	1.73	2.00	-	-

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

Cooling capacity	33 914	W
Power input	13 165	W
Current consumption	29.47	A
Mass flow	883	kg/h
C.O.P.	2.58	

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

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Performance data at 90 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-15	-10	-5	0	5	10	15		
Cooling capacity in W									
35	16 587	21 900	28 260	35 799	44 644	54 926	66 772	-	-
40	15 285	20 411	26 531	33 773	42 269	52 146	63 534	-	-
45	13 914	18 835	24 694	31 620	39 745	49 199	60 110	-	-
50	12 495	17 191	22 768	29 359	37 095	46 105	56 520	-	-
55	11 046	15 496	20 773	27 009	34 335	42 883	52 783	-	-
60	-	-	18 727	24 588	31 486	39 554	48 921	-	-
65	-	-	-	22 117	28 569	36 137	44 955	-	-
70	-	-	-	-	-	32 656	40 908	-	-
Power input in W									
35	8 395	9 174	9 897	10 596	11 302	12 047	12 863	-	-
40	8 663	9 559	10 379	11 155	11 919	12 702	13 536	-	-
45	8 860	9 892	10 829	11 703	12 545	13 387	14 260	-	-
50	8 968	10 158	11 233	12 224	13 165	14 086	15 019	-	-
55	8 973	10 340	11 572	12 703	13 763	14 783	15 796	-	-
60	-	-	11 833	13 122	14 322	15 462	16 576	-	-
65	-	-	-	13 466	14 826	16 107	17 341	-	-
70	-	-	-	-	-	16 701	18 076	-	-
Current consumption in A									
35	19.54	21.58	22.98	23.99	24.86	25.83	27.13	-	-
40	20.28	22.63	24.30	25.55	26.60	27.70	29.10	-	-
45	20.77	23.45	25.41	26.89	28.13	29.38	30.88	-	-
50	21.05	24.06	26.30	28.03	29.47	30.87	32.49	-	-
55	21.12	24.47	27.01	28.98	30.63	32.20	33.94	-	-
60	-	-	27.54	29.78	31.64	33.38	35.24	-	-
65	-	-	-	30.42	32.51	34.43	36.42	-	-
70	-	-	-	-	-	35.35	37.49	-	-
Mass flow in kg/h									
35	370	480	607	753	922	1 114	1 333	-	-
40	357	468	595	742	911	1 104	1 322	-	-
45	342	453	581	728	897	1 089	1 306	-	-
50	324	435	563	710	879	1 070	1 286	-	-
55	303	414	542	689	856	1 047	1 262	-	-
60	-	-	518	664	830	1 019	1 233	-	-
65	-	-	-	635	800	988	1 200	-	-
70	-	-	-	-	-	951	1 161	-	-
Coefficient of performance (C.O.P.)									
35	1.98	2.39	2.86	3.38	3.95	4.56	5.19	-	-
40	1.76	2.14	2.56	3.03	3.55	4.11	4.69	-	-
45	1.57	1.90	2.28	2.70	3.17	3.68	4.22	-	-
50	1.39	1.69	2.03	2.40	2.82	3.27	3.76	-	-
55	1.23	1.50	1.80	2.13	2.49	2.90	3.34	-	-
60	-	-	1.58	1.87	2.20	2.56	2.95	-	-
65	-	-	-	1.64	1.93	2.24	2.59	-	-
70	-	-	-	-	-	1.96	2.26	-	-

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

Cooling capacity	38 298	W
Power input	14 139	W
Current consumption	31.18	A
Mass flow	940	kg/h
C.O.P.	2.71	

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

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Performance data at 30 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	4 793	6 686	9 049	11 936	15 400	19 494	-	-	-
30	3 696	5 327	7 352	9 824	12 795	16 319	20 448	25 235	-
35	3 182	4 685	6 544	8 810	11 537	14 779	18 587	23 014	-
40	2 689	4 065	5 759	7 821	10 306	13 267	16 755	20 824	-
45	2 213	3 465	4 994	6 855	9 099	11 780	14 950	18 663	-
50	1 752	2 880	4 248	5 908	7 913	10 317	13 170	16 528	-
55	-	2 310	3 518	4 979	6 747	8 874	11 413	14 417	-
60	-	-	2 801	4 065	5 596	7 449	9 675	12 327	-
Power input in W									
20	3 004	3 313	3 577	3 790	3 947	4 042	-	-	-
30	3 184	3 598	3 971	4 297	4 571	4 787	4 939	5 023	-
35	3 232	3 705	4 139	4 529	4 868	5 151	5 374	5 529	-
40	3 244	3 782	4 282	4 740	5 150	5 505	5 802	6 033	-
45	3 218	3 825	4 396	4 927	5 412	5 844	6 219	6 531	-
50	3 148	3 829	4 476	5 085	5 649	6 163	6 622	7 019	-
55	-	3 790	4 518	5 209	5 857	6 458	7 005	7 493	-
60	-	-	4 517	5 295	6 033	6 724	7 364	7 947	-
Current consumption in A									
20	5.04	5.60	6.04	6.40	6.71	6.98	-	-	-
30	5.37	6.04	6.58	7.02	7.39	7.70	8.00	8.29	-
35	5.43	6.18	6.79	7.29	7.71	8.08	8.41	8.73	-
40	5.43	6.27	6.96	7.55	8.04	8.46	8.84	9.21	-
45	5.36	6.31	7.10	7.78	8.35	8.85	9.30	9.73	-
50	5.22	6.29	7.21	7.99	8.67	9.26	9.79	10.29	-
55	-	6.23	7.28	8.19	8.98	9.68	10.31	10.90	-
60	-	-	7.32	8.37	9.29	10.11	10.85	11.55	-
Mass flow in kg/h									
20	133	182	241	310	392	487	-	-	-
30	116	164	220	287	364	454	558	676	-
35	108	155	210	275	351	438	539	654	-
40	99	145	199	263	337	422	520	633	-
45	89	135	188	250	323	406	502	611	-
50	79	124	176	237	308	389	483	589	-
55	-	112	164	224	293	372	463	567	-
60	-	-	150	209	276	354	443	544	-
Coefficient of performance (C.O.P.)									
20	1.60	2.02	2.53	3.15	3.90	4.82	-	-	-
30	1.16	1.48	1.85	2.29	2.80	3.41	4.14	5.02	-
35	0.98	1.26	1.58	1.95	2.37	2.87	3.46	4.16	-
40	0.83	1.07	1.34	1.65	2.00	2.41	2.89	3.45	-
45	0.69	0.91	1.14	1.39	1.68	2.02	2.40	2.86	-
50	0.56	0.75	0.95	1.16	1.40	1.67	1.99	2.35	-
55	-	0.61	0.78	0.96	1.15	1.37	1.63	1.92	-
60	-	-	0.62	0.77	0.93	1.11	1.31	1.55	-

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

Cooling capacity	9 099	W
Power input	5 412	W
Current consumption	8.35	A
Mass flow	323	kg/h
C.O.P.	1.68	

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	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

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Performance data at 30 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	5 249	7 305	9 868	12 993	16 733	21 145	-	-	-
30	4 114	5 914	8 141	10 851	14 101	17 945	22 439	27 638	-
35	3 580	5 255	7 317	9 824	12 831	16 394	20 569	25 412	-
40	3 065	4 617	6 517	8 822	11 588	14 873	18 732	23 221	-
45	2 565	3 997	5 737	7 843	10 372	13 381	16 927	21 066	-
50	-	3 392	4 977	6 887	9 182	11 919	15 156	18 949	-
55	-	-	4 233	5 953	8 019	10 490	13 425	16 880	-
60	-	-	-	5 046	6 892	9 107	11 750	14 880	-
Power input in W									
20	3 004	3 313	3 577	3 790	3 947	4 042	-	-	-
30	3 184	3 598	3 971	4 297	4 571	4 787	4 939	5 023	-
35	3 232	3 705	4 139	4 529	4 868	5 151	5 374	5 529	-
40	3 244	3 782	4 282	4 740	5 150	5 505	5 802	6 033	-
45	3 218	3 825	4 396	4 927	5 412	5 844	6 219	6 531	-
50	-	3 829	4 476	5 085	5 649	6 163	6 622	7 019	-
55	-	-	4 518	5 209	5 857	6 458	7 005	7 493	-
60	-	-	-	5 295	6 033	6 724	7 364	7 947	-
Current consumption in A									
20	5.04	5.60	6.04	6.40	6.71	6.98	-	-	-
30	5.37	6.04	6.58	7.02	7.39	7.70	8.00	8.29	-
35	5.43	6.18	6.79	7.29	7.71	8.08	8.41	8.73	-
40	5.43	6.27	6.96	7.55	8.04	8.46	8.84	9.21	-
45	5.36	6.31	7.10	7.78	8.35	8.85	9.30	9.73	-
50	-	6.29	7.21	7.99	8.67	9.26	9.79	10.29	-
55	-	-	7.28	8.19	8.98	9.68	10.31	10.90	-
60	-	-	-	8.37	9.29	10.11	10.85	11.55	-
Mass flow in kg/h									
20	132	181	239	309	390	484	-	-	-
30	116	163	219	285	362	452	554	671	-
35	107	154	209	273	349	436	536	650	-
40	98	144	198	261	335	420	517	628	-
45	89	134	187	249	321	404	499	607	-
50	-	123	175	236	306	387	480	585	-
55	-	-	163	222	291	370	460	563	-
60	-	-	-	208	275	352	440	540	-
Coefficient of performance (C.O.P.)									
20	1.75	2.21	2.76	3.43	4.24	5.23	-	-	-
30	1.29	1.64	2.05	2.53	3.09	3.75	4.54	5.50	-
35	1.11	1.42	1.77	2.17	2.64	3.18	3.83	4.60	-
40	0.94	1.22	1.52	1.86	2.25	2.70	3.23	3.85	-
45	0.80	1.05	1.31	1.59	1.92	2.29	2.72	3.23	-
50	-	0.89	1.11	1.35	1.63	1.93	2.29	2.70	-
55	-	-	0.94	1.14	1.37	1.62	1.92	2.25	-
60	-	-	-	0.95	1.14	1.35	1.60	1.87	-

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

Cooling capacity	10 372	W
Power input	5 412	W
Current consumption	8.35	A
Mass flow	321	kg/h
C.O.P.	1.92	

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	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

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Performance data at 35 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	5 433	7 577	10 287	13 631	17 675	22 488	-	-	-
30	4 297	6 144	8 459	11 308	14 760	18 882	23 742	29 407	-
35	3 759	5 464	7 588	10 197	13 359	17 142	21 614	26 842	-
40	3 234	4 801	6 738	9 111	11 988	15 436	19 524	24 319	-
45	2 715	4 149	5 903	8 045	10 641	13 759	17 468	21 834	-
50	2 198	3 503	5 079	6 993	9 312	12 105	15 439	19 381	-
55	-	2 857	4 259	5 950	7 997	10 469	13 432	16 954	-
60	-	-	3 437	4 910	6 689	8 844	11 441	14 548	-
Power input in W									
20	3 287	3 673	4 012	4 297	4 519	4 672	-	-	-
30	3 533	4 032	4 490	4 898	5 250	5 537	5 752	5 886	-
35	3 616	4 177	4 699	5 175	5 596	5 955	6 244	6 455	-
40	3 669	4 295	4 884	5 430	5 924	6 358	6 725	7 016	-
45	3 688	4 382	5 043	5 662	6 231	6 744	7 192	7 567	-
50	3 671	4 436	5 171	5 866	6 515	7 110	7 642	8 104	-
55	-	4 454	5 266	6 041	6 773	7 452	8 072	8 624	-
60	-	-	5 324	6 183	7 000	7 768	8 479	9 125	-
Current consumption in A									
20	5.42	6.04	6.56	7.00	7.36	7.67	-	-	-
30	5.76	6.48	7.10	7.63	8.08	8.46	8.80	9.11	-
35	5.85	6.65	7.34	7.93	8.45	8.90	9.29	9.65	-
40	5.89	6.78	7.55	8.23	8.82	9.35	9.82	10.25	-
45	5.87	6.86	7.74	8.51	9.20	9.81	10.37	10.88	-
50	5.79	6.90	7.89	8.77	9.57	10.29	10.95	11.56	-
55	-	6.89	8.01	9.02	9.93	10.77	11.55	12.28	-
60	-	-	8.09	9.24	10.29	11.26	12.17	13.03	-
Mass flow in kg/h									
20	151	206	274	354	450	562	-	-	-
30	135	189	254	330	420	526	648	788	-
35	127	180	244	318	406	508	627	763	-
40	119	171	233	306	392	491	606	739	-
45	109	161	222	294	377	474	586	714	-
50	98	151	211	281	362	457	566	690	-
55	-	138	198	267	347	439	545	666	-
60	-	-	184	252	330	420	524	642	-
Coefficient of performance (C.O.P.)									
20	1.65	2.06	2.56	3.17	3.91	4.81	-	-	-
30	1.22	1.52	1.88	2.31	2.81	3.41	4.13	5.00	-
35	1.04	1.31	1.61	1.97	2.39	2.88	3.46	4.16	-
40	0.88	1.12	1.38	1.68	2.02	2.43	2.90	3.47	-
45	0.74	0.95	1.17	1.42	1.71	2.04	2.43	2.89	-
50	0.60	0.79	0.98	1.19	1.43	1.70	2.02	2.39	-
55	-	0.64	0.81	0.98	1.18	1.40	1.66	1.97	-
60	-	-	0.65	0.79	0.96	1.14	1.35	1.59	-

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

Cooling capacity	10 641	W
Power input	6 231	W
Current consumption	9.20	A
Mass flow	377	kg/h
C.O.P.	1.71	

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	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

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Performance data at 35 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	5 949	8 280	11 219	14 837	19 206	24 394	-	-	-
30	4 783	6 821	9 366	12 491	16 267	20 764	26 054	32 208	-
35	4 230	6 129	8 485	11 370	14 856	19 016	23 919	29 639	-
40	3 687	5 453	7 625	10 276	13 479	17 305	21 828	27 118	-
45	3 147	4 787	6 782	9 204	12 129	15 629	19 777	24 645	-
50	-	4 126	5 950	8 151	10 805	13 985	17 766	22 220	-
55	-	-	5 125	7 114	9 506	12 376	15 800	19 851	-
60	-	-	-	6 095	8 238	10 813	13 895	17 561	-
Power input in W									
20	3 287	3 673	4 012	4 297	4 519	4 672	-	-	-
30	3 533	4 032	4 490	4 898	5 250	5 537	5 752	5 886	-
35	3 616	4 177	4 699	5 175	5 596	5 955	6 244	6 455	-
40	3 669	4 295	4 884	5 430	5 924	6 358	6 725	7 016	-
45	3 688	4 382	5 043	5 662	6 231	6 744	7 192	7 567	-
50	-	4 436	5 171	5 866	6 515	7 110	7 642	8 104	-
55	-	-	5 266	6 041	6 773	7 452	8 072	8 624	-
60	-	-	-	6 183	7 000	7 768	8 479	9 125	-
Current consumption in A									
20	5.42	6.04	6.56	7.00	7.36	7.67	-	-	-
30	5.76	6.48	7.10	7.63	8.08	8.46	8.80	9.11	-
35	5.85	6.65	7.34	7.93	8.45	8.90	9.29	9.65	-
40	5.89	6.78	7.55	8.23	8.82	9.35	9.82	10.25	-
45	5.87	6.86	7.74	8.51	9.20	9.81	10.37	10.88	-
50	-	6.90	7.89	8.77	9.57	10.29	10.95	11.56	-
55	-	-	8.01	9.02	9.93	10.77	11.55	12.28	-
60	-	-	-	9.24	10.29	11.26	12.17	13.03	-
Mass flow in kg/h									
20	150	205	272	352	447	558	-	-	-
30	135	188	252	328	418	522	644	783	-
35	127	179	242	316	404	505	623	758	-
40	118	170	232	304	389	488	603	734	-
45	109	160	221	292	375	471	582	710	-
50	-	150	210	279	360	454	562	686	-
55	-	-	197	266	345	436	541	662	-
60	-	-	-	251	328	418	520	637	-
Coefficient of performance (C.O.P.)									
20	1.81	2.25	2.80	3.45	4.25	5.22	-	-	-
30	1.35	1.69	2.09	2.55	3.10	3.75	4.53	5.47	-
35	1.17	1.47	1.81	2.20	2.65	3.19	3.83	4.59	-
40	1.00	1.27	1.56	1.89	2.28	2.72	3.25	3.87	-
45	0.85	1.09	1.34	1.63	1.95	2.32	2.75	3.26	-
50	-	0.93	1.15	1.39	1.66	1.97	2.32	2.74	-
55	-	-	0.97	1.18	1.40	1.66	1.96	2.30	-
60	-	-	-	0.99	1.18	1.39	1.64	1.92	-

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

Cooling capacity	12 129	W
Power input	6 231	W
Current consumption	9.20	A
Mass flow	375	kg/h
C.O.P.	1.95	

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	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

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Performance data at 40 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	
Cooling capacity in W									
20	6 113	8 516	11 573	15 365	19 972	25 476	-	-	-
30	4 918	6 993	9 604	12 833	16 761	21 470	27 039	33 551	-
35	4 345	6 263	8 661	11 618	15 215	19 535	24 657	30 663	-
40	3 776	5 545	7 735	10 426	13 699	17 635	22 315	27 821	-
45	3 205	4 831	6 819	9 249	12 204	15 763	20 008	25 020	-
50	2 624	4 113	5 905	8 081	10 722	13 910	17 726	22 250	-
55	-	3 382	4 984	6 912	9 247	12 070	15 462	19 504	-
60	-	-	4 051	5 736	7 770	10 234	13 208	16 774	-
Power input in W									
20	3 620	4 085	4 502	4 860	5 151	5 365	-	-	-
30	3 920	4 509	5 056	5 551	5 986	6 350	6 634	6 827	-
35	4 032	4 685	5 300	5 867	6 377	6 819	7 184	7 462	-
40	4 115	4 835	5 520	6 161	6 747	7 269	7 717	8 082	-
45	4 169	4 957	5 714	6 429	7 094	7 698	8 231	8 685	-
50	4 190	5 049	5 879	6 672	7 416	8 104	8 724	9 268	-
55	-	5 108	6 014	6 885	7 712	8 486	9 195	9 831	-
60	-	-	6 116	7 068	7 980	8 840	9 641	10 371	-
Current consumption in A									
20	5.84	6.55	7.16	7.69	8.14	8.51	-	-	-
30	6.19	7.00	7.71	8.33	8.88	9.36	9.77	10.13	-
35	6.32	7.19	7.97	8.66	9.29	9.84	10.33	10.76	-
40	6.39	7.35	8.21	9.00	9.70	10.34	10.92	11.45	-
45	6.41	7.47	8.43	9.32	10.13	10.87	11.55	12.18	-
50	6.37	7.54	8.62	9.62	10.55	11.41	12.21	12.96	-
55	-	7.56	8.77	9.90	10.96	11.95	12.89	13.77	-
60	-	-	8.87	10.15	11.35	12.49	13.57	14.61	-
Mass flow in kg/h									
20	169	232	308	400	509	637	-	-	-
30	155	215	288	375	477	598	738	899	-
35	147	207	278	363	462	579	715	872	-
40	139	198	268	350	448	561	693	845	-
45	129	188	257	338	433	543	671	819	-
50	118	177	245	325	417	525	649	793	-
55	-	164	232	310	401	506	627	766	-
60	-	-	217	295	384	486	605	740	-
Coefficient of performance (C.O.P.)									
20	1.69	2.08	2.57	3.16	3.88	4.75	-	-	-
30	1.25	1.55	1.90	2.31	2.80	3.38	4.08	4.91	-
35	1.08	1.34	1.63	1.98	2.39	2.86	3.43	4.11	-
40	0.92	1.15	1.40	1.69	2.03	2.43	2.89	3.44	-
45	0.77	0.97	1.19	1.44	1.72	2.05	2.43	2.88	-
50	0.63	0.81	1.00	1.21	1.45	1.72	2.03	2.40	-
55	-	0.66	0.83	1.00	1.20	1.42	1.68	1.98	-
60	-	-	0.66	0.81	0.97	1.16	1.37	1.62	-

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

Cooling capacity	12 204	W
Power input	7 094	W
Current consumption	10.13	A
Mass flow	433	kg/h
C.O.P.	1.72	

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	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

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Performance data at 40 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	6 694	9 306	12 621	16 725	21 701	27 635	-	-	-
30	5 475	7 763	10 634	14 175	18 472	23 609	29 673	36 746	-
35	4 888	7 025	9 685	12 954	16 921	21 670	27 287	33 858	-
40	4 305	6 298	8 753	11 759	15 402	19 770	24 949	31 024	-
45	3 715	5 574	7 833	10 583	13 911	17 905	22 653	28 241	-
50	-	4 844	6 917	9 419	12 441	16 071	20 398	25 509	-
55	-	-	5 998	8 265	10 991	14 269	18 188	22 836	-
60	-	-	-	7 121	9 569	12 512	16 041	20 248	-
Power input in W									
20	3 620	4 085	4 502	4 860	5 151	5 365	-	-	-
30	3 920	4 509	5 056	5 551	5 986	6 350	6 634	6 827	-
35	4 032	4 685	5 300	5 867	6 377	6 819	7 184	7 462	-
40	4 115	4 835	5 520	6 161	6 747	7 269	7 717	8 082	-
45	4 169	4 957	5 714	6 429	7 094	7 698	8 231	8 685	-
50	-	5 049	5 879	6 672	7 416	8 104	8 724	9 268	-
55	-	-	6 014	6 885	7 712	8 486	9 195	9 831	-
60	-	-	-	7 068	7 980	8 840	9 641	10 371	-
Current consumption in A									
20	5.84	6.55	7.16	7.69	8.14	8.51	-	-	-
30	6.19	7.00	7.71	8.33	8.88	9.36	9.77	10.13	-
35	6.32	7.19	7.97	8.66	9.29	9.84	10.33	10.76	-
40	6.39	7.35	8.21	9.00	9.70	10.34	10.92	11.45	-
45	6.41	7.47	8.43	9.32	10.13	10.87	11.55	12.18	-
50	-	7.54	8.62	9.62	10.55	11.41	12.21	12.96	-
55	-	-	8.77	9.90	10.96	11.95	12.89	13.77	-
60	-	-	-	10.15	11.35	12.49	13.57	14.61	-
Mass flow in kg/h									
20	169	231	306	397	506	633	-	-	-
30	154	214	286	372	474	594	733	894	-
35	146	206	276	360	460	576	710	866	-
40	138	197	266	348	445	558	689	839	-
45	128	187	256	336	430	540	667	813	-
50	-	176	244	323	415	522	645	787	-
55	-	-	231	309	399	503	623	761	-
60	-	-	-	293	381	483	601	735	-
Coefficient of performance (C.O.P.)									
20	1.85	2.28	2.80	3.44	4.21	5.15	-	-	-
30	1.40	1.72	2.10	2.55	3.09	3.72	4.47	5.38	-
35	1.21	1.50	1.83	2.21	2.65	3.18	3.80	4.54	-
40	1.05	1.30	1.59	1.91	2.28	2.72	3.23	3.84	-
45	0.89	1.12	1.37	1.65	1.96	2.33	2.75	3.25	-
50	-	0.96	1.18	1.41	1.68	1.98	2.34	2.75	-
55	-	-	1.00	1.20	1.43	1.68	1.98	2.32	-
60	-	-	-	1.01	1.20	1.42	1.66	1.95	-

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

Cooling capacity	13 911	W
Power input	7 094	W
Current consumption	10.13	A
Mass flow	430	kg/h
C.O.P.	1.96	

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	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

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Performance data at 45 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	
Cooling capacity in W									
20	6 835	9 503	12 906	17 137	22 290	28 458	-	-	-
30	5 560	7 872	10 787	14 398	18 799	24 081	30 339	37 666	-
35	4 938	7 082	9 763	13 073	17 107	21 956	27 715	34 477	-
40	4 315	6 298	8 750	11 767	15 440	19 862	25 128	31 331	-
45	3 682	5 509	7 741	10 469	13 788	17 790	22 570	28 219	-
50	3 031	4 709	6 725	9 172	12 143	15 732	20 031	25 133	-
55	-	3 888	5 695	7 866	10 496	13 677	17 502	22 065	-
60	-	-	4 641	6 544	8 838	11 618	14 976	19 004	-
Power input in W									
20	4 003	4 550	5 046	5 480	5 842	6 120	-	-	-
30	4 346	5 029	5 669	6 256	6 778	7 225	7 586	7 848	-
35	4 479	5 230	5 943	6 607	7 211	7 744	8 194	8 550	-
40	4 584	5 404	6 191	6 932	7 618	8 237	8 778	9 229	-
45	4 660	5 550	6 411	7 231	7 999	8 705	9 337	9 883	-
50	4 706	5 666	6 602	7 501	8 353	9 146	9 869	10 512	-
55	-	5 752	6 763	7 741	8 677	9 558	10 374	11 113	-
60	-	-	6 892	7 951	8 971	9 941	10 849	11 686	-
Current consumption in A									
20	6.33	7.13	7.85	8.48	9.04	9.51	-	-	-
30	6.68	7.58	8.39	9.13	9.79	10.38	10.91	11.36	-
35	6.83	7.79	8.67	9.49	10.23	10.90	11.51	12.05	-
40	6.93	7.97	8.95	9.85	10.69	11.46	12.16	12.81	-
45	6.98	8.12	9.20	10.21	11.15	12.04	12.86	13.63	-
50	6.96	8.22	9.41	10.54	11.61	12.63	13.58	14.48	-
55	-	8.25	9.58	10.85	12.06	13.22	14.32	15.37	-
60	-	-	9.69	11.11	12.48	13.80	15.06	16.28	-
Mass flow in kg/h									
20	189	259	343	446	568	712	-	-	-
30	175	242	323	420	535	670	828	1 010	-
35	167	234	313	408	520	651	804	980	-
40	158	225	303	396	504	632	780	951	-
45	148	214	292	383	489	613	757	923	-
50	136	202	279	369	473	594	734	895	-
55	-	188	265	353	455	574	710	867	-
60	-	-	249	336	436	552	685	838	-
Coefficient of performance (C.O.P.)									
20	1.71	2.09	2.56	3.13	3.82	4.65	-	-	-
30	1.28	1.57	1.90	2.30	2.77	3.33	4.00	4.80	-
35	1.10	1.35	1.64	1.98	2.37	2.84	3.38	4.03	-
40	0.94	1.17	1.41	1.70	2.03	2.41	2.86	3.39	-
45	0.79	0.99	1.21	1.45	1.72	2.04	2.42	2.86	-
50	0.64	0.83	1.02	1.22	1.45	1.72	2.03	2.39	-
55	-	0.68	0.84	1.02	1.21	1.43	1.69	1.99	-
60	-	-	0.67	0.82	0.99	1.17	1.38	1.63	-

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

Cooling capacity	13 788	W
Power input	7 999	W
Current consumption	11.15	A
Mass flow	489	kg/h
C.O.P.	1.72	

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	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

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Performance data at 45 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	7 485	10 384	14 075	18 654	24 220	30 869	-	-	-
30	6 189	8 739	11 945	15 904	20 717	26 481	33 294	41 253	-
35	5 556	7 943	10 917	14 578	19 024	24 356	30 672	38 069	-
40	4 919	7 152	9 902	13 272	17 360	22 267	28 093	34 937	-
45	4 268	6 356	8 892	11 978	15 717	20 208	25 553	31 852	-
50	-	5 546	7 878	10 691	14 089	18 175	23 050	28 815	-
55	-	-	6 852	9 405	12 476	16 169	20 588	25 835	-
60	-	-	-	8 123	10 885	14 204	18 188	22 941	-
Power input in W									
20	4 003	4 550	5 046	5 480	5 842	6 120	-	-	-
30	4 346	5 029	5 669	6 256	6 778	7 225	7 586	7 848	-
35	4 479	5 230	5 943	6 607	7 211	7 744	8 194	8 550	-
40	4 584	5 404	6 191	6 932	7 618	8 237	8 778	9 229	-
45	4 660	5 550	6 411	7 231	7 999	8 705	9 337	9 883	-
50	-	5 666	6 602	7 501	8 353	9 146	9 869	10 512	-
55	-	-	6 763	7 741	8 677	9 558	10 374	11 113	-
60	-	-	-	7 951	8 971	9 941	10 849	11 686	-
Current consumption in A									
20	6.33	7.13	7.85	8.48	9.04	9.51	-	-	-
30	6.68	7.58	8.39	9.13	9.79	10.38	10.91	11.36	-
35	6.83	7.79	8.67	9.49	10.23	10.90	11.51	12.05	-
40	6.93	7.97	8.95	9.85	10.69	11.46	12.16	12.81	-
45	6.98	8.12	9.20	10.21	11.15	12.04	12.86	13.63	-
50	-	8.22	9.41	10.54	11.61	12.63	13.58	14.48	-
55	-	-	9.58	10.85	12.06	13.22	14.32	15.37	-
60	-	-	-	11.11	12.48	13.80	15.06	16.28	-
Mass flow in kg/h									
20	188	257	341	443	564	707	-	-	-
30	174	241	322	418	532	666	823	1 003	-
35	166	233	312	406	517	647	799	974	-
40	158	223	301	393	501	628	775	945	-
45	147	213	290	380	486	609	752	917	-
50	-	201	278	366	470	590	729	889	-
55	-	-	263	351	453	570	706	861	-
60	-	-	-	334	434	549	681	833	-
Coefficient of performance (C.O.P.)									
20	1.87	2.28	2.79	3.40	4.15	5.04	-	-	-
30	1.42	1.74	2.11	2.54	3.06	3.67	4.39	5.26	-
35	1.24	1.52	1.84	2.21	2.64	3.15	3.74	4.45	-
40	1.07	1.32	1.60	1.91	2.28	2.70	3.20	3.79	-
45	0.92	1.15	1.39	1.66	1.96	2.32	2.74	3.22	-
50	-	0.98	1.19	1.43	1.69	1.99	2.34	2.74	-
55	-	-	1.01	1.21	1.44	1.69	1.98	2.32	-
60	-	-	-	1.02	1.21	1.43	1.68	1.96	-

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

Cooling capacity	15 717	W
Power input	7 999	W
Current consumption	11.15	A
Mass flow	486	kg/h
C.O.P.	1.96	

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	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

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

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	7 599	10 537	14 285	18 948	24 629	31 433	-	-	-
30	6 221	8 783	12 009	16 004	20 872	26 717	33 643	41 754	-
35	5 540	7 921	10 894	14 564	19 034	24 408	30 790	38 284	-
40	4 851	7 058	9 784	13 133	17 210	22 119	27 963	34 847	-
45	4 147	6 184	8 669	11 704	15 394	19 843	25 154	31 433	-
50	3 418	5 292	7 540	10 266	13 575	17 569	22 354	28 032	-
55	-	4 372	6 389	8 812	11 744	15 290	19 553	24 638	-
60	-	-	5 208	7 333	9 894	12 997	16 744	21 240	-
Power input in W									
20	4 437	5 067	5 645	6 157	6 592	6 937	-	-	-
30	4 812	5 591	6 329	7 011	7 627	8 163	8 607	8 947	-
35	4 957	5 811	6 627	7 394	8 099	8 730	9 274	9 719	-
40	5 074	6 000	6 895	7 745	8 539	9 264	9 908	10 458	-
45	5 162	6 160	7 132	8 066	8 948	9 767	10 509	11 163	-
50	5 219	6 289	7 338	8 354	9 324	10 235	11 076	11 834	-
55	-	6 386	7 512	8 609	9 666	10 670	11 609	12 469	-
60	-	-	7 652	8 831	9 974	11 070	12 106	13 069	-
Current consumption in A									
20	6.86	7.78	8.62	9.38	10.07	10.67	-	-	-
30	7.23	8.23	9.16	10.02	10.82	11.55	12.20	12.79	-
35	7.39	8.45	9.46	10.40	11.28	12.09	12.84	13.52	-
40	7.51	8.66	9.75	10.79	11.76	12.68	13.54	14.33	-
45	7.57	8.82	10.02	11.17	12.26	13.30	14.28	15.21	-
50	7.55	8.93	10.25	11.53	12.76	13.94	15.06	16.13	-
55	-	8.96	10.43	11.85	13.23	14.57	15.85	17.09	-
60	-	-	10.52	12.12	13.66	15.17	16.64	18.06	-
Mass flow in kg/h									
20	211	287	380	493	627	786	-	-	-
30	196	270	360	467	594	744	918	1 119	-
35	188	262	350	454	578	724	893	1 088	-
40	178	252	339	441	562	704	868	1 058	-
45	167	241	327	428	546	684	844	1 028	-
50	153	227	313	413	528	663	819	999	-
55	-	212	297	396	509	641	793	968	-
60	-	-	279	377	489	618	766	937	-
Coefficient of performance (C.O.P.)									
20	1.71	2.08	2.53	3.08	3.74	4.53	-	-	-
30	1.29	1.57	1.90	2.28	2.74	3.27	3.91	4.67	-
35	1.12	1.36	1.64	1.97	2.35	2.80	3.32	3.94	-
40	0.96	1.18	1.42	1.70	2.02	2.39	2.82	3.33	-
45	0.80	1.00	1.22	1.45	1.72	2.03	2.39	2.82	-
50	0.66	0.84	1.03	1.23	1.46	1.72	2.02	2.37	-
55	-	0.68	0.85	1.02	1.22	1.43	1.68	1.98	-
60	-	-	0.68	0.83	0.99	1.17	1.38	1.63	-

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

Cooling capacity	15 394	W
Power input	8 948	W
Current consumption	12.26	A
Mass flow	546	kg/h
C.O.P.	1.72	

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	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

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

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	8 321	11 514	15 579	20 626	26 762	34 096	-	-	-
30	6 926	9 750	13 297	17 678	23 002	29 379	36 919	45 730	-
35	6 233	8 884	12 182	16 239	21 167	27 075	34 074	42 273	-
40	5 531	8 015	11 072	14 813	19 351	24 797	31 263	38 858	-
45	4 807	7 135	9 958	13 391	17 547	22 539	28 479	35 479	-
50	-	6 233	8 833	11 967	15 750	20 298	25 723	32 139	-
55	-	-	7 689	10 536	13 960	18 076	23 001	28 848	-
60	-	-	-	9 102	12 185	15 890	20 336	25 640	-
Power input in W									
20	4 437	5 067	5 645	6 157	6 592	6 937	-	-	-
30	4 812	5 591	6 329	7 011	7 627	8 163	8 607	8 947	-
35	4 957	5 811	6 627	7 394	8 099	8 730	9 274	9 719	-
40	5 074	6 000	6 895	7 745	8 539	9 264	9 908	10 458	-
45	5 162	6 160	7 132	8 066	8 948	9 767	10 509	11 163	-
50	-	6 289	7 338	8 354	9 324	10 235	11 076	11 834	-
55	-	-	7 512	8 609	9 666	10 670	11 609	12 469	-
60	-	-	-	8 831	9 974	11 070	12 106	13 069	-
Current consumption in A									
20	6.86	7.78	8.62	9.38	10.07	10.67	-	-	-
30	7.23	8.23	9.16	10.02	10.82	11.55	12.20	12.79	-
35	7.39	8.45	9.46	10.40	11.28	12.09	12.84	13.52	-
40	7.51	8.66	9.75	10.79	11.76	12.68	13.54	14.33	-
45	7.57	8.82	10.02	11.17	12.26	13.30	14.28	15.21	-
50	-	8.93	10.25	11.53	12.76	13.94	15.06	16.13	-
55	-	-	10.43	11.85	13.23	14.57	15.85	17.09	-
60	-	-	-	12.12	13.66	15.17	16.64	18.06	-
Mass flow in kg/h									
20	209	285	378	490	624	781	-	-	-
30	195	269	358	464	591	739	912	1 112	-
35	187	260	348	452	575	719	887	1 081	-
40	177	250	337	439	559	700	863	1 051	-
45	166	239	325	425	543	680	839	1 022	-
50	-	226	311	410	525	659	814	992	-
55	-	-	296	393	506	637	788	962	-
60	-	-	-	374	486	614	762	931	-
Coefficient of performance (C.O.P.)									
20	1.88	2.27	2.76	3.35	4.06	4.91	-	-	-
30	1.44	1.74	2.10	2.52	3.02	3.60	4.29	5.11	-
35	1.26	1.53	1.84	2.20	2.61	3.10	3.67	4.35	-
40	1.09	1.34	1.61	1.91	2.27	2.68	3.16	3.72	-
45	0.93	1.16	1.40	1.66	1.96	2.31	2.71	3.18	-
50	-	0.99	1.20	1.43	1.69	1.98	2.32	2.72	-
55	-	-	1.02	1.22	1.44	1.69	1.98	2.31	-
60	-	-	-	1.03	1.22	1.44	1.68	1.96	-

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

Cooling capacity	17 547	W
Power input	8 948	W
Current consumption	12.26	A
Mass flow	543	kg/h
C.O.P.	1.96	

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	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

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Performance data at 55 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	
Cooling capacity in W									
20	8 403	11 618	15 712	20 798	26 990	34 401	-	-	-
30	6 903	9 724	13 268	17 650	22 981	29 377	36 949	45 812	-
35	6 150	8 779	12 054	16 089	20 995	26 888	33 880	42 085	-
40	5 384	7 826	10 835	14 526	19 011	24 405	30 820	38 370	-
45	4 599	6 856	9 603	12 953	17 021	21 919	27 761	34 660	-
50	3 786	5 862	8 350	11 364	15 017	19 423	24 695	30 947	-
55	-	4 836	7 069	9 750	12 992	16 909	21 615	27 223	-
60	-	-	5 752	8 103	10 938	14 370	18 513	23 480	-
Power input in W									
20	4 920	5 637	6 298	6 891	7 402	7 817	-	-	-
30	5 316	6 197	7 035	7 818	8 532	9 163	9 699	10 126	-
35	5 467	6 428	7 352	8 227	9 040	9 777	10 424	10 970	-
40	5 587	6 625	7 633	8 599	9 509	10 350	11 108	11 769	-
45	5 674	6 788	7 879	8 934	9 939	10 882	11 748	12 525	-
50	5 728	6 917	8 088	9 231	10 330	11 372	12 345	13 236	-
55	-	7 010	8 261	9 489	10 680	11 821	12 899	13 901	-
60	-	-	8 397	9 708	10 989	12 227	13 409	14 520	-
Current consumption in A									
20	7.45	8.49	9.47	10.38	11.22	11.99	-	-	-
30	7.83	8.94	10.01	11.01	11.95	12.84	13.66	14.42	-
35	8.00	9.18	10.32	11.40	12.43	13.40	14.31	15.17	-
40	8.12	9.40	10.63	11.81	12.94	14.02	15.04	16.01	-
45	8.18	9.57	10.91	12.21	13.47	14.67	15.83	16.93	-
50	8.15	9.67	11.15	12.59	13.99	15.34	16.65	17.91	-
55	-	9.68	11.32	12.92	14.48	16.00	17.48	18.92	-
60	-	-	11.39	13.17	14.91	16.62	18.30	19.93	-
Mass flow in kg/h									
20	233	316	418	541	687	860	-	-	-
30	218	299	398	515	654	818	1 008	1 228	-
35	208	290	387	502	638	797	982	1 196	-
40	198	279	375	488	621	777	957	1 165	-
45	185	267	362	473	604	755	931	1 134	-
50	170	252	347	457	585	733	905	1 102	-
55	-	234	329	438	564	709	877	1 070	-
60	-	-	308	416	540	683	847	1 035	-
Coefficient of performance (C.O.P.)									
20	1.71	2.06	2.49	3.02	3.65	4.40	-	-	-
30	1.30	1.57	1.89	2.26	2.69	3.21	3.81	4.52	-
35	1.12	1.37	1.64	1.96	2.32	2.75	3.25	3.84	-
40	0.96	1.18	1.42	1.69	2.00	2.36	2.77	3.26	-
45	0.81	1.01	1.22	1.45	1.71	2.01	2.36	2.77	-
50	0.66	0.85	1.03	1.23	1.45	1.71	2.00	2.34	-
55	-	0.69	0.86	1.03	1.22	1.43	1.68	1.96	-
60	-	-	0.68	0.83	1.00	1.18	1.38	1.62	-

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

Cooling capacity	17 021	W
Power input	9 939	W
Current consumption	13.47	A
Mass flow	604	kg/h
C.O.P.	1.71	

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	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

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Performance data at 55 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	9 202	12 696	17 135	22 639	29 327	37 316	-	-	-
30	7 684	10 795	14 692	19 496	25 327	32 304	40 547	50 175	-
35	6 919	9 847	13 479	17 940	23 349	29 827	37 494	46 470	-
40	6 138	8 888	12 262	16 383	21 376	27 360	34 456	42 787	-
45	5 331	7 910	11 032	14 821	19 402	24 898	31 431	39 122	-
50	-	6 904	9 782	13 246	17 424	22 440	28 418	35 480	-
55	-	-	8 506	11 657	15 443	19 990	25 426	31 874	-
60	-	-	-	10 059	13 470	17 569	22 484	28 344	-
Power input in W									
20	4 920	5 637	6 298	6 891	7 402	7 817	-	-	-
30	5 316	6 197	7 035	7 818	8 532	9 163	9 699	10 126	-
35	5 467	6 428	7 352	8 227	9 040	9 777	10 424	10 970	-
40	5 587	6 625	7 633	8 599	9 509	10 350	11 108	11 769	-
45	5 674	6 788	7 879	8 934	9 939	10 882	11 748	12 525	-
50	-	6 917	8 088	9 231	10 330	11 372	12 345	13 236	-
55	-	-	8 261	9 489	10 680	11 821	12 899	13 901	-
60	-	-	-	9 708	10 989	12 227	13 409	14 520	-
Current consumption in A									
20	7.45	8.49	9.47	10.38	11.22	11.99	-	-	-
30	7.83	8.94	10.01	11.01	11.95	12.84	13.66	14.42	-
35	8.00	9.18	10.32	11.40	12.43	13.40	14.31	15.17	-
40	8.12	9.40	10.63	11.81	12.94	14.02	15.04	16.01	-
45	8.18	9.57	10.91	12.21	13.47	14.67	15.83	16.93	-
50	-	9.67	11.15	12.59	13.99	15.34	16.65	17.91	-
55	-	-	11.32	12.92	14.48	16.00	17.48	18.92	-
60	-	-	-	13.17	14.91	16.62	18.30	19.93	-
Mass flow in kg/h									
20	232	315	416	538	683	855	-	-	-
30	216	298	396	512	650	813	1 002	1 220	-
35	207	288	385	499	634	792	976	1 189	-
40	197	278	373	485	618	772	951	1 158	-
45	184	265	360	471	600	751	926	1 127	-
50	-	250	345	454	581	729	899	1 095	-
55	-	-	327	435	560	705	871	1 063	-
60	-	-	-	414	537	679	842	1 029	-
Coefficient of performance (C.O.P.)									
20	1.87	2.25	2.72	3.29	3.96	4.77	-	-	-
30	1.45	1.74	2.09	2.49	2.97	3.53	4.18	4.96	-
35	1.27	1.53	1.83	2.18	2.58	3.05	3.60	4.24	-
40	1.10	1.34	1.61	1.91	2.25	2.64	3.10	3.64	-
45	0.94	1.17	1.40	1.66	1.95	2.29	2.68	3.12	-
50	-	1.00	1.21	1.44	1.69	1.97	2.30	2.68	-
55	-	-	1.03	1.23	1.45	1.69	1.97	2.29	-
60	-	-	-	1.04	1.23	1.44	1.68	1.95	-

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

Cooling capacity	19 402	W
Power input	9 939	W
Current consumption	13.47	A
Mass flow	600	kg/h
C.O.P.	1.95	

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

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

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	9 250	12 747	17 186	22 687	29 372	37 363	-	-	-
30	7 604	10 697	14 567	19 336	25 127	32 060	40 259	49 843	-
35	6 768	9 658	13 244	17 648	22 992	29 397	36 986	45 879	-
40	5 915	8 602	11 905	15 944	20 842	26 719	33 698	41 901	-
45	5 039	7 525	10 544	14 218	18 670	24 020	30 390	37 902	-
50	4 135	6 419	9 155	12 465	16 471	21 293	27 055	33 877	-
55	-	5 280	7 733	10 679	14 239	18 535	23 688	29 820	-
60	-	-	6 272	8 854	11 969	15 738	20 283	25 725	-
Power input in W									
20	5 454	6 259	7 007	7 682	8 271	8 760	-	-	-
30	5 859	6 845	7 789	8 676	9 493	10 226	10 861	11 383	-
35	6 008	7 081	8 118	9 108	10 034	10 885	11 645	12 301	-
40	6 121	7 277	8 406	9 494	10 528	11 493	12 376	13 162	-
45	6 197	7 433	8 651	9 836	10 973	12 051	13 053	13 968	-
50	6 235	7 550	8 853	10 131	11 370	12 557	13 677	14 716	-
55	-	7 625	9 011	10 380	11 718	13 011	14 246	15 407	-
60	-	-	9 125	10 582	12 016	13 413	14 759	16 041	-
Current consumption in A									
20	8.10	9.28	10.40	11.48	12.50	13.47	-	-	-
30	8.48	9.73	10.93	12.09	13.20	14.27	15.29	16.26	-
35	8.65	9.98	11.26	12.49	13.68	14.83	15.94	17.00	-
40	8.77	10.20	11.58	12.92	14.21	15.47	16.68	17.85	-
45	8.82	10.37	11.87	13.34	14.76	16.15	17.49	18.80	-
50	8.76	10.45	12.10	13.72	15.30	16.84	18.34	19.81	-
55	-	10.42	12.25	14.04	15.80	17.52	19.20	20.85	-
60	-	-	12.28	14.27	16.23	18.15	20.04	21.90	-
Mass flow in kg/h									
20	256	347	458	590	748	933	-	-	-
30	240	329	437	564	715	892	1 098	1 336	-
35	229	319	425	551	699	872	1 073	1 304	-
40	217	307	412	536	681	850	1 047	1 273	-
45	203	293	397	519	662	828	1 020	1 240	-
50	185	276	380	501	641	804	991	1 207	-
55	-	256	360	479	618	777	961	1 172	-
60	-	-	336	455	591	748	928	1 134	-
Coefficient of performance (C.O.P.)									
20	1.70	2.04	2.45	2.95	3.55	4.27	-	-	-
30	1.30	1.56	1.87	2.23	2.65	3.14	3.71	4.38	-
35	1.13	1.36	1.63	1.94	2.29	2.70	3.18	3.73	-
40	0.97	1.18	1.42	1.68	1.98	2.32	2.72	3.18	-
45	0.81	1.01	1.22	1.45	1.70	1.99	2.33	2.71	-
50	0.66	0.85	1.03	1.23	1.45	1.70	1.98	2.30	-
55	-	0.69	0.86	1.03	1.22	1.42	1.66	1.94	-
60	-	-	0.69	0.84	1.00	1.17	1.37	1.60	-

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

Cooling capacity	18 670	W
Power input	10 973	W
Current consumption	14.76	A
Mass flow	662	kg/h
C.O.P.	1.70	

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	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

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

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	10 128	13 929	18 743	24 695	31 915	40 528	-	-	-
30	8 465	11 875	16 130	21 359	27 691	35 256	44 179	54 589	-
35	7 615	10 832	14 809	19 679	25 569	32 611	40 931	50 660	-
40	6 743	9 770	13 472	17 983	23 434	29 954	37 675	46 724	-
45	5 841	8 681	12 112	16 268	21 281	27 284	34 407	42 781	-
50	-	7 560	10 725	14 530	19 110	24 601	31 133	38 839	-
55	-	-	9 306	12 769	16 925	21 912	27 864	34 915	-
60	-	-	-	10 991	14 740	19 241	24 634	31 054	-
Power input in W									
20	5 454	6 259	7 007	7 682	8 271	8 760	-	-	-
30	5 859	6 845	7 789	8 676	9 493	10 226	10 861	11 383	-
35	6 008	7 081	8 118	9 108	10 034	10 885	11 645	12 301	-
40	6 121	7 277	8 406	9 494	10 528	11 493	12 376	13 162	-
45	6 197	7 433	8 651	9 836	10 973	12 051	13 053	13 968	-
50	-	7 550	8 853	10 131	11 370	12 557	13 677	14 716	-
55	-	-	9 011	10 380	11 718	13 011	14 246	15 407	-
60	-	-	-	10 582	12 016	13 413	14 759	16 041	-
Current consumption in A									
20	8.10	9.28	10.40	11.48	12.50	13.47	-	-	-
30	8.48	9.73	10.93	12.09	13.20	14.27	15.29	16.26	-
35	8.65	9.98	11.26	12.49	13.68	14.83	15.94	17.00	-
40	8.77	10.20	11.58	12.92	14.21	15.47	16.68	17.85	-
45	8.82	10.37	11.87	13.34	14.76	16.15	17.49	18.80	-
50	-	10.45	12.10	13.72	15.30	16.84	18.34	19.81	-
55	-	-	12.25	14.04	15.80	17.52	19.20	20.85	-
60	-	-	-	14.27	16.23	18.15	20.04	21.90	-
Mass flow in kg/h									
20	255	345	455	587	743	928	-	-	-
30	238	328	434	561	711	887	1 091	1 327	-
35	228	317	423	548	695	866	1 066	1 296	-
40	216	305	410	533	677	845	1 040	1 264	-
45	202	291	395	516	658	823	1 013	1 232	-
50	-	274	378	498	637	799	985	1 199	-
55	-	-	358	477	614	772	955	1 164	-
60	-	-	-	452	588	744	922	1 127	-
Coefficient of performance (C.O.P.)									
20	1.86	2.23	2.68	3.21	3.86	4.63	-	-	-
30	1.44	1.73	2.07	2.46	2.92	3.45	4.07	4.80	-
35	1.27	1.53	1.82	2.16	2.55	3.00	3.52	4.12	-
40	1.10	1.34	1.60	1.89	2.23	2.61	3.04	3.55	-
45	0.94	1.17	1.40	1.65	1.94	2.26	2.64	3.06	-
50	-	1.00	1.21	1.43	1.68	1.96	2.28	2.64	-
55	-	-	1.03	1.23	1.44	1.68	1.96	2.27	-
60	-	-	-	1.04	1.23	1.43	1.67	1.94	-

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

Cooling capacity	21 281	W
Power input	10 973	W
Current consumption	14.76	A
Mass flow	658	kg/h
C.O.P.	1.94	

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	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

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Performance data at 65 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	
Cooling capacity in W									
20	10 137	13 924	18 707	24 615	31 775	40 318	-	-	-
30	8 326	11 700	15 903	21 063	27 308	34 768	43 571	53 845	-
35	7 395	10 556	14 462	19 242	25 024	31 936	40 107	49 666	-
40	6 442	9 387	12 992	17 388	22 702	29 062	36 598	45 438	-
45	5 466	8 190	11 491	15 498	20 340	26 145	33 041	41 157	-
50	4 464	6 963	9 955	13 570	17 935	23 180	29 433	36 822	-
55	-	5 703	8 382	11 600	15 485	20 166	25 771	32 428	-
60	-	-	6 770	9 587	12 988	17 100	22 053	27 975	-
Power input in W									
20	6 037	6 934	7 769	8 529	9 199	9 765	-	-	-
30	6 441	7 537	8 590	9 586	10 511	11 351	12 092	12 720	-
35	6 581	7 770	8 926	10 035	11 082	12 053	12 935	13 713	-
40	6 677	7 957	9 213	10 430	11 596	12 695	13 713	14 637	-
45	6 730	8 096	9 448	10 771	12 051	13 274	14 425	15 492	-
50	6 739	8 188	9 631	11 055	12 446	13 789	15 071	16 276	-
55	-	8 230	9 762	11 284	12 781	14 241	15 648	16 989	-
60	-	-	9 838	11 454	13 055	14 628	16 157	17 629	-
Current consumption in A									
20	8.80	10.13	11.42	12.68	13.91	15.11	-	-	-
30	9.18	10.58	11.94	13.27	14.56	15.83	17.08	18.30	-
35	9.35	10.83	12.27	13.68	15.05	16.39	17.71	19.01	-
40	9.46	11.05	12.60	14.11	15.59	17.03	18.45	19.86	-
45	9.48	11.21	12.89	14.54	16.15	17.73	19.28	20.81	-
50	9.37	11.26	13.11	14.92	16.69	18.43	20.15	21.84	-
55	-	11.18	13.22	15.22	17.19	19.12	21.02	22.90	-
60	-	-	13.19	15.42	17.60	19.75	21.87	23.97	-
Mass flow in kg/h									
20	281	379	498	640	809	1 006	-	-	-
30	262	360	477	615	778	968	1 188	1 442	-
35	251	349	464	601	760	947	1 163	1 412	-
40	237	335	450	584	742	925	1 137	1 380	-
45	220	318	433	566	721	901	1 109	1 347	-
50	200	299	413	545	698	875	1 078	1 312	-
55	-	276	390	521	672	845	1 045	1 274	-
60	-	-	363	493	642	813	1 009	1 233	-
Coefficient of performance (C.O.P.)									
20	1.68	2.01	2.41	2.89	3.45	4.13	-	-	-
30	1.29	1.55	1.85	2.20	2.60	3.06	3.60	4.23	-
35	1.12	1.36	1.62	1.92	2.26	2.65	3.10	3.62	-
40	0.96	1.18	1.41	1.67	1.96	2.29	2.67	3.10	-
45	0.81	1.01	1.22	1.44	1.69	1.97	2.29	2.66	-
50	0.66	0.85	1.03	1.23	1.44	1.68	1.95	2.26	-
55	-	0.69	0.86	1.03	1.21	1.42	1.65	1.91	-
60	-	-	0.69	0.84	0.99	1.17	1.36	1.59	-

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

Cooling capacity	20 340	W
Power input	12 051	W
Current consumption	16.15	A
Mass flow	721	kg/h
C.O.P.	1.69	

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	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

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Performance data at 65 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	11 100	15 215	20 401	26 794	34 526	43 734	-	-	-
30	9 269	12 989	17 609	23 266	30 096	38 233	47 814	58 972	-
35	8 320	11 839	16 172	21 456	27 829	35 427	44 386	54 841	-
40	7 344	10 660	14 703	19 612	25 525	32 581	40 917	50 668	-
45	6 336	9 449	13 200	17 732	23 185	29 698	37 409	46 456	-
50	-	8 200	11 662	15 817	20 810	26 780	33 869	42 215	-
55	-	-	10 086	13 870	18 406	23 840	30 314	37 969	-
60	-	-	-	11 901	15 995	20 907	26 784	33 769	-
Power input in W									
20	6 037	6 934	7 769	8 529	9 199	9 765	-	-	-
30	6 441	7 537	8 590	9 586	10 511	11 351	12 092	12 720	-
35	6 581	7 770	8 926	10 035	11 082	12 053	12 935	13 713	-
40	6 677	7 957	9 213	10 430	11 596	12 695	13 713	14 637	-
45	6 730	8 096	9 448	10 771	12 051	13 274	14 425	15 492	-
50	-	8 188	9 631	11 055	12 446	13 789	15 071	16 276	-
55	-	-	9 762	11 284	12 781	14 241	15 648	16 989	-
60	-	-	-	11 454	13 055	14 628	16 157	17 629	-
Current consumption in A									
20	8.80	10.13	11.42	12.68	13.91	15.11	-	-	-
30	9.18	10.58	11.94	13.27	14.56	15.83	17.08	18.30	-
35	9.35	10.83	12.27	13.68	15.05	16.39	17.71	19.01	-
40	9.46	11.05	12.60	14.11	15.59	17.03	18.45	19.86	-
45	9.48	11.21	12.89	14.54	16.15	17.73	19.28	20.81	-
50	-	11.26	13.11	14.92	16.69	18.43	20.15	21.84	-
55	-	-	13.22	15.22	17.19	19.12	21.02	22.90	-
60	-	-	-	15.42	17.60	19.75	21.87	23.97	-
Mass flow in kg/h									
20	279	377	495	637	804	1 000	-	-	-
30	261	358	474	611	773	962	1 181	1 433	-
35	249	347	462	597	756	941	1 156	1 403	-
40	235	333	447	581	737	919	1 130	1 371	-
45	219	317	430	563	717	896	1 102	1 338	-
50	-	297	411	542	694	869	1 072	1 303	-
55	-	-	388	518	668	840	1 039	1 266	-
60	-	-	-	490	638	808	1 003	1 225	-
Coefficient of performance (C.O.P.)									
20	1.84	2.19	2.63	3.14	3.75	4.48	-	-	-
30	1.44	1.72	2.05	2.43	2.86	3.37	3.95	4.64	-
35	1.26	1.52	1.81	2.14	2.51	2.94	3.43	4.00	-
40	1.10	1.34	1.60	1.88	2.20	2.57	2.98	3.46	-
45	0.94	1.17	1.40	1.65	1.92	2.24	2.59	3.00	-
50	-	1.00	1.21	1.43	1.67	1.94	2.25	2.59	-
55	-	-	1.03	1.23	1.44	1.67	1.94	2.23	-
60	-	-	-	1.04	1.23	1.43	1.66	1.92	-

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

Cooling capacity	23 185	W
Power input	12 051	W
Current consumption	16.15	A
Mass flow	717	kg/h
C.O.P.	1.92	

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	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

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Performance data at 70 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	11 066	15 148	20 275	26 581	34 200	43 266	-	-	-
30	9 068	12 735	17 278	22 830	29 526	37 500	46 886	57 818	-
35	8 029	11 474	15 710	20 871	27 091	34 504	43 245	53 447	-
40	6 966	10 179	14 098	18 858	24 592	31 435	39 520	48 983	-
45	5 881	8 852	12 444	16 793	22 031	28 294	35 714	44 427	-
50	4 774	7 493	10 750	14 677	19 410	25 083	31 829	39 782	-
55	-	6 106	9 016	12 513	16 731	21 803	27 865	35 049	-
60	-	-	7 245	10 301	13 994	18 457	23 824	30 229	-
Power input in W									
20	6 671	7 661	8 587	9 433	10 186	10 833	-	-	-
30	7 062	8 271	9 437	10 546	11 585	12 538	13 393	14 135	-
35	7 184	8 496	9 775	11 009	12 183	13 283	14 296	15 206	-
40	7 255	8 665	10 054	11 407	12 712	13 954	15 120	16 194	-
45	7 274	8 777	10 270	11 739	13 171	14 550	15 864	17 098	-
50	7 239	8 831	10 424	12 004	13 557	15 069	16 527	17 915	-
55	-	8 824	10 512	12 199	13 869	15 510	17 106	18 645	-
60	-	-	10 535	12 323	14 106	15 870	17 602	19 287	-
Current consumption in A									
20	9.56	11.05	12.52	13.98	15.44	16.90	-	-	-
30	9.94	11.50	13.04	14.54	16.04	17.53	19.03	20.55	-
35	10.10	11.76	13.37	14.95	16.51	18.07	19.63	21.20	-
40	10.19	11.97	13.70	15.39	17.06	18.71	20.36	22.02	-
45	10.17	12.10	13.98	15.81	17.62	19.41	21.18	22.96	-
50	9.99	12.11	14.17	16.19	18.17	20.12	22.06	23.99	-
55	-	11.96	14.24	16.47	18.65	20.81	22.94	25.06	-
60	-	-	14.13	16.61	19.04	21.43	23.79	26.13	-
Mass flow in kg/h									
20	307	413	540	691	870	1 079	-	-	-
30	286	392	518	667	841	1 044	1 279	1 548	-
35	272	379	504	651	823	1 023	1 254	1 519	-
40	256	363	488	634	804	1 001	1 228	1 488	-
45	237	344	469	613	781	975	1 199	1 455	-
50	214	322	446	589	755	946	1 166	1 418	-
55	-	296	419	562	725	914	1 130	1 377	-
60	-	-	389	530	692	877	1 090	1 333	-
Coefficient of performance (C.O.P.)									
20	1.66	1.98	2.36	2.82	3.36	3.99	-	-	-
30	1.28	1.54	1.83	2.16	2.55	2.99	3.50	4.09	-
35	1.12	1.35	1.61	1.90	2.22	2.60	3.03	3.51	-
40	0.96	1.17	1.40	1.65	1.93	2.25	2.61	3.02	-
45	0.81	1.01	1.21	1.43	1.67	1.94	2.25	2.60	-
50	0.66	0.85	1.03	1.22	1.43	1.66	1.93	2.22	-
55	-	0.69	0.86	1.03	1.21	1.41	1.63	1.88	-
60	-	-	0.69	0.84	0.99	1.16	1.35	1.57	-

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

Cooling capacity	22 031	W
Power input	13 171	W
Current consumption	17.62	A
Mass flow	781	kg/h
C.O.P.	1.67	

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	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

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Performance data at 70 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	12 117	16 553	22 111	28 934	37 161	46 932	-	-	-
30	10 094	14 138	19 132	25 218	32 540	41 238	51 452	63 325	-
35	9 034	12 869	17 567	23 272	30 127	38 276	47 858	59 016	-
40	7 942	11 560	15 955	21 270	27 651	35 241	44 184	54 621	-
45	6 816	10 212	14 296	19 214	25 113	32 139	40 436	50 147	-
50	-	8 825	12 593	17 108	22 521	28 979	36 626	45 609	-
55	-	-	10 849	14 961	19 887	25 776	32 777	41 037	-
60	-	-	-	12 788	17 234	22 566	28 934	36 491	-
Power input in W									
20	6 671	7 661	8 587	9 433	10 186	10 833	-	-	-
30	7 062	8 271	9 437	10 546	11 585	12 538	13 393	14 135	-
35	7 184	8 496	9 775	11 009	12 183	13 283	14 296	15 206	-
40	7 255	8 665	10 054	11 407	12 712	13 954	15 120	16 194	-
45	7 274	8 777	10 270	11 739	13 171	14 550	15 864	17 098	-
50	-	8 831	10 424	12 004	13 557	15 069	16 527	17 915	-
55	-	-	10 512	12 199	13 869	15 510	17 106	18 645	-
60	-	-	-	12 323	14 106	15 870	17 602	19 287	-
Current consumption in A									
20	9.56	11.05	12.52	13.98	15.44	16.90	-	-	-
30	9.94	11.50	13.04	14.54	16.04	17.53	19.03	20.55	-
35	10.10	11.76	13.37	14.95	16.51	18.07	19.63	21.20	-
40	10.19	11.97	13.70	15.39	17.06	18.71	20.36	22.02	-
45	10.17	12.10	13.98	15.81	17.62	19.41	21.18	22.96	-
50	-	12.11	14.17	16.19	18.17	20.12	22.06	23.99	-
55	-	-	14.24	16.47	18.65	20.81	22.94	25.06	-
60	-	-	-	16.61	19.04	21.43	23.79	26.13	-
Mass flow in kg/h									
20	305	410	537	687	865	1 073	-	-	-
30	284	390	515	663	836	1 037	1 271	1 538	-
35	271	377	501	648	819	1 017	1 246	1 510	-
40	255	361	485	630	799	995	1 220	1 479	-
45	235	342	466	610	776	969	1 191	1 445	-
50	-	320	444	586	751	941	1 159	1 408	-
55	-	-	417	558	721	908	1 123	1 368	-
60	-	-	-	527	688	872	1 083	1 324	-
Coefficient of performance (C.O.P.)									
20	1.82	2.16	2.58	3.07	3.65	4.33	-	-	-
30	1.43	1.71	2.03	2.39	2.81	3.29	3.84	4.48	-
35	1.26	1.51	1.80	2.11	2.47	2.88	3.35	3.88	-
40	1.09	1.33	1.59	1.86	2.18	2.53	2.92	3.37	-
45	0.94	1.16	1.39	1.64	1.91	2.21	2.55	2.93	-
50	-	1.00	1.21	1.43	1.66	1.92	2.22	2.55	-
55	-	-	1.03	1.23	1.43	1.66	1.92	2.20	-
60	-	-	-	1.04	1.22	1.42	1.64	1.89	-

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

Cooling capacity	25 113	W
Power input	13 171	W
Current consumption	17.62	A
Mass flow	776	kg/h
C.O.P.	1.91	

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	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

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Performance data at 75 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	12 036	16 420	21 890	28 586	36 646	46 208	-	-	-
30	9 830	13 801	18 691	24 638	31 780	40 256	50 205	61 764	-
35	8 672	12 412	16 987	22 534	29 193	37 101	46 398	57 221	-
40	7 488	10 980	15 222	20 354	26 512	33 836	42 464	52 534	-
45	6 283	9 510	13 404	18 103	23 744	30 468	38 410	47 711	-
50	5 064	8 011	11 539	15 789	20 897	27 002	34 243	42 758	-
55	-	6 488	9 634	13 418	17 976	23 447	29 969	37 681	-
60	-	-	7 696	10 997	14 988	19 808	25 596	32 488	-
Power input in W									
20	7 355	8 441	9 458	10 394	11 233	11 963	-	-	-
30	7 722	9 048	10 332	11 559	12 715	13 788	14 764	15 629	-
35	7 819	9 258	10 666	12 031	13 338	14 574	15 726	16 780	-
40	7 855	9 401	10 929	12 426	13 878	15 272	16 595	17 833	-
45	7 829	9 475	11 117	12 741	14 334	15 881	17 369	18 785	-
50	7 736	9 479	11 230	12 976	14 702	16 397	18 045	19 634	-
55	-	9 409	11 264	13 126	14 982	16 818	18 621	20 377	-
60	-	-	11 217	13 190	15 169	17 142	19 094	21 012	-
Current consumption in A									
20	10.37	12.04	13.71	15.39	17.10	18.86	-	-	-
30	10.75	12.49	14.21	15.91	17.62	19.36	21.14	22.99	-
35	10.90	12.74	14.54	16.31	18.08	19.87	21.69	23.57	-
40	10.96	12.94	14.86	16.75	18.62	20.50	22.40	24.34	-
45	10.88	13.04	15.13	17.17	19.19	21.19	23.21	25.25	-
50	10.61	12.99	15.29	17.53	19.72	21.90	24.07	26.27	-
55	-	12.75	15.30	17.77	20.19	22.58	24.95	27.33	-
60	-	-	15.10	17.85	20.54	23.18	25.79	28.40	-
Mass flow in kg/h									
20	333	447	583	743	932	1 152	-	-	-
30	310	425	560	719	905	1 121	1 369	1 653	-
35	294	410	545	703	887	1 101	1 346	1 627	-
40	275	392	527	684	866	1 077	1 320	1 597	-
45	253	370	505	661	842	1 050	1 289	1 562	-
50	227	344	479	634	813	1 019	1 255	1 524	-
55	-	314	448	602	779	983	1 215	1 481	-
60	-	-	413	566	741	941	1 171	1 432	-
Coefficient of performance (C.O.P.)									
20	1.64	1.95	2.31	2.75	3.26	3.86	-	-	-
30	1.27	1.53	1.81	2.13	2.50	2.92	3.40	3.95	-
35	1.11	1.34	1.59	1.87	2.19	2.55	2.95	3.41	-
40	0.95	1.17	1.39	1.64	1.91	2.22	2.56	2.95	-
45	0.80	1.00	1.21	1.42	1.66	1.92	2.21	2.54	-
50	0.65	0.85	1.03	1.22	1.42	1.65	1.90	2.18	-
55	-	0.69	0.86	1.02	1.20	1.39	1.61	1.85	-
60	-	-	0.69	0.83	0.99	1.16	1.34	1.55	-

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

Cooling capacity	23 744	W
Power input	14 334	W
Current consumption	19.19	A
Mass flow	842	kg/h
C.O.P.	1.66	

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	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

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Performance data at 75 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	13 179	17 942	23 873	31 117	39 819	50 123	-	-	-
30	10 943	15 321	20 696	27 215	35 024	44 268	55 094	67 646	-
35	9 758	13 921	18 995	25 127	32 465	41 157	51 348	63 183	-
40	8 536	12 470	17 226	22 957	29 810	37 933	47 475	58 581	-
45	7 282	10 972	15 398	20 712	27 066	34 608	43 488	53 853	-
50	-	9 434	13 517	18 403	24 246	31 196	39 405	49 021	-
55	-	-	11 593	16 043	21 366	27 719	35 253	44 120	-
60	-	-	-	13 651	18 458	24 218	31 086	39 218	-
Power input in W									
20	7 355	8 441	9 458	10 394	11 233	11 963	-	-	-
30	7 722	9 048	10 332	11 559	12 715	13 788	14 764	15 629	-
35	7 819	9 258	10 666	12 031	13 338	14 574	15 726	16 780	-
40	7 855	9 401	10 929	12 426	13 878	15 272	16 595	17 833	-
45	7 829	9 475	11 117	12 741	14 334	15 881	17 369	18 785	-
50	-	9 479	11 230	12 976	14 702	16 397	18 045	19 634	-
55	-	-	11 264	13 126	14 982	16 818	18 621	20 377	-
60	-	-	-	13 190	15 169	17 142	19 094	21 012	-
Current consumption in A									
20	10.37	12.04	13.71	15.39	17.10	18.86	-	-	-
30	10.75	12.49	14.21	15.91	17.62	19.36	21.14	22.99	-
35	10.90	12.74	14.54	16.31	18.08	19.87	21.69	23.57	-
40	10.96	12.94	14.86	16.75	18.62	20.50	22.40	24.34	-
45	10.88	13.04	15.13	17.17	19.19	21.19	23.21	25.25	-
50	-	12.99	15.29	17.53	19.72	21.90	24.07	26.27	-
55	-	-	15.30	17.77	20.19	22.58	24.95	27.33	-
60	-	-	-	17.85	20.54	23.18	25.79	28.40	-
Mass flow in kg/h									
20	332	445	580	739	926	1 145	-	-	-
30	308	422	557	715	900	1 114	1 360	1 643	-
35	292	407	542	699	882	1 094	1 338	1 616	-
40	274	389	524	680	861	1 071	1 311	1 586	-
45	252	368	502	657	837	1 044	1 281	1 552	-
50	-	342	476	630	808	1 013	1 247	1 514	-
55	-	-	446	599	775	977	1 208	1 471	-
60	-	-	-	563	736	936	1 163	1 423	-
Coefficient of performance (C.O.P.)									
20	1.79	2.13	2.52	2.99	3.54	4.19	-	-	-
30	1.42	1.69	2.00	2.35	2.75	3.21	3.73	4.33	-
35	1.25	1.50	1.78	2.09	2.43	2.82	3.27	3.77	-
40	1.09	1.33	1.58	1.85	2.15	2.48	2.86	3.29	-
45	0.93	1.16	1.39	1.63	1.89	2.18	2.50	2.87	-
50	-	1.00	1.20	1.42	1.65	1.90	2.18	2.50	-
55	-	-	1.03	1.22	1.43	1.65	1.89	2.17	-
60	-	-	-	1.03	1.22	1.41	1.63	1.87	-

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

Cooling capacity	27 066	W
Power input	14 334	W
Current consumption	19.19	A
Mass flow	837	kg/h
C.O.P.	1.89	

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	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

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Performance data at 80 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	13 048	17 738	23 552	30 630	39 113	49 143	-	-	-
30	10 612	14 898	20 142	26 486	34 070	43 037	53 527	65 681	-
35	9 324	13 370	18 292	24 232	31 330	39 728	49 567	60 988	-
40	8 006	11 788	16 364	21 875	28 462	36 267	45 430	56 093	-
45	6 672	10 165	14 370	19 428	25 479	32 665	41 128	51 009	-
50	5 335	8 515	12 324	16 903	22 394	28 938	36 675	45 749	-
55	-	6 849	10 237	14 314	19 220	25 096	32 084	40 326	-
60	-	-	8 125	11 674	15 970	21 154	27 368	34 752	-
Power input in W									
20	8 089	9 273	10 385	11 411	12 339	13 156	-	-	-
30	8 421	9 869	11 273	12 622	13 902	15 101	16 205	17 202	-
35	8 485	10 056	11 598	13 099	14 546	15 926	17 227	18 435	-
40	8 477	10 164	11 838	13 485	15 093	16 648	18 140	19 553	-
45	8 394	10 191	11 990	13 777	15 540	17 265	18 940	20 553	-
50	8 230	10 132	12 050	13 971	15 883	17 772	19 625	21 431	-
55	-	9 985	12 016	14 065	16 119	18 165	20 191	22 183	-
60	-	-	11 882	14 053	16 244	18 441	20 633	22 807	-
Current consumption in A									
20	11.24	13.10	14.98	16.89	18.88	20.97	-	-	-
30	11.61	13.55	15.46	17.37	19.31	21.32	23.42	25.65	-
35	11.74	13.79	15.79	17.77	19.76	21.80	23.91	26.12	-
40	11.76	13.97	16.10	18.20	20.29	22.40	24.57	26.82	-
45	11.61	14.02	16.34	18.61	20.84	23.08	25.35	27.69	-
50	11.24	13.91	16.46	18.94	21.36	23.77	26.20	28.67	-
55	-	13.56	16.39	19.13	21.80	24.43	27.06	29.71	-
60	-	-	16.09	19.14	22.10	25.00	27.88	30.76	-
Mass flow in kg/h									
20	361	483	627	797	994	1 224	-	-	-
30	334	459	604	774	971	1 198	1 459	1 757	-
35	316	441	587	756	953	1 179	1 438	1 734	-
40	294	420	566	735	930	1 155	1 412	1 705	-
45	269	395	541	709	903	1 126	1 381	1 671	-
50	239	366	511	678	871	1 092	1 344	1 631	-
55	-	332	476	642	833	1 052	1 301	1 584	-
60	-	-	436	601	790	1 005	1 252	1 531	-
Coefficient of performance (C.O.P.)									
20	1.61	1.91	2.27	2.68	3.17	3.74	-	-	-
30	1.26	1.51	1.79	2.10	2.45	2.85	3.30	3.82	-
35	1.10	1.33	1.58	1.85	2.15	2.49	2.88	3.31	-
40	0.94	1.16	1.38	1.62	1.89	2.18	2.50	2.87	-
45	0.79	1.00	1.20	1.41	1.64	1.89	2.17	2.48	-
50	0.65	0.84	1.02	1.21	1.41	1.63	1.87	2.13	-
55	-	0.69	0.85	1.02	1.19	1.38	1.59	1.82	-
60	-	-	0.68	0.83	0.98	1.15	1.33	1.52	-

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

Cooling capacity	25 479	W
Power input	15 540	W
Current consumption	20.84	A
Mass flow	903	kg/h
C.O.P.	1.64	

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	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

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Performance data at 80 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	14 287	19 383	25 685	33 342	42 500	53 307	-	-	-
30	11 813	16 539	22 303	29 256	37 547	47 326	58 739	71 936	-
35	10 491	14 995	20 455	27 020	34 842	44 070	54 854	67 343	-
40	9 127	13 388	18 519	24 673	32 002	40 658	50 790	62 549	-
45	7 733	11 728	16 508	22 228	29 043	37 105	46 565	57 576	-
50	-	10 028	14 436	19 702	25 983	33 432	42 204	52 450	-
55	-	-	12 319	17 114	22 845	29 669	37 741	47 216	-
60	-	-	-	14 491	19 667	25 863	33 239	41 951	-
Power input in W									
20	8 089	9 273	10 385	11 411	12 339	13 156	-	-	-
30	8 421	9 869	11 273	12 622	13 902	15 101	16 205	17 202	-
35	8 485	10 056	11 598	13 099	14 546	15 926	17 227	18 435	-
40	8 477	10 164	11 838	13 485	15 093	16 648	18 140	19 553	-
45	8 394	10 191	11 990	13 777	15 540	17 265	18 940	20 553	-
50	-	10 132	12 050	13 971	15 883	17 772	19 625	21 431	-
55	-	-	12 016	14 065	16 119	18 165	20 191	22 183	-
60	-	-	-	14 053	16 244	18 441	20 633	22 807	-
Current consumption in A									
20	11.24	13.10	14.98	16.89	18.88	20.97	-	-	-
30	11.61	13.55	15.46	17.37	19.31	21.32	23.42	25.65	-
35	11.74	13.79	15.79	17.77	19.76	21.80	23.91	26.12	-
40	11.76	13.97	16.10	18.20	20.29	22.40	24.57	26.82	-
45	11.61	14.02	16.34	18.61	20.84	23.08	25.35	27.69	-
50	-	13.91	16.46	18.94	21.36	23.77	26.20	28.67	-
55	-	-	16.39	19.13	21.80	24.43	27.06	29.71	-
60	-	-	-	19.14	22.10	25.00	27.88	30.76	-
Mass flow in kg/h									
20	359	481	624	792	988	1 216	-	-	-
30	332	456	601	769	965	1 191	1 450	1 746	-
35	314	439	584	752	947	1 172	1 429	1 723	-
40	293	418	563	731	925	1 148	1 403	1 694	-
45	267	393	538	705	898	1 119	1 372	1 660	-
50	-	364	508	675	866	1 085	1 335	1 620	-
55	-	-	474	639	828	1 045	1 293	1 574	-
60	-	-	-	597	785	999	1 244	1 521	-
Coefficient of performance (C.O.P.)									
20	1.77	2.09	2.47	2.92	3.44	4.05	-	-	-
30	1.40	1.68	1.98	2.32	2.70	3.13	3.62	4.18	-
35	1.24	1.49	1.76	2.06	2.40	2.77	3.18	3.65	-
40	1.08	1.32	1.56	1.83	2.12	2.44	2.80	3.20	-
45	0.92	1.15	1.38	1.61	1.87	2.15	2.46	2.80	-
50	-	0.99	1.20	1.41	1.64	1.88	2.15	2.45	-
55	-	-	1.03	1.22	1.42	1.63	1.87	2.13	-
60	-	-	-	1.03	1.21	1.40	1.61	1.84	-

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

Cooling capacity	29 043	W
Power input	15 540	W
Current consumption	20.84	A
Mass flow	898	kg/h
C.O.P.	1.87	

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	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

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Performance data at 85 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	14 101	19 105	25 261	32 713	41 602	52 072	-	-	-
30	11 414	16 026	21 631	28 374	36 396	45 841	56 851	69 570	-
35	9 983	14 348	19 627	25 964	33 502	42 384	52 751	64 749	-
40	8 521	12 605	17 524	23 422	30 442	38 726	48 417	59 659	-
45	7 049	10 817	15 343	20 768	27 235	34 888	43 869	54 321	-
50	5 586	9 006	13 103	18 021	23 902	30 889	39 126	48 755	-
55	-	7 190	10 825	15 202	20 463	26 752	34 210	42 982	-
60	-	-	8 530	12 332	16 939	22 494	29 141	37 021	-
Power input in W									
20	8 873	10 158	11 366	12 485	13 504	14 412	-	-	-
30	9 159	10 732	12 262	13 737	15 145	16 475	17 716	18 855	-
35	9 183	10 890	12 571	14 214	15 807	17 339	18 797	20 171	-
40	9 121	10 956	12 781	14 585	16 356	18 083	19 753	21 356	-
45	8 969	10 925	12 887	14 846	16 788	18 703	20 578	22 403	-
50	8 721	10 791	12 885	14 991	17 098	19 194	21 268	23 307	-
55	-	10 550	12 768	15 015	17 280	19 551	21 817	24 065	-
60	-	-	12 532	14 914	17 330	19 770	22 220	24 670	-
Current consumption in A									
20	12.16	14.23	16.33	18.50	20.79	23.24	-	-	-
30	12.53	14.68	16.80	18.93	21.12	23.42	25.86	28.50	-
35	12.63	14.91	17.12	19.32	21.54	23.84	26.27	28.85	-
40	12.60	15.05	17.42	19.73	22.05	24.42	26.87	29.46	-
45	12.37	15.06	17.63	20.12	22.59	25.07	27.61	30.27	-
50	11.88	14.86	17.69	20.41	23.08	25.74	28.43	31.20	-
55	-	14.39	17.54	20.55	23.48	26.37	29.27	32.21	-
60	-	-	17.11	20.47	23.72	26.90	30.05	33.22	-
Mass flow in kg/h									
20	391	521	673	851	1 057	1 295	-	-	-
30	359	493	649	829	1 037	1 276	1 550	1 861	-
35	338	473	630	811	1 019	1 258	1 531	1 841	-
40	313	449	606	787	995	1 233	1 505	1 814	-
45	284	421	578	758	965	1 203	1 473	1 780	-
50	251	387	543	723	929	1 165	1 434	1 738	-
55	-	348	504	682	887	1 121	1 387	1 689	-
60	-	-	458	635	838	1 069	1 332	1 631	-
Coefficient of performance (C.O.P.)									
20	1.59	1.88	2.22	2.62	3.08	3.61	-	-	-
30	1.25	1.49	1.76	2.07	2.40	2.78	3.21	3.69	-
35	1.09	1.32	1.56	1.83	2.12	2.44	2.81	3.21	-
40	0.93	1.15	1.37	1.61	1.86	2.14	2.45	2.79	-
45	0.79	0.99	1.19	1.40	1.62	1.87	2.13	2.42	-
50	0.64	0.83	1.02	1.20	1.40	1.61	1.84	2.09	-
55	-	0.68	0.85	1.01	1.18	1.37	1.57	1.79	-
60	-	-	0.68	0.83	0.98	1.14	1.31	1.50	-

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

Cooling capacity	27 235	W
Power input	16 788	W
Current consumption	22.59	A
Mass flow	965	kg/h
C.O.P.	1.62	

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	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

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Performance data at 85 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	15 440	20 876	27 549	35 609	45 204	56 483	-	-	-
30	12 706	17 791	23 952	31 342	40 111	50 409	62 388	76 195	-
35	11 233	16 092	21 947	28 952	37 258	47 016	58 379	71 495	-
40	9 715	14 315	19 831	26 418	34 228	43 415	54 130	66 526	-
45	8 170	12 480	17 625	23 761	31 045	39 629	49 668	61 314	-
50	-	10 606	15 349	21 005	27 733	35 687	45 024	55 897	-
55	-	-	13 026	18 176	24 323	31 626	40 241	50 326	-
60	-	-	-	15 308	20 861	27 502	35 392	44 690	-
Power input in W									
20	8 873	10 158	11 366	12 485	13 504	14 412	-	-	-
30	9 159	10 732	12 262	13 737	15 145	16 475	17 716	18 855	-
35	9 183	10 890	12 571	14 214	15 807	17 339	18 797	20 171	-
40	9 121	10 956	12 781	14 585	16 356	18 083	19 753	21 356	-
45	8 969	10 925	12 887	14 846	16 788	18 703	20 578	22 403	-
50	-	10 791	12 885	14 991	17 098	19 194	21 268	23 307	-
55	-	-	12 768	15 015	17 280	19 551	21 817	24 065	-
60	-	-	-	14 914	17 330	19 770	22 220	24 670	-
Current consumption in A									
20	12.16	14.23	16.33	18.50	20.79	23.24	-	-	-
30	12.53	14.68	16.80	18.93	21.12	23.42	25.86	28.50	-
35	12.63	14.91	17.12	19.32	21.54	23.84	26.27	28.85	-
40	12.60	15.05	17.42	19.73	22.05	24.42	26.87	29.46	-
45	12.37	15.06	17.63	20.12	22.59	25.07	27.61	30.27	-
50	-	14.86	17.69	20.41	23.08	25.74	28.43	31.20	-
55	-	-	17.54	20.55	23.48	26.37	29.27	32.21	-
60	-	-	-	20.47	23.72	26.90	30.05	33.22	-
Mass flow in kg/h									
20	388	518	669	846	1 051	1 288	-	-	-
30	357	490	645	824	1 031	1 268	1 540	1 848	-
35	336	471	626	806	1 013	1 250	1 521	1 829	-
40	312	447	603	783	989	1 226	1 496	1 802	-
45	283	418	574	754	960	1 195	1 464	1 768	-
50	-	385	540	719	924	1 158	1 425	1 727	-
55	-	-	501	678	882	1 114	1 378	1 678	-
60	-	-	-	631	833	1 062	1 324	1 621	-
Coefficient of performance (C.O.P.)									
20	1.74	2.06	2.42	2.85	3.35	3.92	-	-	-
30	1.39	1.66	1.95	2.28	2.65	3.06	3.52	4.04	-
35	1.22	1.48	1.75	2.04	2.36	2.71	3.11	3.54	-
40	1.07	1.31	1.55	1.81	2.09	2.40	2.74	3.12	-
45	0.91	1.14	1.37	1.60	1.85	2.12	2.41	2.74	-
50	-	0.98	1.19	1.40	1.62	1.86	2.12	2.40	-
55	-	-	1.02	1.21	1.41	1.62	1.84	2.09	-
60	-	-	-	1.03	1.20	1.39	1.59	1.81	-

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

Cooling capacity	31 045	W
Power input	16 788	W
Current consumption	22.59	A
Mass flow	960	kg/h
C.O.P.	1.85	

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	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

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Performance data at 90 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	15 195	20 519	27 018	34 834	44 112	54 994	-	-	-
30	12 236	17 185	23 159	30 303	38 758	48 669	60 179	73 430	-
35	10 651	15 345	20 991	27 732	35 710	45 069	55 952	68 502	-
40	9 034	13 430	18 702	24 995	32 451	41 214	51 426	63 232	-
45	7 413	11 466	16 321	22 122	29 012	37 134	46 631	57 647	-
50	5 818	9 483	13 877	19 142	25 421	32 858	41 595	51 777	-
55	-	7 510	11 398	16 082	21 706	28 413	36 347	45 650	-
60	-	-	8 912	12 971	17 896	23 829	30 914	39 295	-
Power input in W									
20	9 708	11 095	12 402	13 616	14 729	15 729	-	-	-
30	9 936	11 638	13 297	14 902	16 444	17 912	19 296	20 586	-
35	9 912	11 761	13 585	15 376	17 121	18 812	20 438	21 988	-
40	9 787	11 775	13 759	15 726	17 669	19 575	21 436	23 240	-
45	9 555	11 676	13 810	15 948	18 080	20 195	22 283	24 334	-
50	9 209	11 455	13 733	16 034	18 348	20 664	22 973	25 263	-
55	-	11 105	13 521	15 978	18 467	20 977	23 499	26 021	-
60	-	-	13 166	15 772	18 429	21 126	23 854	26 601	-
Current consumption in A									
20	13.13	15.43	17.77	20.21	22.83	25.67	-	-	-
30	13.50	15.87	18.21	20.58	23.04	25.65	28.47	31.56	-
35	13.57	16.08	18.52	20.95	23.43	26.02	28.77	31.77	-
40	13.48	16.20	18.80	21.35	23.91	26.54	29.31	32.26	-
45	13.15	16.14	18.97	21.71	24.42	27.16	30.00	32.99	-
50	12.52	15.84	18.97	21.96	24.89	27.81	30.77	33.86	-
55	-	15.23	18.72	22.03	25.24	28.40	31.57	34.81	-
60	-	-	18.15	21.85	25.41	28.87	32.31	35.78	-
Mass flow in kg/h									
20	421	559	720	906	1 121	1 367	-	-	-
30	385	529	695	885	1 105	1 355	1 640	1 963	-
35	361	506	674	866	1 086	1 338	1 624	1 947	-
40	332	479	647	840	1 061	1 313	1 599	1 923	-
45	299	446	614	807	1 028	1 280	1 566	1 889	-
50	261	408	576	768	988	1 239	1 524	1 846	-
55	-	364	531	722	941	1 190	1 473	1 793	-
60	-	-	479	668	885	1 132	1 413	1 731	-
Coefficient of performance (C.O.P.)									
20	1.57	1.85	2.18	2.56	2.99	3.50	-	-	-
30	1.23	1.48	1.74	2.03	2.36	2.72	3.12	3.57	-
35	1.07	1.30	1.55	1.80	2.09	2.40	2.74	3.12	-
40	0.92	1.14	1.36	1.59	1.84	2.11	2.40	2.72	-
45	0.78	0.98	1.18	1.39	1.60	1.84	2.09	2.37	-
50	0.63	0.83	1.01	1.19	1.39	1.59	1.81	2.05	-
55	-	0.68	0.84	1.01	1.18	1.35	1.55	1.75	-
60	-	-	0.68	0.82	0.97	1.13	1.30	1.48	-

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

Cooling capacity	29 012	W
Power input	18 080	W
Current consumption	24.42	A
Mass flow	1 028	kg/h
C.O.P.	1.60	

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	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

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Performance data at 90 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	
Cooling capacity in W									
20	16 638	22 421	29 465	37 918	47 931	59 653	-	-	-
30	13 621	19 078	25 644	33 472	42 714	53 520	66 039	80 423	-
35	11 984	17 211	23 472	30 922	39 712	49 995	61 920	75 640	-
40	10 299	15 252	21 165	28 192	36 488	46 204	57 494	70 509	-
45	8 593	13 229	18 749	25 312	33 071	42 181	52 796	65 068	-
50	-	11 169	16 256	22 312	29 495	37 961	47 865	59 361	-
55	-	-	13 715	19 228	25 800	33 590	42 754	53 450	-
60	-	-	-	16 102	22 039	29 134	37 546	47 434	-
Power input in W									
20	9 708	11 095	12 402	13 616	14 729	15 729	-	-	-
30	9 936	11 638	13 297	14 902	16 444	17 912	19 296	20 586	-
35	9 912	11 761	13 585	15 376	17 121	18 812	20 438	21 988	-
40	9 787	11 775	13 759	15 726	17 669	19 575	21 436	23 240	-
45	9 555	11 676	13 810	15 948	18 080	20 195	22 283	24 334	-
50	-	11 455	13 733	16 034	18 348	20 664	22 973	25 263	-
55	-	-	13 521	15 978	18 467	20 977	23 499	26 021	-
60	-	-	-	15 772	18 429	21 126	23 854	26 601	-
Current consumption in A									
20	13.13	15.43	17.77	20.21	22.83	25.67	-	-	-
30	13.50	15.87	18.21	20.58	23.04	25.65	28.47	31.56	-
35	13.57	16.08	18.52	20.95	23.43	26.02	28.77	31.77	-
40	13.48	16.20	18.80	21.35	23.91	26.54	29.31	32.26	-
45	13.15	16.14	18.97	21.71	24.42	27.16	30.00	32.99	-
50	-	15.84	18.97	21.96	24.89	27.81	30.77	33.86	-
55	-	-	18.72	22.03	25.24	28.40	31.57	34.81	-
60	-	-	-	21.85	25.41	28.87	32.31	35.78	-
Mass flow in kg/h									
20	419	556	716	901	1 114	1 358	-	-	-
30	383	526	691	880	1 098	1 347	1 630	1 950	-
35	359	504	670	861	1 080	1 330	1 614	1 935	-
40	330	476	643	835	1 055	1 305	1 589	1 910	-
45	297	443	611	803	1 022	1 272	1 556	1 877	-
50	-	405	572	764	982	1 232	1 515	1 834	-
55	-	-	528	718	935	1 183	1 464	1 782	-
60	-	-	-	665	880	1 125	1 404	1 720	-
Coefficient of performance (C.O.P.)									
20	1.71	2.02	2.38	2.78	3.25	3.79	-	-	-
30	1.37	1.64	1.93	2.25	2.60	2.99	3.42	3.91	-
35	1.21	1.46	1.73	2.01	2.32	2.66	3.03	3.44	-
40	1.05	1.30	1.54	1.79	2.07	2.36	2.68	3.03	-
45	0.90	1.13	1.36	1.59	1.83	2.09	2.37	2.67	-
50	-	0.98	1.18	1.39	1.61	1.84	2.08	2.35	-
55	-	-	1.01	1.20	1.40	1.60	1.82	2.05	-
60	-	-	-	1.02	1.20	1.38	1.57	1.78	-

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

Cooling capacity	33 071	W
Power input	18 080	W
Current consumption	24.42	A
Mass flow	1 022	kg/h
C.O.P.	1.83	

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	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

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Performance data at 30 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	8 116	9 229	11 843	15 053	18 948	-	-	-	-
30	7 046	8 081	10 492	13 429	16 982	21 240	26 295	-	-
40	5 821	6 761	8 929	11 555	14 727	18 537	23 073	28 426	-
45	-	6 062	8 094	10 550	13 518	17 089	21 352	26 397	-
50	-	-	7 237	9 513	12 267	15 590	19 570	24 297	-
55	-	-	6 368	8 455	10 985	14 050	17 737	22 138	-
60	-	-	-	7 385	9 683	12 479	15 865	19 930	-
65	-	-	-	-	8 369	10 889	13 963	17 681	-
Power input in W									
20	2 856	2 956	3 127	3 264	3 371	-	-	-	-
30	3 331	3 484	3 754	3 980	4 164	4 310	4 421	-	-
40	3 704	3 931	4 341	4 698	5 002	5 259	5 469	5 636	-
45	-	4 102	4 599	5 036	5 417	5 744	6 020	6 248	-
50	-	-	4 821	5 349	5 816	6 225	6 577	6 876	-
55	-	-	4 998	5 629	6 193	6 693	7 132	7 512	-
60	-	-	-	5 866	6 538	7 140	7 676	8 148	-
65	-	-	-	-	6 842	7 557	8 200	8 775	-
Current consumption in A									
20	4.66	4.70	4.73	4.71	4.66	-	-	-	-
30	5.18	5.26	5.39	5.46	5.50	5.55	5.61	-	-
40	5.74	5.91	6.18	6.41	6.61	6.80	7.02	7.28	-
45	-	6.18	6.55	6.87	7.17	7.47	7.79	8.15	-
50	-	-	6.86	7.29	7.71	8.12	8.55	9.03	-
55	-	-	7.07	7.63	8.18	8.72	9.28	9.90	-
60	-	-	-	7.86	8.55	9.23	9.95	10.70	-
65	-	-	-	-	8.79	9.63	10.51	11.42	-
Mass flow in kg/h									
20	155	176	222	278	345	-	-	-	-
30	147	167	214	269	335	414	505	-	-
40	134	154	200	255	319	396	485	590	-
45	-	146	191	245	309	384	472	575	-
50	-	-	181	234	296	370	457	558	-
55	-	-	170	221	282	354	440	539	-
60	-	-	-	207	266	337	420	518	-
65	-	-	-	-	249	318	399	494	-
Coefficient of performance (C.O.P.)									
20	2.84	3.12	3.79	4.61	5.62	-	-	-	-
30	2.11	2.32	2.80	3.37	4.08	4.93	5.95	-	-
40	1.57	1.72	2.06	2.46	2.94	3.53	4.22	5.04	-
45	-	1.48	1.76	2.09	2.50	2.98	3.55	4.23	-
50	-	-	1.50	1.78	2.11	2.50	2.98	3.53	-
55	-	-	1.27	1.50	1.77	2.10	2.49	2.95	-
60	-	-	-	1.26	1.48	1.75	2.07	2.45	-
65	-	-	-	-	1.22	1.44	1.70	2.01	-

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

Cooling capacity	15 590	W
Power input	6 225	W
Current consumption	8.12	A
Mass flow	370	kg/h
C.O.P.	2.50	

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)

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

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Performance data at 30 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	8 631	9 809	12 577	15 972	20 087	-	-	-	-
30	7 552	8 657	11 227	14 355	18 134	22 659	28 024	-	-
40	6 304	7 318	9 650	12 471	15 876	19 958	24 814	30 536	-
45	-	6 603	8 802	11 455	14 657	18 504	23 091	28 512	-
50	-	-	7 928	10 403	13 393	16 995	21 303	26 413	-
55	-	-	-	9 325	12 094	15 441	19 461	24 252	-
60	-	-	-	8 232	10 769	13 852	17 576	22 039	-
65	-	-	-	-	9 431	12 240	15 660	19 788	-
Power input in W									
20	2 856	2 956	3 127	3 264	3 371	-	-	-	-
30	3 331	3 484	3 754	3 980	4 164	4 310	4 421	-	-
40	3 704	3 931	4 341	4 698	5 002	5 259	5 469	5 636	-
45	-	4 102	4 599	5 036	5 417	5 744	6 020	6 248	-
50	-	-	4 821	5 349	5 816	6 225	6 577	6 876	-
55	-	-	-	5 629	6 193	6 693	7 132	7 512	-
60	-	-	-	5 866	6 538	7 140	7 676	8 148	-
65	-	-	-	-	6 842	7 557	8 200	8 775	-
Current consumption in A									
20	4.66	4.70	4.73	4.71	4.66	-	-	-	-
30	5.18	5.26	5.39	5.46	5.50	5.55	5.61	-	-
40	5.74	5.91	6.18	6.41	6.61	6.80	7.02	7.28	-
45	-	6.18	6.55	6.87	7.17	7.47	7.79	8.15	-
50	-	-	6.86	7.29	7.71	8.12	8.55	9.03	-
55	-	-	-	7.63	8.18	8.72	9.28	9.90	-
60	-	-	-	7.86	8.55	9.23	9.95	10.70	-
65	-	-	-	-	8.79	9.63	10.51	11.42	-
Mass flow in kg/h									
20	155	175	221	277	343	-	-	-	-
30	146	166	213	268	334	411	502	-	-
40	133	154	199	253	317	393	482	586	-
45	-	145	190	244	307	382	469	572	-
50	-	-	180	233	295	368	454	555	-
55	-	-	-	220	281	352	437	536	-
60	-	-	-	206	265	335	418	514	-
65	-	-	-	-	248	316	396	491	-
Coefficient of performance (C.O.P.)									
20	3.02	3.32	4.02	4.89	5.96	-	-	-	-
30	2.27	2.49	2.99	3.61	4.35	5.26	6.34	-	-
40	1.70	1.86	2.22	2.65	3.17	3.80	4.54	5.42	-
45	-	1.61	1.91	2.27	2.71	3.22	3.84	4.56	-
50	-	-	1.64	1.94	2.30	2.73	3.24	3.84	-
55	-	-	-	1.66	1.95	2.31	2.73	3.23	-
60	-	-	-	1.40	1.65	1.94	2.29	2.70	-
65	-	-	-	-	1.38	1.62	1.91	2.25	-

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

Cooling capacity	17 324	W
Power input	6 833	W
Current consumption	8.89	A
Mass flow	390	kg/h
C.O.P.	2.54	

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)

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

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Performance data at 35 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	10 080	11 416	14 531	18 320	22 879	-	-	-	-
30	8 661	9 896	12 757	16 221	20 386	25 347	31 202	-	-
40	7 132	8 245	10 811	13 911	17 641	22 099	27 379	33 580	-
45	-	7 396	9 799	12 702	16 200	20 390	25 368	31 232	-
50	-	-	8 775	11 470	14 725	18 638	23 304	28 821	-
55	-	-	7 747	10 225	13 228	16 853	21 197	26 357	-
60	-	-	-	8 977	11 717	15 045	19 057	23 850	-
65	-	-	-	-	10 204	13 225	16 894	21 309	-
Power input in W									
20	3 423	3 537	3 738	3 904	4 040	-	-	-	-
30	3 949	4 124	4 436	4 701	4 924	5 108	5 259	-	-
40	4 346	4 606	5 077	5 489	5 847	6 154	6 414	6 633	-
45	-	4 786	5 355	5 859	6 301	6 687	7 021	7 306	-
50	-	-	5 594	6 201	6 740	7 217	7 636	8 000	-
55	-	-	5 784	6 506	7 155	7 735	8 250	8 704	-
60	-	-	-	6 767	7 536	8 231	8 855	9 412	-
65	-	-	-	-	7 877	8 698	9 442	10 114	-
Current consumption in A									
20	5.34	5.32	5.34	5.37	5.40	-	-	-	-
30	6.02	6.05	6.16	6.31	6.46	6.58	6.63	-	-
40	6.66	6.76	7.01	7.32	7.65	7.96	8.22	8.39	-
45	-	7.05	7.40	7.81	8.24	8.67	9.05	9.36	-
50	-	-	7.72	8.24	8.80	9.36	9.88	10.33	-
55	-	-	7.96	8.62	9.31	10.01	10.68	11.28	-
60	-	-	-	8.90	9.74	10.59	11.43	12.20	-
65	-	-	-	-	10.07	11.10	12.11	13.07	-
Mass flow in kg/h									
20	193	217	273	339	417	-	-	-	-
30	181	205	260	325	403	493	600	-	-
40	164	188	242	306	382	471	576	697	-
45	-	178	232	295	370	458	561	681	-
50	-	-	220	282	356	442	544	662	-
55	-	-	207	268	340	425	525	642	-
60	-	-	-	252	323	406	505	620	-
65	-	-	-	-	304	386	482	595	-
Coefficient of performance (C.O.P.)									
20	2.95	3.23	3.89	4.69	5.66	-	-	-	-
30	2.19	2.40	2.88	3.45	4.14	4.96	5.93	-	-
40	1.64	1.79	2.13	2.53	3.02	3.59	4.27	5.06	-
45	-	1.55	1.83	2.17	2.57	3.05	3.61	4.27	-
50	-	-	1.57	1.85	2.18	2.58	3.05	3.60	-
55	-	-	1.34	1.57	1.85	2.18	2.57	3.03	-
60	-	-	-	1.33	1.55	1.83	2.15	2.53	-
65	-	-	-	-	1.30	1.52	1.79	2.11	-

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

Cooling capacity	18 638	W
Power input	7 217	W
Current consumption	9.36	A
Mass flow	442	kg/h
C.O.P.	2.58	

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)

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

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Performance data at 35 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	10 720	12 134	15 431	19 438	24 254	-	-	-	-
30	9 284	10 601	13 651	17 339	21 769	27 040	33 255	-	-
40	7 724	8 923	11 684	15 014	19 017	23 793	29 444	36 073	-
45	-	8 055	10 656	13 792	17 565	22 079	27 435	33 735	-
50	-	-	9 612	12 543	16 077	20 318	25 369	31 331	-
55	-	-	-	11 277	14 563	18 522	23 257	28 873	-
60	-	-	-	10 006	13 033	16 700	21 113	26 374	-
65	-	-	-	-	11 499	14 866	18 948	23 848	-
Power input in W									
20	3 423	3 537	3 738	3 904	4 040	-	-	-	-
30	3 949	4 124	4 436	4 701	4 924	5 108	5 259	-	-
40	4 346	4 606	5 077	5 489	5 847	6 154	6 414	6 633	-
45	-	4 786	5 355	5 859	6 301	6 687	7 021	7 306	-
50	-	-	5 594	6 201	6 740	7 217	7 636	8 000	-
55	-	-	-	6 506	7 155	7 735	8 250	8 704	-
60	-	-	-	6 767	7 536	8 231	8 855	9 412	-
65	-	-	-	-	7 877	8 698	9 442	10 114	-
Current consumption in A									
20	5.34	5.32	5.34	5.37	5.40	-	-	-	-
30	6.02	6.05	6.16	6.31	6.46	6.58	6.63	-	-
40	6.66	6.76	7.01	7.32	7.65	7.96	8.22	8.39	-
45	-	7.05	7.40	7.81	8.24	8.67	9.05	9.36	-
50	-	-	7.72	8.24	8.80	9.36	9.88	10.33	-
55	-	-	-	8.62	9.31	10.01	10.68	11.28	-
60	-	-	-	8.90	9.74	10.59	11.43	12.20	-
65	-	-	-	-	10.07	11.10	12.11	13.07	-
Mass flow in kg/h									
20	192	216	271	337	414	-	-	-	-
30	180	204	259	324	400	491	596	-	-
40	164	187	241	305	380	469	572	693	-
45	-	177	230	293	368	455	558	677	-
50	-	-	219	280	354	440	541	658	-
55	-	-	-	266	338	423	522	638	-
60	-	-	-	250	321	404	502	616	-
65	-	-	-	-	302	383	479	591	-
Coefficient of performance (C.O.P.)									
20	3.13	3.43	4.13	4.98	6.00	-	-	-	-
30	2.35	2.57	3.08	3.69	4.42	5.29	6.32	-	-
40	1.78	1.94	2.30	2.74	3.25	3.87	4.59	5.44	-
45	-	1.68	1.99	2.35	2.79	3.30	3.91	4.62	-
50	-	-	1.72	2.02	2.39	2.82	3.32	3.92	-
55	-	-	-	1.73	2.04	2.39	2.82	3.32	-
60	-	-	-	1.48	1.73	2.03	2.38	2.80	-
65	-	-	-	-	1.46	1.71	2.01	2.36	-

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

Cooling capacity	20 737	W
Power input	7 902	W
Current consumption	10.22	A
Mass flow	467	kg/h
C.O.P.	2.62	

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)

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Performance data at 40 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	11 940	13 495	17 104	21 464	26 679	-	-	-	-
30	10 199	11 630	14 938	18 925	23 695	29 352	35 998	-	-
40	8 382	9 668	12 633	16 205	20 488	25 586	31 602	38 639	-
45	-	8 676	11 452	14 801	18 825	23 627	29 312	35 983	-
50	-	-	10 267	13 381	17 135	21 632	26 975	33 268	-
55	-	-	9 085	11 955	15 428	19 608	24 599	30 504	-
60	-	-	-	10 532	13 714	17 568	22 195	27 701	-
65	-	-	-	-	12 003	15 519	19 773	24 870	-
Power input in W									
20	3 999	4 134	4 374	4 578	4 751	-	-	-	-
30	4 569	4 772	5 138	5 454	5 727	5 961	6 160	-	-
40	4 988	5 284	5 827	6 308	6 732	7 103	7 427	7 710	-
45	-	5 473	6 124	6 706	7 224	7 684	8 090	8 447	-
50	-	-	6 377	7 073	7 699	8 260	8 760	9 205	-
55	-	-	6 579	7 402	8 148	8 823	9 431	9 976	-
60	-	-	-	7 685	8 564	9 365	10 093	10 752	-
65	-	-	-	-	8 938	9 878	10 739	11 525	-
Current consumption in A									
20	6.02	5.97	5.99	6.10	6.21	-	-	-	-
30	6.85	6.85	6.97	7.20	7.46	7.67	7.74	-	-
40	7.54	7.60	7.87	8.28	8.74	9.17	9.50	9.63	-
45	-	7.90	8.27	8.78	9.36	9.92	10.39	10.68	-
50	-	-	8.61	9.24	9.95	10.65	11.27	11.73	-
55	-	-	8.88	9.64	10.49	11.35	12.14	12.77	-
60	-	-	-	9.97	10.97	12.00	12.97	13.79	-
65	-	-	-	-	11.39	12.59	13.75	14.78	-
Mass flow in kg/h									
20	228	257	321	397	486	-	-	-	-
30	213	241	305	380	468	571	692	-	-
40	193	221	283	357	444	546	665	802	-
45	-	209	271	344	430	531	648	784	-
50	-	-	257	329	414	514	630	765	-
55	-	-	242	313	396	495	610	743	-
60	-	-	-	296	378	474	588	720	-
65	-	-	-	-	357	452	564	694	-
Coefficient of performance (C.O.P.)									
20	2.99	3.26	3.91	4.69	5.62	-	-	-	-
30	2.23	2.44	2.91	3.47	4.14	4.92	5.84	-	-
40	1.68	1.83	2.17	2.57	3.04	3.60	4.25	5.01	-
45	-	1.59	1.87	2.21	2.61	3.08	3.62	4.26	-
50	-	-	1.61	1.89	2.23	2.62	3.08	3.61	-
55	-	-	1.38	1.62	1.89	2.22	2.61	3.06	-
60	-	-	-	1.37	1.60	1.88	2.20	2.58	-
65	-	-	-	-	1.34	1.57	1.84	2.16	-

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

Cooling capacity	21 632	W
Power input	8 260	W
Current consumption	10.65	A
Mass flow	514	kg/h
C.O.P.	2.62	

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)

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

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Performance data at 40 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	12 697	14 344	18 163	22 773	28 282	-	-	-	-
30	10 932	12 459	15 985	20 230	25 303	31 312	38 366	-	-
40	9 078	10 464	13 653	17 490	22 085	27 547	33 985	41 508	-
45	-	9 449	12 454	16 071	20 412	25 585	31 700	38 866	-
50	-	-	11 246	14 633	18 708	23 582	29 364	36 164	-
55	-	-	-	13 186	16 985	21 550	26 990	33 416	-
60	-	-	-	11 740	15 254	19 500	24 589	30 633	-
65	-	-	-	-	13 526	17 445	22 177	27 833	-
Power input in W									
20	3 999	4 134	4 374	4 578	4 751	-	-	-	-
30	4 569	4 772	5 138	5 454	5 727	5 961	6 160	-	-
40	4 988	5 284	5 827	6 308	6 732	7 103	7 427	7 710	-
45	-	5 473	6 124	6 706	7 224	7 684	8 090	8 447	-
50	-	-	6 377	7 073	7 699	8 260	8 760	9 205	-
55	-	-	-	7 402	8 148	8 823	9 431	9 976	-
60	-	-	-	7 685	8 564	9 365	10 093	10 752	-
65	-	-	-	-	8 938	9 878	10 739	11 525	-
Current consumption in A									
20	6.02	5.97	5.99	6.10	6.21	-	-	-	-
30	6.85	6.85	6.97	7.20	7.46	7.67	7.74	-	-
40	7.54	7.60	7.87	8.28	8.74	9.17	9.50	9.63	-
45	-	7.90	8.27	8.78	9.36	9.92	10.39	10.68	-
50	-	-	8.61	9.24	9.95	10.65	11.27	11.73	-
55	-	-	-	9.64	10.49	11.35	12.14	12.77	-
60	-	-	-	9.97	10.97	12.00	12.97	13.79	-
65	-	-	-	-	11.39	12.59	13.75	14.78	-
Mass flow in kg/h									
20	227	255	319	395	483	-	-	-	-
30	212	240	303	378	465	568	688	-	-
40	192	220	282	355	441	543	661	797	-
45	-	208	269	342	427	527	644	780	-
50	-	-	256	327	411	511	626	760	-
55	-	-	-	311	394	492	606	739	-
60	-	-	-	294	375	472	584	715	-
65	-	-	-	-	355	450	561	690	-
Coefficient of performance (C.O.P.)									
20	3.18	3.47	4.15	4.97	5.95	-	-	-	-
30	2.39	2.61	3.11	3.71	4.42	5.25	6.23	-	-
40	1.82	1.98	2.34	2.77	3.28	3.88	4.58	5.38	-
45	-	1.73	2.03	2.40	2.83	3.33	3.92	4.60	-
50	-	-	1.76	2.07	2.43	2.86	3.35	3.93	-
55	-	-	-	1.78	2.08	2.44	2.86	3.35	-
60	-	-	-	1.53	1.78	2.08	2.44	2.85	-
65	-	-	-	-	1.51	1.77	2.07	2.42	-

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

Cooling capacity	24 092	W
Power input	9 025	W
Current consumption	11.62	A
Mass flow	542	kg/h
C.O.P.	2.67	

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)

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

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Performance data at 45 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	13 695	15 466	19 561	24 485	30 348	-	-	-	-
30	11 657	13 284	17 035	21 540	26 910	33 255	40 683	-	-
40	9 571	11 031	14 393	18 435	23 267	28 999	35 741	43 603	-
45	-	9 902	13 053	16 847	21 393	26 802	33 184	40 648	-
50	-	-	11 713	15 247	19 496	24 571	30 581	37 637	-
55	-	-	10 382	13 645	17 586	22 316	27 943	34 579	-
60	-	-	-	12 051	15 673	20 046	25 280	31 484	-
65	-	-	-	-	13 767	17 771	22 600	28 362	-
Power input in W									
20	4 585	4 746	5 036	5 288	5 506	-	-	-	-
30	5 192	5 428	5 859	6 240	6 574	6 868	7 124	-	-
40	5 630	5 967	6 591	7 153	7 657	8 107	8 509	8 866	-
45	-	6 163	6 904	7 576	8 184	8 733	9 226	9 670	-
50	-	-	7 171	7 967	8 692	9 352	9 951	10 493	-
55	-	-	7 386	8 318	9 173	9 958	10 675	11 329	-
60	-	-	-	8 621	9 620	10 542	11 390	12 170	-
65	-	-	-	-	10 025	11 097	12 090	13 008	-
Current consumption in A									
20	6.71	6.65	6.69	6.88	7.08	-	-	-	-
30	7.66	7.64	7.81	8.13	8.51	8.82	8.95	-	-
40	8.39	8.44	8.76	9.28	9.88	10.44	10.85	11.00	-
45	-	8.75	9.17	9.80	10.53	11.23	11.80	12.12	-
50	-	-	9.52	10.27	11.14	12.00	12.74	13.25	-
55	-	-	9.81	10.70	11.71	12.74	13.66	14.37	-
60	-	-	-	11.07	12.25	13.45	14.57	15.48	-
65	-	-	-	-	12.73	14.12	15.44	16.57	-
Mass flow in kg/h									
20	262	294	367	453	553	-	-	-	-
30	243	275	347	432	532	647	782	-	-
40	221	252	323	406	504	619	752	905	-
45	-	239	309	391	488	602	734	886	-
50	-	-	293	375	471	583	714	865	-
55	-	-	277	357	452	563	693	843	-
60	-	-	-	338	432	541	670	818	-
65	-	-	-	-	410	518	645	792	-
Coefficient of performance (C.O.P.)									
20	2.99	3.26	3.88	4.63	5.51	-	-	-	-
30	2.25	2.45	2.91	3.45	4.09	4.84	5.71	-	-
40	1.70	1.85	2.18	2.58	3.04	3.58	4.20	4.92	-
45	-	1.61	1.89	2.22	2.61	3.07	3.60	4.20	-
50	-	-	1.63	1.91	2.24	2.63	3.07	3.59	-
55	-	-	1.41	1.64	1.92	2.24	2.62	3.05	-
60	-	-	-	1.40	1.63	1.90	2.22	2.59	-
65	-	-	-	-	1.37	1.60	1.87	2.18	-

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

Cooling capacity	24 571	W
Power input	9 352	W
Current consumption	12.00	A
Mass flow	583	kg/h
C.O.P.	2.63	

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)

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

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Performance data at 45 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	14 564	16 440	20 773	25 979	32 172	-	-	-	-
30	12 495	14 231	18 229	23 026	28 736	35 476	43 360	-	-
40	10 365	11 939	15 556	19 898	25 081	31 223	38 437	46 840	-
45	-	10 785	14 195	18 293	23 196	29 022	35 886	43 905	-
50	-	-	12 831	16 673	21 286	26 786	33 290	40 914	-
55	-	-	-	15 050	19 361	24 525	30 659	37 880	-
60	-	-	-	13 434	17 433	22 251	28 006	34 817	-
65	-	-	-	-	15 514	19 978	25 347	31 742	-
Power input in W									
20	4 585	4 746	5 036	5 288	5 506	-	-	-	-
30	5 192	5 428	5 859	6 240	6 574	6 868	7 124	-	-
40	5 630	5 967	6 591	7 153	7 657	8 107	8 509	8 866	-
45	-	6 163	6 904	7 576	8 184	8 733	9 226	9 670	-
50	-	-	7 171	7 967	8 692	9 352	9 951	10 493	-
55	-	-	-	8 318	9 173	9 958	10 675	11 329	-
60	-	-	-	8 621	9 620	10 542	11 390	12 170	-
65	-	-	-	-	10 025	11 097	12 090	13 008	-
Current consumption in A									
20	6.71	6.65	6.69	6.88	7.08	-	-	-	-
30	7.66	7.64	7.81	8.13	8.51	8.82	8.95	-	-
40	8.39	8.44	8.76	9.28	9.88	10.44	10.85	11.00	-
45	-	8.75	9.17	9.80	10.53	11.23	11.80	12.12	-
50	-	-	9.52	10.27	11.14	12.00	12.74	13.25	-
55	-	-	-	10.70	11.71	12.74	13.66	14.37	-
60	-	-	-	11.07	12.25	13.45	14.57	15.48	-
65	-	-	-	-	12.73	14.12	15.44	16.57	-
Mass flow in kg/h									
20	261	293	365	450	550	-	-	-	-
30	242	274	345	430	529	644	777	-	-
40	219	251	321	404	501	615	747	899	-
45	-	237	307	389	485	598	729	881	-
50	-	-	292	373	468	580	710	860	-
55	-	-	-	355	449	560	689	838	-
60	-	-	-	336	429	538	666	813	-
65	-	-	-	-	407	515	641	787	-
Coefficient of performance (C.O.P.)									
20	3.18	3.46	4.12	4.91	5.84	-	-	-	-
30	2.41	2.62	3.11	3.69	4.37	5.17	6.09	-	-
40	1.84	2.00	2.36	2.78	3.28	3.85	4.52	5.28	-
45	-	1.75	2.06	2.41	2.83	3.32	3.89	4.54	-
50	-	-	1.79	2.09	2.45	2.86	3.35	3.90	-
55	-	-	-	1.81	2.11	2.46	2.87	3.34	-
60	-	-	-	1.56	1.81	2.11	2.46	2.86	-
65	-	-	-	-	1.55	1.80	2.10	2.44	-

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

Cooling capacity	27 389	W
Power input	10 203	W
Current consumption	13.07	A
Mass flow	617	kg/h
C.O.P.	2.68	

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)

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

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Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	15 346	17 330	21 904	27 384	33 887	-	-	-	-
30	13 037	14 858	19 049	24 068	30 031	37 056	45 258	-	-
40	10 699	12 334	16 094	20 603	25 980	32 339	39 798	48 472	-
45	-	11 075	14 602	18 840	23 905	29 913	36 982	45 228	-
50	-	-	13 114	17 067	21 809	27 455	34 123	41 929	-
55	-	-	11 638	15 296	19 702	24 975	31 229	38 582	-
60	-	-	-	13 535	17 594	22 481	28 310	35 199	-
65	-	-	-	-	15 494	19 983	25 375	31 788	-
Power input in W									
20	5 181	5 373	5 723	6 032	6 303	-	-	-	-
30	5 818	6 093	6 601	7 057	7 466	7 829	8 152	-	-
40	6 270	6 653	7 370	8 025	8 623	9 166	9 658	10 102	-
45	-	6 856	7 697	8 471	9 182	9 834	10 430	10 974	-
50	-	-	7 976	8 882	9 721	10 494	11 207	11 863	-
55	-	-	8 202	9 252	10 230	11 139	11 982	12 762	-
60	-	-	-	9 575	10 705	11 761	12 746	13 665	-
65	-	-	-	-	11 138	12 354	13 495	14 564	-
Current consumption in A									
20	7.40	7.35	7.45	7.71	8.01	-	-	-	-
30	8.45	8.44	8.67	9.11	9.61	10.03	10.24	-	-
40	9.20	9.27	9.68	10.32	11.07	11.77	12.29	12.49	-
45	-	9.59	10.09	10.86	11.74	12.60	13.29	13.68	-
50	-	-	10.46	11.35	12.38	13.41	14.28	14.87	-
55	-	-	10.77	11.80	12.99	14.19	15.26	16.06	-
60	-	-	-	12.21	13.56	14.95	16.22	17.25	-
65	-	-	-	-	14.10	15.69	17.18	18.43	-
Mass flow in kg/h									
20	293	330	411	506	617	-	-	-	-
30	272	308	388	483	593	721	870	-	-
40	247	282	361	454	563	690	837	1 006	-
45	-	267	345	437	546	672	818	986	-
50	-	-	328	420	527	652	797	964	-
55	-	-	311	400	506	630	774	940	-
60	-	-	-	380	484	607	750	915	-
65	-	-	-	-	461	582	724	887	-
Coefficient of performance (C.O.P.)									
20	2.96	3.23	3.83	4.54	5.38	-	-	-	-
30	2.24	2.44	2.89	3.41	4.02	4.73	5.55	-	-
40	1.71	1.85	2.18	2.57	3.01	3.53	4.12	4.80	-
45	-	1.62	1.90	2.22	2.60	3.04	3.55	4.12	-
50	-	-	1.64	1.92	2.24	2.62	3.04	3.53	-
55	-	-	1.42	1.65	1.93	2.24	2.61	3.02	-
60	-	-	-	1.41	1.64	1.91	2.22	2.58	-
65	-	-	-	-	1.39	1.62	1.88	2.18	-

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

Cooling capacity	27 455	W
Power input	10 494	W
Current consumption	13.41	A
Mass flow	652	kg/h
C.O.P.	2.62	

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)

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

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Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	16 320	18 420	23 261	29 055	35 924	-	-	-	-
30	13 974	15 917	20 384	25 727	32 069	39 531	48 235	-	-
40	11 587	13 348	17 393	22 238	28 005	34 818	42 799	52 071	-
45	-	12 063	15 879	20 457	25 920	32 391	39 994	48 852	-
50	-	-	14 365	18 664	23 811	29 930	37 145	45 579	-
55	-	-	-	16 871	21 691	27 447	34 264	42 265	-
60	-	-	-	15 087	19 570	24 953	31 363	38 924	-
65	-	-	-	-	17 461	22 463	28 460	35 576	-
Power input in W									
20	5 181	5 373	5 723	6 032	6 303	-	-	-	-
30	5 818	6 093	6 601	7 057	7 466	7 829	8 152	-	-
40	6 270	6 653	7 370	8 025	8 623	9 166	9 658	10 102	-
45	-	6 856	7 697	8 471	9 182	9 834	10 430	10 974	-
50	-	-	7 976	8 882	9 721	10 494	11 207	11 863	-
55	-	-	-	9 252	10 230	11 139	11 982	12 762	-
60	-	-	-	9 575	10 705	11 761	12 746	13 665	-
65	-	-	-	-	11 138	12 354	13 495	14 564	-
Current consumption in A									
20	7.40	7.35	7.45	7.71	8.01	-	-	-	-
30	8.45	8.44	8.67	9.11	9.61	10.03	10.24	-	-
40	9.20	9.27	9.68	10.32	11.07	11.77	12.29	12.49	-
45	-	9.59	10.09	10.86	11.74	12.60	13.29	13.68	-
50	-	-	10.46	11.35	12.38	13.41	14.28	14.87	-
55	-	-	-	11.80	12.99	14.19	15.26	16.06	-
60	-	-	-	12.21	13.56	14.95	16.22	17.25	-
65	-	-	-	-	14.10	15.69	17.18	18.43	-
Mass flow in kg/h									
20	292	328	409	504	614	-	-	-	-
30	271	306	386	480	590	717	864	-	-
40	245	280	359	451	560	686	832	1 000	-
45	-	266	343	435	542	668	813	980	-
50	-	-	327	417	524	648	792	958	-
55	-	-	-	398	503	627	770	935	-
60	-	-	-	378	482	604	745	909	-
65	-	-	-	-	459	579	719	882	-
Coefficient of performance (C.O.P.)									
20	3.15	3.43	4.06	4.82	5.70	-	-	-	-
30	2.40	2.61	3.09	3.65	4.30	5.05	5.92	-	-
40	1.85	2.01	2.36	2.77	3.25	3.80	4.43	5.15	-
45	-	1.76	2.06	2.41	2.82	3.29	3.83	4.45	-
50	-	-	1.80	2.10	2.45	2.85	3.31	3.84	-
55	-	-	-	1.82	2.12	2.46	2.86	3.31	-
60	-	-	-	1.58	1.83	2.12	2.46	2.85	-
65	-	-	-	-	1.57	1.82	2.11	2.44	-

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

Cooling capacity	30 628	W
Power input	11 434	W
Current consumption	14.58	A
Mass flow	690	kg/h
C.O.P.	2.68	

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)

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

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Performance data at 55 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	16 893	19 085	24 131	30 160	37 296	-	-	-	-
30	14 338	16 352	20 979	26 506	33 057	40 754	49 721	-	-
40	11 766	13 576	17 733	22 709	28 625	35 605	43 771	53 246	-
45	-	12 195	16 099	20 779	26 359	32 961	40 709	49 724	-
50	-	-	14 469	18 842	24 073	30 285	37 601	46 143	-
55	-	-	12 854	16 907	21 776	27 586	34 457	42 514	-
60	-	-	-	14 982	19 477	24 871	31 286	38 845	-
65	-	-	-	-	17 186	22 152	28 098	35 146	-
Power input in W									
20	5 786	6 015	6 436	6 812	7 143	-	-	-	-
30	6 447	6 766	7 362	7 907	8 400	8 845	9 242	-	-
40	6 911	7 343	8 162	8 924	9 629	10 279	10 875	11 418	-
45	-	7 552	8 501	9 390	10 218	10 989	11 702	12 361	-
50	-	-	8 792	9 819	10 784	11 687	12 530	13 315	-
55	-	-	9 029	10 207	11 319	12 367	13 352	14 275	-
60	-	-	-	10 546	11 818	13 023	14 162	15 236	-
65	-	-	-	-	12 277	13 650	14 955	16 193	-
Current consumption in A									
20	8.11	8.08	8.25	8.61	9.01	-	-	-	-
30	9.21	9.25	9.58	10.13	10.76	11.31	11.62	-	-
40	9.98	10.10	10.62	11.40	12.30	13.15	13.81	14.10	-
45	-	10.41	11.04	11.96	13.00	14.02	14.86	15.37	-
50	-	-	11.42	12.47	13.67	14.87	15.90	16.62	-
55	-	-	11.74	12.94	14.31	15.69	16.92	17.86	-
60	-	-	-	13.37	14.92	16.49	17.94	19.11	-
65	-	-	-	-	15.50	17.28	18.96	20.37	-
Mass flow in kg/h									
20	323	363	453	558	680	-	-	-	-
30	299	339	428	532	653	793	955	-	-
40	271	310	398	500	620	760	920	1 105	-
45	-	294	381	482	602	740	900	1 084	-
50	-	-	362	463	581	719	878	1 061	-
55	-	-	343	443	560	696	854	1 036	-
60	-	-	-	421	536	672	829	1 009	-
65	-	-	-	-	512	645	801	981	-
Coefficient of performance (C.O.P.)									
20	2.92	3.17	3.75	4.43	5.22	-	-	-	-
30	2.22	2.42	2.85	3.35	3.94	4.61	5.38	-	-
40	1.70	1.85	2.17	2.54	2.97	3.46	4.02	4.66	-
45	-	1.61	1.89	2.21	2.58	3.00	3.48	4.02	-
50	-	-	1.65	1.92	2.23	2.59	3.00	3.47	-
55	-	-	1.42	1.66	1.92	2.23	2.58	2.98	-
60	-	-	-	1.42	1.65	1.91	2.21	2.55	-
65	-	-	-	-	1.40	1.62	1.88	2.17	-

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

Cooling capacity	30 285	W
Power input	11 687	W
Current consumption	14.87	A
Mass flow	719	kg/h
C.O.P.	2.59	

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)

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

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Performance data at 55 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	17 965	20 287	25 626	32 001	39 537	-	-	-	-
30	15 369	17 518	22 449	28 334	35 300	43 477	52 991	-	-
40	12 743	14 693	19 165	24 510	30 857	38 334	47 072	57 199	-
45	-	13 282	17 507	22 563	28 581	35 692	44 024	53 707	-
50	-	-	15 850	20 605	26 284	33 016	40 931	50 161	-
55	-	-	-	18 647	23 974	30 316	37 806	46 572	-
60	-	-	-	16 700	21 664	27 607	34 661	42 956	-
65	-	-	-	-	19 367	24 902	31 514	39 334	-
Power input in W									
20	5 786	6 015	6 436	6 812	7 143	-	-	-	-
30	6 447	6 766	7 362	7 907	8 400	8 845	9 242	-	-
40	6 911	7 343	8 162	8 924	9 629	10 279	10 875	11 418	-
45	-	7 552	8 501	9 390	10 218	10 989	11 702	12 361	-
50	-	-	8 792	9 819	10 784	11 687	12 530	13 315	-
55	-	-	-	10 207	11 319	12 367	13 352	14 275	-
60	-	-	-	10 546	11 818	13 023	14 162	15 236	-
65	-	-	-	-	12 277	13 650	14 955	16 193	-
Current consumption in A									
20	8.11	8.08	8.25	8.61	9.01	-	-	-	-
30	9.21	9.25	9.58	10.13	10.76	11.31	11.62	-	-
40	9.98	10.10	10.62	11.40	12.30	13.15	13.81	14.10	-
45	-	10.41	11.04	11.96	13.00	14.02	14.86	15.37	-
50	-	-	11.42	12.47	13.67	14.87	15.90	16.62	-
55	-	-	-	12.94	14.31	15.69	16.92	17.86	-
60	-	-	-	13.37	14.92	16.49	17.94	19.11	-
65	-	-	-	-	15.50	17.28	18.96	20.37	-
Mass flow in kg/h									
20	321	361	450	555	676	-	-	-	-
30	298	337	425	529	649	789	950	-	-
40	270	308	395	498	617	755	915	1 098	-
45	-	292	379	480	598	736	895	1 077	-
50	-	-	360	461	578	715	873	1 055	-
55	-	-	-	440	556	692	849	1 030	-
60	-	-	-	418	533	668	824	1 003	-
65	-	-	-	-	509	642	796	975	-
Coefficient of performance (C.O.P.)									
20	3.10	3.37	3.98	4.70	5.54	-	-	-	-
30	2.38	2.59	3.05	3.58	4.20	4.92	5.73	-	-
40	1.84	2.00	2.35	2.75	3.20	3.73	4.33	5.01	-
45	-	1.76	2.06	2.40	2.80	3.25	3.76	4.35	-
50	-	-	1.80	2.10	2.44	2.83	3.27	3.77	-
55	-	-	-	1.83	2.12	2.45	2.83	3.26	-
60	-	-	-	1.58	1.83	2.12	2.45	2.82	-
65	-	-	-	-	1.58	1.82	2.11	2.43	-

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

Cooling capacity	33 810	W
Power input	12 720	W
Current consumption	16.15	A
Mass flow	761	kg/h
C.O.P.	2.66	

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)

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

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Performance data at 60 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	18 335	20 733	26 244	32 814	40 574	-	-	-	-
30	15 561	17 766	22 825	28 857	35 989	44 351	54 072	-	-
40	12 772	14 758	19 313	24 751	31 203	38 796	47 661	57 925	-
45	-	13 261	17 544	22 666	28 757	35 946	44 362	54 134	-
50	-	-	15 779	20 572	26 289	33 061	41 015	50 280	-
55	-	-	14 028	18 477	23 808	30 148	37 627	46 374	-
60	-	-	-	16 393	21 323	27 218	34 209	42 423	-
65	-	-	-	-	18 842	24 280	30 769	38 437	-
Power input in W									
20	6 402	6 672	7 175	7 626	8 025	-	-	-	-
30	7 079	7 447	8 143	8 788	9 379	9 915	10 395	-	-
40	7 550	8 036	8 969	9 850	10 676	11 447	12 160	12 814	-
45	-	8 251	9 318	10 332	11 292	12 196	13 042	13 829	-
50	-	-	9 618	10 777	11 881	12 929	13 919	14 849	-
55	-	-	9 866	11 180	12 439	13 641	14 785	15 869	-
60	-	-	-	11 536	12 961	14 328	15 637	16 885	-
65	-	-	-	-	13 442	14 985	16 470	17 894	-
Current consumption in A									
20	8.82	8.83	9.10	9.57	10.08	-	-	-	-
30	9.96	10.05	10.51	11.20	11.96	12.64	13.09	-	-
40	10.73	10.91	11.59	12.53	13.58	14.59	15.40	15.85	-
45	-	11.23	12.02	13.10	14.32	15.50	16.51	17.17	-
50	-	-	12.40	13.63	15.01	16.38	17.59	18.47	-
55	-	-	12.73	14.12	15.67	17.24	18.66	19.77	-
60	-	-	-	14.57	16.31	18.08	19.72	21.07	-
65	-	-	-	-	16.94	18.91	20.78	22.38	-
Mass flow in kg/h									
20	351	394	492	607	739	-	-	-	-
30	325	368	465	579	711	864	1 039	-	-
40	294	337	433	545	676	828	1 002	1 202	-
45	-	320	415	526	656	807	981	1 180	-
50	-	-	395	506	635	785	958	1 156	-
55	-	-	374	484	612	761	933	1 130	-
60	-	-	-	460	587	735	906	1 102	-
65	-	-	-	-	561	707	877	1 072	-
Coefficient of performance (C.O.P.)									
20	2.86	3.11	3.66	4.30	5.06	-	-	-	-
30	2.20	2.39	2.80	3.28	3.84	4.47	5.20	-	-
40	1.69	1.84	2.15	2.51	2.92	3.39	3.92	4.52	-
45	-	1.61	1.88	2.19	2.55	2.95	3.40	3.91	-
50	-	-	1.64	1.91	2.21	2.56	2.95	3.39	-
55	-	-	1.42	1.65	1.91	2.21	2.54	2.92	-
60	-	-	-	1.42	1.65	1.90	2.19	2.51	-
65	-	-	-	-	1.40	1.62	1.87	2.15	-

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

Cooling capacity	33 061	W
Power input	12 929	W
Current consumption	16.38	A
Mass flow	785	kg/h
C.O.P.	2.56	

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)

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

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Performance data at 60 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	19 499	22 038	27 870	34 816	43 012	-	-	-	-
30	16 680	19 033	24 425	30 846	38 431	47 314	57 629	-	-
40	13 832	15 972	20 872	26 715	33 636	41 771	51 255	62 225	-
45	-	14 444	19 078	24 612	31 181	38 924	47 975	58 471	-
50	-	-	17 285	22 497	28 703	36 041	44 647	54 658	-
55	-	-	-	20 380	26 211	33 133	41 284	50 800	-
60	-	-	-	18 273	23 716	30 212	37 898	46 913	-
65	-	-	-	-	21 234	27 295	34 509	43 017	-
Power input in W									
20	6 402	6 672	7 175	7 626	8 025	-	-	-	-
30	7 079	7 447	8 143	8 788	9 379	9 915	10 395	-	-
40	7 550	8 036	8 969	9 850	10 676	11 447	12 160	12 814	-
45	-	8 251	9 318	10 332	11 292	12 196	13 042	13 829	-
50	-	-	9 618	10 777	11 881	12 929	13 919	14 849	-
55	-	-	-	11 180	12 439	13 641	14 785	15 869	-
60	-	-	-	11 536	12 961	14 328	15 637	16 885	-
65	-	-	-	-	13 442	14 985	16 470	17 894	-
Current consumption in A									
20	8.82	8.83	9.10	9.57	10.08	-	-	-	-
30	9.96	10.05	10.51	11.20	11.96	12.64	13.09	-	-
40	10.73	10.91	11.59	12.53	13.58	14.59	15.40	15.85	-
45	-	11.23	12.02	13.10	14.32	15.50	16.51	17.17	-
50	-	-	12.40	13.63	15.01	16.38	17.59	18.47	-
55	-	-	-	14.12	15.67	17.24	18.66	19.77	-
60	-	-	-	14.57	16.31	18.08	19.72	21.07	-
65	-	-	-	-	16.94	18.91	20.78	22.38	-
Mass flow in kg/h									
20	349	392	490	603	735	-	-	-	-
30	323	366	463	576	707	859	1 033	-	-
40	293	335	431	542	672	823	996	1 195	-
45	-	318	413	523	653	803	975	1 173	-
50	-	-	393	503	631	780	952	1 149	-
55	-	-	-	481	608	756	927	1 123	-
60	-	-	-	458	584	731	901	1 096	-
65	-	-	-	-	558	703	872	1 066	-
Coefficient of performance (C.O.P.)									
20	3.05	3.30	3.88	4.57	5.36	-	-	-	-
30	2.36	2.56	3.00	3.51	4.10	4.77	5.54	-	-
40	1.83	1.99	2.33	2.71	3.15	3.65	4.22	4.86	-
45	-	1.75	2.05	2.38	2.76	3.19	3.68	4.23	-
50	-	-	1.80	2.09	2.42	2.79	3.21	3.68	-
55	-	-	-	1.82	2.11	2.43	2.79	3.20	-
60	-	-	-	1.58	1.83	2.11	2.42	2.78	-
65	-	-	-	-	1.58	1.82	2.10	2.40	-

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

Cooling capacity	36 933	W
Power input	14 059	W
Current consumption	17.78	A
Mass flow	832	kg/h
C.O.P.	2.63	

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)

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Performance data at 65 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	19 674	22 273	28 241	35 345	43 721	-	-	-	-
30	16 705	19 100	24 588	31 119	38 826	47 846	58 313	-	-
40	13 717	15 879	20 831	26 731	33 714	41 914	51 467	62 508	-
45	-	14 274	18 937	24 500	31 099	38 868	47 943	58 459	-
50	-	-	17 043	22 256	28 457	35 781	44 364	54 340	-
55	-	-	15 161	20 009	25 797	32 663	40 739	50 161	-
60	-	-	-	17 767	23 130	29 521	37 077	45 932	-
65	-	-	-	-	20 463	26 367	33 388	41 661	-
Power input in W									
20	7 027	7 344	7 939	8 476	8 951	-	-	-	-
30	7 714	8 136	8 944	9 701	10 402	11 040	11 611	-	-
40	8 190	8 733	9 790	10 802	11 763	12 669	13 513	14 290	-
45	-	8 953	10 147	11 299	12 404	13 456	14 450	15 379	-
50	-	-	10 455	11 757	13 014	14 221	15 373	16 465	-
55	-	-	10 713	12 173	13 591	14 962	16 281	17 543	-
60	-	-	-	12 544	14 131	15 676	17 171	18 612	-
65	-	-	-	-	14 633	16 359	18 039	19 667	-
Current consumption in A									
20	9.54	9.61	10.01	10.59	11.21	-	-	-	-
30	10.69	10.86	11.47	12.30	13.21	14.04	14.64	-	-
40	11.44	11.72	12.58	13.69	14.91	16.09	17.07	17.72	-
45	-	12.03	13.03	14.29	15.68	17.04	18.23	19.09	-
50	-	-	13.41	14.84	16.40	17.96	19.35	20.44	-
55	-	-	13.74	15.34	17.09	18.84	20.46	21.78	-
60	-	-	-	15.81	17.75	19.71	21.55	23.12	-
65	-	-	-	-	18.39	20.58	22.65	24.46	-
Mass flow in kg/h									
20	376	424	530	654	797	-	-	-	-
30	349	396	501	624	767	932	1 121	-	-
40	316	363	467	589	731	894	1 082	1 297	-
45	-	344	448	569	710	873	1 060	1 274	-
50	-	-	427	547	687	849	1 036	1 250	-
55	-	-	405	524	663	824	1 010	1 223	-
60	-	-	-	499	637	797	982	1 193	-
65	-	-	-	-	609	768	952	1 162	-
Coefficient of performance (C.O.P.)									
20	2.80	3.03	3.56	4.17	4.88	-	-	-	-
30	2.17	2.35	2.75	3.21	3.73	4.33	5.02	-	-
40	1.67	1.82	2.13	2.47	2.87	3.31	3.81	4.37	-
45	-	1.59	1.87	2.17	2.51	2.89	3.32	3.80	-
50	-	-	1.63	1.89	2.19	2.52	2.89	3.30	-
55	-	-	1.42	1.64	1.90	2.18	2.50	2.86	-
60	-	-	-	1.42	1.64	1.88	2.16	2.47	-
65	-	-	-	-	1.40	1.61	1.85	2.12	-

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

Cooling capacity	35 781	W
Power input	14 221	W
Current consumption	17.96	A
Mass flow	849	kg/h
C.O.P.	2.52	

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)

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

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Performance data at 65 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	20 922	23 675	29 991	37 502	46 349	-	-	-	-
30	17 906	20 462	26 312	33 264	41 461	51 042	62 149	-	-
40	14 856	17 185	22 513	28 851	36 342	45 127	55 349	67 149	-
45	-	15 547	20 593	26 603	33 720	42 088	51 848	63 143	-
50	-	-	18 670	24 338	31 070	39 007	48 293	59 072	-
55	-	-	-	22 069	28 401	35 896	44 698	54 950	-
60	-	-	-	19 805	25 726	32 768	41 076	50 793	-
65	-	-	-	-	23 060	29 640	37 447	46 625	-
Power input in W									
20	7 027	7 344	7 939	8 476	8 951	-	-	-	-
30	7 714	8 136	8 944	9 701	10 402	11 040	11 611	-	-
40	8 190	8 733	9 790	10 802	11 763	12 669	13 513	14 290	-
45	-	8 953	10 147	11 299	12 404	13 456	14 450	15 379	-
50	-	-	10 455	11 757	13 014	14 221	15 373	16 465	-
55	-	-	-	12 173	13 591	14 962	16 281	17 543	-
60	-	-	-	12 544	14 131	15 676	17 171	18 612	-
65	-	-	-	-	14 633	16 359	18 039	19 667	-
Current consumption in A									
20	9.54	9.61	10.01	10.59	11.21	-	-	-	-
30	10.69	10.86	11.47	12.30	13.21	14.04	14.64	-	-
40	11.44	11.72	12.58	13.69	14.91	16.09	17.07	17.72	-
45	-	12.03	13.03	14.29	15.68	17.04	18.23	19.09	-
50	-	-	13.41	14.84	16.40	17.96	19.35	20.44	-
55	-	-	-	15.34	17.09	18.84	20.46	21.78	-
60	-	-	-	15.81	17.75	19.71	21.55	23.12	-
65	-	-	-	-	18.39	20.58	22.65	24.46	-
Mass flow in kg/h									
20	374	421	527	650	792	-	-	-	-
30	347	394	499	621	763	926	1 114	-	-
40	315	361	464	586	726	889	1 076	1 289	-
45	-	342	445	566	706	868	1 054	1 267	-
50	-	-	425	544	683	845	1 030	1 242	-
55	-	-	-	521	659	820	1 004	1 215	-
60	-	-	-	496	633	793	976	1 186	-
65	-	-	-	-	606	764	946	1 155	-
Coefficient of performance (C.O.P.)									
20	2.98	3.22	3.78	4.42	5.18	-	-	-	-
30	2.32	2.52	2.94	3.43	3.99	4.62	5.35	-	-
40	1.81	1.97	2.30	2.67	3.09	3.56	4.10	4.70	-
45	-	1.74	2.03	2.35	2.72	3.13	3.59	4.11	-
50	-	-	1.79	2.07	2.39	2.74	3.14	3.59	-
55	-	-	-	1.81	2.09	2.40	2.75	3.13	-
60	-	-	-	1.58	1.82	2.09	2.39	2.73	-
65	-	-	-	-	1.58	1.81	2.08	2.37	-

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

Cooling capacity	39 999	W
Power input	15 453	W
Current consumption	19.46	A
Mass flow	901	kg/h
C.O.P.	2.59	

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)

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

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Performance data at 70 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	20 907	23 706	30 123	37 754	46 739	-	-	-	-
30	17 770	20 354	26 267	33 292	41 569	51 239	62 443	-	-
40	14 601	16 940	22 289	28 648	36 157	44 958	55 191	66 997	-
45	-	15 234	20 277	26 280	33 383	41 727	51 452	62 699	-
50	-	-	18 262	23 894	30 576	38 447	47 650	58 323	-
55	-	-	16 254	21 500	27 745	35 129	43 793	53 878	-
60	-	-	-	19 106	24 899	31 781	39 892	49 373	-
65	-	-	-	-	22 048	28 412	35 955	44 817	-
Power input in W									
20	7 662	8 032	8 728	9 361	9 919	-	-	-	-
30	8 352	8 833	9 765	10 646	11 468	12 219	12 890	-	-
40	8 829	9 434	10 625	11 781	12 891	13 945	14 934	15 845	-
45	-	9 657	10 987	12 290	13 553	14 768	15 925	17 012	-
50	-	-	11 303	12 758	14 181	15 564	16 894	18 163	-
55	-	-	11 571	13 184	14 774	16 330	17 841	19 297	-
60	-	-	-	13 569	15 331	17 066	18 764	20 415	-
65	-	-	-	-	15 851	17 772	19 663	21 514	-
Current consumption in A									
20	10.26	10.42	10.96	11.66	12.41	-	-	-	-
30	11.39	11.68	12.47	13.45	14.51	15.49	16.29	-	-
40	12.11	12.53	13.60	14.90	16.29	17.64	18.83	19.71	-
45	-	12.82	14.05	15.52	17.09	18.63	20.02	21.13	-
50	-	-	14.44	16.08	17.84	19.58	21.19	22.52	-
55	-	-	14.77	16.60	18.55	20.50	22.32	23.89	-
60	-	-	-	17.07	19.23	21.39	23.45	25.25	-
65	-	-	-	-	19.88	22.27	24.56	26.62	-
Mass flow in kg/h									
20	400	451	565	698	852	-	-	-	-
30	371	422	535	668	821	998	1 200	-	-
40	337	387	500	631	783	959	1 161	1 390	-
45	-	367	479	610	762	937	1 138	1 367	-
50	-	-	457	587	738	913	1 113	1 341	-
55	-	-	434	563	713	886	1 086	1 313	-
60	-	-	-	537	686	858	1 056	1 283	-
65	-	-	-	-	656	828	1 025	1 250	-
Coefficient of performance (C.O.P.)									
20	2.73	2.95	3.45	4.03	4.71	-	-	-	-
30	2.13	2.30	2.69	3.13	3.62	4.19	4.84	-	-
40	1.65	1.80	2.10	2.43	2.80	3.22	3.70	4.23	-
45	-	1.58	1.85	2.14	2.46	2.83	3.23	3.69	-
50	-	-	1.62	1.87	2.16	2.47	2.82	3.21	-
55	-	-	1.40	1.63	1.88	2.15	2.45	2.79	-
60	-	-	-	1.41	1.62	1.86	2.13	2.42	-
65	-	-	-	-	1.39	1.60	1.83	2.08	-

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

Cooling capacity	38 447	W
Power input	15 564	W
Current consumption	19.58	A
Mass flow	913	kg/h
C.O.P.	2.47	

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)

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

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Performance data at 70 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	22 234	25 198	31 990	40 058	49 548	-	-	-	-
30	19 048	21 805	28 108	35 588	44 390	54 662	66 550	-	-
40	15 813	18 334	24 089	30 920	38 976	48 405	59 354	71 971	-
45	-	16 592	22 050	28 536	36 197	45 183	55 642	67 722	-
50	-	-	20 005	26 130	33 383	41 913	51 870	63 401	-
55	-	-	-	23 714	30 545	38 607	48 049	59 021	-
60	-	-	-	21 297	27 694	35 276	44 194	54 598	-
65	-	-	-	-	24 845	31 939	40 326	50 157	-
Power input in W									
20	7 662	8 032	8 728	9 361	9 919	-	-	-	-
30	8 352	8 833	9 765	10 646	11 468	12 219	12 890	-	-
40	8 829	9 434	10 625	11 781	12 891	13 945	14 934	15 845	-
45	-	9 657	10 987	12 290	13 553	14 768	15 925	17 012	-
50	-	-	11 303	12 758	14 181	15 564	16 894	18 163	-
55	-	-	-	13 184	14 774	16 330	17 841	19 297	-
60	-	-	-	13 569	15 331	17 066	18 764	20 415	-
65	-	-	-	-	15 851	17 772	19 663	21 514	-
Current consumption in A									
20	10.26	10.42	10.96	11.66	12.41	-	-	-	-
30	11.39	11.68	12.47	13.45	14.51	15.49	16.29	-	-
40	12.11	12.53	13.60	14.90	16.29	17.64	18.83	19.71	-
45	-	12.82	14.05	15.52	17.09	18.63	20.02	21.13	-
50	-	-	14.44	16.08	17.84	19.58	21.19	22.52	-
55	-	-	-	16.60	18.55	20.50	22.32	23.89	-
60	-	-	-	17.07	19.23	21.39	23.45	25.25	-
65	-	-	-	-	19.88	22.27	24.56	26.62	-
Mass flow in kg/h									
20	398	448	562	694	847	-	-	-	-
30	369	419	533	664	817	992	1 193	-	-
40	335	385	497	628	779	954	1 154	1 382	-
45	-	365	477	607	758	932	1 131	1 358	-
50	-	-	455	584	734	908	1 106	1 333	-
55	-	-	-	560	709	881	1 079	1 305	-
60	-	-	-	534	682	853	1 050	1 275	-
65	-	-	-	-	653	823	1 019	1 242	-
Coefficient of performance (C.O.P.)									
20	2.90	3.14	3.67	4.28	5.00	-	-	-	-
30	2.28	2.47	2.88	3.34	3.87	4.47	5.16	-	-
40	1.79	1.94	2.27	2.62	3.02	3.47	3.97	4.54	-
45	-	1.72	2.01	2.32	2.67	3.06	3.49	3.98	-
50	-	-	1.77	2.05	2.35	2.69	3.07	3.49	-
55	-	-	-	1.80	2.07	2.36	2.69	3.06	-
60	-	-	-	1.57	1.81	2.07	2.36	2.67	-
65	-	-	-	-	1.57	1.80	2.05	2.33	-

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

Cooling capacity	43 007	W
Power input	16 901	W
Current consumption	21.21	A
Mass flow	968	kg/h
C.O.P.	2.54	

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)

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

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Performance data at 75 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	22 037	25 030	31 891	40 041	49 626	-	-	-	-
30	18 757	21 528	27 863	35 377	44 218	54 530	66 461	-	-
40	15 424	17 941	23 687	30 502	38 534	47 928	58 831	71 390	-
45	-	16 140	21 566	28 008	35 611	44 522	54 888	66 854	-
50	-	-	19 436	25 488	32 647	41 059	50 871	62 228	-
55	-	-	17 305	22 952	29 650	37 547	46 789	57 522	-
60	-	-	-	20 408	26 630	33 996	42 652	52 745	-
65	-	-	-	-	23 597	30 415	38 470	47 905	-
Power input in W									
20	8 307	8 734	9 543	10 280	10 929	-	-	-	-
30	8 993	9 539	10 605	11 624	12 578	13 453	14 231	-	-
40	9 467	10 139	11 475	12 787	14 060	15 277	16 422	17 481	-
45	-	10 365	11 840	13 304	14 741	16 134	17 468	18 726	-
50	-	-	12 161	13 780	15 383	16 956	18 481	19 943	-
55	-	-	12 439	14 216	15 989	17 744	19 463	21 132	-
60	-	-	-	14 612	16 559	18 499	20 416	22 295	-
65	-	-	-	-	17 094	19 223	21 341	23 432	-
Current consumption in A									
20	10.99	11.26	11.96	12.80	13.67	-	-	-	-
30	12.08	12.49	13.50	14.65	15.85	17.01	18.02	-	-
40	12.75	13.32	14.65	16.15	17.72	19.25	20.66	21.84	-
45	-	13.61	15.11	16.79	18.55	20.28	21.90	23.29	-
50	-	-	15.50	17.37	19.32	21.27	23.10	24.71	-
55	-	-	15.82	17.89	20.05	22.21	24.26	26.11	-
60	-	-	-	18.37	20.74	23.12	25.40	27.48	-
65	-	-	-	-	21.40	24.00	26.52	28.85	-
Mass flow in kg/h									
20	421	476	598	740	904	-	-	-	-
30	391	446	568	710	873	1 062	1 277	-	-
40	355	410	531	672	835	1 023	1 237	1 481	-
45	-	389	510	650	813	1 000	1 214	1 457	-
50	-	-	487	627	788	975	1 188	1 431	-
55	-	-	462	601	762	947	1 160	1 402	-
60	-	-	-	573	733	918	1 129	1 370	-
65	-	-	-	-	702	886	1 096	1 336	-
Coefficient of performance (C.O.P.)									
20	2.65	2.87	3.34	3.89	4.54	-	-	-	-
30	2.09	2.26	2.63	3.04	3.52	4.05	4.67	-	-
40	1.63	1.77	2.06	2.39	2.74	3.14	3.58	4.08	-
45	-	1.56	1.82	2.11	2.42	2.76	3.14	3.57	-
50	-	-	1.60	1.85	2.12	2.42	2.75	3.12	-
55	-	-	1.39	1.61	1.85	2.12	2.40	2.72	-
60	-	-	-	1.40	1.61	1.84	2.09	2.37	-
65	-	-	-	-	1.38	1.58	1.80	2.04	-

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

Cooling capacity	41 059	W
Power input	16 956	W
Current consumption	21.27	A
Mass flow	975	kg/h
C.O.P.	2.42	

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)

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

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Performance data at 75 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	23 435	26 605	33 867	42 484	52 608	-	-	-	-
30	20 105	23 062	29 816	37 817	47 218	58 173	70 833	-	-
40	16 705	19 417	25 599	32 922	41 538	51 603	63 269	76 690	-
45	-	17 579	23 452	30 412	38 613	48 210	59 358	72 210	-
50	-	-	21 291	27 873	35 644	44 760	55 376	67 647	-
55	-	-	-	25 315	32 643	41 264	51 336	63 013	-
60	-	-	-	22 749	29 620	37 735	47 252	58 327	-
65	-	-	-	-	26 591	34 191	43 146	53 614	-
Power input in W									
20	8 307	8 734	9 543	10 280	10 929	-	-	-	-
30	8 993	9 539	10 605	11 624	12 578	13 453	14 231	-	-
40	9 467	10 139	11 475	12 787	14 060	15 277	16 422	17 481	-
45	-	10 365	11 840	13 304	14 741	16 134	17 468	18 726	-
50	-	-	12 161	13 780	15 383	16 956	18 481	19 943	-
55	-	-	-	14 216	15 989	17 744	19 463	21 132	-
60	-	-	-	14 612	16 559	18 499	20 416	22 295	-
65	-	-	-	-	17 094	19 223	21 341	23 432	-
Current consumption in A									
20	10.99	11.26	11.96	12.80	13.67	-	-	-	-
30	12.08	12.49	13.50	14.65	15.85	17.01	18.02	-	-
40	12.75	13.32	14.65	16.15	17.72	19.25	20.66	21.84	-
45	-	13.61	15.11	16.79	18.55	20.28	21.90	23.29	-
50	-	-	15.50	17.37	19.32	21.27	23.10	24.71	-
55	-	-	-	17.89	20.05	22.21	24.26	26.11	-
60	-	-	-	18.37	20.74	23.12	25.40	27.48	-
65	-	-	-	-	21.40	24.00	26.52	28.85	-
Mass flow in kg/h									
20	419	474	595	736	899	-	-	-	-
30	389	444	565	706	869	1 056	1 270	-	-
40	354	407	528	668	830	1 017	1 230	1 472	-
45	-	387	507	647	808	994	1 207	1 448	-
50	-	-	484	623	784	969	1 181	1 422	-
55	-	-	-	598	758	942	1 153	1 393	-
60	-	-	-	570	729	913	1 123	1 362	-
65	-	-	-	-	698	881	1 090	1 328	-
Coefficient of performance (C.O.P.)									
20	2.82	3.05	3.55	4.13	4.81	-	-	-	-
30	2.24	2.42	2.81	3.25	3.75	4.32	4.98	-	-
40	1.76	1.92	2.23	2.57	2.95	3.38	3.85	4.39	-
45	-	1.70	1.98	2.29	2.62	2.99	3.40	3.86	-
50	-	-	1.75	2.02	2.32	2.64	3.00	3.39	-
55	-	-	-	1.78	2.04	2.33	2.64	2.98	-
60	-	-	-	1.56	1.79	2.04	2.31	2.62	-
65	-	-	-	-	1.56	1.78	2.02	2.29	-

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

Cooling capacity	45 958	W
Power input	18 403	W
Current consumption	23.01	A
Mass flow	1 035	kg/h
C.O.P.	2.50	

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)

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

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Performance data at 80 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	23 063	26 247	33 543	42 204	52 382	-	-	-	-
30	19 665	22 621	29 375	37 374	46 772	57 719	70 368	-	-
40	16 187	18 882	25 023	32 293	40 843	50 824	62 389	75 688	-
45	-	16 992	22 803	29 682	37 782	47 254	58 251	70 924	-
50	-	-	20 564	27 036	34 669	43 616	54 028	66 056	-
55	-	-	18 316	24 363	31 513	39 917	49 727	61 095	-
60	-	-	-	21 675	28 324	36 168	45 359	56 049	-
65	-	-	-	-	25 110	32 377	40 932	50 927	-
Power input in W									
20	8 962	9 452	10 384	11 235	11 983	-	-	-	-
30	9 636	10 253	11 466	12 633	13 732	14 741	15 636	-	-
40	10 105	10 847	12 338	13 820	15 268	16 662	17 979	19 196	-
45	-	11 075	12 705	14 343	15 966	17 552	19 078	20 523	-
50	-	-	13 030	14 824	16 620	18 398	20 134	21 805	-
55	-	-	13 317	15 266	17 236	19 205	21 149	23 047	-
60	-	-	-	15 673	17 816	19 975	22 128	24 252	-
65	-	-	-	-	18 364	20 713	23 074	25 424	-
Current consumption in A									
20	11.73	12.13	13.02	13.99	15.00	-	-	-	-
30	12.75	13.31	14.55	15.88	17.25	18.59	19.85	-	-
40	13.36	14.11	15.73	17.44	19.19	20.92	22.57	24.09	-
45	-	14.38	16.19	18.10	20.06	21.99	23.85	25.57	-
50	-	-	16.58	18.70	20.86	23.01	25.08	27.02	-
55	-	-	16.89	19.23	21.61	23.97	26.26	28.43	-
60	-	-	-	19.70	22.30	24.89	27.41	29.80	-
65	-	-	-	-	22.95	25.77	28.52	31.15	-
Mass flow in kg/h									
20	441	499	629	780	955	-	-	-	-
30	410	469	599	750	924	1 124	1 352	-	-
40	373	431	561	711	885	1 084	1 312	1 570	-
45	-	410	539	689	862	1 061	1 288	1 546	-
50	-	-	515	665	837	1 035	1 262	1 519	-
55	-	-	489	638	810	1 007	1 233	1 489	-
60	-	-	-	609	780	976	1 201	1 456	-
65	-	-	-	-	747	943	1 166	1 420	-
Coefficient of performance (C.O.P.)									
20	2.57	2.78	3.23	3.76	4.37	-	-	-	-
30	2.04	2.21	2.56	2.96	3.41	3.92	4.50	-	-
40	1.60	1.74	2.03	2.34	2.67	3.05	3.47	3.94	-
45	-	1.53	1.79	2.07	2.37	2.69	3.05	3.46	-
50	-	-	1.58	1.82	2.09	2.37	2.68	3.03	-
55	-	-	1.38	1.60	1.83	2.08	2.35	2.65	-
60	-	-	-	1.38	1.59	1.81	2.05	2.31	-
65	-	-	-	-	1.37	1.56	1.77	2.00	-

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

Cooling capacity	43 616	W
Power input	18 398	W
Current consumption	23.01	A
Mass flow	1 035	kg/h
C.O.P.	2.37	

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)

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

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Performance data at 80 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	24 526	27 899	35 621	44 779	55 530	-	-	-	-
30	21 079	24 234	31 433	39 951	49 945	61 575	74 997	-	-
40	17 530	20 435	27 044	34 855	44 027	54 721	67 094	81 307	-
45	-	18 507	24 797	32 230	40 967	51 169	62 995	76 606	-
50	-	-	22 526	29 565	37 852	47 548	58 813	71 808	-
55	-	-	-	26 872	34 694	43 869	54 559	66 927	-
60	-	-	-	24 160	31 503	40 146	50 251	61 981	-
65	-	-	-	-	28 296	36 397	45 908	56 995	-
Power input in W									
20	8 962	9 452	10 384	11 235	11 983	-	-	-	-
30	9 636	10 253	11 466	12 633	13 732	14 741	15 636	-	-
40	10 105	10 847	12 338	13 820	15 268	16 662	17 979	19 196	-
45	-	11 075	12 705	14 343	15 966	17 552	19 078	20 523	-
50	-	-	13 030	14 824	16 620	18 398	20 134	21 805	-
55	-	-	-	15 266	17 236	19 205	21 149	23 047	-
60	-	-	-	15 673	17 816	19 975	22 128	24 252	-
65	-	-	-	-	18 364	20 713	23 074	25 424	-
Current consumption in A									
20	11.73	12.13	13.02	13.99	15.00	-	-	-	-
30	12.75	13.31	14.55	15.88	17.25	18.59	19.85	-	-
40	13.36	14.11	15.73	17.44	19.19	20.92	22.57	24.09	-
45	-	14.38	16.19	18.10	20.06	21.99	23.85	25.57	-
50	-	-	16.58	18.70	20.86	23.01	25.08	27.02	-
55	-	-	-	19.23	21.61	23.97	26.26	28.43	-
60	-	-	-	19.70	22.30	24.89	27.41	29.80	-
65	-	-	-	-	22.95	25.77	28.52	31.15	-
Mass flow in kg/h									
20	439	497	626	776	949	-	-	-	-
30	408	466	596	746	919	1 118	1 344	-	-
40	371	429	558	708	880	1 078	1 304	1 561	-
45	-	407	536	685	858	1 055	1 281	1 536	-
50	-	-	512	661	833	1 029	1 254	1 509	-
55	-	-	-	634	805	1 001	1 225	1 480	-
60	-	-	-	605	776	971	1 194	1 447	-
65	-	-	-	-	743	937	1 159	1 412	-
Coefficient of performance (C.O.P.)									
20	2.74	2.95	3.43	3.99	4.63	-	-	-	-
30	2.19	2.36	2.74	3.16	3.64	4.18	4.80	-	-
40	1.73	1.88	2.19	2.52	2.88	3.28	3.73	4.24	-
45	-	1.67	1.95	2.25	2.57	2.92	3.30	3.73	-
50	-	-	1.73	1.99	2.28	2.58	2.92	3.29	-
55	-	-	-	1.76	2.01	2.28	2.58	2.90	-
60	-	-	-	1.54	1.77	2.01	2.27	2.56	-
65	-	-	-	-	1.54	1.76	1.99	2.24	-

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

Cooling capacity	48 850	W
Power input	19 959	W
Current consumption	24.87	A
Mass flow	1 100	kg/h
C.O.P.	2.45	

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)

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

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Performance data at 85 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	23 984	27 355	35 081	44 246	55 008	-	-	-	-
30	20 494	23 635	30 803	39 283	49 231	60 806	74 165	-	-
40	16 888	19 762	26 300	34 022	43 085	53 646	65 863	79 892	-
45	-	17 791	23 987	31 303	39 896	49 924	61 542	74 909	-
50	-	-	21 646	28 538	36 643	46 118	57 120	69 807	-
55	-	-	19 286	25 735	33 334	42 239	52 607	64 596	-
60	-	-	-	22 905	29 979	38 296	48 012	59 284	-
65	-	-	-	-	26 587	34 298	43 343	53 881	-
Power input in W									
20	9 627	10 184	11 250	12 225	13 079	-	-	-	-
30	10 283	10 975	12 346	13 674	14 930	16 083	17 104	-	-
40	10 742	11 559	13 216	14 879	16 518	18 103	19 604	20 991	-
45	-	11 789	13 582	15 405	17 229	19 022	20 756	22 401	-
50	-	-	13 910	15 889	17 892	19 890	21 852	23 749	-
55	-	-	14 206	16 336	18 514	20 712	22 898	25 043	-
60	-	-	-	16 752	19 102	21 494	23 899	26 287	-
65	-	-	-	-	19 660	22 242	24 861	27 488	-
Current consumption in A									
20	12.48	13.02	14.12	15.25	16.39	-	-	-	-
30	13.39	14.14	15.64	17.16	18.69	20.23	21.76	-	-
40	13.93	14.90	16.83	18.77	20.71	22.64	24.56	26.46	-
45	-	15.14	17.30	19.46	21.61	23.75	25.88	27.97	-
50	-	-	17.68	20.07	22.44	24.80	27.13	29.44	-
55	-	-	17.98	20.60	23.21	25.79	28.34	30.85	-
60	-	-	-	21.06	23.90	26.71	29.48	32.21	-
65	-	-	-	-	24.52	27.57	30.57	33.53	-
Mass flow in kg/h									
20	459	520	658	818	1 002	-	-	-	-
30	428	490	628	788	973	1 184	1 426	-	-
40	389	451	590	750	934	1 145	1 385	1 658	-
45	-	429	567	727	911	1 121	1 361	1 633	-
50	-	-	542	702	885	1 095	1 334	1 605	-
55	-	-	515	674	857	1 066	1 304	1 574	-
60	-	-	-	643	825	1 034	1 271	1 540	-
65	-	-	-	-	791	999	1 235	1 503	-
Coefficient of performance (C.O.P.)									
20	2.49	2.69	3.12	3.62	4.21	-	-	-	-
30	1.99	2.15	2.50	2.87	3.30	3.78	4.34	-	-
40	1.57	1.71	1.99	2.29	2.61	2.96	3.36	3.81	-
45	-	1.51	1.77	2.03	2.32	2.62	2.96	3.34	-
50	-	-	1.56	1.80	2.05	2.32	2.61	2.94	-
55	-	-	1.36	1.58	1.80	2.04	2.30	2.58	-
60	-	-	-	1.37	1.57	1.78	2.01	2.26	-
65	-	-	-	-	1.35	1.54	1.74	1.96	-

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

Cooling capacity	46 118	W
Power input	19 890	W
Current consumption	24.80	A
Mass flow	1 095	kg/h
C.O.P.	2.32	

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)

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

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Performance data at 85 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	25 505	29 077	37 254	46 945	58 314	-	-	-	-
30	21 968	25 320	32 962	41 991	52 572	64 868	79 043	-	-
40	18 290	21 387	28 424	36 721	46 444	57 759	70 831	85 823	-
45	-	19 378	26 085	33 990	43 259	54 059	66 554	80 910	-
50	-	-	23 712	31 208	40 007	50 276	62 180	75 885	-
55	-	-	-	28 385	36 698	46 421	57 719	70 762	-
60	-	-	-	25 532	33 345	42 508	53 190	65 558	-
65	-	-	-	-	29 961	38 555	48 612	60 301	-
Power input in W									
20	9 627	10 184	11 250	12 225	13 079	-	-	-	-
30	10 283	10 975	12 346	13 674	14 930	16 083	17 104	-	-
40	10 742	11 559	13 216	14 879	16 518	18 103	19 604	20 991	-
45	-	11 789	13 582	15 405	17 229	19 022	20 756	22 401	-
50	-	-	13 910	15 889	17 892	19 890	21 852	23 749	-
55	-	-	-	16 336	18 514	20 712	22 898	25 043	-
60	-	-	-	16 752	19 102	21 494	23 899	26 287	-
65	-	-	-	-	19 660	22 242	24 861	27 488	-
Current consumption in A									
20	12.48	13.02	14.12	15.25	16.39	-	-	-	-
30	13.39	14.14	15.64	17.16	18.69	20.23	21.76	-	-
40	13.93	14.90	16.83	18.77	20.71	22.64	24.56	26.46	-
45	-	15.14	17.30	19.46	21.61	23.75	25.88	27.97	-
50	-	-	17.68	20.07	22.44	24.80	27.13	29.44	-
55	-	-	-	20.60	23.21	25.79	28.34	30.85	-
60	-	-	-	21.06	23.90	26.71	29.48	32.21	-
65	-	-	-	-	24.52	27.57	30.57	33.53	-
Mass flow in kg/h									
20	456	518	655	813	997	-	-	-	-
30	425	487	624	784	967	1 177	1 417	-	-
40	387	449	586	745	928	1 138	1 377	1 648	-
45	-	427	564	723	906	1 115	1 353	1 623	-
50	-	-	539	698	880	1 089	1 326	1 595	-
55	-	-	-	670	852	1 060	1 296	1 564	-
60	-	-	-	640	821	1 028	1 263	1 530	-
65	-	-	-	-	787	993	1 228	1 493	-
Coefficient of performance (C.O.P.)									
20	2.65	2.86	3.31	3.84	4.46	-	-	-	-
30	2.14	2.31	2.67	3.07	3.52	4.03	4.62	-	-
40	1.70	1.85	2.15	2.47	2.81	3.19	3.61	4.09	-
45	-	1.64	1.92	2.21	2.51	2.84	3.21	3.61	-
50	-	-	1.70	1.96	2.24	2.53	2.85	3.20	-
55	-	-	-	1.74	1.98	2.24	2.52	2.83	-
60	-	-	-	1.52	1.75	1.98	2.23	2.49	-
65	-	-	-	-	1.52	1.73	1.96	2.19	-

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

Cooling capacity	51 685	W
Power input	21 569	W
Current consumption	26.78	A
Mass flow	1 164	kg/h
C.O.P.	2.40	

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)

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

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Performance data at 90 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	24 801	28 356	36 503	46 164	57 503	-	-	-	-
30	21 245	24 569	32 147	41 102	51 597	63 792	77 850	-	-
40	17 528	20 582	27 516	35 688	45 260	56 395	69 254	84 000	-
45	-	18 537	25 120	32 871	41 954	52 529	64 760	78 809	-
50	-	-	22 683	29 995	38 568	48 566	60 149	73 481	-
55	-	-	20 215	27 068	35 113	44 513	55 429	68 025	-
60	-	-	-	24 099	31 597	40 380	50 610	62 451	-
65	-	-	-	-	28 029	36 176	45 702	56 767	-
Power input in W									
20	10 301	10 932	12 142	13 250	14 218	-	-	-	-
30	10 932	11 705	13 246	14 747	16 171	17 480	18 635	-	-
40	11 379	12 274	14 108	15 965	17 808	19 598	21 296	22 866	-
45	-	12 505	14 471	16 492	18 529	20 546	22 503	24 361	-
50	-	-	14 800	16 975	19 199	21 432	23 637	25 776	-
55	-	-	15 105	17 425	19 825	22 266	24 710	27 118	-
60	-	-	-	17 849	20 416	23 055	25 729	28 398	-
65	-	-	-	-	20 982	23 810	26 703	29 624	-
Current consumption in A									
20	13.23	13.94	15.27	16.56	17.85	-	-	-	-
30	14.02	14.97	16.77	18.49	20.19	21.93	23.76	-	-
40	14.47	15.67	17.96	20.14	22.28	24.42	26.63	28.96	-
45	-	15.89	18.43	20.86	23.22	25.57	27.98	30.49	-
50	-	-	18.81	21.48	24.08	26.65	29.26	31.97	-
55	-	-	19.09	22.02	24.85	27.65	30.47	33.38	-
60	-	-	-	22.46	25.54	28.57	31.61	34.72	-
65	-	-	-	-	26.13	29.40	32.66	35.98	-
Mass flow in kg/h									
20	475	539	685	853	1 048	-	-	-	-
30	443	509	655	824	1 019	1 242	1 497	-	-
40	404	470	617	786	981	1 203	1 457	1 743	-
45	-	447	594	763	958	1 180	1 432	1 718	-
50	-	-	568	737	931	1 153	1 405	1 689	-
55	-	-	540	709	902	1 123	1 374	1 657	-
60	-	-	-	677	870	1 090	1 340	1 622	-
65	-	-	-	-	834	1 053	1 302	1 583	-
Coefficient of performance (C.O.P.)									
20	2.41	2.59	3.01	3.48	4.04	-	-	-	-
30	1.94	2.10	2.43	2.79	3.19	3.65	4.18	-	-
40	1.54	1.68	1.95	2.24	2.54	2.88	3.25	3.67	-
45	-	1.48	1.74	1.99	2.26	2.56	2.88	3.24	-
50	-	-	1.53	1.77	2.01	2.27	2.54	2.85	-
55	-	-	1.34	1.55	1.77	2.00	2.24	2.51	-
60	-	-	-	1.35	1.55	1.75	1.97	2.20	-
65	-	-	-	-	1.34	1.52	1.71	1.92	-

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

Cooling capacity	48 566	W
Power input	21 432	W
Current consumption	26.65	A
Mass flow	1 153	kg/h
C.O.P.	2.27	

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)

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

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Performance data at 90 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-17.5	-15	-10	-5	0	5	10	15	
Cooling capacity in W									
20	26 374	30 141	38 765	48 981	60 959	-	-	-	-
30	22 772	26 320	34 400	43 936	55 097	68 052	82 971	-	-
40	18 984	22 275	29 738	38 519	48 789	60 718	74 477	90 236	-
45	-	20 190	27 317	35 693	45 490	56 881	70 035	85 123	-
50	-	-	24 848	32 802	42 110	52 944	65 476	79 879	-
55	-	-	-	29 855	38 657	48 919	60 816	74 518	-
60	-	-	-	26 863	35 144	44 821	56 069	69 060	-
65	-	-	-	-	31 586	40 667	51 257	63 532	-
Power input in W									
20	10 301	10 932	12 142	13 250	14 218	-	-	-	-
30	10 932	11 705	13 246	14 747	16 171	17 480	18 635	-	-
40	11 379	12 274	14 108	15 965	17 808	19 598	21 296	22 866	-
45	-	12 505	14 471	16 492	18 529	20 546	22 503	24 361	-
50	-	-	14 800	16 975	19 199	21 432	23 637	25 776	-
55	-	-	-	17 425	19 825	22 266	24 710	27 118	-
60	-	-	-	17 849	20 416	23 055	25 729	28 398	-
65	-	-	-	-	20 982	23 810	26 703	29 624	-
Current consumption in A									
20	13.23	13.94	15.27	16.56	17.85	-	-	-	-
30	14.02	14.97	16.77	18.49	20.19	21.93	23.76	-	-
40	14.47	15.67	17.96	20.14	22.28	24.42	26.63	28.96	-
45	-	15.89	18.43	20.86	23.22	25.57	27.98	30.49	-
50	-	-	18.81	21.48	24.08	26.65	29.26	31.97	-
55	-	-	-	22.02	24.85	27.65	30.47	33.38	-
60	-	-	-	22.46	25.54	28.57	31.61	34.72	-
65	-	-	-	-	26.13	29.40	32.66	35.98	-
Mass flow in kg/h									
20	472	537	681	849	1 042	-	-	-	-
30	441	506	652	820	1 014	1 235	1 488	-	-
40	402	467	613	782	975	1 196	1 448	1 732	-
45	-	444	591	759	952	1 173	1 424	1 707	-
50	-	-	565	733	926	1 146	1 396	1 679	-
55	-	-	-	705	897	1 117	1 366	1 647	-
60	-	-	-	673	865	1 084	1 332	1 612	-
65	-	-	-	-	830	1 047	1 294	1 573	-
Coefficient of performance (C.O.P.)									
20	2.56	2.76	3.19	3.70	4.29	-	-	-	-
30	2.08	2.25	2.60	2.98	3.41	3.89	4.45	-	-
40	1.67	1.81	2.11	2.41	2.74	3.10	3.50	3.95	-
45	-	1.61	1.89	2.16	2.46	2.77	3.11	3.49	-
50	-	-	1.68	1.93	2.19	2.47	2.77	3.10	-
55	-	-	-	1.71	1.95	2.20	2.46	2.75	-
60	-	-	-	1.50	1.72	1.94	2.18	2.43	-
65	-	-	-	-	1.51	1.71	1.92	2.14	-

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

Cooling capacity	54 462	W
Power input	23 233	W
Current consumption	28.76	A
Mass flow	1 226	kg/h
C.O.P.	2.34	

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)

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

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