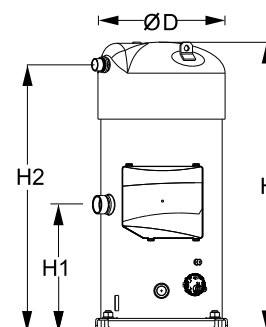


General Characteristics

Model number (on compressor nameplate)		DSH485A4AAB
Code number for Singlepack*		120H1131
Code number for Industrial pack**		120H1132
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

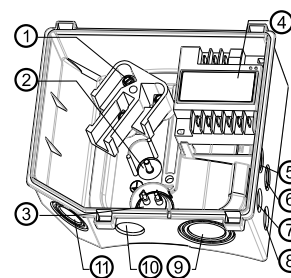


D=333.2 mm
H=755.3 mm
H1=331 mm
H2=696.5 mm
H3=- mm

Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.231 Ω
Rated Load Amps (RLA)	72.9 A
Maximum Continuous Current (MCC)	90 A
Locked Rotor Amps (LRA)	413 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)	12020432
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)	12020431
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)	12020504
Valve set, V03 (2-1/4"~1-5/8"), V10 (1-3/4"~1-3/8")	12020547
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	12020571

Crankcase heaters
Code no.

Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	12020360
Surface sump heater + bottom insulation, 56 W, 230 V, CE mark, UL	12020376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	12020377
Surface sump heater + bottom insulation, 56 W, 460 V, CE mark, UL	12020378
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	12020464

Miscellaneous accessories
Code no.

Electronic soft start kit MCD201-055-T6-CV1	175G5205
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Acoustic hood for scroll compressor	12020022
Acoustic bottom insulation for scroll compressor	12020353
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	12020495

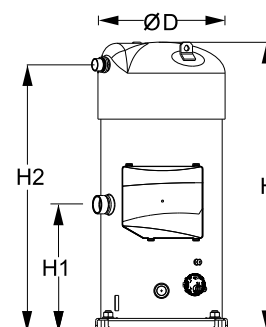
Spare parts
Code no.

Electronic motor protection module, 24 V AC	12020584
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 210 x 190 incl. cover	12020458
T block connector 80 x 80 mm	8173331

General Characteristics

Model number (on compressor nameplate)		DSH485A4ABB
Code number for Singlepack*		120H1133
Code number for Industrial pack**		120H1134
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

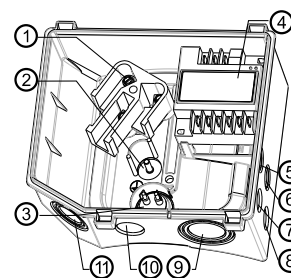


D=333.2 mm
H=755.3 mm
H1=331 mm
H2=696.5 mm
H3=- mm

Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.231 Ω
Rated Load Amps (RLA)	72.9 A
Maximum Continuous Current (MCC)	90 A
Locked Rotor Amps (LRA)	413 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)	12020432
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)	12020431
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)	12020504
Valve set, V03 (2-1/4"~1-5/8"), V10 (1-3/4"~1-3/8")	12020547
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	12020571

Crankcase heaters	Code no.
Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	12020360
Surface sump heater + bottom insulation, 56 W, 230 V, CE mark, UL	12020376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	12020377
Surface sump heater + bottom insulation, 56 W, 460 V, CE mark, UL	12020378
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	12020464

Miscellaneous accessories	Code no.
Electronic soft start kit MCD201-055-T6-CV1	175G5205
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Acoustic hood for scroll compressor	12020022
Acoustic bottom insulation for scroll compressor	12020353
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	12020495

Spare parts	Code no.
Electronic motor protection module, 110-240 V	12020585
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 210 x 190 incl. cover	12020458
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	32 144	51 394	63 180	76 901	92 927	111 628	158 540	-	-
35	-	48 515	59 831	72 915	88 137	105 868	150 337	209 287	-
40	-	45 482	56 293	68 705	83 088	99 813	141 769	197 536	231 526
45	-	42 227	52 498	64 203	77 711	93 394	132 766	185 281	217 394
50	-	-	48 377	59 339	71 938	86 544	123 261	172 453	202 654
55	-	-	-	54 047	65 701	79 195	113 186	158 985	187 238
60	-	-	-	-	58 931	71 278	102 473	144 807	171 078
65	-	-	-	-	-	-	91 054	129 853	154 105

Power input in W

30	20 316	21 315	21 701	21 909	21 864	21 493	19 464	-	-
35	-	23 379	23 772	24 068	24 192	24 067	22 773	19 583	-
40	-	25 748	26 091	26 416	26 649	26 713	26 035	23 779	21 872
45	-	28 505	28 738	29 034	29 316	29 510	29 331	27 894	26 515
50	-	-	31 797	32 004	32 278	32 543	32 745	32 008	31 099
55	-	-	-	35 408	35 614	35 892	36 358	36 204	35 705
60	-	-	-	-	39 408	39 639	40 252	40 563	40 417
65	-	-	-	-	-	-	44 509	45 168	45 316

Current consumption in A

30	40.35	40.86	41.21	41.46	41.46	41.09	38.71	-	-
35	-	43.51	43.89	44.24	44.44	44.36	42.80	38.53	-
40	-	46.63	46.98	47.40	47.74	47.89	47.05	43.83	41.00
45	-	50.31	50.58	51.00	51.44	51.76	51.53	49.26	47.04
50	-	-	54.76	55.12	55.60	56.04	56.31	54.89	53.21
55	-	-	-	59.85	60.30	60.81	61.48	60.79	59.61
60	-	-	-	-	65.63	66.16	67.11	67.05	66.31
65	-	-	-	-	-	-	73.27	73.73	73.39

Mass flow in kg/h

30	674	1 062	1 289	1 547	1 844	2 188	3 047	-	-
35	-	1 053	1 280	1 537	1 834	2 176	3 030	4 161	-
40	-	1 042	1 269	1 526	1 821	2 162	3 011	4 134	4 817
45	-	1 028	1 255	1 512	1 806	2 146	2 990	4 105	4 784
50	-	-	1 238	1 495	1 788	2 126	2 965	4 073	4 747
55	-	-	-	1 474	1 766	2 102	2 936	4 037	4 706
60	-	-	-	-	1 740	2 074	2 903	3 996	4 660
65	-	-	-	-	-	-	2 865	3 950	4 609

Coefficient of performance (C.O.P.)

30	1.58	2.41	2.91	3.51	4.25	5.19	8.15	-	-
35	-	2.08	2.52	3.03	3.64	4.40	6.60	10.69	-
40	-	1.77	2.16	2.60	3.12	3.74	5.45	8.31	10.59
45	-	1.48	1.83	2.21	2.65	3.16	4.53	6.64	8.20
50	-	-	1.52	1.85	2.23	2.66	3.76	5.39	6.52
55	-	-	-	1.53	1.84	2.21	3.11	4.39	5.24
60	-	-	-	-	1.50	1.80	2.55	3.57	4.23
65	-	-	-	-	-	-	2.05	2.87	3.40

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

Cooling capacity	103 529	W
Power input	32 724	W
Current consumption	56.32	A
Mass flow	2 516	kg/h
C.O.P.	3.16	

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	34 752	55 444	68 090	82 798	99 962	119 976	170 125	-	-
35	-	52 670	64 883	78 987	95 381	114 459	162 253	225 523	-
40	-	49 755	61 503	74 973	90 565	108 678	154 060	214 296	250 977
45	-	46 630	57 886	70 693	85 456	102 576	145 497	202 662	237 588
50	-	-	53 972	66 093	80 003	96 110	136 535	190 612	223 783
55	-	-	-	61 138	74 183	89 265	127 191	178 203	209 645
60	-	-	-	-	68 032	82 106	117 592	165 656	195 454
65	-	-	-	-	-	-	108 193	153 657	182 047

Power input in W

30	20 316	21 315	21 701	21 909	21 864	21 493	19 464	-	-
35	-	23 379	23 772	24 068	24 192	24 067	22 773	19 583	-
40	-	25 748	26 091	26 416	26 649	26 713	26 035	23 779	21 872
45	-	28 505	28 738	29 034	29 316	29 510	29 331	27 894	26 515
50	-	-	31 797	32 004	32 278	32 543	32 745	32 008	31 099
55	-	-	-	35 408	35 614	35 892	36 358	36 204	35 705
60	-	-	-	-	39 408	39 639	40 252	40 563	40 417
65	-	-	-	-	-	-	44 509	45 168	45 316

Current consumption in A

30	40.35	40.86	41.21	41.46	41.46	41.09	38.71	-	-
35	-	43.51	43.89	44.24	44.44	44.36	42.80	38.53	-
40	-	46.63	46.98	47.40	47.74	47.89	47.05	43.83	41.00
45	-	50.31	50.58	51.00	51.44	51.76	51.53	49.26	47.04
50	-	-	54.76	55.12	55.60	56.04	56.31	54.89	53.21
55	-	-	-	59.85	60.30	60.81	61.48	60.79	59.61
60	-	-	-	-	65.63	66.16	67.11	67.05	66.31
65	-	-	-	-	-	-	73.27	73.73	73.39

Mass flow in kg/h

30	670	1 056	1 281	1 537	1 832	2 174	3 025	-	-
35	-	1 047	1 272	1 528	1 822	2 162	3 009	4 128	-
40	-	1 036	1 261	1 517	1 810	2 148	2 990	4 101	4 777
45	-	1 022	1 248	1 503	1 795	2 131	2 968	4 072	4 743
50	-	-	1 231	1 486	1 777	2 112	2 944	4 040	4 706
55	-	-	-	1 465	1 755	2 088	2 915	4 004	4 666
60	-	-	-	-	1 729	2 061	2 882	3 964	4 621
65	-	-	-	-	-	-	2 844	3 918	4 570

Coefficient of performance (C.O.P.)

30	1.71	2.60	3.14	3.78	4.57	5.58	8.74	-	-
35	-	2.25	2.73	3.28	3.94	4.76	7.12	11.52	-
40	-	1.93	2.36	2.84	3.40	4.07	5.92	9.01	11.47
45	-	1.64	2.01	2.43	2.91	3.48	4.96	7.27	8.96
50	-	-	1.70	2.07	2.48	2.95	4.17	5.96	7.20
55	-	-	-	1.73	2.08	2.49	3.50	4.92	5.87
60	-	-	-	-	1.73	2.07	2.92	4.08	4.84
65	-	-	-	-	-	-	2.43	3.40	4.02

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

Cooling capacity	116 442	W
Power input	35 828	W
Current consumption	60.76	A
Mass flow	2 663	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	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	38.96	40.34	41.05	41.58	41.78	41.51	39.00	-	-
35	-	43.13	43.79	44.42	44.89	45.04	43.84	39.66	-
40	-	46.47	46.96	47.58	48.19	48.64	48.49	45.99	43.49
45	-	50.57	50.77	51.25	51.88	52.50	53.15	52.08	50.53
50	-	-	55.41	55.63	56.14	56.81	58.02	58.12	57.40
55	-	-	-	60.91	61.19	61.78	63.30	64.33	64.30
60	-	-	-	-	67.21	67.60	69.18	70.88	71.42
65	-	-	-	-	-	-	75.85	77.99	78.97

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	57.48	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	38.96	40.34	41.05	41.58	41.78	41.51	39.00	-	-
35	-	43.13	43.79	44.42	44.89	45.04	43.84	39.66	-
40	-	46.47	46.96	47.58	48.19	48.64	48.49	45.99	43.49
45	-	50.57	50.77	51.25	51.88	52.50	53.15	52.08	50.53
50	-	-	55.41	55.63	56.14	56.81	58.02	58.12	57.40
55	-	-	-	60.91	61.19	61.78	63.30	64.33	64.30
60	-	-	-	-	67.21	67.60	69.18	70.88	71.42
65	-	-	-	-	-	-	75.85	77.99	78.97

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	62.23	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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