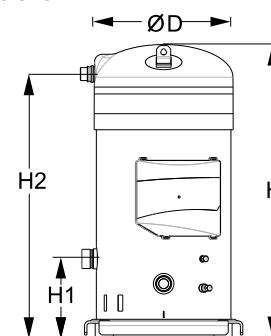


**General Characteristics**

Model number (on compressor nameplate)		<b>SY380A9CBE</b>
Code number for Singlepack*		120H1115
Code number for Industrial pack**		120H1116
Drawing number		8556093b
Suction and discharge connections		Brazed
Suction connection		2-1/8" ODF
Discharge connection		1-3/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		1/2" flare
Oil drain connection		1/4" flare
LP gauge port		Schrader
IPR valve		Yes
Reverse rotation protection		Electronic module
Swept volume		531.2 cm <sup>3</sup> /rev
Displacement @ Nominal speed		111.6 m <sup>3</sup> /h @ 3500 rpm
Net weight		158 kg
Oil charge		8.4 litre, POE - 320SZ
Maximum system test pressure Low Side / High side		20 bar(g) / 27.9 bar(g)
Maximum differential test pressure		24 bar
Maximum number of starts per hour		12
Refrigerant charge limit		20 kg
Approved refrigerants		R22, R134a

**Dimensions**

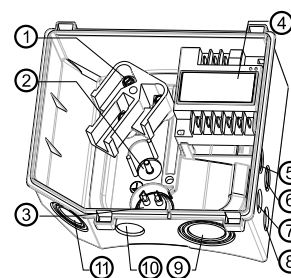


D=344 mm  
H=726.9 mm  
H1=195.7 mm  
H2=654 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/60Hz
Voltage range	342-440 V
Winding resistance (between phases) +/- 7% at 25°C	0.277 Ω
Rated Load Amps (RLA)	66.4 A
Maximum Continuous Current (MCC)	93 A
Locked Rotor Amps (LRA)	390 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**

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)

<b>Rotolock accessories, suction side</b>	<b>Code no.</b>
Flange type valve, V12 (Flange ~ 2"1/8)	120Z0320

<b>Rotolock accessories, discharge side</b>	<b>Code no.</b>
Solder sleeve, P10 (1-3/4" Rotolock, 1-3/8" ODF)	8153003
Rotolock valve, V10 (1-3/4" Rotolock, 1-3/8" ODF)	8168022
Gasket, 1-3/4"	8156132

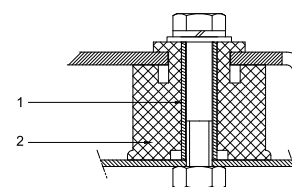
<b>Rotolock accessories, sets</b>	<b>Code no.</b>
Flange	120Z0317
Valve set, V12 (flange ~ 2"1/8), V10(1"3/4~1"3/8)	120Z0316
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

<b>Oil / lubricants</b>	<b>Code no.</b>
POE lubricant, 320SZ, 1 litre can	7754121
POE lubricant, 320SZ, 2.5 litre can	120Z0572

<b>Crankcase heaters</b>	<b>Code no.</b>
Surface sump heater + bottom insulation, 80 W, 24 V, CE mark, UL	120Z0359
Surface sump heater + bottom insulation, 80 W, 230 V, CE mark, UL	120Z0372
Surface sump heater + bottom insulation, 80 W, 400 V, CE mark, UL	120Z0373
Surface sump heater + bottom insulation, 80 W, 460 V, CE mark, UL	120Z0374
Belt type crankcase heater, 130 W, 230 V, CE mark, UL	7773122
Belt type crankcase heater, 130 W, 400 V, CE mark, UL	7773123

<b>Miscellaneous accessories</b>	<b>Code no.</b>
Acoustic hood for scroll compressor S380	7755022
Bottom insulation for scroll compressor	120Z0355
Discharge thermostat kit	7750009

<b>Spare parts</b>	<b>Code no.</b>
Electronic motor protection module, 110-240 V	120Z0585
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves	8156144
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	48 636	59 914	73 098	88 405	106 052	126 256	149 236	175 209	-
35	46 008	56 994	69 796	84 631	101 715	121 265	143 498	168 632	-
40	43 261	53 912	66 290	80 610	97 088	115 940	137 382	161 632	-
45	-	50 693	62 603	76 365	92 194	110 304	130 912	154 233	-
50	-	-	58 760	71 920	87 054	104 379	124 107	146 455	-
55	-	-	-	67 295	81 692	98 185	116 987	138 315	-
60	-	-	-	-	76 124	91 740	109 570	129 829	-
65	-	-	-	-	-	85 059	101 867	121 006	-

**Power input in W**

30	18 808	19 184	19 657	20 198	20 776	21 361	21 926	22 438	-
35	20 864	21 182	21 625	22 164	22 769	23 410	24 058	24 683	-
40	23 204	23 429	23 807	24 310	24 907	25 569	26 265	26 967	-
45	-	26 000	26 279	26 710	27 264	27 912	28 622	29 367	-
50	-	-	29 115	29 440	29 916	30 514	31 204	31 956	-
55	-	-	-	32 575	32 938	33 452	34 086	34 811	-
60	-	-	-	-	36 406	36 800	37 344	38 006	-
65	-	-	-	-	-	40 634	41 052	41 617	-

**Current consumption in A**

30	30.68	32.92	34.97	36.75	38.17	39.13	39.57	39.38	-
35	35.37	36.93	38.47	39.92	41.17	42.14	42.75	42.91	-
40	40.40	41.26	42.28	43.37	44.44	45.40	46.17	46.66	-
45	-	46.03	46.50	47.22	48.08	49.01	49.91	50.71	-
50	-	-	51.24	51.56	52.20	53.08	54.10	55.19	-
55	-	-	-	56.51	56.91	57.71	58.83	60.19	-
60	-	-	-	-	62.31	63.02	64.22	65.82	-
65	-	-	-	-	-	69.10	70.36	72.20	-

**Mass flow in kg/h**

30	1 040	1 269	1 531	1 829	2 168	2 551	2 982	3 466	-
35	1 024	1 255	1 518	1 817	2 157	2 541	2 974	3 459	-
40	1 005	1 236	1 500	1 801	2 141	2 526	2 958	3 443	-
45	-	1 215	1 479	1 779	2 120	2 504	2 937	3 421	-
50	-	-	1 453	1 753	2 093	2 476	2 908	3 391	-
55	-	-	-	1 722	2 061	2 443	2 872	3 354	-
60	-	-	-	-	2 023	2 403	2 830	3 309	-
65	-	-	-	-	-	2 356	2 781	3 257	-

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

30	2.59	3.12	3.72	4.38	5.10	5.91	6.81	7.81	-
35	2.21	2.69	3.23	3.82	4.47	5.18	5.96	6.83	-
40	1.86	2.30	2.78	3.32	3.90	4.53	5.23	5.99	-
45	-	1.95	2.38	2.86	3.38	3.95	4.57	5.25	-
50	-	-	2.02	2.44	2.91	3.42	3.98	4.58	-
55	-	-	-	2.07	2.48	2.94	3.43	3.97	-
60	-	-	-	-	2.09	2.49	2.93	3.42	-
65	-	-	-	-	-	2.09	2.48	2.91	-

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

Cooling capacity	104 379	W
Power input	30 514	W
Current consumption	53.08	A
Mass flow	2 476	kg/h
C.O.P.	3.42	

**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	92	dB(A)
With acoustic hood	85	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	51 613	63 531	77 453	93 603	112 208	133 494	157 687	185 013	-
35	48 995	60 642	74 202	89 902	107 967	128 624	152 098	178 616	-
40	46 251	57 584	70 741	85 948	103 430	123 414	146 126	171 792	-
45	-	54 384	67 094	81 765	98 621	117 890	139 797	164 569	-
50	-	-	63 286	77 377	93 565	112 076	133 135	156 970	-
55	-	-	-	72 811	88 287	105 997	126 165	149 019	-
60	-	-	-	-	82 812	99 677	118 912	140 743	-
65	-	-	-	-	-	93 142	111 400	132 165	-

Power input in W

30	18 808	19 184	19 657	20 198	20 776	21 361	21 926	22 438	-
35	20 864	21 182	21 625	22 164	22 769	23 410	24 058	24 683	-
40	23 204	23 429	23 807	24 310	24 907	25 569	26 265	26 967	-
45	-	26 000	26 279	26 710	27 264	27 912	28 622	29 367	-
50	-	-	29 115	29 440	29 916	30 514	31 204	31 956	-
55	-	-	-	32 575	32 938	33 452	34 086	34 811	-
60	-	-	-	-	36 406	36 800	37 344	38 006	-
65	-	-	-	-	-	40 634	41 052	41 617	-

Current consumption in A

30	30.68	32.92	34.97	36.75	38.17	39.13	39.57	39.38	-
35	35.37	36.93	38.47	39.92	41.17	42.14	42.75	42.91	-
40	40.40	41.26	42.28	43.37	44.44	45.40	46.17	46.66	-
45	-	46.03	46.50	47.22	48.08	49.01	49.91	50.71	-
50	-	-	51.24	51.56	52.20	53.08	54.10	55.19	-
55	-	-	-	56.51	56.91	57.71	58.83	60.19	-
60	-	-	-	-	62.31	63.02	64.22	65.82	-
65	-	-	-	-	-	69.10	70.36	72.20	-

Mass flow in kg/h

30	1 035	1 263	1 523	1 819	2 156	2 537	2 966	3 446	-
35	1 019	1 248	1 510	1 808	2 145	2 527	2 957	3 439	-
40	1 000	1 230	1 493	1 791	2 130	2 512	2 942	3 424	-
45	-	1 208	1 471	1 770	2 108	2 490	2 920	3 401	-
50	-	-	1 446	1 744	2 082	2 463	2 891	3 371	-
55	-	-	-	1 713	2 049	2 429	2 856	3 334	-
60	-	-	-	-	2 012	2 389	2 814	3 290	-
65	-	-	-	-	-	2 343	2 765	3 238	-

Coefficient of performance (C.O.P.)

30	2.74	3.31	3.94	4.63	5.40	6.25	7.19	8.25	-
35	2.35	2.86	3.43	4.06	4.74	5.49	6.32	7.24	-
40	1.99	2.46	2.97	3.54	4.15	4.83	5.56	6.37	-
45	-	2.09	2.55	3.06	3.62	4.22	4.88	5.60	-
50	-	-	2.17	2.63	3.13	3.67	4.27	4.91	-
55	-	-	-	2.24	2.68	3.17	3.70	4.28	-
60	-	-	-	-	2.27	2.71	3.18	3.70	-
65	-	-	-	-	-	2.29	2.71	3.18	-

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

Cooling capacity	115 344	W
Power input	33 350	W
Current consumption	57.58	A
Mass flow	2 615	kg/h
C.O.P.	3.46	

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	92	dB(A)
With acoustic hood	85	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	33 436	42 049	52 332	64 517	78 832	95 510	114 783	-	-
40	31 474	39 711	49 544	61 204	74 919	90 922	109 442	-	-
45	29 487	37 327	46 689	57 803	70 897	86 202	103 948	-	-
50	27 483	34 904	43 774	54 320	66 771	81 356	98 304	-	-
55	-	32 450	40 806	50 763	62 548	76 389	92 515	-	-
60	-	-	37 790	47 135	58 230	71 303	86 582	-	-
65	-	-	-	43 438	53 820	66 099	80 503	-	-
70	-	-	-	-	49 315	60 772	74 271	-	-

**Power input in W**

35	15 204	15 650	16 000	16 285	16 536	16 782	17 054	-	-
40	16 558	17 059	17 444	17 742	17 984	18 200	18 421	-	-
45	18 045	18 610	19 037	19 357	19 599	19 795	19 974	-	-
50	19 677	20 315	20 793	21 143	21 395	21 578	21 724	-	-
55	-	22 185	22 724	23 113	23 382	23 562	23 683	-	-
60	-	-	24 842	25 279	25 574	25 759	25 864	-	-
65	-	-	-	27 652	27 983	28 182	28 280	-	-
70	-	-	-	-	30 621	30 843	30 942	-	-

**Current consumption in A**

35	30.43	31.11	31.59	31.95	32.29	32.69	33.25	-	-
40	32.26	33.03	33.55	33.91	34.21	34.54	34.99	-	-
45	34.34	35.21	35.80	36.20	36.49	36.77	37.13	-	-
50	36.66	37.67	38.36	38.82	39.13	39.39	39.69	-	-
55	-	40.41	41.22	41.76	42.12	42.39	42.66	-	-
60	-	-	44.39	45.05	45.48	45.78	46.05	-	-
65	-	-	-	48.67	49.20	49.56	49.85	-	-
70	-	-	-	-	53.29	53.74	54.08	-	-

**Mass flow in kg/h**

35	812	1 000	1 218	1 471	1 762	2 094	2 471	-	-
40	805	993	1 212	1 465	1 756	2 089	2 467	-	-
45	798	986	1 204	1 457	1 748	2 081	2 460	-	-
50	790	977	1 195	1 448	1 739	2 072	2 451	-	-
55	-	968	1 185	1 437	1 728	2 061	2 440	-	-
60	-	-	1 174	1 425	1 715	2 047	2 426	-	-
65	-	-	-	1 411	1 701	2 032	2 410	-	-
70	-	-	-	-	1 685	2 015	2 393	-	-

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

35	2.20	2.69	3.27	3.96	4.77	5.69	6.73	-	-
40	1.90	2.33	2.84	3.45	4.17	5.00	5.94	-	-
45	1.63	2.01	2.45	2.99	3.62	4.35	5.20	-	-
50	1.40	1.72	2.11	2.57	3.12	3.77	4.53	-	-
55	-	1.46	1.80	2.20	2.68	3.24	3.91	-	-
60	-	-	1.52	1.86	2.28	2.77	3.35	-	-
65	-	-	-	1.57	1.92	2.35	2.85	-	-
70	-	-	-	-	1.61	1.97	2.40	-	-

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

Cooling capacity	66 771	W
Power input	21 395	W
Current consumption	39.13	A
Mass flow	1 739	kg/h
C.O.P.	3.12	

**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	36 214	45 465	56 493	69 538	84 841	102 643	123 186	-	-
40	34 275	43 163	53 754	66 290	81 011	98 159	117 975	-	-
45	32 311	40 814	50 948	62 954	77 072	93 545	112 614	-	-
50	30 332	38 429	48 084	59 539	73 034	88 810	107 110	-	-
55	-	36 016	45 172	56 054	68 904	83 964	101 474	-	-
60	-	-	42 220	52 509	64 693	79 015	95 713	-	-
65	-	-	-	48 913	60 410	73 972	89 839	-	-
70	-	-	-	-	56 064	68 845	83 859	-	-

Power input in W

35	15 204	15 650	16 000	16 285	16 536	16 782	17 054	-	-
40	16 558	17 059	17 444	17 742	17 984	18 200	18 421	-	-
45	18 045	18 610	19 037	19 357	19 599	19 795	19 974	-	-
50	19 677	20 315	20 793	21 143	21 395	21 578	21 724	-	-
55	-	22 185	22 724	23 113	23 382	23 562	23 683	-	-
60	-	-	24 842	25 279	25 574	25 759	25 864	-	-
65	-	-	-	27 652	27 983	28 182	28 280	-	-
70	-	-	-	-	30 621	30 843	30 942	-	-

Current consumption in A

35	30.43	31.11	31.59	31.95	32.29	32.69	33.25	-	-
40	32.26	33.03	33.55	33.91	34.21	34.54	34.99	-	-
45	34.34	35.21	35.80	36.20	36.49	36.77	37.13	-	-
50	36.66	37.67	38.36	38.82	39.13	39.39	39.69	-	-
55	-	40.41	41.22	41.76	42.12	42.39	42.66	-	-
60	-	-	44.39	45.05	45.48	45.78	46.05	-	-
65	-	-	-	48.67	49.20	49.56	49.85	-	-
70	-	-	-	-	53.29	53.74	54.08	-	-

Mass flow in kg/h

35	808	995	1 212	1 463	1 752	2 083	2 458	-	-
40	801	988	1 206	1 457	1 747	2 077	2 453	-	-
45	794	981	1 198	1 449	1 739	2 070	2 447	-	-
50	786	972	1 189	1 440	1 730	2 061	2 437	-	-
55	-	963	1 179	1 430	1 719	2 050	2 426	-	-
60	-	-	1 168	1 417	1 706	2 036	2 413	-	-
65	-	-	-	1 404	1 692	2 021	2 397	-	-
70	-	-	-	-	1 676	2 005	2 379	-	-

Coefficient of performance (C.O.P.)

35	2.38	2.91	3.53	4.27	5.13	6.12	7.22	-	-
40	2.07	2.53	3.08	3.74	4.50	5.39	6.40	-	-
45	1.79	2.19	2.68	3.25	3.93	4.73	5.64	-	-
50	1.54	1.89	2.31	2.82	3.41	4.12	4.93	-	-
55	-	1.62	1.99	2.43	2.95	3.56	4.28	-	-
60	-	-	1.70	2.08	2.53	3.07	3.70	-	-
65	-	-	-	1.77	2.16	2.62	3.18	-	-
70	-	-	-	-	1.83	2.23	2.71	-	-

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

Cooling capacity	75 781	W
Power input	23 221	W
Current consumption	41.87	A
Mass flow	1 860	kg/h
C.O.P.	3.26	

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	42 147	52 968	65 830	81 002	98 755	119 359	143 087	170 210	-
35	39 825	50 249	62 607	77 167	94 199	113 973	136 759	162 828	-
40	37 372	47 355	59 165	73 069	89 335	108 233	130 031	155 000	-
45	34 812	44 309	55 527	68 730	84 186	102 161	122 926	146 747	-
50	-	41 135	51 715	64 173	78 772	95 779	115 461	138 086	-
55	-	37 852	47 751	59 416	73 112	89 103	107 653	129 030	-
60	-	-	43 649	54 476	67 220	82 144	99 512	119 586	-
65	-	-	-	-	61 102	74 906	91 032	109 744	-

Power input in W

30	18 661	19 105	19 566	20 041	20 523	21 008	21 492	21 969	-
35	20 696	21 161	21 651	22 159	22 681	23 213	23 749	24 285	-
40	22 948	23 426	23 934	24 468	25 021	25 590	26 170	26 755	-
45	25 471	25 953	26 471	27 020	27 596	28 193	28 807	29 433	-
50	-	28 795	29 313	29 870	30 459	31 075	31 715	32 373	-
55	-	32 005	32 516	33 070	33 664	34 291	34 947	35 627	-
60	-	-	36 131	36 675	37 263	37 892	38 556	39 250	-
65	-	-	-	-	41 312	41 933	42 596	43 295	-

Current consumption in A

30	36.02	36.64	37.25	37.87	38.52	39.20	39.92	40.71	-
35	39.04	39.74	40.43	41.12	41.83	42.56	43.34	44.17	-
40	42.31	43.09	43.85	44.62	45.39	46.18	47.00	47.86	-
45	45.92	46.79	47.63	48.46	49.30	50.14	51.01	51.92	-
50	-	50.96	51.88	52.78	53.67	54.57	55.49	56.44	-
55	-	55.71	56.70	57.67	58.63	59.58	60.55	61.53	-
60	-	-	62.22	63.26	64.28	65.29	66.30	67.32	-
65	-	-	-	-	70.73	71.79	72.85	73.91	-

Mass flow in kg/h

30	887	1 098	1 342	1 625	1 951	2 324	2 749	3 231	-
35	879	1 091	1 336	1 620	1 946	2 319	2 745	3 226	-
40	869	1 081	1 326	1 610	1 936	2 309	2 734	3 215	-
45	856	1 068	1 313	1 596	1 921	2 294	2 718	3 198	-
50	-	1 052	1 296	1 578	1 902	2 273	2 696	3 174	-
55	-	1 033	1 276	1 556	1 879	2 248	2 668	3 144	-
60	-	-	1 253	1 531	1 851	2 217	2 635	3 108	-
65	-	-	-	-	1 819	2 182	2 596	3 066	-

Coefficient of performance (C.O.P.)

30	2.26	2.77	3.36	4.04	4.81	5.68	6.66	7.75	-
35	1.92	2.37	2.89	3.48	4.15	4.91	5.76	6.70	-
40	1.63	2.02	2.47	2.99	3.57	4.23	4.97	5.79	-
45	1.37	1.71	2.10	2.54	3.05	3.62	4.27	4.99	-
50	-	1.43	1.76	2.15	2.59	3.08	3.64	4.27	-
55	-	1.18	1.47	1.80	2.17	2.60	3.08	3.62	-
60	-	-	1.21	1.49	1.80	2.17	2.58	3.05	-
65	-	-	-	-	1.48	1.79	2.14	2.53	-

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

Cooling capacity	95 779	W
Power input	31 075	W
Current consumption	54.57	A
Mass flow	2 273	kg/h
C.O.P.	3.08	

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	45 204	56 744	70 444	86 587	105 455	127 332	152 499	181 240	-
35	42 922	54 086	67 304	82 859	101 033	122 108	146 368	174 094	-
40	40 505	51 250	63 942	78 865	96 300	116 530	139 839	166 508	-
45	37 978	48 260	60 383	74 630	91 282	110 624	132 937	158 504	-
50	-	45 141	56 651	70 178	86 004	104 413	125 688	150 109	-
55	-	41 918	52 771	65 534	80 491	97 923	118 115	141 347	-
60	-	-	48 768	60 724	74 766	91 179	110 244	132 243	-
65	-	-	-	-	68 856	84 204	102 098	122 821	-

**Power input in W**

30	18 661	19 105	19 566	20 041	20 523	21 008	21 492	21 969	-
35	20 696	21 161	21 651	22 159	22 681	23 213	23 749	24 285	-
40	22 948	23 426	23 934	24 468	25 021	25 590	26 170	26 755	-
45	25 471	25 953	26 471	27 020	27 596	28 193	28 807	29 433	-
50	-	28 795	29 313	29 870	30 459	31 075	31 715	32 373	-
55	-	32 005	32 516	33 070	33 664	34 291	34 947	35 627	-
60	-	-	36 131	36 675	37 263	37 892	38 556	39 250	-
65	-	-	-	-	41 312	41 933	42 596	43 295	-

**Current consumption in A**

30	36.02	36.64	37.25	37.87	38.52	39.20	39.92	40.71	-
35	39.04	39.74	40.43	41.12	41.83	42.56	43.34	44.17	-
40	42.31	43.09	43.85	44.62	45.39	46.18	47.00	47.86	-
45	45.92	46.79	47.63	48.46	49.30	50.14	51.01	51.92	-
50	-	50.96	51.88	52.78	53.67	54.57	55.49	56.44	-
55	-	55.71	56.70	57.67	58.63	59.58	60.55	61.53	-
60	-	-	62.22	63.26	64.28	65.29	66.30	67.32	-
65	-	-	-	-	70.73	71.79	72.85	73.91	-

**Mass flow in kg/h**

30	883	1 092	1 335	1 616	1 940	2 311	2 733	3 211	-
35	875	1 085	1 329	1 611	1 935	2 306	2 728	3 207	-
40	864	1 075	1 319	1 601	1 925	2 296	2 718	3 196	-
45	851	1 062	1 306	1 587	1 911	2 281	2 702	3 178	-
50	-	1 046	1 289	1 569	1 892	2 260	2 680	3 155	-
55	-	1 028	1 269	1 548	1 868	2 235	2 652	3 125	-
60	-	-	1 246	1 522	1 840	2 205	2 619	3 089	-
65	-	-	-	-	1 808	2 170	2 581	3 047	-

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

30	2.42	2.97	3.60	4.32	5.14	6.06	7.10	8.25	-
35	2.07	2.56	3.11	3.74	4.45	5.26	6.16	7.17	-
40	1.77	2.19	2.67	3.22	3.85	4.55	5.34	6.22	-
45	1.49	1.86	2.28	2.76	3.31	3.92	4.61	5.39	-
50	-	1.57	1.93	2.35	2.82	3.36	3.96	4.64	-
55	-	1.31	1.62	1.98	2.39	2.86	3.38	3.97	-
60	-	-	1.35	1.66	2.01	2.41	2.86	3.37	-
65	-	-	-	-	1.67	2.01	2.40	2.84	-

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

Cooling capacity	107 300	W
Power input	34 170	W
Current consumption	59.37	A
Mass flow	2 416	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 = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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