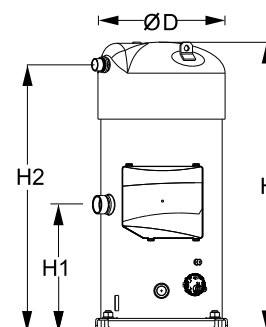


General Characteristics

Model number (on compressor nameplate)		DSH485A7AAA
Code number for Singlepack*		120H1157
Drawing number		8556133d
Suction and discharge connections		Brazed
Suction connection		1-5/8" ODF
Discharge connection		1-3/8" ODF
Suction connection with supplied sleeve		" ODF
Oil sight glass		Threaded
Oil equalisation connection		2-1/4" Rotolock
Oil drain connection		1/4" flare
LP gauge port		Schrader
IPR valve		Yes
Reverse rotation protection		Electronic module
Swept volume	442.6 cm ³ /rev	
Displacement @ Nominal speed	77.0 m ³ /h @ 2900 rpm - 93.0 m ³ /h @ 3500 rpm	
Net weight	175 kg	
Oil charge	6.7 litre, POE - 160SZ	
Maximum system test pressure Low Side / High side	30.2 bar(g) / 45 bar(g)	
Maximum differential test pressure	37 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	17 kg	
Approved refrigerants	R410A	

Dimensions

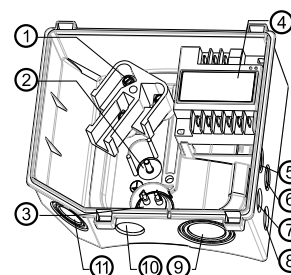


D=333.2 mm
H=755.3 mm
H1=331 mm
H2=696.5 mm
H3=- mm

Electrical Characteristics

Nominal voltage	500V/3/50Hz - 575V/3/60Hz
Voltage range	450-550 V @ 50Hz - 517-632 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.36 Ω
Rated Load Amps (RLA)	50.7 A
Maximum Continuous Current (MCC)	71 A
Locked Rotor Amps (LRA)	327 A
Motor protection	Electronic protection module, 24 V AC

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	21 Nm

Parts shipped with compressor

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
Rotolock adapter (2"1/4 Rotolock, 1"5/8 ODF)	120Z0432
Gasket, 2-1/4"	8156133

Rotolock accessories, discharge side
Code no.

Solder sleeve, P10 (1-3/4" Rotolock, 1-3/8" ODF)	8153003
Rotolock valve, V10 (1-3/4" Rotolock, 1-3/8" ODF)	8168022
Rotolock adapter (1"3/4 Rotolock, 1"3/8 ODF)	120Z0431
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"3/8 ODF)	120Z0504
Valve set, V03 (2-1/4"~1-5/8"), V10 (1-3/4"~1-3/8")	120Z0547
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

Oil / lubricants
Code no.

POE lubricant, 160SZ, 1 litre can	7754023
POE lubricant, 160SZ, 2.5 litre can	120Z0571

Crankcase heaters
Code no.

Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	120Z0360
Surface sump heater + bottom insulation, 56 W, 575 V, CE mark, UL	120Z0379
Belt type crankcase heater, 75 W, 575 V, CE mark, UL	120Z0465

Miscellaneous accessories
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Acoustic hood for scroll compressor	120Z0022
Acoustic bottom insulation for scroll compressor	120Z0353
Mounting kit for 1 scroll compressor including 4 hexagon rigid grommets, 4 sleeves, 4 bolts, 4 washers	7777045
Mounting for 1 scroll compressor including 4 triangle rigid spacer, 4 sleeves, 4 bolts, 4 washers	120Z0495

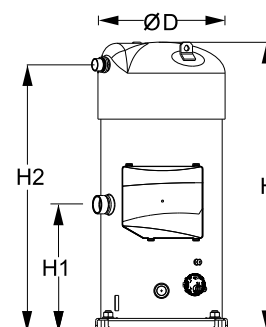
Spare parts
Code no.

Electronic motor protection module, 24 V AC	120Z0584
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

General Characteristics

Model number (on compressor nameplate)		DSH485A7ABA
Code number for Singlepack*		120H1158
Drawing number		8556133d
Suction and discharge connections		Brazed
Suction connection		1-5/8" ODF
Discharge connection		1-3/8" ODF
Suction connection with supplied sleeve		" ODF
Oil sight glass		Threaded
Oil equalisation connection		2-1/4" Rotolock
Oil drain connection		1/4" flare
LP gauge port		Schrader
IPR valve		Yes
Reverse rotation protection		Electronic module
Swept volume	442.6 cm ³ /rev	
Displacement @ Nominal speed	77.0 m ³ /h @ 2900 rpm - 93.0 m ³ /h @ 3500 rpm	
Net weight	175 kg	
Oil charge	6.7 litre, POE - 160SZ	
Maximum system test pressure Low Side / High side	30.2 bar(g) / 45 bar(g)	
Maximum differential test pressure	37 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	17 kg	
Approved refrigerants	R410A	

Dimensions

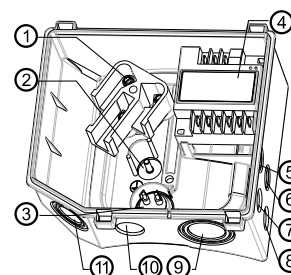


D=333.2 mm
H=755.3 mm
H1=331 mm
H2=696.5 mm
H3=- mm

Electrical Characteristics

Nominal voltage	500V/3/50Hz - 575V/3/60Hz
Voltage range	450-550 V @ 50Hz - 517-632 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.36 Ω
Rated Load Amps (RLA)	50.7 A
Maximum Continuous Current (MCC)	71 A
Locked Rotor Amps (LRA)	327 A
Motor protection	Electronic protection module, 110-240 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	21 Nm

Parts shipped with compressor

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
Rotolock adapter (2"1/4 Rotolock, 1"5/8 ODF)	120Z0432
Gasket, 2-1/4"	8156133

Rotolock accessories, discharge side
Code no.

Solder sleeve, P10 (1-3/4" Rotolock, 1-3/8" ODF)	8153003
Rotolock valve, V10 (1-3/4" Rotolock, 1-3/8" ODF)	8168022
Rotolock adapter (1"3/4 Rotolock, 1"3/8 ODF)	120Z0431
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"3/8 ODF)	120Z0504
Valve set, V03 (2-1/4"~1-5/8"), V10 (1-3/4"~1-3/8")	120Z0547
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

Oil / lubricants
Code no.

POE lubricant, 160SZ, 1 litre can	7754023
POE lubricant, 160SZ, 2.5 litre can	120Z0571

Crankcase heaters
Code no.

Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	120Z0360
Surface sump heater + bottom insulation, 56 W, 575 V, CE mark, UL	120Z0379
Belt type crankcase heater, 75 W, 575 V, CE mark, UL	120Z0465

Miscellaneous accessories
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Acoustic hood for scroll compressor	120Z0022
Acoustic bottom insulation for scroll compressor	120Z0353
Mounting kit for 1 scroll compressor including 4 hexagon rigid grommets, 4 sleeves, 4 bolts, 4 washers	7777045
Mounting for 1 scroll compressor including 4 triangle rigid spacer, 4 sleeves, 4 bolts, 4 washers	120Z0495

Spare parts
Code no.

Electronic motor protection module, 110-240 V	120Z0585
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 80 x 80 mm	8173331

Performance data at 50 Hz, EN 12900 rating conditions

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

30	32 973	51 573	63 418	77 313	93 521	112 308	158 671	-	-
35	-	48 647	59 972	73 202	88 603	106 437	150 466	207 403	-
40	-	45 599	56 367	68 898	83 454	100 301	141 922	195 877	228 140
45	-	42 365	52 541	64 335	78 011	93 834	132 976	183 877	214 397
50	-	-	48 429	59 450	72 210	86 973	123 564	171 338	200 080
55	-	-	-	54 180	65 988	79 654	113 622	158 197	185 123
60	-	-	-	-	59 279	71 813	103 085	144 390	169 465
65	-	-	-	-	-	-	91 890	129 852	153 040

Power input in W

30	20 862	21 275	21 500	21 624	21 566	21 242	19 461	-	-
35	-	23 439	23 700	23 912	23 991	23 855	22 598	19 476	-
40	-	25 841	26 115	26 388	26 580	26 604	25 822	23 374	21 317
45	-	28 519	28 779	29 089	29 366	29 528	29 168	27 344	25 674
50	-	-	31 728	32 049	32 388	32 660	32 673	31 421	30 112
55	-	-	-	35 305	35 679	36 037	36 371	35 640	34 667
60	-	-	-	-	39 277	39 694	40 299	40 038	39 375
65	-	-	-	-	-	-	44 492	44 651	44 273

Current consumption in A

30	31.44	32.56	32.93	33.10	33.02	32.63	30.69	-	-
35	-	34.60	35.00	35.27	35.35	35.19	33.93	31.02	-
40	-	37.02	37.39	37.71	37.91	37.94	37.26	35.22	33.55
45	-	39.88	40.18	40.50	40.78	40.95	40.77	39.50	38.32
50	-	-	43.44	43.72	44.02	44.29	44.52	43.94	43.20
55	-	-	-	47.44	47.72	48.05	48.59	48.60	48.27
60	-	-	-	-	51.95	52.28	53.05	53.57	53.60
65	-	-	-	-	-	-	57.98	58.91	59.25

Mass flow in kg/h

30	694	1 063	1 290	1 551	1 853	2 201	3 054	-	-
35	-	1 055	1 281	1 542	1 843	2 189	3 036	4 128	-
40	-	1 043	1 270	1 531	1 831	2 174	3 017	4 100	4 745
45	-	1 030	1 257	1 517	1 815	2 158	2 995	4 070	4 710
50	-	-	1 240	1 500	1 797	2 138	2 970	4 038	4 673
55	-	-	-	1 479	1 776	2 115	2 942	4 002	4 633
60	-	-	-	-	1 750	2 088	2 910	3 963	4 590
65	-	-	-	-	-	-	2 875	3 920	4 542

Coefficient of performance (C.O.P.)

30	1.58	2.42	2.95	3.58	4.34	5.29	8.15	-	-
35	-	2.08	2.53	3.06	3.69	4.46	6.66	10.65	-
40	-	1.76	2.16	2.61	3.14	3.77	5.50	8.38	10.70
45	-	1.49	1.83	2.21	2.66	3.18	4.56	6.72	8.35
50	-	-	1.53	1.85	2.23	2.66	3.78	5.45	6.64
55	-	-	-	1.53	1.85	2.21	3.12	4.44	5.34
60	-	-	-	-	1.51	1.81	2.56	3.61	4.30
65	-	-	-	-	-	-	2.07	2.91	3.46

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

Cooling capacity	104 003	W
Power input	32 783	W
Current consumption	44.48	A
Mass flow	2 527	kg/h
C.O.P.	3.17	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	89	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 50 Hz, ARI rating conditions

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

30	35 648	55 636	68 346	83 241	100 601	120 706	170 266	-	-
35	-	52 814	65 035	79 298	95 884	115 075	162 392	223 494	-
40	-	49 883	61 584	75 183	90 964	109 209	154 227	212 496	247 307
45	-	46 783	57 934	70 839	85 786	103 059	145 728	201 126	234 312
50	-	-	54 030	66 217	80 306	96 586	136 871	189 379	220 939
55	-	-	-	61 288	74 506	89 783	127 680	177 320	207 278
60	-	-	-	-	68 432	82 723	118 295	165 178	193 612
65	-	-	-	-	-	-	109 187	153 656	180 789

Power input in W

30	20 862	21 275	21 500	21 624	21 566	21 242	19 461	-	-
35	-	23 439	23 700	23 912	23 991	23 855	22 598	19 476	-
40	-	25 841	26 115	26 388	26 580	26 604	25 822	23 374	21 317
45	-	28 519	28 779	29 089	29 366	29 528	29 168	27 344	25 674
50	-	-	31 728	32 049	32 388	32 660	32 673	31 421	30 112
55	-	-	-	35 305	35 679	36 037	36 371	35 640	34 667
60	-	-	-	-	39 277	39 694	40 299	40 038	39 375
65	-	-	-	-	-	-	44 492	44 651	44 273

Current consumption in A

30	31.44	32.56	32.93	33.10	33.02	32.63	30.69	-	-
35	-	34.60	35.00	35.27	35.35	35.19	33.93	31.02	-
40	-	37.02	37.39	37.71	37.91	37.94	37.26	35.22	33.55
45	-	39.88	40.18	40.50	40.78	40.95	40.77	39.50	38.32
50	-	-	43.44	43.72	44.02	44.29	44.52	43.94	43.20
55	-	-	-	47.44	47.72	48.05	48.59	48.60	48.27
60	-	-	-	-	51.95	52.28	53.05	53.57	53.60
65	-	-	-	-	-	-	57.98	58.91	59.25

Mass flow in kg/h

30	690	1 057	1 282	1 542	1 842	2 186	3 032	-	-
35	-	1 048	1 274	1 533	1 831	2 174	3 014	4 095	-
40	-	1 037	1 263	1 521	1 819	2 160	2 995	4 067	4 705
45	-	1 024	1 249	1 507	1 804	2 143	2 973	4 038	4 671
50	-	-	1 232	1 490	1 786	2 124	2 948	4 005	4 634
55	-	-	-	1 470	1 764	2 101	2 921	3 970	4 594
60	-	-	-	-	1 739	2 074	2 889	3 932	4 551
65	-	-	-	-	-	-	2 854	3 889	4 504

Coefficient of performance (C.O.P.)

30	1.71	2.62	3.18	3.85	4.66	5.68	8.75	-	-
35	-	2.25	2.74	3.32	4.00	4.82	7.19	11.48	-
40	-	1.93	2.36	2.85	3.42	4.10	5.97	9.09	11.60
45	-	1.64	2.01	2.44	2.92	3.49	5.00	7.36	9.13
50	-	-	1.70	2.07	2.48	2.96	4.19	6.03	7.34
55	-	-	-	1.74	2.09	2.49	3.51	4.98	5.98
60	-	-	-	-	1.74	2.08	2.94	4.13	4.92
65	-	-	-	-	-	-	2.45	3.44	4.08

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

Cooling capacity	117 018	W
Power input	35 913	W
Current consumption	47.97	A
Mass flow	2 673	kg/h
C.O.P.	3.26	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	89	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

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

30	39 780	62 164	76 482	93 280	112 856	135 508	191 232	-	-
35	-	58 605	72 236	88 214	106 835	128 396	181 524	249 975	-
40	-	54 933	67 827	82 935	100 550	120 968	171 389	236 557	275 408
45	-	51 126	63 232	77 417	93 973	113 192	160 786	222 539	259 455
50	-	-	58 420	71 627	87 063	105 020	149 652	207 835	242 730
55	-	-	-	65 501	79 749	96 369	137 870	192 285	225 045
60	-	-	-	-	71 887	87 070	125 203	175 557	206 012
65	-	-	-	-	-	-	111 087	156 864	184 703

Power input in W

30	25 101	25 602	26 011	26 364	26 539	26 416	24 789	-	-
35	-	28 096	28 515	28 959	29 307	29 438	28 565	25 367	-
40	-	30 909	31 283	31 765	32 232	32 564	32 336	30 111	27 946
45	-	34 114	34 390	34 855	35 387	35 866	36 177	34 817	33 207
50	-	-	37 910	38 304	38 848	39 420	40 161	39 558	38 450
55	-	-	-	42 186	42 687	43 298	44 363	44 410	43 748
60	-	-	-	-	46 979	47 575	48 855	49 444	49 176
65	-	-	-	-	-	-	53 713	54 737	54 808

Current consumption in A

30	30.90	31.99	32.55	32.97	33.13	32.92	30.92	-	-
35	-	34.20	34.72	35.23	35.60	35.72	34.76	31.45	-
40	-	36.85	37.24	37.73	38.22	38.57	38.45	36.47	34.49
45	-	40.10	40.26	40.64	41.14	41.63	42.15	41.30	40.07
50	-	-	43.94	44.11	44.52	45.05	46.01	46.09	45.51
55	-	-	-	48.30	48.52	48.99	50.20	51.01	50.99
60	-	-	-	-	53.30	53.60	54.86	56.21	56.64
65	-	-	-	-	-	-	60.15	61.84	62.63

Mass flow in kg/h

30	838	1 280	1 554	1 871	2 236	2 656	3 681	-	-
35	-	1 269	1 542	1 859	2 223	2 642	3 665	4 973	-
40	-	1 257	1 529	1 844	2 208	2 625	3 645	4 950	5 723
45	-	1 244	1 515	1 828	2 189	2 605	3 621	4 922	5 693
50	-	-	1 498	1 809	2 169	2 582	3 593	4 889	5 658
55	-	-	-	1 788	2 145	2 556	3 562	4 851	5 617
60	-	-	-	-	2 119	2 527	3 526	4 809	5 572
65	-	-	-	-	-	-	3 488	4 763	5 522

Coefficient of performance (C.O.P.)

30	1.58	2.43	2.94	3.54	4.25	5.13	7.71	-	-
35	-	2.09	2.53	3.05	3.65	4.36	6.35	9.85	-
40	-	1.78	2.17	2.61	3.12	3.71	5.30	7.86	9.85
45	-	1.50	1.84	2.22	2.66	3.16	4.44	6.39	7.81
50	-	-	1.54	1.87	2.24	2.66	3.73	5.25	6.31
55	-	-	-	1.55	1.87	2.23	3.11	4.33	5.14
60	-	-	-	-	1.53	1.83	2.56	3.55	4.19
65	-	-	-	-	-	-	2.07	2.87	3.37

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

Cooling capacity	125 786	W
Power input	39 898	W
Current consumption	45.58	A
Mass flow	3 055	kg/h
C.O.P.	3.15	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	91	dB(A)
With acoustic hood	87	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
R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

30	43 008	67 062	82 425	100 433	121 400	145 641	205 206	-	-
35	-	63 625	78 335	95 560	115 615	138 816	195 912	269 368	-
40	-	60 094	74 104	90 501	109 599	131 712	186 248	256 628	298 546
45	-	56 457	69 722	85 244	103 339	124 320	176 204	243 415	283 556
50	-	-	65 177	79 779	96 824	116 627	165 767	229 719	268 037
55	-	-	-	74 094	90 044	108 623	154 928	215 529	251 977
60	-	-	-	-	82 988	100 297	143 675	200 833	235 366
65	-	-	-	-	-	-	131 997	185 620	218 192

Power input in W

30	25 101	25 602	26 011	26 364	26 539	26 416	24 789	-	-
35	-	28 096	28 515	28 959	29 307	29 438	28 565	25 367	-
40	-	30 909	31 283	31 765	32 232	32 564	32 336	30 111	27 946
45	-	34 114	34 390	34 855	35 387	35 866	36 177	34 817	33 207
50	-	-	37 910	38 304	38 848	39 420	40 161	39 558	38 450
55	-	-	-	42 186	42 687	43 298	44 363	44 410	43 748
60	-	-	-	-	46 979	47 575	48 855	49 444	49 176
65	-	-	-	-	-	-	53 713	54 737	54 808

Current consumption in A

30	30.90	31.99	32.55	32.97	33.13	32.92	30.92	-	-
35	-	34.20	34.72	35.23	35.60	35.72	34.76	31.45	-
40	-	36.85	37.24	37.73	38.22	38.57	38.45	36.47	34.49
45	-	40.10	40.26	40.64	41.14	41.63	42.15	41.30	40.07
50	-	-	43.94	44.11	44.52	45.05	46.01	46.09	45.51
55	-	-	-	48.30	48.52	48.99	50.20	51.01	50.99
60	-	-	-	-	53.30	53.60	54.86	56.21	56.64
65	-	-	-	-	-	-	60.15	61.84	62.63

Mass flow in kg/h

30	833	1 272	1 544	1 859	2 222	2 639	3 655	-	-
35	-	1 262	1 533	1 847	2 209	2 625	3 639	4 934	-
40	-	1 250	1 520	1 833	2 194	2 608	3 619	4 910	5 675
45	-	1 237	1 505	1 816	2 175	2 588	3 595	4 882	5 645
50	-	-	1 489	1 798	2 155	2 565	3 567	4 850	5 610
55	-	-	-	1 777	2 131	2 539	3 536	4 813	5 570
60	-	-	-	-	2 106	2 510	3 501	4 771	5 525
65	-	-	-	-	-	-	3 462	4 725	5 475

Coefficient of performance (C.O.P.)

30	1.71	2.62	3.17	3.81	4.57	5.51	8.28	-	-
35	-	2.26	2.75	3.30	3.94	4.72	6.86	10.62	-
40	-	1.94	2.37	2.85	3.40	4.04	5.76	8.52	10.68
45	-	1.65	2.03	2.45	2.92	3.47	4.87	6.99	8.54
50	-	-	1.72	2.08	2.49	2.96	4.13	5.81	6.97
55	-	-	-	1.76	2.11	2.51	3.49	4.85	5.76
60	-	-	-	-	1.77	2.11	2.94	4.06	4.79
65	-	-	-	-	-	-	2.46	3.39	3.98

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

Cooling capacity	141 850	W
Power input	43 620	W
Current consumption	49.35	A
Mass flow	3 234	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	91	dB(A)
With acoustic hood	87	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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