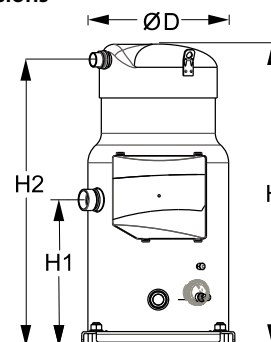


**General Characteristics**

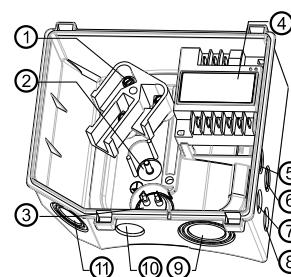
Model number (on compressor nameplate)		<b>DSH240A4AAB</b>
Code number for Singlepack*		120H1119
Code number for Industrial pack**		120H1120
Drawing number		8556089g
Suction and discharge connections		Brazed
Suction connection		1-5/8" ODF
Discharge connection		1-1/8" ODF
Oil sight glass		Threaded
Oil 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	227.6 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	39.6 m <sup>3</sup> /h @ 2900 rpm - 47.8 m <sup>3</sup> /h @ 3500 rpm	
Net weight	108 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	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	342-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.616 Ω
Rated Load Amps (RLA)	36.4 A
Maximum Continuous Current (MCC)	51 A
Locked Rotor Amps (LRA)	215 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

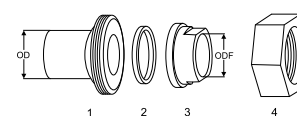
\*\*Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

**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.**

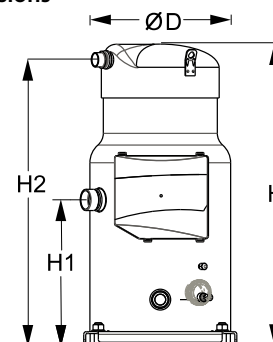
Electronic soft start kit, MCI 50 CM	037N0401
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Acoustic hood for scroll compressor	120Z0022
Acoustic bottom insulation for scroll compressor	120Z0353
Mounting kit for 1 scroll compressor including 4 hexagon 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**

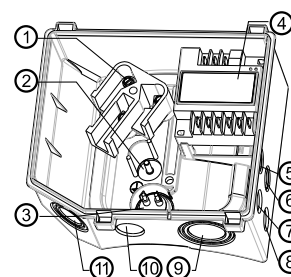
Model number (on compressor nameplate)		<b>DSH240A4ABB</b>
Code number for Singlepack*		120H1121
Code number for Industrial pack**		120H1122
Drawing number		8556089g
Suction and discharge connections		Brazed
Suction connection		1-5/8" ODF
Discharge connection		1-1/8" ODF
Oil sight glass		Threaded
Oil 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	227.6 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	39.6 m <sup>3</sup> /h @ 2900 rpm - 47.8 m <sup>3</sup> /h @ 3500 rpm	
Net weight	108 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	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	342-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.616 Ω
Rated Load Amps (RLA)	36.4 A
Maximum Continuous Current (MCC)	51 A
Locked Rotor Amps (LRA)	215 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

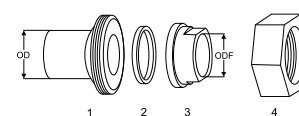
\*\*Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

**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	16 544	26 377	32 580	39 800	48 156	57 769	81 240	-	-
35	-	24 811	30 709	37 567	45 506	54 645	76 999	105 586	-
40	-	23 181	28 740	35 204	42 691	51 323	72 494	99 673	115 815
45	-	21 481	26 668	32 704	39 707	47 798	67 719	93 424	108 743
50	-	-	24 487	30 062	36 547	44 064	62 669	86 832	101 297
55	-	-	-	27 272	33 207	40 117	57 338	79 893	93 469
60	-	-	-	-	29 680	35 949	51 721	72 601	85 256
65	-	-	-	-	-	-	45 812	64 951	76 650

Power input in W

30	10 743	10 726	10 856	10 979	11 021	10 906	9 910	-	-
35	-	11 936	12 031	12 168	12 272	12 269	11 644	9 696	-
40	-	13 362	13 384	13 497	13 626	13 698	13 370	11 915	10 579
45	-	15 054	14 965	15 018	15 136	15 245	15 139	14 103	13 049
50	-	-	16 827	16 782	16 851	16 961	17 003	16 311	15 503
55	-	-	-	18 840	18 823	18 896	19 012	18 590	17 991
60	-	-	-	-	21 104	21 103	21 217	20 992	20 564
65	-	-	-	-	-	-	23 671	23 567	23 274

Current consumption in A

30	21.50	21.91	22.08	22.16	22.11	21.90	20.77	-	-
35	-	23.25	23.41	23.53	23.57	23.49	22.76	21.00	-
40	-	24.88	25.00	25.13	25.22	25.23	24.83	23.58	22.53
45	-	26.87	26.92	27.01	27.12	27.18	27.04	26.23	25.47
50	-	-	29.22	29.24	29.33	29.42	29.45	29.01	28.49
55	-	-	-	31.89	31.91	31.99	32.13	31.98	31.67
60	-	-	-	-	34.94	34.96	35.14	35.20	35.07
65	-	-	-	-	-	-	38.55	38.75	38.76

Mass flow in kg/h

30	351	543	661	796	951	1 128	1 560	-	-
35	-	537	654	789	943	1 120	1 551	2 100	-
40	-	529	646	780	934	1 110	1 540	2 087	2 411
45	-	520	636	769	922	1 098	1 525	2 071	2 394
50	-	-	625	757	909	1 084	1 509	2 051	2 373
55	-	-	-	743	894	1 067	1 489	2 029	2 349
60	-	-	-	-	877	1 049	1 467	2 003	2 321
65	-	-	-	-	-	-	1 443	1 975	2 290

Coefficient of performance (C.O.P.)

30	1.54	2.46	3.00	3.63	4.37	5.30	8.20	-	-
35	-	2.08	2.55	3.09	3.71	4.45	6.61	10.89	-
40	-	1.73	2.15	2.61	3.13	3.75	5.42	8.37	10.95
45	-	1.43	1.78	2.18	2.62	3.14	4.47	6.62	8.33
50	-	-	1.46	1.79	2.17	2.60	3.69	5.32	6.53
55	-	-	-	1.45	1.76	2.12	3.02	4.30	5.20
60	-	-	-	-	1.41	1.70	2.44	3.46	4.15
65	-	-	-	-	-	-	1.94	2.76	3.29

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

Cooling capacity	52 732	W
Power input	17 036	W
Current consumption	29.47	A
Mass flow	1 283	kg/h
C.O.P.	3.10	

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	17 886	28 455	35 111	42 852	51 802	62 089	87 176	-	-
35	-	26 936	33 301	40 696	49 246	59 079	83 102	113 778	-
40	-	25 359	31 400	38 415	46 533	55 881	78 779	108 130	125 544
45	-	23 721	29 405	36 010	43 664	52 497	74 213	102 188	118 844
50	-	-	27 319	33 483	40 645	48 934	69 418	95 975	111 858
55	-	-	-	30 850	37 494	45 218	64 433	89 551	104 655
60	-	-	-	-	34 263	41 410	59 352	83 054	97 404
65	-	-	-	-	-	-	54 435	76 857	90 548

**Power input in W**

30	10 743	10 726	10 856	10 979	11 021	10 906	9 910	-	-
35	-	11 936	12 031	12 168	12 272	12 269	11 644	9 696	-
40	-	13 362	13 384	13 497	13 626	13 698	13 370	11 915	10 579
45	-	15 054	14 965	15 018	15 136	15 245	15 139	14 103	13 049
50	-	-	16 827	16 782	16 851	16 961	17 003	16 311	15 503
55	-	-	-	18 840	18 823	18 896	19 012	18 590	17 991
60	-	-	-	-	21 104	21 103	21 217	20 992	20 564
65	-	-	-	-	-	-	23 671	23 567	23 274

**Current consumption in A**

30	21.50	21.91	22.08	22.16	22.11	21.90	20.77	-	-
35	-	23.25	23.41	23.53	23.57	23.49	22.76	21.00	-
40	-	24.88	25.00	25.13	25.22	25.23	24.83	23.58	22.53
45	-	26.87	26.92	27.01	27.12	27.18	27.04	26.23	25.47
50	-	-	29.22	29.24	29.33	29.42	29.45	29.01	28.49
55	-	-	-	31.89	31.91	31.99	32.13	31.98	31.67
60	-	-	-	-	34.94	34.96	35.14	35.20	35.07
65	-	-	-	-	-	-	38.55	38.75	38.76

**Mass flow in kg/h**

30	349	540	657	791	945	1 121	1 549	-	-
35	-	533	650	784	937	1 113	1 540	2 084	-
40	-	526	642	775	928	1 103	1 528	2 070	2 391
45	-	517	632	764	917	1 091	1 514	2 054	2 373
50	-	-	621	752	903	1 076	1 498	2 035	2 353
55	-	-	-	739	888	1 060	1 478	2 013	2 329
60	-	-	-	-	872	1 042	1 457	1 987	2 301
65	-	-	-	-	-	-	1 432	1 959	2 271

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

30	1.66	2.65	3.23	3.90	4.70	5.69	8.80	-	-
35	-	2.26	2.77	3.34	4.01	4.82	7.14	11.73	-
40	-	1.90	2.35	2.85	3.41	4.08	5.89	9.08	11.87
45	-	1.58	1.96	2.40	2.88	3.44	4.90	7.25	9.11
50	-	-	1.62	2.00	2.41	2.89	4.08	5.88	7.22
55	-	-	-	1.64	1.99	2.39	3.39	4.82	5.82
60	-	-	-	-	1.62	1.96	2.80	3.96	4.74
65	-	-	-	-	-	-	2.30	3.26	3.89

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

Cooling capacity	59 064	W
Power input	18 761	W
Current consumption	31.78	A
Mass flow	1 353	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	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

**Cooling capacity in W**

30	20 183	31 905	39 311	47 944	57 954	69 489	97 732	-	-
35	-	30 035	37 069	45 267	54 779	65 752	92 676	127 227	-
40	-	28 106	34 733	42 462	51 440	61 815	87 342	120 225	139 793
45	-	26 128	32 314	39 538	47 945	57 683	81 735	112 863	131 445
50	-	-	29 815	36 496	44 294	53 355	75 844	105 119	122 663
55	-	-	-	33 326	40 472	48 809	69 633	96 938	113 376
60	-	-	-	-	36 425	43 981	63 004	88 176	103 415
65	-	-	-	-	-	-	55 699	78 466	92 343

**Power input in W**

30	12 713	12 799	13 022	13 243	13 366	13 300	12 224	-	-
35	-	14 187	14 353	14 585	14 790	14 874	14 310	12 145	-
40	-	15 844	15 900	16 091	16 326	16 510	16 353	14 876	13 409
45	-	17 828	17 722	17 822	18 034	18 265	18 413	17 519	16 448
50	-	-	19 879	19 836	19 974	20 201	20 549	20 135	19 409
55	-	-	-	22 192	22 204	22 376	22 822	22 784	22 351
60	-	-	-	-	24 785	24 849	25 289	25 524	25 332
65	-	-	-	-	-	-	28 010	28 415	28 412

**Current consumption in A**

30	20.48	20.91	21.13	21.30	21.36	21.26	20.37	-	-
35	-	22.38	22.61	22.81	22.96	22.99	22.50	20.93	-
40	-	24.16	24.34	24.55	24.74	24.86	24.70	23.64	22.65
45	-	26.31	26.40	26.57	26.77	26.95	27.03	26.41	25.70
50	-	-	28.85	28.94	29.11	29.31	29.56	29.30	28.84
55	-	-	-	31.73	31.83	32.01	32.36	32.37	32.12
60	-	-	-	-	34.99	35.10	35.47	35.69	35.61
65	-	-	-	-	-	-	38.97	39.31	39.37

**Mass flow in kg/h**

30	425	652	792	953	1 138	1 350	1 866	-	-
35	-	646	785	946	1 130	1 342	1 857	2 514	-
40	-	638	777	937	1 120	1 331	1 844	2 500	2 889
45	-	630	767	926	1 109	1 318	1 829	2 482	2 870
50	-	-	757	914	1 095	1 303	1 811	2 461	2 847
55	-	-	-	900	1 080	1 286	1 790	2 436	2 820
60	-	-	-	-	1 062	1 266	1 766	2 408	2 789
65	-	-	-	-	-	-	1 740	2 376	2 755

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

30	1.59	2.49	3.02	3.62	4.34	5.22	8.00	-	-
35	-	2.12	2.58	3.10	3.70	4.42	6.48	10.48	-
40	-	1.77	2.18	2.64	3.15	3.74	5.34	8.08	10.43
45	-	1.47	1.82	2.22	2.66	3.16	4.44	6.44	7.99
50	-	-	1.50	1.84	2.22	2.64	3.69	5.22	6.32
55	-	-	-	1.50	1.82	2.18	3.05	4.25	5.07
60	-	-	-	-	1.47	1.77	2.49	3.45	4.08
65	-	-	-	-	-	-	1.99	2.76	3.25

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

Cooling capacity	63 824	W
Power input	20 424	W
Current consumption	29.48	A
Mass flow	1 541	kg/h
C.O.P.	3.12	

**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	21 821	34 419	42 366	51 620	62 341	74 685	104 874	-	-
35	-	32 608	40 198	49 037	59 281	71 088	100 021	137 097	-
40	-	30 747	37 948	46 336	56 069	67 305	94 915	130 425	151 538
45	-	28 853	35 630	43 535	52 724	63 354	89 573	123 450	143 655
50	-	-	33 263	40 650	49 260	59 252	84 011	116 188	135 452
55	-	-	-	37 698	45 697	55 016	78 248	108 656	126 944
60	-	-	-	-	42 049	50 662	72 300	100 871	118 150
65	-	-	-	-	-	-	66 183	92 850	109 087

Power input in W

30	12 713	12 799	13 022	13 243	13 366	13 300	12 224	-	-
35	-	14 187	14 353	14 585	14 790	14 874	14 310	12 145	-
40	-	15 844	15 900	16 091	16 326	16 510	16 353	14 876	13 409
45	-	17 828	17 722	17 822	18 034	18 265	18 413	17 519	16 448
50	-	-	19 879	19 836	19 974	20 201	20 549	20 135	19 409
55	-	-	-	22 192	22 204	22 376	22 822	22 784	22 351
60	-	-	-	-	24 785	24 849	25 289	25 524	25 332
65	-	-	-	-	-	-	28 010	28 415	28 412

Current consumption in A

30	20.48	20.91	21.13	21.30	21.36	21.26	20.37	-	-
35	-	22.38	22.61	22.81	22.96	22.99	22.50	20.93	-
40	-	24.16	24.34	24.55	24.74	24.86	24.70	23.64	22.65
45	-	26.31	26.40	26.57	26.77	26.95	27.03	26.41	25.70
50	-	-	28.85	28.94	29.11	29.31	29.56	29.30	28.84
55	-	-	-	31.73	31.83	32.01	32.36	32.37	32.12
60	-	-	-	-	34.99	35.10	35.47	35.69	35.61
65	-	-	-	-	-	-	38.97	39.31	39.37

Mass flow in kg/h

30	422	648	787	947	1 130	1 341	1 853	-	-
35	-	642	780	940	1 123	1 333	1 843	2 494	-
40	-	634	772	931	1 113	1 322	1 831	2 480	2 864
45	-	626	763	920	1 102	1 309	1 816	2 463	2 845
50	-	-	752	908	1 088	1 294	1 798	2 441	2 823
55	-	-	-	895	1 073	1 277	1 777	2 417	2 796
60	-	-	-	-	1 056	1 258	1 754	2 389	2 766
65	-	-	-	-	-	-	1 727	2 357	2 732

Coefficient of performance (C.O.P.)

30	1.72	2.69	3.25	3.90	4.66	5.62	8.58	-	-
35	-	2.30	2.80	3.36	4.01	4.78	6.99	11.29	-
40	-	1.94	2.39	2.88	3.43	4.08	5.80	8.77	11.30
45	-	1.62	2.01	2.44	2.92	3.47	4.86	7.05	8.73
50	-	-	1.67	2.05	2.47	2.93	4.09	5.77	6.98
55	-	-	-	1.70	2.06	2.46	3.43	4.77	5.68
60	-	-	-	-	1.70	2.04	2.86	3.95	4.66
65	-	-	-	-	-	-	2.36	3.27	3.84

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

Cooling capacity	71 720	W
Power input	22 437	W
Current consumption	31.93	A
Mass flow	1 627	kg/h
C.O.P.	3.20	

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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