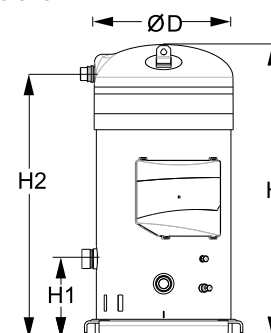


**General Characteristics**

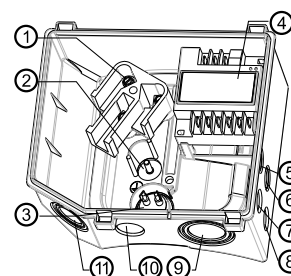
Model number (on compressor nameplate)	SY300A9PBE	SY300A9CBE
Code number for Singlepack*	SY300A9PBI	SY300A9CBI
Code number for Industrial pack**	SY300A9PBM	SY300A9CBM
Drawing number	8556099b	8556094b
Suction and discharge connections	Rotolock	Brazed
Suction connection	2-1/4" Rotolock	1-5/8" ODF
Discharge connection	1-3/4" Rotolock	1-1/8" ODF
Suction connection with supplied sleeve	1-5/8" ODF	
Discharge connection with supplied sleeve	1-1/8" ODF	
Oil sight glass	Threaded	Threaded
Oil equalisation connection	1/2" flare	1/2" flare
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	Schrader	Schrader
IPR valve	Yes	Yes
Reverse rotation protection	Electronic module	Electronic module
Swept volume	437.5 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	91.9 m <sup>3</sup> /h @ 3500 rpm	
Net weight	157 kg	
Oil charge	8 litre, POE - 320SZ	
Maximum system test pressure Low Side / High side	20 bar(g) / 32 bar(g)	
Maximum differential test pressure	24 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	20 kg	
Approved refrigerants	R22, R407C, R134a	

**Dimensions**


D=344 mm  
H=737.9 mm  
H1=195.7 mm  
H2=665 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380V/3/60Hz
Voltage range	342-418 V
Winding resistance (between phases) +/- 7% at 25°C	0.355 Ω
Rated Load Amps (RLA)	52.9 A
Maximum Continuous Current (MCC)	74 A
Locked Rotor Amps (LRA)	305 A
Motor protection	Electronic protection module, 115/230 V

**Terminal box**


IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermistor connector
- 4: Electronic protection module
- 5: Double knock-out Ø 22.5 mm (7/8") & Ø 16.5 mm (0.65")
- 6: Double knock-out Ø 22.5 mm (7/8") & Ø 16.5 mm (0.65")
- 7: Knock-out Ø 20.7 mm (0.81")
- 8: Knock-out Ø 20.7 mm (0.81")
- 9: Triple knock-out Ø 50.8 mm (2") & Ø 43.7 mm (1.72") & Ø 34.5 mm (1.35")
- 10: Knock-out Ø 25.5 mm (1.00")
- 11: Triple knock-out Ø 40.5 mm (1.59") & Ø 32.2 mm (1.27") & Ø 25.5 mm (1")

**Recommended Installation torques**

Suction Rotolock nut or valve	130 Nm
Discharge Rotolock nut or valve	110 Nm
Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	40 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Electronic protection module mounted in terminal box
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA6873), -

\*Singlepack: Compressor in cardboard box

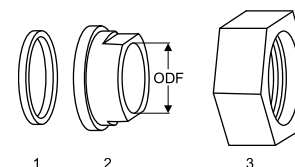
\*\*Industrial pack: 4 Unboxed compressors on pallet (order per multiples of 4)

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**Rotolock accessories, discharge 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, sets**

**Code no.**

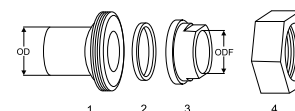
Solder sleeve adapter set, (2-1/4" Rotolock, 1-5/8" ODF), (1-3/4" Rotolock, 1"1/8 ODF)	7765028
Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

POE lubricant, 320SZ, 1 litre can	7754121
POE lubricant, 320SZ, 2.5 litre can	120Z0572

**Solder sleeve adapter set**



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

**Crankcase heaters**

**Code no.**

Surface sump heater + bottom insulation, 80 W, 24 V, CE mark, UL	120Z0359
Surface sump heater + bottom insulation, 80 W, 400 V, CE mark, UL	120Z0373
Belt type crankcase heater, 130 W, 400 V, CE mark, UL	7773123

**Miscellaneous accessories**

**Code no.**

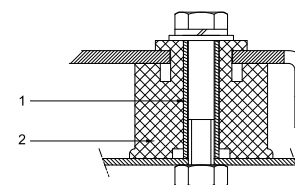
Acoustic hood for scroll compressor S240-S300	7755016
Bottom insulation for scroll compressor	120Z0355
Discharge thermostat kit	7750009

**Spare parts**

**Code no.**

Electronic motor protection module, 110-240 V	120Z0585
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves	8156144
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 2 rotolock nuts, 2 solder sleeves, 2 gaskets	8156148
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 210 x 190 incl. cover	120Z0458
T block connector 60 x 75 mm	8173021

**Mounting kit**



- 1: Sleeve (4x)
  - 2: Grommet (4x)
- Bolts, nuts and washers not included

Performance data at 60 Hz, EN 12900 rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	39 403	48 776	59 739	72 463	87 121	103 884	122 925	144 419	-
35	37 380	46 416	56 979	69 239	83 368	99 537	117 920	138 688	-
40	35 287	43 964	54 103	65 875	79 451	95 003	112 702	132 721	-
45	-	41 435	51 127	62 387	75 387	90 297	107 288	126 531	-
50	-	-	48 067	58 791	71 190	85 433	101 690	120 133	-
55	-	-	-	55 102	66 875	80 425	95 922	113 536	-
60	-	-	-	-	62 453	75 283	89 993	106 750	-
65	-	-	-	-	-	70 017	83 909	99 778	-

Power input in W

30	14 401	14 864	15 379	15 933	16 512	17 103	17 691	18 263	-
35	16 390	16 852	17 382	17 968	18 594	19 247	19 914	20 580	-
40	18 282	18 732	19 267	19 871	20 532	21 237	21 970	22 720	-
45	-	20 621	21 147	21 759	22 444	23 187	23 976	24 796	-
50	-	-	23 140	23 747	24 444	25 215	26 047	26 926	-
55	-	-	-	25 952	26 648	27 434	28 298	29 224	-
60	-	-	-	-	29 172	29 962	30 845	31 807	-
65	-	-	-	-	-	32 914	33 804	34 790	-

Current consumption in A

30	33.87	34.35	35.10	36.10	37.29	38.65	40.14	41.72	-
35	36.17	36.61	37.32	38.26	39.39	40.67	42.07	43.55	-
40	38.76	39.20	39.88	40.79	41.88	43.11	44.44	45.84	-
45	-	42.13	42.82	43.72	44.79	45.99	47.28	48.63	-
50	-	-	46.17	47.08	48.15	49.35	50.62	51.94	-
55	-	-	-	50.91	52.00	53.21	54.49	55.80	-
60	-	-	-	-	56.37	57.61	58.92	60.24	-
65	-	-	-	-	-	62.58	63.94	65.30	-

Mass flow in kg/h

30	847	1 035	1 251	1 498	1 779	2 098	2 456	2 858	-
35	835	1 023	1 239	1 486	1 767	2 085	2 444	2 845	-
40	822	1 009	1 224	1 471	1 752	2 069	2 427	2 828	-
45	-	993	1 208	1 453	1 733	2 050	2 407	2 807	-
50	-	-	1 189	1 433	1 712	2 027	2 383	2 782	-
55	-	-	-	1 410	1 687	2 001	2 355	2 753	-
60	-	-	-	-	1 660	1 972	2 324	2 719	-
65	-	-	-	-	-	1 940	2 290	2 682	-

Coefficient of performance (C.O.P.)

30	2.74	3.28	3.88	4.55	5.28	6.07	6.95	7.91	-
35	2.28	2.75	3.28	3.85	4.48	5.17	5.92	6.74	-
40	1.93	2.35	2.81	3.32	3.87	4.47	5.13	5.84	-
45	-	2.01	2.42	2.87	3.36	3.89	4.47	5.10	-
50	-	-	2.08	2.48	2.91	3.39	3.90	4.46	-
55	-	-	-	2.12	2.51	2.93	3.39	3.89	-
60	-	-	-	-	2.14	2.51	2.92	3.36	-
65	-	-	-	-	-	2.13	2.48	2.87	-

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

Cooling capacity	85 433	W
Power input	25 215	W
Current consumption	49.35	A
Mass flow	2 027	kg/h
C.O.P.	3.39	

Pressure switch settings

Maximum HP switch setting	28	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	86	dB(A)
With acoustic hood	79	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 60 Hz, ARI rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	41 814	51 721	63 297	76 723	92 177	109 839	129 887	152 500	-
35	39 807	49 387	60 576	73 551	88 492	105 578	124 987	146 900	-
40	37 727	46 959	57 736	70 237	84 641	101 128	119 876	141 064	-
45	-	44 452	54 794	66 798	80 643	96 507	114 570	135 011	-
50	-	-	51 770	63 253	76 514	91 733	109 088	128 758	-
55	-	-	-	59 619	72 274	86 824	103 447	122 323	-
60	-	-	-	-	67 940	81 797	97 665	115 724	-
65	-	-	-	-	-	76 671	91 761	108 979	-

Power input in W

30	14 401	14 864	15 379	15 933	16 512	17 103	17 691	18 263	-
35	16 390	16 852	17 382	17 968	18 594	19 247	19 914	20 580	-
40	18 282	18 732	19 267	19 871	20 532	21 237	21 970	22 720	-
45	-	20 621	21 147	21 759	22 444	23 187	23 976	24 796	-
50	-	-	23 140	23 747	24 444	25 215	26 047	26 926	-
55	-	-	-	25 952	26 648	27 434	28 298	29 224	-
60	-	-	-	-	29 172	29 962	30 845	31 807	-
65	-	-	-	-	-	32 914	33 804	34 790	-

Current consumption in A

30	33.87	34.35	35.10	36.10	37.29	38.65	40.14	41.72	-
35	36.17	36.61	37.32	38.26	39.39	40.67	42.07	43.55	-
40	38.76	39.20	39.88	40.79	41.88	43.11	44.44	45.84	-
45	-	42.13	42.82	43.72	44.79	45.99	47.28	48.63	-
50	-	-	46.17	47.08	48.15	49.35	50.62	51.94	-
55	-	-	-	50.91	52.00	53.21	54.49	55.80	-
60	-	-	-	-	56.37	57.61	58.92	60.24	-
65	-	-	-	-	-	62.58	63.94	65.30	-

Mass flow in kg/h

30	843	1 029	1 244	1 490	1 770	2 086	2 443	2 842	-
35	831	1 018	1 232	1 478	1 758	2 074	2 430	2 829	-
40	817	1 004	1 218	1 463	1 742	2 058	2 414	2 812	-
45	-	988	1 201	1 446	1 724	2 039	2 393	2 791	-
50	-	-	1 182	1 426	1 702	2 016	2 370	2 766	-
55	-	-	-	1 403	1 678	1 990	2 342	2 737	-
60	-	-	-	-	1 651	1 961	2 311	2 704	-
65	-	-	-	-	-	1 929	2 277	2 667	-

Coefficient of performance (C.O.P.)

30	2.90	3.48	4.12	4.82	5.58	6.42	7.34	8.35	-
35	2.43	2.93	3.48	4.09	4.76	5.49	6.28	7.14	-
40	2.06	2.51	3.00	3.53	4.12	4.76	5.46	6.21	-
45	-	2.16	2.59	3.07	3.59	4.16	4.78	5.44	-
50	-	-	2.24	2.66	3.13	3.64	4.19	4.78	-
55	-	-	-	2.30	2.71	3.16	3.66	4.19	-
60	-	-	-	-	2.33	2.73	3.17	3.64	-
65	-	-	-	-	-	2.33	2.71	3.13	-

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

Cooling capacity	94 506	W
Power input	27 524	W
Current consumption	53.27	A
Mass flow	2 143	kg/h
C.O.P.	3.43	

Pressure switch settings

Maximum HP switch setting	28	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	86	dB(A)
With acoustic hood	79	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	26 851	33 748	42 013	51 843	63 433	76 980	92 680	-	-
40	25 246	31 823	39 706	49 091	60 172	73 145	88 207	-	-
45	23 631	29 873	37 360	46 284	56 841	69 225	83 632	-	-
50	22 011	27 904	34 979	43 427	53 444	65 223	78 959	-	-
55	-	25 920	32 568	40 526	49 987	61 144	74 193	-	-
60	-	-	30 132	37 583	46 471	56 990	69 332	-	-
65	-	-	-	34 600	42 899	52 760	64 376	-	-
70	-	-	-	-	39 267	48 450	59 318	-	-

**Power input in W**

35	12 319	12 685	12 975	13 207	13 402	13 577	13 751	-	-
40	13 528	13 951	14 292	14 567	14 797	15 000	15 195	-	-
45	14 832	15 317	15 711	16 033	16 302	16 537	16 756	-	-
50	16 244	16 794	17 246	17 618	17 930	18 200	18 447	-	-
55	-	18 396	18 909	19 335	19 693	20 002	20 281	-	-
60	-	-	20 714	21 197	21 605	21 957	22 270	-	-
65	-	-	-	23 217	23 679	24 076	24 428	-	-
70	-	-	-	-	25 927	26 374	26 769	-	-

**Current consumption in A**

35	29.83	30.13	30.55	31.02	31.47	31.83	32.02	-	-
40	31.30	31.69	32.19	32.73	33.23	33.63	33.84	-	-
45	33.04	33.52	34.09	34.70	35.25	35.69	35.94	-	-
50	35.05	35.63	36.28	36.95	37.57	38.04	38.32	-	-
55	-	38.04	38.78	39.52	40.19	40.71	41.01	-	-
60	-	-	41.60	42.41	43.14	43.70	44.04	-	-
65	-	-	-	45.65	46.43	47.05	47.42	-	-
70	-	-	-	-	50.10	50.76	51.16	-	-

**Mass flow in kg/h**

35	652	803	978	1 182	1 418	1 688	1 996	-	-
40	646	796	971	1 175	1 410	1 680	1 988	-	-
45	640	789	963	1 167	1 402	1 671	1 979	-	-
50	633	781	955	1 157	1 392	1 661	1 969	-	-
55	-	773	946	1 147	1 381	1 649	1 956	-	-
60	-	-	936	1 136	1 369	1 636	1 943	-	-
65	-	-	-	1 124	1 356	1 622	1 927	-	-
70	-	-	-	-	1 342	1 607	1 911	-	-

**Coefficient of performance (C.O.P.)**

35	2.18	2.66	3.24	3.93	4.73	5.67	6.74	-	-
40	1.87	2.28	2.78	3.37	4.07	4.88	5.80	-	-
45	1.59	1.95	2.38	2.89	3.49	4.19	4.99	-	-
50	1.36	1.66	2.03	2.46	2.98	3.58	4.28	-	-
55	-	1.41	1.72	2.10	2.54	3.06	3.66	-	-
60	-	-	1.45	1.77	2.15	2.60	3.11	-	-
65	-	-	-	1.49	1.81	2.19	2.64	-	-
70	-	-	-	-	1.51	1.84	2.22	-	-

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

Cooling capacity	53 444	W
Power input	17 930	W
Current consumption	37.57	A
Mass flow	1 392	kg/h
C.O.P.	2.98	

**Pressure switch settings**

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 60 Hz, 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	29 082	36 490	45 354	55 878	68 269	82 729	99 465	-	-
40	27 493	34 589	43 080	53 170	65 065	78 967	95 084	-	-
45	25 894	32 664	40 767	50 408	61 791	75 122	90 604	-	-
50	24 293	30 722	38 422	47 599	58 456	71 199	86 033	-	-
55	-	28 769	36 052	44 750	55 067	67 208	81 377	-	-
60	-	-	33 664	41 868	51 629	63 153	76 644	-	-
65	-	-	-	38 961	48 152	59 044	71 841	-	-
70	-	-	-	-	44 641	54 886	66 976	-	-

Power input in W

35	12 319	12 685	12 975	13 207	13 402	13 577	13 751	-	-
40	13 528	13 951	14 292	14 567	14 797	15 000	15 195	-	-
45	14 832	15 317	15 711	16 033	16 302	16 537	16 756	-	-
50	16 244	16 794	17 246	17 618	17 930	18 200	18 447	-	-
55	-	18 396	18 909	19 335	19 693	20 002	20 281	-	-
60	-	-	20 714	21 197	21 605	21 957	22 270	-	-
65	-	-	-	23 217	23 679	24 076	24 428	-	-
70	-	-	-	-	25 927	26 374	26 769	-	-

Current consumption in A

35	29.83	30.13	30.55	31.02	31.47	31.83	32.02	-	-
40	31.30	31.69	32.19	32.73	33.23	33.63	33.84	-	-
45	33.04	33.52	34.09	34.70	35.25	35.69	35.94	-	-
50	35.05	35.63	36.28	36.95	37.57	38.04	38.32	-	-
55	-	38.04	38.78	39.52	40.19	40.71	41.01	-	-
60	-	-	41.60	42.41	43.14	43.70	44.04	-	-
65	-	-	-	45.65	46.43	47.05	47.42	-	-
70	-	-	-	-	50.10	50.76	51.16	-	-

Mass flow in kg/h

35	649	799	973	1 176	1 410	1 679	1 985	-	-
40	643	792	966	1 169	1 403	1 671	1 977	-	-
45	636	785	959	1 161	1 394	1 662	1 968	-	-
50	630	777	950	1 151	1 384	1 652	1 958	-	-
55	-	769	941	1 141	1 373	1 640	1 946	-	-
60	-	-	931	1 130	1 361	1 628	1 932	-	-
65	-	-	-	1 118	1 348	1 613	1 917	-	-
70	-	-	-	-	1 334	1 598	1 900	-	-

Coefficient of performance (C.O.P.)

35	2.36	2.88	3.50	4.23	5.09	6.09	7.23	-	-
40	2.03	2.48	3.01	3.65	4.40	5.26	6.26	-	-
45	1.75	2.13	2.59	3.14	3.79	4.54	5.41	-	-
50	1.50	1.83	2.23	2.70	3.26	3.91	4.66	-	-
55	-	1.56	1.91	2.31	2.80	3.36	4.01	-	-
60	-	-	1.63	1.98	2.39	2.88	3.44	-	-
65	-	-	-	1.68	2.03	2.45	2.94	-	-
70	-	-	-	-	1.72	2.08	2.50	-	-

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

Cooling capacity	60 612	W
Power input	19 613	W
Current consumption	40.10	A
Mass flow	1 488	kg/h
C.O.P.	3.09	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	35 508	44 340	54 861	67 375	82 190	99 614	119 954	143 520	-
35	33 246	41 713	51 770	63 723	77 877	94 539	114 015	136 615	-
40	30 972	39 042	48 606	59 967	73 428	89 297	107 877	129 477	-
45	28 709	36 352	45 391	56 129	68 867	83 909	101 561	122 127	-
50	-	33 665	42 149	52 232	64 215	78 399	95 087	114 584	-
55	-	31 001	38 899	48 296	59 490	72 782	88 473	106 865	-
60	-	-	35 658	44 336	54 708	67 073	81 728	98 975	-
65	-	-	-	-	49 875	61 274	74 852	90 908	-

Power input in W

30	15 091	15 409	15 720	16 025	16 326	16 625	16 922	17 219	-
35	16 746	17 089	17 426	17 759	18 089	18 417	18 745	19 075	-
40	18 544	18 917	19 286	19 651	20 015	20 379	20 743	21 111	-
45	20 517	20 926	21 331	21 735	22 138	22 543	22 949	23 359	-
50	-	23 148	23 595	24 043	24 490	24 940	25 394	25 852	-
55	-	25 615	26 110	26 606	27 104	27 605	28 110	28 622	-
60	-	-	28 907	29 457	30 010	30 568	31 131	31 702	-
65	-	-	-	-	33 243	33 862	34 488	35 123	-

Current consumption in A

30	33.03	33.61	34.25	34.98	35.84	36.87	38.10	39.57	-
35	35.39	35.95	36.56	37.25	38.06	39.02	40.17	41.55	-
40	38.10	38.67	39.27	39.95	40.72	41.64	42.73	44.04	-
45	41.21	41.81	42.43	43.11	43.88	44.77	45.83	47.09	-
50	-	45.42	46.08	46.78	47.57	48.46	49.51	50.73	-
55	-	49.54	50.26	51.01	51.83	52.75	53.80	55.03	-
60	-	-	55.02	55.84	56.71	57.68	58.76	60.01	-
65	-	-	-	-	62.26	63.29	64.43	65.72	-

Mass flow in kg/h

30	746	918	1 119	1 352	1 624	1 940	2 305	2 724	-
35	734	905	1 105	1 338	1 609	1 924	2 288	2 706	-
40	721	891	1 089	1 321	1 591	1 905	2 268	2 685	-
45	707	876	1 073	1 303	1 572	1 884	2 245	2 661	-
50	-	861	1 056	1 284	1 551	1 861	2 220	2 634	-
55	-	847	1 039	1 265	1 529	1 836	2 193	2 604	-
60	-	-	1 022	1 245	1 506	1 811	2 165	2 573	-
65	-	-	-	-	1 483	1 785	2 135	2 540	-

Coefficient of performance (C.O.P.)

30	2.35	2.88	3.49	4.20	5.03	5.99	7.09	8.34	-
35	1.99	2.44	2.97	3.59	4.31	5.13	6.08	7.16	-
40	1.67	2.06	2.52	3.05	3.67	4.38	5.20	6.13	-
45	1.40	1.74	2.13	2.58	3.11	3.72	4.43	5.23	-
50	-	1.45	1.79	2.17	2.62	3.14	3.74	4.43	-
55	-	1.21	1.49	1.82	2.19	2.64	3.15	3.73	-
60	-	-	1.23	1.51	1.82	2.19	2.63	3.12	-
65	-	-	-	-	1.50	1.81	2.17	2.59	-

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

Cooling capacity	78 399	W
Power input	24 940	W
Current consumption	48.46	A
Mass flow	1 861	kg/h
C.O.P.	3.14	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Performance data at 60 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	38 083	47 501	58 706	72 021	87 767	106 268	127 844	152 820	-
35	35 831	44 898	55 655	68 424	83 527	101 287	122 026	146 067	-
40	33 568	42 253	52 531	64 724	79 153	96 143	116 014	139 089	-
45	31 320	39 593	49 361	60 947	74 672	90 860	109 832	131 912	-
50	-	36 944	46 172	57 120	70 111	85 466	103 509	124 562	-
55	-	34 331	42 989	53 269	65 494	79 987	97 070	117 066	-
60	-	-	39 839	49 420	60 850	74 450	90 542	109 450	-
65	-	-	-	-	56 204	68 880	83 952	101 741	-

Power input in W

30	15 091	15 409	15 720	16 025	16 326	16 625	16 922	17 219	-
35	16 746	17 089	17 426	17 759	18 089	18 417	18 745	19 075	-
40	18 544	18 917	19 286	19 651	20 015	20 379	20 743	21 111	-
45	20 517	20 926	21 331	21 735	22 138	22 543	22 949	23 359	-
50	-	23 148	23 595	24 043	24 490	24 940	25 394	25 852	-
55	-	25 615	26 110	26 606	27 104	27 605	28 110	28 622	-
60	-	-	28 907	29 457	30 010	30 568	31 131	31 702	-
65	-	-	-	-	33 243	33 862	34 488	35 123	-

Current consumption in A

30	33.03	33.61	34.25	34.98	35.84	36.87	38.10	39.57	-
35	35.39	35.95	36.56	37.25	38.06	39.02	40.17	41.55	-
40	38.10	38.67	39.27	39.95	40.72	41.64	42.73	44.04	-
45	41.21	41.81	42.43	43.11	43.88	44.77	45.83	47.09	-
50	-	45.42	46.08	46.78	47.57	48.46	49.51	50.73	-
55	-	49.54	50.26	51.01	51.83	52.75	53.80	55.03	-
60	-	-	55.02	55.84	56.71	57.68	58.76	60.01	-
65	-	-	-	-	62.26	63.29	64.43	65.72	-

Mass flow in kg/h

30	742	914	1 113	1 345	1 615	1 929	2 291	2 707	-
35	730	901	1 099	1 330	1 600	1 913	2 275	2 690	-
40	717	886	1 084	1 314	1 582	1 894	2 255	2 669	-
45	704	872	1 067	1 296	1 563	1 873	2 232	2 645	-
50	-	857	1 050	1 277	1 542	1 850	2 207	2 618	-
55	-	842	1 034	1 258	1 520	1 826	2 180	2 588	-
60	-	-	1 017	1 238	1 498	1 800	2 152	2 557	-
65	-	-	-	-	1 475	1 774	2 122	2 524	-

Coefficient of performance (C.O.P.)

30	2.52	3.08	3.73	4.49	5.38	6.39	7.55	8.88	-
35	2.14	2.63	3.19	3.85	4.62	5.50	6.51	7.66	-
40	1.81	2.23	2.72	3.29	3.95	4.72	5.59	6.59	-
45	1.53	1.89	2.31	2.80	3.37	4.03	4.79	5.65	-
50	-	1.60	1.96	2.38	2.86	3.43	4.08	4.82	-
55	-	1.34	1.65	2.00	2.42	2.90	3.45	4.09	-
60	-	-	1.38	1.68	2.03	2.44	2.91	3.45	-
65	-	-	-	-	1.69	2.03	2.43	2.90	-

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

Cooling capacity	87 877	W
Power input	27 489	W
Current consumption	52.64	A
Mass flow	1 979	kg/h
C.O.P.	3.20	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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