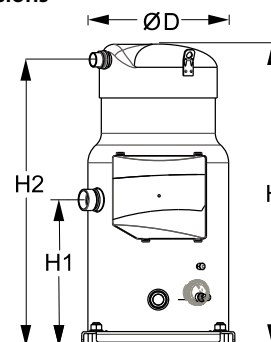


**General Characteristics**

Model number (on compressor nameplate)		<b>DSH295A4AAB</b>
Code number for Singlepack*		120H1123
Code number for Industrial pack**		120H1124
Drawing number		8556089g
Suction and discharge connections		Brazed
Suction connection		1-5/8" ODF
Discharge connection		1-1/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		2-1/4" Rotolock
Oil drain connection		1/4" flare
LP gauge port		Schrader
IPR valve		None
Reverse rotation protection		Electronic module
Swept volume	276.2 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	48.1 m <sup>3</sup> /h @ 2900 rpm - 58.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	111 kg	
Oil charge	6.7 litre, POE - 160SZ	
Maximum system test pressure Low Side / High side	31.1 bar(g) / 45 bar(g)	
Maximum differential test pressure	37 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	15 kg	
Approved refrigerants	R410A	

**Dimensions**

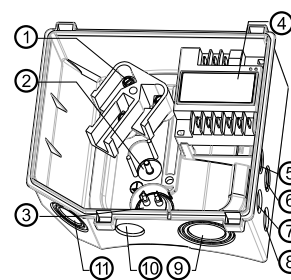


D=317.5 mm  
H=682.5 mm  
H1=331 mm  
H2=647.5 mm  
H3=- mm

**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	0.52 Ω
Rated Load Amps (RLA)	44.3 A
Maximum Continuous Current (MCC)	62 A
Locked Rotor Amps (LRA)	260 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

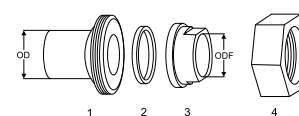
\*\*Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

**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, 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
Rotolock adapter (1-3/4" Rotolock, 1-1/8" ODF)	120Z0364
Gasket, 1-3/4"	8156132

**Solder sleeve adapter set**


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

**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, 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, 230 V, CE mark, UL	120Z0376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	120Z0377
Surface sump heater + bottom insulation, 56 W, 460 V, CE mark, UL	120Z0378
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.**

Electronic soft start kit, MCI 50 CM	037N0401
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

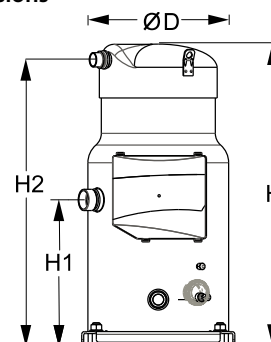
**Spare parts**
**Code no.**

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)		<b>DSH295A4ABB</b>
Code number for Singlepack*		120H1125
Code number for Industrial pack**		120H1126
Drawing number		8556089g
Suction and discharge connections		Brazed
Suction connection		1-5/8" ODF
Discharge connection		1-1/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		2-1/4" Rotolock
Oil drain connection		1/4" flare
LP gauge port		Schrader
IPR valve		None
Reverse rotation protection		Electronic module
Swept volume	276.2 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	48.1 m <sup>3</sup> /h @ 2900 rpm - 58.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	111 kg	
Oil charge	6.7 litre, POE - 160SZ	
Maximum system test pressure Low Side / High side	31.1 bar(g) / 45 bar(g)	
Maximum differential test pressure	37 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	15 kg	
Approved refrigerants	R410A	

**Dimensions**

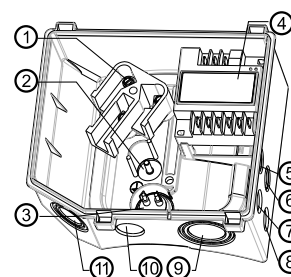


D=317.5 mm  
H=682.5 mm  
H1=331 mm  
H2=647.5 mm  
H3=- mm

**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	0.52 Ω
Rated Load Amps (RLA)	44.3 A
Maximum Continuous Current (MCC)	62 A
Locked Rotor Amps (LRA)	260 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

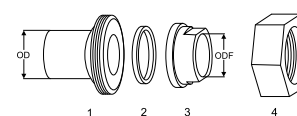
\*\*Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

**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, 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
Rotolock adapter (1-3/4" Rotolock, 1-1/8" ODF)	120Z0364
Gasket, 1-3/4"	8156132

**Solder sleeve adapter set**


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

**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, 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, 230 V, CE mark, UL	120Z0376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	120Z0377
Surface sump heater + bottom insulation, 56 W, 460 V, CE mark, UL	120Z0378
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.**

Electronic soft start kit, MCI 50 CM	037N0401
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 60 x 75 mm	8173021

**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	20 253	32 300	39 890	48 719	58 932	70 675	99 334	-	-
35	-	30 394	37 614	46 001	55 703	66 864	94 149	129 020	-
40	-	28 406	35 215	43 121	52 272	62 811	88 642	121 778	141 449
45	-	26 327	32 685	40 071	48 630	58 509	82 806	114 127	132 786
50	-	-	30 018	36 843	44 772	53 949	76 633	106 060	123 666
55	-	-	-	33 430	40 688	49 124	70 116	97 569	114 083
60	-	-	-	-	36 371	44 027	63 247	88 647	104 029
65	-	-	-	-	-	-	56 018	79 285	93 496

**Power input in W**

30	12 810	12 841	12 953	13 056	13 095	13 015	12 280	-	-
35	-	14 283	14 377	14 499	14 596	14 612	14 180	12 766	-
40	-	15 944	15 993	16 108	16 235	16 318	16 135	15 120	14 163
45	-	17 869	17 845	17 926	18 055	18 178	18 189	17 517	16 789
50	-	-	19 980	19 997	20 102	20 238	20 386	20 004	19 477
55	-	-	-	22 367	22 419	22 541	22 773	22 624	22 270
60	-	-	-	-	25 053	25 132	25 392	25 423	25 215
65	-	-	-	-	-	-	28 290	28 444	28 354

**Current consumption in A**

30	25.75	26.24	26.44	26.56	26.56	26.42	25.55	-	-
35	-	27.79	27.98	28.14	28.22	28.20	27.70	26.36	-
40	-	29.65	29.81	29.98	30.11	30.18	29.98	29.11	28.34
45	-	31.92	32.02	32.16	32.31	32.43	32.48	32.02	31.51
50	-	-	34.66	34.74	34.88	35.03	35.26	35.14	34.87
55	-	-	-	37.81	37.90	38.05	38.39	38.56	38.49
60	-	-	-	-	41.45	41.56	41.96	42.34	42.45
65	-	-	-	-	-	-	46.02	46.57	46.81

**Mass flow in kg/h**

30	430	665	809	974	1 164	1 381	1 908	-	-
35	-	657	801	966	1 155	1 371	1 897	2 566	-
40	-	648	791	955	1 143	1 359	1 883	2 550	2 944
45	-	637	779	943	1 130	1 344	1 865	2 529	2 922
50	-	-	766	928	1 114	1 327	1 845	2 505	2 896
55	-	-	-	911	1 096	1 307	1 821	2 477	2 866
60	-	-	-	-	1 075	1 284	1 794	2 446	2 832
65	-	-	-	-	-	-	1 764	2 411	2 794

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

30	1.58	2.52	3.08	3.73	4.50	5.43	8.09	-	-
35	-	2.13	2.62	3.17	3.82	4.58	6.64	10.11	-
40	-	1.78	2.20	2.68	3.22	3.85	5.49	8.05	9.99
45	-	1.47	1.83	2.24	2.69	3.22	4.55	6.52	7.91
50	-	-	1.50	1.84	2.23	2.67	3.76	5.30	6.35
55	-	-	-	1.49	1.81	2.18	3.08	4.31	5.12
60	-	-	-	-	1.45	1.75	2.49	3.49	4.13
65	-	-	-	-	-	-	1.98	2.79	3.30

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

Cooling capacity	64 521	W
Power input	20 351	W
Current consumption	35.17	A
Mass flow	1 569	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	82	dB(A)
With acoustic hood	76	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

Cooling capacity in W

30	21 896	34 845	42 990	52 455	63 394	75 961	106 593	-	-
35	-	32 998	40 790	49 832	60 281	72 290	101 611	139 029	-
40	-	31 075	38 474	47 055	56 976	68 390	96 327	132 110	153 333
45	-	29 072	36 040	44 122	53 477	64 261	90 746	124 833	145 120
50	-	-	33 489	41 037	49 791	59 912	84 885	117 228	136 560
55	-	-	-	37 815	45 940	55 371	78 791	109 363	127 736
60	-	-	-	-	41 987	50 715	72 578	101 409	118 852
65	-	-	-	-	-	-	66 562	93 820	110 448

Power input in W

30	12 810	12 841	12 953	13 056	13 095	13 015	12 280	-	-
35	-	14 283	14 377	14 499	14 596	14 612	14 180	12 766	-
40	-	15 944	15 993	16 108	16 235	16 318	16 135	15 120	14 163
45	-	17 869	17 845	17 926	18 055	18 178	18 189	17 517	16 789
50	-	-	19 980	19 997	20 102	20 238	20 386	20 004	19 477
55	-	-	-	22 367	22 419	22 541	22 773	22 624	22 270
60	-	-	-	-	25 053	25 132	25 392	25 423	25 215
65	-	-	-	-	-	-	28 290	28 444	28 354

Current consumption in A

30	25.75	26.24	26.44	26.56	26.56	26.42	25.55	-	-
35	-	27.79	27.98	28.14	28.22	28.20	27.70	26.36	-
40	-	29.65	29.81	29.98	30.11	30.18	29.98	29.11	28.34
45	-	31.92	32.02	32.16	32.31	32.43	32.48	32.02	31.51
50	-	-	34.66	34.74	34.88	35.03	35.26	35.14	34.87
55	-	-	-	37.81	37.90	38.05	38.39	38.56	38.49
60	-	-	-	-	41.45	41.56	41.96	42.34	42.45
65	-	-	-	-	-	-	46.02	46.57	46.81

Mass flow in kg/h

30	428	662	804	968	1 156	1 372	1 894	-	-
35	-	654	796	960	1 147	1 362	1 883	2 546	-
40	-	644	786	949	1 136	1 350	1 869	2 529	2 920
45	-	633	775	937	1 123	1 335	1 852	2 509	2 898
50	-	-	761	922	1 107	1 318	1 831	2 485	2 872
55	-	-	-	906	1 089	1 298	1 808	2 458	2 842
60	-	-	-	-	1 068	1 276	1 781	2 426	2 808
65	-	-	-	-	-	-	1 752	2 392	2 771

Coefficient of performance (C.O.P.)

30	1.71	2.71	3.32	4.02	4.84	5.84	8.68	-	-
35	-	2.31	2.84	3.44	4.13	4.95	7.17	10.89	-
40	-	1.95	2.41	2.92	3.51	4.19	5.97	8.74	10.83
45	-	1.63	2.02	2.46	2.96	3.54	4.99	7.13	8.64
50	-	-	1.68	2.05	2.48	2.96	4.16	5.86	7.01
55	-	-	-	1.69	2.05	2.46	3.46	4.83	5.74
60	-	-	-	-	1.68	2.02	2.86	3.99	4.71
65	-	-	-	-	-	-	2.35	3.30	3.90

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

Cooling capacity	72 254	W
Power input	22 433	W
Current consumption	37.91	A
Mass flow	1 655	kg/h
C.O.P.	3.22	

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	82	dB(A)
With acoustic hood	76	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	24 985	39 159	48 134	58 612	70 779	84 818	119 252	-	-
35	-	36 870	45 396	55 352	66 923	80 291	113 155	155 416	-
40	-	34 497	42 529	51 918	62 847	75 496	106 691	146 964	170 961
45	-	32 055	39 547	48 322	58 561	70 443	99 865	138 036	160 856
50	-	-	36 458	44 570	54 068	65 130	92 665	128 611	150 184
55	-	-	-	40 650	49 351	59 533	85 052	118 620	138 862
60	-	-	-	-	44 349	53 577	76 907	107 891	126 683
65	-	-	-	-	-	-	67 920	95 977	113 115

**Power input in W**

30	15 150	15 313	15 526	15 745	15 911	15 964	15 487	-	-
35	-	16 971	17 157	17 394	17 620	17 777	17 637	16 494	-
40	-	18 892	19 018	19 238	19 492	19 719	19 851	19 152	18 341
45	-	21 130	21 163	21 334	21 581	21 845	22 182	21 863	21 306
50	-	-	23 646	23 734	23 943	24 211	24 687	24 679	24 344
55	-	-	-	26 495	26 631	26 870	27 419	27 658	27 510
60	-	-	-	-	29 701	29 878	30 433	30 852	30 859
65	-	-	-	-	-	-	33 784	34 317	34 446

**Current consumption in A**

30	24.50	25.02	25.26	25.46	25.57	25.58	25.11	-	-
35	-	26.77	27.01	27.25	27.44	27.55	27.45	26.67	-
40	-	28.88	29.08	29.32	29.56	29.76	29.95	29.63	29.20
45	-	31.39	31.53	31.74	31.99	32.25	32.68	32.76	32.60
50	-	-	34.41	34.56	34.80	35.09	35.69	36.11	36.17
55	-	-	-	37.85	38.04	38.32	39.03	39.73	40.00
60	-	-	-	-	41.76	42.01	42.77	43.69	44.12
65	-	-	-	-	-	-	46.96	48.03	48.61

**Mass flow in kg/h**

30	530	806	977	1 173	1 400	1 660	2 294	-	-
35	-	799	969	1 165	1 391	1 650	2 284	3 095	-
40	-	789	958	1 154	1 379	1 638	2 270	3 080	3 560
45	-	778	946	1 140	1 364	1 622	2 252	3 059	3 539
50	-	-	932	1 124	1 347	1 603	2 229	3 034	3 512
55	-	-	-	1 106	1 326	1 580	2 203	3 003	3 479
60	-	-	-	-	1 303	1 554	2 172	2 968	3 442
65	-	-	-	-	-	-	2 137	2 928	3 399

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

30	1.65	2.56	3.10	3.72	4.45	5.31	7.70	-	-
35	-	2.17	2.65	3.18	3.80	4.52	6.42	9.42	-
40	-	1.83	2.24	2.70	3.22	3.83	5.37	7.67	9.32
45	-	1.52	1.87	2.27	2.71	3.22	4.50	6.31	7.55
50	-	-	1.54	1.88	2.26	2.69	3.75	5.21	6.17
55	-	-	-	1.53	1.85	2.22	3.10	4.29	5.05
60	-	-	-	-	1.49	1.79	2.53	3.50	4.11
65	-	-	-	-	-	-	2.01	2.80	3.28

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

Cooling capacity	77 936	W
Power input	24 479	W
Current consumption	35.39	A
Mass flow	1 896	kg/h
C.O.P.	3.18	

**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	86	dB(A)
With acoustic hood	82	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	27 012	42 244	51 874	63 107	76 137	91 160	127 966	-	-
35	-	40 028	49 229	59 962	72 423	86 807	122 124	167 473	-
40	-	37 738	46 465	56 655	68 502	82 202	115 941	159 433	185 323
45	-	35 398	43 607	53 208	64 397	77 368	109 441	150 985	175 797
50	-	-	40 675	49 643	60 129	72 328	102 644	142 153	165 842
55	-	-	-	45 983	55 722	67 103	95 575	132 958	155 480
60	-	-	-	-	51 197	61 717	88 254	123 424	144 733
65	-	-	-	-	-	-	80 705	113 571	133 624

Power input in W

30	15 150	15 313	15 526	15 745	15 911	15 964	15 487	-	-
35	-	16 971	17 157	17 394	17 620	17 777	17 637	16 494	-
40	-	18 892	19 018	19 238	19 492	19 719	19 851	19 152	18 341
45	-	21 130	21 163	21 334	21 581	21 845	22 182	21 863	21 306
50	-	-	23 646	23 734	23 943	24 211	24 687	24 679	24 344
55	-	-	-	26 495	26 631	26 870	27 419	27 658	27 510
60	-	-	-	-	29 701	29 878	30 433	30 852	30 859
65	-	-	-	-	-	-	33 784	34 317	34 446

Current consumption in A

30	24.50	25.02	25.26	25.46	25.57	25.58	25.11	-	-
35	-	26.77	27.01	27.25	27.44	27.55	27.45	26.67	-
40	-	28.88	29.08	29.32	29.56	29.76	29.95	29.63	29.20
45	-	31.39	31.53	31.74	31.99	32.25	32.68	32.76	32.60
50	-	-	34.41	34.56	34.80	35.09	35.69	36.11	36.17
55	-	-	-	37.85	38.04	38.32	39.03	39.73	40.00
60	-	-	-	-	41.76	42.01	42.77	43.69	44.12
65	-	-	-	-	-	-	46.96	48.03	48.61

Mass flow in kg/h

30	527	801	971	1 166	1 391	1 649	2 277	-	-
35	-	794	963	1 158	1 382	1 640	2 268	3 070	-
40	-	785	953	1 147	1 370	1 627	2 254	3 055	3 530
45	-	774	940	1 133	1 356	1 611	2 236	3 035	3 509
50	-	-	926	1 117	1 338	1 592	2 213	3 010	3 482
55	-	-	-	1 099	1 318	1 570	2 187	2 979	3 450
60	-	-	-	-	1 295	1 544	2 157	2 944	3 413
65	-	-	-	-	-	-	2 122	2 904	3 370

Coefficient of performance (C.O.P.)

30	1.78	2.76	3.34	4.01	4.79	5.71	8.26	-	-
35	-	2.36	2.87	3.45	4.11	4.88	6.92	10.15	-
40	-	2.00	2.44	2.94	3.51	4.17	5.84	8.32	10.10
45	-	1.68	2.06	2.49	2.98	3.54	4.93	6.91	8.25
50	-	-	1.72	2.09	2.51	2.99	4.16	5.76	6.81
55	-	-	-	1.74	2.09	2.50	3.49	4.81	5.65
60	-	-	-	-	1.72	2.07	2.90	4.00	4.69
65	-	-	-	-	-	-	2.39	3.31	3.88

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

Cooling capacity	87 567	W
Power input	26 938	W
Current consumption	38.41	A
Mass flow	2 001	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	86	dB(A)
With acoustic hood	82	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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