

General Characteristics

Model number (on compressor nameplate)		VLZ035TGNE9A
Code number for Singlepack*		120G0159
Code number for Industrial pack**		120G0161
Drawing number		0VG8213b
Suction and discharge connections		Brazed
Suction connection		3/4 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		Yes
Swept volume		44.5 cm3/rev
Net weight		27 kg
Oil charge		1.63 litre, POE - RL46HB
Maximum number of starts per hour		6
Refrigerant charge limit		3.6 kg
Approved refrigerants		R404A, R448A, R449A

Electrical Characteristics

Nominal voltage	Supply voltage 380-480V/3/50-60Hz
Voltage range	342-528 V supply to frequency converter
Winding resistance (between phases) +/- 7% at 25°C	0.71 Ω
Rated Load Amps (RLA)	8.5 A
Motor protection	Motor protection by frequency converter

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 2 Nm
Mounting bolts	11 Nm

Parts shipped with compressor

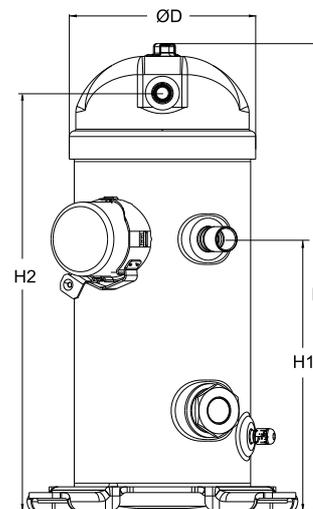
Mounting kit with grommets, bolts, nuts, sleeves and washers
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

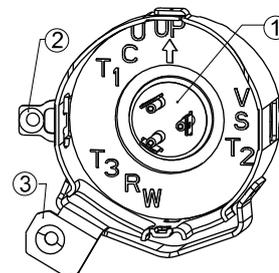
**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Dimensions



D=164.5 mm
H=415.4 mm
H1=241.5 mm
H2=371.4 mm
H3=- mm

Terminal box



IP22

- 1: Power connections
- 2: Earth connection
- 3: EMC bracket with shielded cable

Rotolock accessories, suction side	Code no.
Rotolock adapter (1-1/4" Rotolock, 3/4" ODF)	120Z0366

Rotolock accessories, discharge side	Code no.
Rotolock adapter (1" Rotolock, 1/2" ODF)	120Z0365

Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126

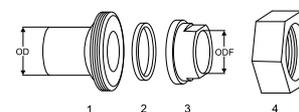
Oil / lubricants	Code no.
POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648

Crankcase heaters	Code no.
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

Miscellaneous accessories	Code no.
Acoustic hood	120Z5083

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 grounding screws	120Z0622
Terminal box cover	120Z5015

Solder sleeve adapter set



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

Performance data at 30 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 320	1 694	2 146	2 686	3 326	-	-	-	-
20	1 246	1 608	2 043	2 562	3 175	3 895	-	-	-
30	-	1 424	1 825	2 301	2 863	3 520	4 285	5 168	-
40	-	-	1 590	2 022	2 530	3 125	3 818	4 620	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	577	586	586	573	545	-	-	-	-
20	625	638	644	640	623	589	-	-	-
30	-	761	773	782	782	770	744	698	-
40	-	-	941	954	963	966	960	939	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.19	1.21	1.22	1.19	1.15	-	-	-	-
20	1.27	1.30	1.31	1.30	1.26	1.21	-	-	-
30	-	1.48	1.50	1.50	1.49	1.46	1.41	1.35	-
40	-	-	1.73	1.74	1.74	1.73	1.71	1.68	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	26	33	41	51	62	-	-	-	-
20	26	33	41	50	61	74	-	-	-
30	-	32	40	49	60	73	87	104	-
40	-	-	38	48	59	71	86	102	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.29	2.89	3.66	4.69	6.11	-	-	-	-
20	1.99	2.52	3.17	4.00	5.10	6.61	-	-	-
30	-	1.87	2.36	2.94	3.66	4.57	5.76	7.41	-
40	-	-	1.69	2.12	2.63	3.23	3.98	4.92	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 30 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 321	1 693	2 141	2 677	3 313	-	-	-	-
20	1 254	1 614	2 047	2 562	3 172	3 887	-	-	-
30	-	1 448	1 848	2 321	2 877	3 529	4 288	5 168	-
40	-	-	1 630	2 060	2 562	3 149	3 831	4 620	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	577	586	586	573	545	-	-	-	-
20	625	638	644	640	623	589	-	-	-
30	-	761	773	782	782	770	744	698	-
40	-	-	941	954	963	966	960	939	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.19	1.21	1.22	1.19	1.15	-	-	-	-
20	1.27	1.30	1.31	1.30	1.26	1.21	-	-	-
30	-	1.48	1.50	1.50	1.49	1.46	1.41	1.35	-
40	-	-	1.73	1.74	1.74	1.73	1.71	1.68	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	22	29	37	46	57	-	-	-	-
20	22	29	36	46	57	70	-	-	-
30	-	28	35	45	56	69	85	104	-
40	-	-	34	44	55	68	84	102	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.29	2.89	3.66	4.67	6.08	-	-	-	-
20	2.00	2.53	3.18	4.00	5.09	6.60	-	-	-
30	-	1.90	2.39	2.97	3.68	4.58	5.77	7.41	-
40	-	-	1.73	2.16	2.66	3.26	3.99	4.92	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 35 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 565	2 007	2 537	3 165	3 904	-	-	-	-
20	1 475	1 904	2 416	3 022	3 734	4 562	-	-	-
30	-	1 686	2 160	2 719	3 373	4 134	5 014	6 023	-
40	-	-	1 881	2 389	2 983	3 675	4 475	5 394	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	665	683	688	678	647	-	-	-	-
20	719	741	754	755	738	699	-	-	-
30	-	882	903	917	919	907	874	818	-
40	-	-	1 097	1 115	1 128	1 131	1 120	1 092	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.39	1.42	1.43	1.41	1.35	-	-	-	-
20	1.42	1.46	1.48	1.46	1.42	1.36	-	-	-
30	-	1.65	1.67	1.67	1.65	1.62	1.56	1.49	-
40	-	-	1.97	1.98	1.98	1.96	1.93	1.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	31	39	49	60	72	-	-	-	-
20	30	39	48	59	72	87	-	-	-
30	-	37	47	58	71	86	102	121	-
40	-	-	45	57	69	84	101	120	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.35	2.94	3.69	4.67	6.03	-	-	-	-
20	2.05	2.57	3.20	4.01	5.06	6.52	-	-	-
30	-	1.91	2.39	2.97	3.67	4.56	5.74	7.36	-
40	-	-	1.71	2.14	2.65	3.25	3.99	4.94	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 35 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 566	2 005	2 531	3 155	3 889	-	-	-	-
20	1 485	1 912	2 421	3 023	3 730	4 553	-	-	-
30	-	1 714	2 187	2 742	3 390	4 144	5 016	6 023	-
40	-	-	1 928	2 434	3 022	3 703	4 489	5 394	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	665	683	688	678	647	-	-	-	-
20	719	741	754	755	738	699	-	-	-
30	-	882	903	917	919	907	874	818	-
40	-	-	1 097	1 115	1 128	1 131	1 120	1 092	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.39	1.42	1.43	1.41	1.35	-	-	-	-
20	1.42	1.46	1.48	1.46	1.42	1.36	-	-	-
30	-	1.65	1.67	1.67	1.65	1.62	1.56	1.49	-
40	-	-	1.97	1.98	1.98	1.96	1.93	1.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	27	34	43	54	67	-	-	-	-
20	26	34	43	54	67	82	-	-	-
30	-	33	42	53	66	81	100	121	-
40	-	-	41	52	64	80	98	120	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.35	2.94	3.68	4.65	6.01	-	-	-	-
20	2.07	2.58	3.21	4.01	5.06	6.51	-	-	-
30	-	1.94	2.42	2.99	3.69	4.57	5.74	7.36	-
40	-	-	1.76	2.18	2.68	3.27	4.01	4.94	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 40 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 807	2 316	2 923	3 640	4 480	-	-	-	-
20	1 703	2 198	2 786	3 478	4 288	5 227	-	-	-
30	-	1 946	2 491	3 131	3 878	4 744	5 740	6 880	-
40	-	-	2 170	2 753	3 432	4 220	5 128	6 169	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	757	783	794	786	754	-	-	-	-
20	817	849	869	873	856	814	-	-	-
30	-	1 006	1 036	1 055	1 061	1 047	1 011	946	-
40	-	-	1 256	1 280	1 296	1 300	1 287	1 252	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.58	1.63	1.64	1.61	1.56	-	-	-	-
20	1.58	1.63	1.65	1.63	1.59	1.52	-	-	-
30	-	1.82	1.85	1.85	1.83	1.78	1.72	1.63	-
40	-	-	2.21	2.22	2.21	2.19	2.15	2.10	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	36	45	56	69	83	-	-	-	-
20	35	44	55	68	83	99	-	-	-
30	-	43	54	67	82	98	117	139	-
40	-	-	52	65	80	96	115	137	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.39	2.96	3.68	4.63	5.94	-	-	-	-
20	2.08	2.59	3.21	3.99	5.01	6.42	-	-	-
30	-	1.93	2.41	2.97	3.66	4.53	5.68	7.27	-
40	-	-	1.73	2.15	2.65	3.25	3.99	4.93	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic 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 40 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 808	2 314	2 917	3 629	4 463	-	-	-	-
20	1 714	2 207	2 791	3 479	4 283	5 217	-	-	-
30	-	1 977	2 522	3 158	3 898	4 755	5 744	6 880	-
40	-	-	2 225	2 805	3 477	4 253	5 145	6 169	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	757	783	794	786	754	-	-	-	-
20	817	849	869	873	856	814	-	-	-
30	-	1 006	1 036	1 055	1 061	1 047	1 011	946	-
40	-	-	1 256	1 280	1 296	1 300	1 287	1 252	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.58	1.63	1.64	1.61	1.56	-	-	-	-
20	1.58	1.63	1.65	1.63	1.59	1.52	-	-	-
30	-	1.82	1.85	1.85	1.83	1.78	1.72	1.63	-
40	-	-	2.21	2.22	2.21	2.19	2.15	2.10	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	31	39	50	62	77	-	-	-	-
20	30	39	50	62	77	94	-	-	-
30	-	38	48	61	76	93	114	139	-
40	-	-	47	59	74	92	112	137	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.39	2.95	3.67	4.62	5.92	-	-	-	-
20	2.10	2.60	3.21	3.99	5.00	6.41	-	-	-
30	-	1.96	2.43	2.99	3.68	4.54	5.68	7.27	-
40	-	-	1.77	2.19	2.68	3.27	4.00	4.93	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 45 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 046	2 621	3 305	4 112	5 053	-	-	-	-
20	1 928	2 488	3 150	3 930	4 839	5 891	-	-	-
30	-	2 203	2 818	3 539	4 378	5 350	6 465	7 739	-
40	-	-	2 457	3 114	3 877	4 762	5 779	6 944	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	854	887	904	898	866	-	-	-	-
20	920	960	987	995	979	935	-	-	-
30	-	1 135	1 172	1 197	1 206	1 193	1 153	1 081	-
40	-	-	1 418	1 448	1 468	1 473	1 458	1 419	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.77	1.82	1.84	1.81	1.76	-	-	-	-
20	1.74	1.80	1.82	1.81	1.76	1.68	-	-	-
30	-	2.00	2.03	2.03	2.01	1.96	1.88	1.79	-
40	-	-	2.45	2.46	2.45	2.42	2.38	2.32	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	40	51	63	77	94	-	-	-	-
20	40	50	63	77	93	112	-	-	-
30	-	49	61	76	92	111	132	156	-
40	-	-	59	74	90	109	130	154	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.40	2.95	3.66	4.58	5.84	-	-	-	-
20	2.10	2.59	3.19	3.95	4.94	6.30	-	-	-
30	-	1.94	2.40	2.96	3.63	4.49	5.61	7.16	-
40	-	-	1.73	2.15	2.64	3.23	3.96	4.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic 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 45 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 047	2 619	3 298	4 098	5 034	-	-	-	-
20	1 941	2 498	3 157	3 930	4 833	5 880	-	-	-
30	-	2 239	2 853	3 569	4 401	5 362	6 469	7 739	-
40	-	-	2 519	3 172	3 928	4 798	5 798	6 944	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	854	887	904	898	866	-	-	-	-
20	920	960	987	995	979	935	-	-	-
30	-	1 135	1 172	1 197	1 206	1 193	1 153	1 081	-
40	-	-	1 418	1 448	1 468	1 473	1 458	1 419	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.77	1.82	1.84	1.81	1.76	-	-	-	-
20	1.74	1.80	1.82	1.81	1.76	1.68	-	-	-
30	-	2.00	2.03	2.03	2.01	1.96	1.88	1.79	-
40	-	-	2.45	2.46	2.45	2.42	2.38	2.32	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	35	45	56	71	87	-	-	-	-
20	34	44	56	70	87	106	-	-	-
30	-	43	55	69	86	105	128	156	-
40	-	-	53	67	84	103	127	154	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.40	2.95	3.65	4.56	5.81	-	-	-	-
20	2.11	2.60	3.20	3.95	4.94	6.29	-	-	-
30	-	1.97	2.43	2.98	3.65	4.50	5.61	7.16	-
40	-	-	1.78	2.19	2.68	3.26	3.98	4.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	2 923	3 683	4 579	5 625	-	-	-	-
20	-	2 774	3 510	4 376	5 385	6 553	-	-	-
30	-	2 458	3 141	3 942	4 873	5 951	7 189	8 602	-
40	-	2 118	2 742	3 471	4 318	5 299	6 428	7 719	-
50	-	-	-	2 963	3 720	4 597	5 610	6 774	-
60	-	-	-	-	3 078	3 846	4 737	5 766	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	996	1 017	1 014	982	-	-	-	-
20	-	1 076	1 108	1 120	1 106	1 060	-	-	-
30	-	1 268	1 313	1 343	1 355	1 343	1 301	1 224	-
40	-	1 541	1 583	1 619	1 643	1 650	1 635	1 593	-
50	-	-	-	1 991	2 014	2 027	2 025	2 003	-
60	-	-	-	-	2 513	2 518	2 515	2 500	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.01	2.03	2.01	1.95	-	-	-	-
20	-	1.96	1.99	1.98	1.93	1.85	-	-	-
30	-	2.18	2.21	2.22	2.19	2.14	2.06	1.96	-
40	-	2.64	2.68	2.69	2.69	2.66	2.61	2.55	-
50	-	-	-	3.22	3.22	3.22	3.20	3.17	-
60	-	-	-	-	3.62	3.63	3.64	3.64	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	57	70	86	104	-	-	-	-
20	-	56	70	86	104	125	-	-	-
30	-	54	68	84	102	123	147	173	-
40	-	52	66	82	100	121	145	171	-
50	-	-	-	79	97	118	142	168	-
60	-	-	-	-	94	114	138	164	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.94	3.62	4.51	5.73	-	-	-	-
20	-	2.58	3.17	3.91	4.87	6.18	-	-	-
30	-	1.94	2.39	2.93	3.60	4.43	5.53	7.03	-
40	-	1.37	1.73	2.14	2.63	3.21	3.93	4.85	-
50	-	-	-	1.49	1.85	2.27	2.77	3.38	-
60	-	-	-	-	1.22	1.53	1.88	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 221	W
Power input	1 790	W
Current consumption	2.96	A
Mass flow	81	kg/h
C.O.P.	1.80	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	2 920	3 675	4 564	5 603	-	-	-	-
20	-	2 785	3 517	4 377	5 379	6 541	-	-	-
30	-	2 498	3 180	3 975	4 898	5 965	7 193	8 602	-
40	-	-	2 811	3 536	4 374	5 340	6 449	7 719	-
50	-	-	-	3 060	3 807	4 665	5 649	6 774	-
60	-	-	-	-	-	3 941	4 794	5 766	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	996	1 017	1 014	982	-	-	-	-
20	-	1 076	1 108	1 120	1 106	1 060	-	-	-
30	-	1 268	1 313	1 343	1 355	1 343	1 301	1 224	-
40	-	-	1 583	1 619	1 643	1 650	1 635	1 593	-
50	-	-	-	1 991	2 014	2 027	2 025	2 003	-
60	-	-	-	-	-	2 518	2 515	2 500	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.01	2.03	2.01	1.95	-	-	-	-
20	-	1.96	1.99	1.98	1.93	1.85	-	-	-
30	-	2.18	2.21	2.22	2.19	2.14	2.06	1.96	-
40	-	-	2.68	2.69	2.69	2.66	2.61	2.55	-
50	-	-	-	3.22	3.22	3.22	3.20	3.17	-
60	-	-	-	-	-	3.63	3.64	3.64	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	50	63	79	97	-	-	-	-
20	-	49	62	78	97	118	-	-	-
30	-	48	61	77	95	117	143	173	-
40	-	-	59	75	93	115	141	171	-
50	-	-	-	72	91	112	138	168	-
60	-	-	-	-	-	109	134	164	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.93	3.61	4.50	5.71	-	-	-	-
20	-	2.59	3.17	3.91	4.86	6.17	-	-	-
30	-	1.97	2.42	2.96	3.61	4.44	5.53	7.03	-
40	-	-	1.78	2.18	2.66	3.24	3.94	4.85	-
50	-	-	-	1.54	1.89	2.30	2.79	3.38	-
60	-	-	-	-	-	1.57	1.91	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 303	W
Power input	1 790	W
Current consumption	2.96	A
Mass flow	74	kg/h
C.O.P.	1.85	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 55 Hz, EN 12900 rating conditions

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 221	4 057	5 042	6 194	-	-	-	-
20	-	3 057	3 865	4 817	5 928	7 214	-	-	-
30	-	2 711	3 461	4 339	5 363	6 548	7 911	9 467	-
40	-	2 340	3 025	3 824	4 754	5 832	7 073	8 494	-
50	-	-	-	3 271	4 102	5 065	6 179	7 458	-
60	-	-	-	-	3 404	4 247	5 226	6 357	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 108	1 134	1 134	1 102	-	-	-	-
20	-	1 195	1 234	1 249	1 237	1 190	-	-	-
30	-	1 405	1 456	1 493	1 508	1 497	1 455	1 375	-
40	-	1 701	1 751	1 793	1 821	1 831	1 817	1 773	-
50	-	-	-	2 197	2 225	2 241	2 241	2 218	-
60	-	-	-	-	2 766	2 774	2 773	2 757	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.19	2.22	2.20	2.14	-	-	-	-
20	-	2.13	2.17	2.16	2.11	2.02	-	-	-
30	-	2.36	2.40	2.41	2.39	2.33	2.25	2.14	-
40	-	2.87	2.91	2.93	2.92	2.90	2.85	2.78	-
50	-	-	-	3.49	3.50	3.50	3.48	3.46	-
60	-	-	-	-	3.91	3.93	3.94	3.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	63	78	95	115	-	-	-	-
20	-	62	77	94	114	137	-	-	-
30	-	60	75	93	113	136	161	191	-
40	-	58	73	90	111	133	159	188	-
50	-	-	-	87	107	130	156	185	-
60	-	-	-	-	104	126	152	181	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.91	3.58	4.45	5.62	-	-	-	-
20	-	2.56	3.13	3.86	4.79	6.06	-	-	-
30	-	1.93	2.38	2.91	3.56	4.37	5.44	6.89	-
40	-	1.38	1.73	2.13	2.61	3.18	3.89	4.79	-
50	-	-	-	1.49	1.84	2.26	2.76	3.36	-
60	-	-	-	-	1.23	1.53	1.88	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 552	W
Power input	1 979	W
Current consumption	3.22	A
Mass flow	89	kg/h
C.O.P.	1.80	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 55 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 218	4 047	5 026	6 170	-	-	-	-
20	-	3 069	3 874	4 818	5 921	7 200	-	-	-
30	-	2 755	3 503	4 376	5 390	6 563	7 915	9 467	-
40	-	-	3 101	3 896	4 816	5 877	7 096	8 494	-
50	-	-	-	3 378	4 198	5 140	6 221	7 458	-
60	-	-	-	-	-	4 352	5 288	6 357	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 108	1 134	1 134	1 102	-	-	-	-
20	-	1 195	1 234	1 249	1 237	1 190	-	-	-
30	-	1 405	1 456	1 493	1 508	1 497	1 455	1 375	-
40	-	-	1 751	1 793	1 821	1 831	1 817	1 773	-
50	-	-	-	2 197	2 225	2 241	2 241	2 218	-
60	-	-	-	-	-	2 774	2 773	2 757	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.19	2.22	2.20	2.14	-	-	-	-
20	-	2.13	2.17	2.16	2.11	2.02	-	-	-
30	-	2.36	2.40	2.41	2.39	2.33	2.25	2.14	-
40	-	-	2.91	2.93	2.92	2.90	2.85	2.78	-
50	-	-	-	3.49	3.50	3.50	3.48	3.46	-
60	-	-	-	-	-	3.93	3.94	3.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	55	69	86	107	-	-	-	-
20	-	54	69	86	106	130	-	-	-
30	-	53	67	85	105	129	157	191	-
40	-	-	65	82	103	127	155	188	-
50	-	-	-	80	100	124	152	185	-
60	-	-	-	-	-	120	148	181	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.90	3.57	4.43	5.60	-	-	-	-
20	-	2.57	3.14	3.86	4.79	6.05	-	-	-
30	-	1.96	2.41	2.93	3.57	4.38	5.44	6.89	-
40	-	-	1.77	2.17	2.64	3.21	3.90	4.79	-
50	-	-	-	1.54	1.89	2.29	2.78	3.36	-
60	-	-	-	-	-	1.57	1.91	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 642	W
Power input	1 979	W
Current consumption	3.22	A
Mass flow	81	kg/h
C.O.P.	1.84	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 515	4 426	5 501	6 760	-	-	-	-
20	-	3 336	4 216	5 253	6 466	7 872	-	-	-
30	-	2 961	3 776	4 732	5 847	7 141	8 631	10 335	-
40	-	2 563	3 306	4 174	5 187	6 361	7 716	9 270	-
50	-	-	-	3 579	4 482	5 531	6 745	8 143	-
60	-	-	-	-	3 730	4 649	5 716	6 951	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 224	1 255	1 258	1 227	-	-	-	-
20	-	1 319	1 363	1 382	1 372	1 326	-	-	-
30	-	1 546	1 604	1 646	1 665	1 656	1 614	1 532	-
40	-	1 865	1 922	1 970	2 003	2 017	2 005	1 961	-
50	-	-	-	2 405	2 438	2 458	2 461	2 440	-
60	-	-	-	-	3 018	3 030	3 032	3 018	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.36	2.40	2.38	2.32	-	-	-	-
20	-	2.30	2.34	2.34	2.29	2.20	-	-	-
30	-	2.55	2.60	2.61	2.59	2.53	2.45	2.33	-
40	-	3.09	3.14	3.16	3.16	3.13	3.09	3.02	-
50	-	-	-	3.76	3.78	3.78	3.77	3.75	-
60	-	-	-	-	4.21	4.23	4.25	4.27	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	68	85	104	125	-	-	-	-
20	-	68	84	103	125	150	-	-	-
30	-	66	82	101	123	148	176	208	-
40	-	63	80	99	121	145	174	205	-
50	-	-	-	96	117	142	170	202	-
60	-	-	-	-	113	138	166	198	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.87	3.53	4.37	5.51	-	-	-	-
20	-	2.53	3.09	3.80	4.71	5.94	-	-	-
30	-	1.92	2.35	2.88	3.51	4.31	5.35	6.74	-
40	-	1.37	1.72	2.12	2.59	3.15	3.85	4.73	-
50	-	-	-	1.49	1.84	2.25	2.74	3.34	-
60	-	-	-	-	1.24	1.53	1.89	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 881	W
Power input	2 170	W
Current consumption	3.47	A
Mass flow	97	kg/h
C.O.P.	1.79	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 512	4 416	5 484	6 735	-	-	-	-
20	-	3 350	4 225	5 255	6 459	7 858	-	-	-
30	-	3 010	3 822	4 772	5 877	7 157	8 635	10 335	-
40	-	-	3 389	4 253	5 254	6 410	7 741	9 270	-
50	-	-	-	3 696	4 587	5 613	6 792	8 143	-
60	-	-	-	-	-	4 764	5 785	6 951	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 224	1 255	1 258	1 227	-	-	-	-
20	-	1 319	1 363	1 382	1 372	1 326	-	-	-
30	-	1 546	1 604	1 646	1 665	1 656	1 614	1 532	-
40	-	-	1 922	1 970	2 003	2 017	2 005	1 961	-
50	-	-	-	2 405	2 438	2 458	2 461	2 440	-
60	-	-	-	-	-	3 030	3 032	3 018	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.36	2.40	2.38	2.32	-	-	-	-
20	-	2.30	2.34	2.34	2.29	2.20	-	-	-
30	-	2.55	2.60	2.61	2.59	2.53	2.45	2.33	-
40	-	-	3.14	3.16	3.16	3.13	3.09	3.02	-
50	-	-	-	3.76	3.78	3.78	3.77	3.75	-
60	-	-	-	-	-	4.23	4.25	4.27	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	60	76	94	117	-	-	-	-
20	-	59	75	94	116	142	-	-	-
30	-	58	73	92	114	141	172	208	-
40	-	-	71	90	112	138	169	205	-
50	-	-	-	87	109	135	166	202	-
60	-	-	-	-	-	131	162	198	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.87	3.52	4.36	5.49	-	-	-	-
20	-	2.54	3.10	3.80	4.71	5.93	-	-	-
30	-	1.95	2.38	2.90	3.53	4.32	5.35	6.74	-
40	-	-	1.76	2.16	2.62	3.18	3.86	4.73	-
50	-	-	-	1.54	1.88	2.28	2.76	3.34	-
60	-	-	-	-	-	1.57	1.91	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 979	W
Power input	2 170	W
Current consumption	3.47	A
Mass flow	89	kg/h
C.O.P.	1.83	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 65 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 806	4 791	5 957	7 325	-	-	-	-
20	-	3 612	4 562	5 685	7 000	8 530	-	-	-
30	-	3 210	4 087	5 119	6 326	7 729	9 349	11 206	-
40	-	2 785	3 585	4 521	5 614	6 886	8 356	10 046	-
50	-	-	-	3 885	4 860	5 995	7 311	8 829	-
60	-	-	-	-	4 058	5 051	6 208	7 549	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 343	1 379	1 385	1 356	-	-	-	-
20	-	1 446	1 495	1 519	1 511	1 466	-	-	-
30	-	1 691	1 755	1 802	1 826	1 820	1 780	1 698	-
40	-	2 032	2 095	2 150	2 189	2 207	2 198	2 156	-
50	-	-	-	2 613	2 653	2 679	2 685	2 667	-
60	-	-	-	-	3 268	3 286	3 294	3 284	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.52	2.57	2.56	2.51	-	-	-	-
20	-	2.47	2.52	2.52	2.48	2.39	-	-	-
30	-	2.74	2.79	2.81	2.79	2.74	2.65	2.53	-
40	-	3.31	3.36	3.39	3.40	3.38	3.33	3.27	-
50	-	-	-	4.03	4.05	4.06	4.05	4.04	-
60	-	-	-	-	4.50	4.54	4.57	4.60	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	74	92	112	136	-	-	-	-
20	-	73	91	111	135	162	-	-	-
30	-	71	89	109	133	160	191	226	-
40	-	68	86	107	131	157	188	223	-
50	-	-	-	104	127	154	185	219	-
60	-	-	-	-	123	150	180	215	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.83	3.47	4.30	5.40	-	-	-	-
20	-	2.50	3.05	3.74	4.63	5.82	-	-	-
30	-	1.90	2.33	2.84	3.47	4.25	5.25	6.60	-
40	-	1.37	1.71	2.10	2.56	3.12	3.80	4.66	-
50	-	-	-	1.49	1.83	2.24	2.72	3.31	-
60	-	-	-	-	1.24	1.54	1.88	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 208	W
Power input	2 364	W
Current consumption	3.72	A
Mass flow	105	kg/h
C.O.P.	1.78	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 65 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 802	4 780	5 938	7 297	-	-	-	-
20	-	3 627	4 572	5 686	6 992	8 514	-	-	-
30	-	3 262	4 137	5 162	6 358	7 747	9 354	11 206	-
40	-	-	3 675	4 606	5 687	6 939	8 383	10 046	-
50	-	-	-	4 012	4 974	6 083	7 361	8 829	-
60	-	-	-	-	-	5 176	6 282	7 549	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 343	1 379	1 385	1 356	-	-	-	-
20	-	1 446	1 495	1 519	1 511	1 466	-	-	-
30	-	1 691	1 755	1 802	1 826	1 820	1 780	1 698	-
40	-	-	2 095	2 150	2 189	2 207	2 198	2 156	-
50	-	-	-	2 613	2 653	2 679	2 685	2 667	-
60	-	-	-	-	-	3 286	3 294	3 284	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.52	2.57	2.56	2.51	-	-	-	-
20	-	2.47	2.52	2.52	2.48	2.39	-	-	-
30	-	2.74	2.79	2.81	2.79	2.74	2.65	2.53	-
40	-	-	3.36	3.39	3.40	3.38	3.33	3.27	-
50	-	-	-	4.03	4.05	4.06	4.05	4.04	-
60	-	-	-	-	-	4.54	4.57	4.60	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	65	82	102	126	-	-	-	-
20	-	64	81	101	126	154	-	-	-
30	-	62	79	100	124	152	186	226	-
40	-	-	77	97	121	150	183	223	-
50	-	-	-	95	118	147	180	219	-
60	-	-	-	-	-	143	176	215	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.83	3.47	4.29	5.38	-	-	-	-
20	-	2.51	3.06	3.74	4.63	5.81	-	-	-
30	-	1.93	2.36	2.86	3.48	4.26	5.26	6.60	-
40	-	-	1.75	2.14	2.60	3.14	3.81	4.66	-
50	-	-	-	1.54	1.87	2.27	2.74	3.31	-
60	-	-	-	-	-	1.58	1.91	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 314	W
Power input	2 364	W
Current consumption	3.72	A
Mass flow	96	kg/h
C.O.P.	1.83	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 70 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 093	5 151	6 408	7 887	-	-	-	-
20	-	3 884	4 904	6 112	7 531	9 185	-	-	-
30	-	3 456	4 395	5 502	6 800	8 314	10 066	12 080	-
40	-	3 007	3 862	4 864	6 038	7 406	8 994	10 823	-
50	-	-	-	4 190	5 236	6 456	7 875	9 515	-
60	-	-	-	-	4 386	5 454	6 701	8 149	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 467	1 506	1 516	1 489	-	-	-	-
20	-	1 578	1 631	1 659	1 654	1 612	-	-	-
30	-	1 841	1 910	1 962	1 990	1 988	1 951	1 871	-
40	-	2 201	2 272	2 333	2 378	2 401	2 396	2 357	-
50	-	-	-	2 823	2 869	2 902	2 914	2 901	-
60	-	-	-	-	3 517	3 543	3 557	3 554	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.68	2.74	2.74	2.68	-	-	-	-
20	-	2.64	2.70	2.71	2.67	2.58	-	-	-
30	-	2.93	2.99	3.02	3.01	2.96	2.87	2.75	-
40	-	3.53	3.59	3.62	3.63	3.62	3.58	3.52	-
50	-	-	-	4.28	4.31	4.33	4.34	4.33	-
60	-	-	-	-	4.81	4.86	4.90	4.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	80	99	121	146	-	-	-	-
20	-	79	98	120	145	175	-	-	-
30	-	77	96	118	143	172	205	243	-
40	-	74	93	115	140	169	202	240	-
50	-	-	-	112	137	166	199	236	-
60	-	-	-	-	133	162	195	232	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.79	3.42	4.23	5.30	-	-	-	-
20	-	2.46	3.01	3.68	4.55	5.70	-	-	-
30	-	1.88	2.30	2.80	3.42	4.18	5.16	6.46	-
40	-	1.37	1.70	2.08	2.54	3.08	3.75	4.59	-
50	-	-	-	1.48	1.82	2.22	2.70	3.28	-
60	-	-	-	-	1.25	1.54	1.88	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 532	W
Power input	2 560	W
Current consumption	3.96	A
Mass flow	114	kg/h
C.O.P.	1.77	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 70 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 089	5 140	6 388	7 857	-	-	-	-
20	-	3 900	4 914	6 113	7 522	9 168	-	-	-
30	-	3 512	4 449	5 548	6 835	8 333	10 071	12 080	-
40	-	-	3 959	4 956	6 116	7 463	9 023	10 823	-
50	-	-	-	4 327	5 358	6 551	7 929	9 515	-
60	-	-	-	-	-	5 590	6 781	8 149	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 467	1 506	1 516	1 489	-	-	-	-
20	-	1 578	1 631	1 659	1 654	1 612	-	-	-
30	-	1 841	1 910	1 962	1 990	1 988	1 951	1 871	-
40	-	-	2 272	2 333	2 378	2 401	2 396	2 357	-
50	-	-	-	2 823	2 869	2 902	2 914	2 901	-
60	-	-	-	-	-	3 543	3 557	3 554	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.68	2.74	2.74	2.68	-	-	-	-
20	-	2.64	2.70	2.71	2.67	2.58	-	-	-
30	-	2.93	2.99	3.02	3.01	2.96	2.87	2.75	-
40	-	-	3.59	3.62	3.63	3.62	3.58	3.52	-
50	-	-	-	4.28	4.31	4.33	4.34	4.33	-
60	-	-	-	-	-	4.86	4.90	4.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	70	88	110	136	-	-	-	-
20	-	69	87	109	135	166	-	-	-
30	-	67	85	107	133	164	200	243	-
40	-	-	83	105	131	161	197	240	-
50	-	-	-	102	128	158	194	236	-
60	-	-	-	-	-	154	190	232	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.79	3.41	4.21	5.28	-	-	-	-
20	-	2.47	3.01	3.69	4.55	5.69	-	-	-
30	-	1.91	2.33	2.83	3.43	4.19	5.16	6.46	-
40	-	-	1.74	2.12	2.57	3.11	3.77	4.59	-
50	-	-	-	1.53	1.87	2.26	2.72	3.28	-
60	-	-	-	-	-	1.58	1.91	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 646	W
Power input	2 560	W
Current consumption	3.96	A
Mass flow	104	kg/h
C.O.P.	1.82	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 75 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 376	5 508	6 856	8 446	-	-	-	-
20	-	4 153	5 241	6 533	8 057	9 839	-	-	-
30	-	3 700	4 699	5 879	7 269	8 894	10 781	12 956	-
40	-	3 229	4 137	5 204	6 457	7 923	9 628	11 600	-
50	-	-	-	4 494	5 610	6 915	8 437	10 202	-
60	-	-	-	-	4 715	5 858	7 195	8 753	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 595	1 638	1 651	1 627	-	-	-	-
20	-	1 713	1 771	1 802	1 802	1 762	-	-	-
30	-	1 994	2 069	2 126	2 159	2 161	2 128	2 051	-
40	-	2 374	2 452	2 519	2 571	2 599	2 600	2 566	-
50	-	-	-	3 034	3 088	3 128	3 148	3 141	-
60	-	-	-	-	3 764	3 799	3 823	3 828	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.83	2.89	2.90	2.85	-	-	-	-
20	-	2.81	2.88	2.90	2.86	2.77	-	-	-
30	-	3.13	3.20	3.23	3.23	3.18	3.10	2.97	-
40	-	3.74	3.81	3.85	3.87	3.87	3.84	3.78	-
50	-	-	-	4.54	4.58	4.61	4.63	4.63	-
60	-	-	-	-	5.12	5.18	5.24	5.31	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	85	105	129	157	-	-	-	-
20	-	84	104	128	155	187	-	-	-
30	-	82	102	126	153	184	220	261	-
40	-	79	100	123	150	181	217	257	-
50	-	-	-	120	147	178	213	253	-
60	-	-	-	-	143	174	209	249	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.74	3.36	4.15	5.19	-	-	-	-
20	-	2.42	2.96	3.62	4.47	5.58	-	-	-
30	-	1.86	2.27	2.77	3.37	4.11	5.07	6.32	-
40	-	1.36	1.69	2.07	2.51	3.05	3.70	4.52	-
50	-	-	-	1.48	1.82	2.21	2.68	3.25	-
60	-	-	-	-	1.25	1.54	1.88	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 854	W
Power input	2 758	W
Current consumption	4.20	A
Mass flow	122	kg/h
C.O.P.	1.76	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 75 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 372	5 496	6 834	8 414	-	-	-	-
20	-	4 170	5 251	6 535	8 048	9 821	-	-	-
30	-	3 760	4 756	5 929	7 306	8 915	10 786	12 956	-
40	-	-	4 241	5 302	6 541	7 984	9 660	11 600	-
50	-	-	-	4 642	5 741	7 017	8 495	10 202	-
60	-	-	-	-	-	6 004	7 281	8 753	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 595	1 638	1 651	1 627	-	-	-	-
20	-	1 713	1 771	1 802	1 802	1 762	-	-	-
30	-	1 994	2 069	2 126	2 159	2 161	2 128	2 051	-
40	-	-	2 452	2 519	2 571	2 599	2 600	2 566	-
50	-	-	-	3 034	3 088	3 128	3 148	3 141	-
60	-	-	-	-	-	3 799	3 823	3 828	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.83	2.89	2.90	2.85	-	-	-	-
20	-	2.81	2.88	2.90	2.86	2.77	-	-	-
30	-	3.13	3.20	3.23	3.23	3.18	3.10	2.97	-
40	-	-	3.81	3.85	3.87	3.87	3.84	3.78	-
50	-	-	-	4.54	4.58	4.61	4.63	4.63	-
60	-	-	-	-	-	5.18	5.24	5.31	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	75	94	118	146	-	-	-	-
20	-	74	93	117	145	178	-	-	-
30	-	72	91	114	142	175	214	261	-
40	-	-	89	112	140	172	211	257	-
50	-	-	-	109	137	169	207	253	-
60	-	-	-	-	-	166	204	249	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.74	3.36	4.14	5.17	-	-	-	-
20	-	2.43	2.97	3.63	4.47	5.57	-	-	-
30	-	1.89	2.30	2.79	3.38	4.12	5.07	6.32	-
40	-	-	1.73	2.10	2.54	3.07	3.72	4.52	-
50	-	-	-	1.53	1.86	2.24	2.70	3.25	-
60	-	-	-	-	-	1.58	1.90	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 976	W
Power input	2 758	W
Current consumption	4.20	A
Mass flow	111	kg/h
C.O.P.	1.80	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 80 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 656	5 860	7 299	9 004	-	-	-	-
20	-	4 418	5 573	6 950	8 580	10 492	-	-	-
30	-	3 942	4 998	6 252	7 732	9 470	11 494	13 835	-
40	-	3 450	4 409	5 540	6 872	8 435	10 260	12 377	-
50	-	-	-	4 798	5 982	7 372	8 998	10 890	-
60	-	-	-	-	5 045	6 263	7 691	9 360	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 726	1 773	1 789	1 770	-	-	-	-
20	-	1 853	1 914	1 950	1 953	1 918	-	-	-
30	-	2 151	2 231	2 293	2 331	2 339	2 310	2 239	-
40	-	2 550	2 635	2 709	2 767	2 802	2 809	2 782	-
50	-	-	-	3 246	3 309	3 358	3 386	3 387	-
60	-	-	-	-	4 010	4 056	4 090	4 106	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.97	3.05	3.07	3.02	-	-	-	-
20	-	2.98	3.06	3.09	3.06	2.97	-	-	-
30	-	3.32	3.40	3.45	3.45	3.42	3.34	3.21	-
40	-	3.95	4.02	4.08	4.11	4.12	4.10	4.04	-
50	-	-	-	4.78	4.83	4.88	4.91	4.93	-
60	-	-	-	-	5.44	5.52	5.60	5.69	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	90	112	137	167	-	-	-	-
20	-	89	111	136	165	199	-	-	-
30	-	87	109	134	163	196	235	279	-
40	-	85	106	131	160	193	231	274	-
50	-	-	-	128	157	190	227	270	-
60	-	-	-	-	153	186	223	266	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.70	3.31	4.08	5.09	-	-	-	-
20	-	2.38	2.91	3.56	4.39	5.47	-	-	-
30	-	1.83	2.24	2.73	3.32	4.05	4.98	6.18	-
40	-	1.35	1.67	2.05	2.48	3.01	3.65	4.45	-
50	-	-	-	1.48	1.81	2.20	2.66	3.22	-
60	-	-	-	-	1.26	1.54	1.88	2.28	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 174	W
Power input	2 959	W
Current consumption	4.43	A
Mass flow	130	kg/h
C.O.P.	1.75	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 80 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 651	5 847	7 276	8 970	-	-	-	-
20	-	4 437	5 584	6 952	8 570	10 472	-	-	-
30	-	4 006	5 059	6 304	7 771	9 492	11 500	13 835	-
40	-	-	4 520	5 644	6 961	8 500	10 294	12 377	-
50	-	-	-	4 955	6 122	7 481	9 060	10 890	-
60	-	-	-	-	-	6 418	7 783	9 360	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 726	1 773	1 789	1 770	-	-	-	-
20	-	1 853	1 914	1 950	1 953	1 918	-	-	-
30	-	2 151	2 231	2 293	2 331	2 339	2 310	2 239	-
40	-	-	2 635	2 709	2 767	2 802	2 809	2 782	-
50	-	-	-	3 246	3 309	3 358	3 386	3 387	-
60	-	-	-	-	-	4 056	4 090	4 106	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.97	3.05	3.07	3.02	-	-	-	-
20	-	2.98	3.06	3.09	3.06	2.97	-	-	-
30	-	3.32	3.40	3.45	3.45	3.42	3.34	3.21	-
40	-	-	4.02	4.08	4.11	4.12	4.10	4.04	-
50	-	-	-	4.78	4.83	4.88	4.91	4.93	-
60	-	-	-	-	-	5.52	5.60	5.69	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	79	100	125	155	-	-	-	-
20	-	78	99	124	154	190	-	-	-
30	-	77	97	122	151	186	228	279	-
40	-	-	95	119	149	183	225	274	-
50	-	-	-	117	146	180	221	270	-
60	-	-	-	-	-	177	218	266	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.69	3.30	4.07	5.07	-	-	-	-
20	-	2.39	2.92	3.57	4.39	5.46	-	-	-
30	-	1.86	2.27	2.75	3.33	4.06	4.98	6.18	-
40	-	-	1.72	2.08	2.52	3.03	3.66	4.45	-
50	-	-	-	1.53	1.85	2.23	2.68	3.22	-
60	-	-	-	-	-	1.58	1.90	2.28	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 304	W
Power input	2 959	W
Current consumption	4.43	A
Mass flow	118	kg/h
C.O.P.	1.79	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 85 Hz, EN 12900 rating conditions
R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 932	6 208	7 739	9 559	-	-	-	-
20	-	4 680	5 900	7 362	9 098	11 143	-	-	-
30	-	4 181	5 294	6 619	8 190	10 041	12 206	14 717	-
40	-	3 672	4 680	5 873	7 282	8 943	10 889	13 154	-
50	-	-	-	5 100	6 352	7 826	9 558	11 579	-
60	-	-	-	-	5 376	6 668	8 188	9 970	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 862	1 911	1 932	1 916	-	-	-	-
20	-	1 996	2 061	2 101	2 109	2 079	-	-	-
30	-	2 312	2 397	2 464	2 508	2 521	2 499	2 435	-
40	-	2 730	2 821	2 901	2 966	3 009	3 024	3 004	-
50	-	-	-	3 460	3 532	3 590	3 628	3 639	-
60	-	-	-	-	4 254	4 313	4 360	4 388	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.10	3.19	3.22	3.18	-	-	-	-
20	-	3.15	3.24	3.28	3.26	3.18	-	-	-
30	-	3.53	3.62	3.67	3.69	3.66	3.58	3.45	-
40	-	4.16	4.24	4.30	4.35	4.37	4.36	4.32	-
50	-	-	-	5.02	5.09	5.15	5.20	5.24	-
60	-	-	-	-	5.76	5.86	5.96	6.07	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	96	119	146	177	-	-	-	-
20	-	95	118	144	175	212	-	-	-
30	-	93	115	141	172	208	249	296	-
40	-	90	113	139	169	204	245	291	-
50	-	-	-	136	166	201	241	287	-
60	-	-	-	-	164	198	238	283	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.65	3.25	4.01	4.99	-	-	-	-
20	-	2.34	2.86	3.50	4.31	5.36	-	-	-
30	-	1.81	2.21	2.69	3.27	3.98	4.88	6.05	-
40	-	1.35	1.66	2.02	2.46	2.97	3.60	4.38	-
50	-	-	-	1.47	1.80	2.18	2.63	3.18	-
60	-	-	-	-	1.26	1.55	1.88	2.27	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 491	W
Power input	3 163	W
Current consumption	4.66	A
Mass flow	138	kg/h
C.O.P.	1.74	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 85 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 927	6 194	7 714	9 523	-	-	-	-
20	-	4 700	5 913	7 364	9 088	11 122	-	-	-
30	-	4 250	5 359	6 675	8 232	10 065	12 212	14 717	-
40	-	-	4 798	5 983	7 377	9 012	10 925	13 154	-
50	-	-	-	5 267	6 501	7 942	9 623	11 579	-
60	-	-	-	-	-	6 834	8 286	9 970	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 862	1 911	1 932	1 916	-	-	-	-
20	-	1 996	2 061	2 101	2 109	2 079	-	-	-
30	-	2 312	2 397	2 464	2 508	2 521	2 499	2 435	-
40	-	-	2 821	2 901	2 966	3 009	3 024	3 004	-
50	-	-	-	3 460	3 532	3 590	3 628	3 639	-
60	-	-	-	-	-	4 313	4 360	4 388	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.10	3.19	3.22	3.18	-	-	-	-
20	-	3.15	3.24	3.28	3.26	3.18	-	-	-
30	-	3.53	3.62	3.67	3.69	3.66	3.58	3.45	-
40	-	-	4.24	4.30	4.35	4.37	4.36	4.32	-
50	-	-	-	5.02	5.09	5.15	5.20	5.24	-
60	-	-	-	-	-	5.86	5.96	6.07	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	84	106	133	165	-	-	-	-
20	-	83	105	131	163	201	-	-	-
30	-	81	103	129	160	198	243	296	-
40	-	-	101	127	157	194	239	291	-
50	-	-	-	124	155	191	235	287	-
60	-	-	-	-	-	188	232	283	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.65	3.24	3.99	4.97	-	-	-	-
20	-	2.35	2.87	3.51	4.31	5.35	-	-	-
30	-	1.84	2.24	2.71	3.28	3.99	4.89	6.05	-
40	-	-	1.70	2.06	2.49	3.00	3.61	4.38	-
50	-	-	-	1.52	1.84	2.21	2.65	3.18	-
60	-	-	-	-	-	1.58	1.90	2.27	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 629	W
Power input	3 163	W
Current consumption	4.66	A
Mass flow	125	kg/h
C.O.P.	1.78	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 90 Hz, EN 12900 rating conditions
R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 204	6 551	8 175	10 112	-	-	-	-
20	-	4 938	6 223	7 769	9 612	11 792	-	-	-
30	-	4 419	5 586	6 982	8 643	10 609	12 916	15 602	-
40	-	3 893	4 949	6 202	7 689	9 447	11 516	13 932	-
50	-	-	-	5 401	6 720	8 279	10 116	12 268	-
60	-	-	-	-	5 708	7 074	8 687	10 583	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 001	2 054	2 078	2 067	-	-	-	-
20	-	2 144	2 212	2 255	2 268	2 244	-	-	-
30	-	2 477	2 567	2 639	2 688	2 708	2 693	2 637	-
40	-	2 912	3 009	3 097	3 169	3 220	3 243	3 234	-
50	-	-	-	3 675	3 757	3 826	3 874	3 898	-
60	-	-	-	-	4 497	4 570	4 631	4 674	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.22	3.33	3.37	3.34	-	-	-	-
20	-	3.32	3.42	3.47	3.47	3.39	-	-	-
30	-	3.73	3.83	3.90	3.93	3.91	3.84	3.71	-
40	-	4.37	4.45	4.53	4.59	4.62	4.63	4.59	-
50	-	-	-	5.26	5.34	5.42	5.49	5.55	-
60	-	-	-	-	6.09	6.21	6.34	6.48	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	101	125	154	188	-	-	-	-
20	-	100	124	152	185	224	-	-	-
30	-	98	122	149	182	220	264	314	-
40	-	96	119	147	179	216	259	309	-
50	-	-	-	144	176	213	255	304	-
60	-	-	-	-	174	210	252	301	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.60	3.19	3.93	4.89	-	-	-	-
20	-	2.30	2.81	3.44	4.24	5.25	-	-	-
30	-	1.78	2.18	2.65	3.22	3.92	4.80	5.92	-
40	-	1.34	1.64	2.00	2.43	2.93	3.55	4.31	-
50	-	-	-	1.47	1.79	2.16	2.61	3.15	-
60	-	-	-	-	1.27	1.55	1.88	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 806	W
Power input	3 368	W
Current consumption	4.89	A
Mass flow	146	kg/h
C.O.P.	1.72	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 90 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 200	6 537	8 148	10 073	-	-	-	-
20	-	4 959	6 236	7 771	9 601	11 770	-	-	-
30	-	4 491	5 654	7 040	8 687	10 634	12 923	15 602	-
40	-	-	5 074	6 319	7 788	9 520	11 553	13 932	-
50	-	-	-	5 577	6 877	8 401	10 185	12 268	-
60	-	-	-	-	-	7 250	8 791	10 583	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 001	2 054	2 078	2 067	-	-	-	-
20	-	2 144	2 212	2 255	2 268	2 244	-	-	-
30	-	2 477	2 567	2 639	2 688	2 708	2 693	2 637	-
40	-	-	3 009	3 097	3 169	3 220	3 243	3 234	-
50	-	-	-	3 675	3 757	3 826	3 874	3 898	-
60	-	-	-	-	-	4 570	4 631	4 674	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.22	3.33	3.37	3.34	-	-	-	-
20	-	3.32	3.42	3.47	3.47	3.39	-	-	-
30	-	3.73	3.83	3.90	3.93	3.91	3.84	3.71	-
40	-	-	4.45	4.53	4.59	4.62	4.63	4.59	-
50	-	-	-	5.26	5.34	5.42	5.49	5.55	-
60	-	-	-	-	-	6.21	6.34	6.48	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	89	112	140	174	-	-	-	-
20	-	88	111	139	172	213	-	-	-
30	-	86	109	136	169	209	257	314	-
40	-	-	107	134	166	205	252	309	-
50	-	-	-	132	164	202	249	304	-
60	-	-	-	-	-	200	246	301	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.60	3.18	3.92	4.87	-	-	-	-
20	-	2.31	2.82	3.45	4.23	5.24	-	-	-
30	-	1.81	2.20	2.67	3.23	3.93	4.80	5.92	-
40	-	-	1.69	2.04	2.46	2.96	3.56	4.31	-
50	-	-	-	1.52	1.83	2.20	2.63	3.15	-
60	-	-	-	-	-	1.59	1.90	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 952	W
Power input	3 368	W
Current consumption	4.89	A
Mass flow	133	kg/h
C.O.P.	1.77	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 95 Hz, EN 12900 rating conditions
R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 473	6 891	8 606	10 662	-	-	-	-
20	-	5 193	6 542	8 171	10 123	12 439	-	-	-
30	-	4 654	5 874	7 339	9 091	11 172	13 624	16 490	-
40	-	4 114	5 216	6 528	8 091	9 947	12 139	14 710	-
50	-	-	-	5 701	7 086	8 729	10 672	12 958	-
60	-	-	-	-	6 040	7 481	9 187	11 199	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 144	2 199	2 228	2 223	-	-	-	-
20	-	2 295	2 366	2 414	2 432	2 415	-	-	-
30	-	2 647	2 740	2 817	2 872	2 899	2 893	2 848	-
40	-	3 097	3 201	3 296	3 376	3 435	3 469	3 470	-
50	-	-	-	3 891	3 984	4 064	4 126	4 162	-
60	-	-	-	-	4 739	4 828	4 905	4 965	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.34	3.46	3.52	3.49	-	-	-	-
20	-	3.49	3.61	3.67	3.67	3.60	-	-	-
30	-	3.94	4.05	4.13	4.17	4.17	4.11	3.98	-
40	-	4.57	4.66	4.75	4.82	4.88	4.90	4.88	-
50	-	-	-	5.49	5.59	5.69	5.78	5.86	-
60	-	-	-	-	6.43	6.57	6.72	6.89	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	106	132	162	198	-	-	-	-
20	-	105	130	160	195	237	-	-	-
30	-	103	128	157	191	231	278	332	-
40	-	101	126	154	188	227	273	326	-
50	-	-	-	152	186	225	270	321	-
60	-	-	-	-	184	222	267	318	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.55	3.13	3.86	4.80	-	-	-	-
20	-	2.26	2.76	3.39	4.16	5.15	-	-	-
30	-	1.76	2.14	2.61	3.17	3.85	4.71	5.79	-
40	-	1.33	1.63	1.98	2.40	2.90	3.50	4.24	-
50	-	-	-	1.47	1.78	2.15	2.59	3.11	-
60	-	-	-	-	1.27	1.55	1.87	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 118	W
Power input	3 576	W
Current consumption	5.11	A
Mass flow	153	kg/h
C.O.P.	1.71	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 95 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 468	6 875	8 578	10 622	-	-	-	-
20	-	5 215	6 555	8 173	10 111	12 416	-	-	-
30	-	4 730	5 946	7 401	9 137	11 198	13 631	16 490	-
40	-	-	5 347	6 650	8 195	10 024	12 179	14 710	-
50	-	-	-	5 887	7 252	8 858	10 746	12 958	-
60	-	-	-	-	-	7 667	9 297	11 199	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 144	2 199	2 228	2 223	-	-	-	-
20	-	2 295	2 366	2 414	2 432	2 415	-	-	-
30	-	2 647	2 740	2 817	2 872	2 899	2 893	2 848	-
40	-	-	3 201	3 296	3 376	3 435	3 469	3 470	-
50	-	-	-	3 891	3 984	4 064	4 126	4 162	-
60	-	-	-	-	-	4 828	4 905	4 965	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.34	3.46	3.52	3.49	-	-	-	-
20	-	3.49	3.61	3.67	3.67	3.60	-	-	-
30	-	3.94	4.05	4.13	4.17	4.17	4.11	3.98	-
40	-	-	4.66	4.75	4.82	4.88	4.90	4.88	-
50	-	-	-	5.49	5.59	5.69	5.78	5.86	-
60	-	-	-	-	-	6.57	6.72	6.89	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	93	118	148	184	-	-	-	-
20	-	92	116	146	182	225	-	-	-
30	-	90	114	143	178	220	271	332	-
40	-	-	112	141	175	216	266	326	-
50	-	-	-	139	173	213	262	321	-
60	-	-	-	-	-	211	260	318	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.55	3.13	3.85	4.78	-	-	-	-
20	-	2.27	2.77	3.39	4.16	5.14	-	-	-
30	-	1.79	2.17	2.63	3.18	3.86	4.71	5.79	-
40	-	-	1.67	2.02	2.43	2.92	3.51	4.24	-
50	-	-	-	1.51	1.82	2.18	2.60	3.11	-
60	-	-	-	-	-	1.59	1.90	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 273	W
Power input	3 576	W
Current consumption	5.11	A
Mass flow	140	kg/h
C.O.P.	1.75	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 100 Hz, EN 12900 rating conditions

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 738	7 226	9 034	11 210	-	-	-	-
20	-	5 444	6 856	8 568	10 629	13 085	-	-	-
30	-	4 887	6 158	7 691	9 533	11 731	14 331	17 380	-
40	-	4 335	5 481	6 850	8 488	10 443	12 760	15 488	-
50	-	-	-	5 999	7 450	9 177	11 228	13 649	-
60	-	-	-	-	6 374	7 889	9 688	11 819	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 291	2 349	2 381	2 383	-	-	-	-
20	-	2 451	2 524	2 576	2 600	2 591	-	-	-
30	-	2 820	2 917	2 999	3 060	3 095	3 099	3 066	-
40	-	3 286	3 396	3 497	3 586	3 654	3 699	3 714	-
50	-	-	-	4 108	4 213	4 306	4 381	4 433	-
60	-	-	-	-	4 979	5 085	5 181	5 260	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.45	3.59	3.66	3.64	-	-	-	-
20	-	3.66	3.79	3.87	3.89	3.82	-	-	-
30	-	4.15	4.27	4.37	4.43	4.44	4.39	4.26	-
40	-	4.77	4.87	4.97	5.06	5.14	5.17	5.17	-
50	-	-	-	5.72	5.83	5.96	6.07	6.18	-
60	-	-	-	-	6.77	6.93	7.12	7.32	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	112	138	170	208	-	-	-	-
20	-	110	137	168	205	249	-	-	-
30	-	108	134	164	200	243	292	350	-
40	-	107	132	162	197	239	287	343	-
50	-	-	-	160	195	236	284	339	-
60	-	-	-	-	194	234	281	336	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.50	3.08	3.79	4.70	-	-	-	-
20	-	2.22	2.72	3.33	4.09	5.05	-	-	-
30	-	1.73	2.11	2.56	3.12	3.79	4.62	5.67	-
40	-	1.32	1.61	1.96	2.37	2.86	3.45	4.17	-
50	-	-	-	1.46	1.77	2.13	2.56	3.08	-
60	-	-	-	-	1.28	1.55	1.87	2.25	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 429	W
Power input	3 787	W
Current consumption	5.32	A
Mass flow	161	kg/h
C.O.P.	1.70	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 100 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R448A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 733	7 210	9 005	11 168	-	-	-	-
20	-	5 467	6 870	8 570	10 617	13 061	-	-	-
30	-	4 967	6 233	7 756	9 581	11 758	14 338	17 380	-
40	-	-	5 619	6 979	8 598	10 523	12 802	15 488	-
50	-	-	-	6 196	7 624	9 312	11 305	13 649	-
60	-	-	-	-	-	8 084	9 804	11 819	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 291	2 349	2 381	2 383	-	-	-	-
20	-	2 451	2 524	2 576	2 600	2 591	-	-	-
30	-	2 820	2 917	2 999	3 060	3 095	3 099	3 066	-
40	-	-	3 396	3 497	3 586	3 654	3 699	3 714	-
50	-	-	-	4 108	4 213	4 306	4 381	4 433	-
60	-	-	-	-	-	5 085	5 181	5 260	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.45	3.59	3.66	3.64	-	-	-	-
20	-	3.66	3.79	3.87	3.89	3.82	-	-	-
30	-	4.15	4.27	4.37	4.43	4.44	4.39	4.26	-
40	-	-	4.87	4.97	5.06	5.14	5.17	5.17	-
50	-	-	-	5.72	5.83	5.96	6.07	6.18	-
60	-	-	-	-	-	6.93	7.12	7.32	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	98	123	155	193	-	-	-	-
20	-	97	122	153	191	237	-	-	-
30	-	95	120	150	186	231	285	350	-
40	-	-	118	148	183	227	280	343	-
50	-	-	-	146	182	224	276	339	-
60	-	-	-	-	-	223	274	336	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.50	3.07	3.78	4.69	-	-	-	-
20	-	2.23	2.72	3.33	4.08	5.04	-	-	-
30	-	1.76	2.14	2.59	3.13	3.80	4.63	5.67	-
40	-	-	1.65	2.00	2.40	2.88	3.46	4.17	-
50	-	-	-	1.51	1.81	2.16	2.58	3.08	-
60	-	-	-	-	-	1.59	1.89	2.25	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 591	W
Power input	3 787	W
Current consumption	5.32	A
Mass flow	147	kg/h
C.O.P.	1.74	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 30 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 320	1 694	2 146	2 686	3 326	-	-	-	-
20	1 246	1 608	2 043	2 562	3 175	3 895	-	-	-
30	-	1 424	1 825	2 301	2 863	3 520	4 285	5 168	-
40	-	-	1 590	2 022	2 530	3 125	3 818	4 620	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	577	586	586	573	545	-	-	-	-
20	625	638	644	640	623	589	-	-	-
30	-	761	773	782	782	770	744	698	-
40	-	-	941	954	963	966	960	939	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.19	1.21	1.22	1.19	1.15	-	-	-	-
20	1.27	1.30	1.31	1.30	1.26	1.21	-	-	-
30	-	1.48	1.50	1.50	1.49	1.46	1.41	1.35	-
40	-	-	1.73	1.74	1.74	1.73	1.71	1.68	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	27	34	42	51	63	-	-	-	-
20	26	33	41	51	62	75	-	-	-
30	-	32	41	50	61	74	89	106	-
40	-	-	39	49	60	73	88	104	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.29	2.89	3.66	4.69	6.11	-	-	-	-
20	1.99	2.52	3.17	4.00	5.10	6.61	-	-	-
30	-	1.87	2.36	2.94	3.66	4.57	5.76	7.41	-
40	-	-	1.69	2.12	2.63	3.23	3.98	4.92	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 30 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 324	1 696	2 144	2 680	3 316	-	-	-	-
20	1 257	1 617	2 050	2 565	3 174	3 889	-	-	-
30	-	1 451	1 851	2 324	2 880	3 531	4 289	5 168	-
40	-	-	1 634	2 063	2 565	3 151	3 832	4 620	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	577	586	586	573	545	-	-	-	-
20	625	638	644	640	623	589	-	-	-
30	-	761	773	782	782	770	744	698	-
40	-	-	941	954	963	966	960	939	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.19	1.21	1.22	1.19	1.15	-	-	-	-
20	1.27	1.30	1.31	1.30	1.26	1.21	-	-	-
30	-	1.48	1.50	1.50	1.49	1.46	1.41	1.35	-
40	-	-	1.73	1.74	1.74	1.73	1.71	1.68	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	23	29	37	47	58	-	-	-	-
20	22	29	37	47	58	72	-	-	-
30	-	28	36	46	57	71	87	106	-
40	-	-	35	45	56	69	85	104	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.29	2.89	3.66	4.68	6.09	-	-	-	-
20	2.01	2.54	3.18	4.01	5.10	6.60	-	-	-
30	-	1.91	2.39	2.97	3.68	4.58	5.77	7.41	-
40	-	-	1.74	2.16	2.66	3.26	3.99	4.92	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 35 Hz, EN 12900 rating conditions
R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 565	2 007	2 537	3 165	3 904	-	-	-	-
20	1 475	1 904	2 416	3 022	3 734	4 562	-	-	-
30	-	1 686	2 160	2 719	3 373	4 134	5 014	6 023	-
40	-	-	1 881	2 389	2 983	3 675	4 475	5 394	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	665	683	688	678	647	-	-	-	-
20	719	741	754	755	738	699	-	-	-
30	-	882	903	917	919	907	874	818	-
40	-	-	1 097	1 115	1 128	1 131	1 120	1 092	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.39	1.42	1.43	1.41	1.35	-	-	-	-
20	1.42	1.46	1.48	1.46	1.42	1.36	-	-	-
30	-	1.65	1.67	1.67	1.65	1.62	1.56	1.49	-
40	-	-	1.97	1.98	1.98	1.96	1.93	1.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	31	40	49	61	74	-	-	-	-
20	31	39	49	60	73	88	-	-	-
30	-	38	48	59	72	87	104	124	-
40	-	-	46	58	71	86	103	122	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.35	2.94	3.69	4.67	6.03	-	-	-	-
20	2.05	2.57	3.20	4.01	5.06	6.52	-	-	-
30	-	1.91	2.39	2.97	3.67	4.56	5.74	7.36	-
40	-	-	1.71	2.14	2.65	3.25	3.99	4.94	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 35 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 569	2 008	2 534	3 158	3 892	-	-	-	-
20	1 488	1 916	2 425	3 027	3 733	4 556	-	-	-
30	-	1 717	2 190	2 745	3 393	4 147	5 018	6 023	-
40	-	-	1 933	2 438	3 025	3 706	4 491	5 394	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	665	683	688	678	647	-	-	-	-
20	719	741	754	755	738	699	-	-	-
30	-	882	903	917	919	907	874	818	-
40	-	-	1 097	1 115	1 128	1 131	1 120	1 092	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.39	1.42	1.43	1.41	1.35	-	-	-	-
20	1.42	1.46	1.48	1.46	1.42	1.36	-	-	-
30	-	1.65	1.67	1.67	1.65	1.62	1.56	1.49	-
40	-	-	1.97	1.98	1.98	1.96	1.93	1.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	27	35	44	55	69	-	-	-	-
20	27	34	44	55	68	84	-	-	-
30	-	33	43	54	67	83	102	124	-
40	-	-	41	53	66	81	100	122	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.36	2.94	3.68	4.66	6.01	-	-	-	-
20	2.07	2.59	3.21	4.01	5.06	6.52	-	-	-
30	-	1.95	2.43	3.00	3.69	4.57	5.74	7.36	-
40	-	-	1.76	2.19	2.68	3.28	4.01	4.94	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 40 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 807	2 316	2 923	3 640	4 480	-	-	-	-
20	1 703	2 198	2 786	3 478	4 288	5 227	-	-	-
30	-	1 946	2 491	3 131	3 878	4 744	5 740	6 880	-
40	-	-	2 170	2 753	3 432	4 220	5 128	6 169	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	757	783	794	786	754	-	-	-	-
20	817	849	869	873	856	814	-	-	-
30	-	1 006	1 036	1 055	1 061	1 047	1 011	946	-
40	-	-	1 256	1 280	1 296	1 300	1 287	1 252	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.58	1.63	1.64	1.61	1.56	-	-	-	-
20	1.58	1.63	1.65	1.63	1.59	1.52	-	-	-
30	-	1.82	1.85	1.85	1.83	1.78	1.72	1.63	-
40	-	-	2.21	2.22	2.21	2.19	2.15	2.10	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	36	46	57	70	85	-	-	-	-
20	36	45	56	69	84	101	-	-	-
30	-	44	55	68	83	100	119	141	-
40	-	-	53	67	81	98	118	139	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.39	2.96	3.68	4.63	5.94	-	-	-	-
20	2.08	2.59	3.21	3.99	5.01	6.42	-	-	-
30	-	1.93	2.41	2.97	3.66	4.53	5.68	7.27	-
40	-	-	1.73	2.15	2.65	3.25	3.99	4.93	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic 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 40 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 811	2 318	2 920	3 632	4 466	-	-	-	-
20	1 717	2 211	2 795	3 483	4 287	5 220	-	-	-
30	-	1 982	2 526	3 162	3 902	4 758	5 745	6 880	-
40	-	-	2 229	2 809	3 481	4 256	5 147	6 169	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	757	783	794	786	754	-	-	-	-
20	817	849	869	873	856	814	-	-	-
30	-	1 006	1 036	1 055	1 061	1 047	1 011	946	-
40	-	-	1 256	1 280	1 296	1 300	1 287	1 252	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.58	1.63	1.64	1.61	1.56	-	-	-	-
20	1.58	1.63	1.65	1.63	1.59	1.52	-	-	-
30	-	1.82	1.85	1.85	1.83	1.78	1.72	1.63	-
40	-	-	2.21	2.22	2.21	2.19	2.15	2.10	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	31	40	51	64	79	-	-	-	-
20	31	40	50	63	78	96	-	-	-
30	-	39	49	62	77	95	116	141	-
40	-	-	48	61	76	94	115	139	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.39	2.96	3.68	4.62	5.92	-	-	-	-
20	2.10	2.61	3.22	3.99	5.01	6.41	-	-	-
30	-	1.97	2.44	3.00	3.68	4.54	5.68	7.27	-
40	-	-	1.77	2.20	2.69	3.27	4.00	4.93	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 45 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 046	2 621	3 305	4 112	5 053	-	-	-	-
20	1 928	2 488	3 150	3 930	4 839	5 891	-	-	-
30	-	2 203	2 818	3 539	4 378	5 350	6 465	7 739	-
40	-	-	2 457	3 114	3 877	4 762	5 779	6 944	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	854	887	904	898	866	-	-	-	-
20	920	960	987	995	979	935	-	-	-
30	-	1 135	1 172	1 197	1 206	1 193	1 153	1 081	-
40	-	-	1 418	1 448	1 468	1 473	1 458	1 419	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.77	1.82	1.84	1.81	1.76	-	-	-	-
20	1.74	1.80	1.82	1.81	1.76	1.68	-	-	-
30	-	2.00	2.03	2.03	2.01	1.96	1.88	1.79	-
40	-	-	2.45	2.46	2.45	2.42	2.38	2.32	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	41	52	64	79	95	-	-	-	-
20	40	51	64	78	95	114	-	-	-
30	-	50	63	77	94	113	134	159	-
40	-	-	61	75	92	111	133	157	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.40	2.95	3.66	4.58	5.84	-	-	-	-
20	2.10	2.59	3.19	3.95	4.94	6.30	-	-	-
30	-	1.94	2.40	2.96	3.63	4.49	5.61	7.16	-
40	-	-	1.73	2.15	2.64	3.23	3.96	4.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic 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 45 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 051	2 623	3 302	4 102	5 038	-	-	-	-
20	1 945	2 502	3 161	3 935	4 837	5 883	-	-	-
30	-	2 244	2 858	3 574	4 405	5 366	6 471	7 739	-
40	-	-	2 524	3 177	3 932	4 802	5 800	6 944	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	854	887	904	898	866	-	-	-	-
20	920	960	987	995	979	935	-	-	-
30	-	1 135	1 172	1 197	1 206	1 193	1 153	1 081	-
40	-	-	1 418	1 448	1 468	1 473	1 458	1 419	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.77	1.82	1.84	1.81	1.76	-	-	-	-
20	1.74	1.80	1.82	1.81	1.76	1.68	-	-	-
30	-	2.00	2.03	2.03	2.01	1.96	1.88	1.79	-
40	-	-	2.45	2.46	2.45	2.42	2.38	2.32	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	35	45	57	72	89	-	-	-	-
20	35	45	57	71	88	108	-	-	-
30	-	44	56	70	87	107	131	159	-
40	-	-	54	69	86	106	129	157	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.40	2.96	3.65	4.57	5.82	-	-	-	-
20	2.11	2.61	3.20	3.96	4.94	6.29	-	-	-
30	-	1.98	2.44	2.98	3.65	4.50	5.61	7.16	-
40	-	-	1.78	2.19	2.68	3.26	3.98	4.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	2 923	3 683	4 579	5 625	-	-	-	-
20	-	2 774	3 510	4 376	5 385	6 553	-	-	-
30	-	2 458	3 141	3 942	4 873	5 951	7 189	8 602	-
40	-	2 118	2 742	3 471	4 318	5 299	6 428	7 719	-
50	-	-	-	2 963	3 720	4 597	5 610	6 774	-
60	-	-	-	-	3 078	3 846	4 737	5 766	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	996	1 017	1 014	982	-	-	-	-
20	-	1 076	1 108	1 120	1 106	1 060	-	-	-
30	-	1 268	1 313	1 343	1 355	1 343	1 301	1 224	-
40	-	1 541	1 583	1 619	1 643	1 650	1 635	1 593	-
50	-	-	-	1 991	2 014	2 027	2 025	2 003	-
60	-	-	-	-	2 513	2 518	2 515	2 500	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.01	2.03	2.01	1.95	-	-	-	-
20	-	1.96	1.99	1.98	1.93	1.85	-	-	-
30	-	2.18	2.21	2.22	2.19	2.14	2.06	1.96	-
40	-	2.64	2.68	2.69	2.69	2.66	2.61	2.55	-
50	-	-	-	3.22	3.22	3.22	3.20	3.17	-
60	-	-	-	-	3.62	3.63	3.64	3.64	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	58	72	88	106	-	-	-	-
20	-	57	71	87	106	127	-	-	-
30	-	56	70	86	104	126	149	176	-
40	-	53	68	84	102	124	147	174	-
50	-	-	-	81	100	121	145	171	-
60	-	-	-	-	96	117	141	167	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.94	3.62	4.51	5.73	-	-	-	-
20	-	2.58	3.17	3.91	4.87	6.18	-	-	-
30	-	1.94	2.39	2.93	3.60	4.43	5.53	7.03	-
40	-	1.37	1.73	2.14	2.63	3.21	3.93	4.85	-
50	-	-	-	1.49	1.85	2.27	2.77	3.38	-
60	-	-	-	-	1.22	1.53	1.88	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 221	W
Power input	1 790	W
Current consumption	2.96	A
Mass flow	83	kg/h
C.O.P.	1.80	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	2 925	3 680	4 569	5 608	-	-	-	-
20	-	2 790	3 523	4 382	5 383	6 544	-	-	-
30	-	2 503	3 185	3 980	4 903	5 969	7 195	8 602	-
40	-	-	2 817	3 542	4 379	5 344	6 451	7 719	-
50	-	-	-	3 066	3 812	4 670	5 652	6 774	-
60	-	-	-	-	-	3 946	4 797	5 766	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	996	1 017	1 014	982	-	-	-	-
20	-	1 076	1 108	1 120	1 106	1 060	-	-	-
30	-	1 268	1 313	1 343	1 355	1 343	1 301	1 224	-
40	-	-	1 583	1 619	1 643	1 650	1 635	1 593	-
50	-	-	-	1 991	2 014	2 027	2 025	2 003	-
60	-	-	-	-	-	2 518	2 515	2 500	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.01	2.03	2.01	1.95	-	-	-	-
20	-	1.96	1.99	1.98	1.93	1.85	-	-	-
30	-	2.18	2.21	2.22	2.19	2.14	2.06	1.96	-
40	-	-	2.68	2.69	2.69	2.66	2.61	2.55	-
50	-	-	-	3.22	3.22	3.22	3.20	3.17	-
60	-	-	-	-	-	3.63	3.64	3.64	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	51	64	80	99	-	-	-	-
20	-	50	64	80	98	121	-	-	-
30	-	49	62	78	97	119	146	176	-
40	-	-	60	76	95	118	144	174	-
50	-	-	-	74	93	115	141	171	-
60	-	-	-	-	-	111	137	167	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.94	3.62	4.50	5.71	-	-	-	-
20	-	2.59	3.18	3.91	4.87	6.17	-	-	-
30	-	1.97	2.43	2.96	3.62	4.45	5.53	7.03	-
40	-	-	1.78	2.19	2.67	3.24	3.95	4.85	-
50	-	-	-	1.54	1.89	2.30	2.79	3.38	-
60	-	-	-	-	-	1.57	1.91	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 309	W
Power input	1 790	W
Current consumption	2.96	A
Mass flow	75	kg/h
C.O.P.	1.85	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 55 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 221	4 057	5 042	6 194	-	-	-	-
20	-	3 057	3 865	4 817	5 928	7 214	-	-	-
30	-	2 711	3 461	4 339	5 363	6 548	7 911	9 467	-
40	-	2 340	3 025	3 824	4 754	5 832	7 073	8 494	-
50	-	-	-	3 271	4 102	5 065	6 179	7 458	-
60	-	-	-	-	3 404	4 247	5 226	6 357	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 108	1 134	1 134	1 102	-	-	-	-
20	-	1 195	1 234	1 249	1 237	1 190	-	-	-
30	-	1 405	1 456	1 493	1 508	1 497	1 455	1 375	-
40	-	1 701	1 751	1 793	1 821	1 831	1 817	1 773	-
50	-	-	-	2 197	2 225	2 241	2 241	2 218	-
60	-	-	-	-	2 766	2 774	2 773	2 757	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.19	2.22	2.20	2.14	-	-	-	-
20	-	2.13	2.17	2.16	2.11	2.02	-	-	-
30	-	2.36	2.40	2.41	2.39	2.33	2.25	2.14	-
40	-	2.87	2.91	2.93	2.92	2.90	2.85	2.78	-
50	-	-	-	3.49	3.50	3.50	3.48	3.46	-
60	-	-	-	-	3.91	3.93	3.94	3.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	64	79	97	117	-	-	-	-
20	-	63	78	96	116	140	-	-	-
30	-	61	77	95	115	138	164	194	-
40	-	59	75	92	113	136	162	192	-
50	-	-	-	89	110	133	159	189	-
60	-	-	-	-	106	129	155	185	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.91	3.58	4.45	5.62	-	-	-	-
20	-	2.56	3.13	3.86	4.79	6.06	-	-	-
30	-	1.93	2.38	2.91	3.56	4.37	5.44	6.89	-
40	-	1.38	1.73	2.13	2.61	3.18	3.89	4.79	-
50	-	-	-	1.49	1.84	2.26	2.76	3.36	-
60	-	-	-	-	1.23	1.53	1.88	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 552	W
Power input	1 979	W
Current consumption	3.22	A
Mass flow	91	kg/h
C.O.P.	1.80	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 55 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 223	4 053	5 031	6 175	-	-	-	-
20	-	3 075	3 879	4 824	5 926	7 204	-	-	-
30	-	2 761	3 509	4 382	5 395	6 567	7 917	9 467	-
40	-	-	3 108	3 903	4 822	5 881	7 099	8 494	-
50	-	-	-	3 385	4 204	5 145	6 224	7 458	-
60	-	-	-	-	-	4 358	5 292	6 357	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 108	1 134	1 134	1 102	-	-	-	-
20	-	1 195	1 234	1 249	1 237	1 190	-	-	-
30	-	1 405	1 456	1 493	1 508	1 497	1 455	1 375	-
40	-	-	1 751	1 793	1 821	1 831	1 817	1 773	-
50	-	-	-	2 197	2 225	2 241	2 241	2 218	-
60	-	-	-	-	-	2 774	2 773	2 757	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.19	2.22	2.20	2.14	-	-	-	-
20	-	2.13	2.17	2.16	2.11	2.02	-	-	-
30	-	2.36	2.40	2.41	2.39	2.33	2.25	2.14	-
40	-	-	2.91	2.93	2.92	2.90	2.85	2.78	-
50	-	-	-	3.49	3.50	3.50	3.48	3.46	-
60	-	-	-	-	-	3.93	3.94	3.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	56	71	88	109	-	-	-	-
20	-	55	70	88	108	133	-	-	-
30	-	54	69	86	107	131	160	194	-
40	-	-	67	84	105	129	158	192	-
50	-	-	-	81	102	127	155	189	-
60	-	-	-	-	-	123	151	185	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.91	3.57	4.44	5.60	-	-	-	-
20	-	2.57	3.14	3.86	4.79	6.05	-	-	-
30	-	1.96	2.41	2.94	3.58	4.39	5.44	6.89	-
40	-	-	1.78	2.18	2.65	3.21	3.91	4.79	-
50	-	-	-	1.54	1.89	2.30	2.78	3.36	-
60	-	-	-	-	-	1.57	1.91	2.31	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 649	W
Power input	1 979	W
Current consumption	3.22	A
Mass flow	83	kg/h
C.O.P.	1.84	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 515	4 426	5 501	6 760	-	-	-	-
20	-	3 336	4 216	5 253	6 466	7 872	-	-	-
30	-	2 961	3 776	4 732	5 847	7 141	8 631	10 335	-
40	-	2 563	3 306	4 174	5 187	6 361	7 716	9 270	-
50	-	-	-	3 579	4 482	5 531	6 745	8 143	-
60	-	-	-	-	3 730	4 649	5 716	6 951	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 224	1 255	1 258	1 227	-	-	-	-
20	-	1 319	1 363	1 382	1 372	1 326	-	-	-
30	-	1 546	1 604	1 646	1 665	1 656	1 614	1 532	-
40	-	1 865	1 922	1 970	2 003	2 017	2 005	1 961	-
50	-	-	-	2 405	2 438	2 458	2 461	2 440	-
60	-	-	-	-	3 018	3 030	3 032	3 018	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.36	2.40	2.38	2.32	-	-	-	-
20	-	2.30	2.34	2.34	2.29	2.20	-	-	-
30	-	2.55	2.60	2.61	2.59	2.53	2.45	2.33	-
40	-	3.09	3.14	3.16	3.16	3.13	3.09	3.02	-
50	-	-	-	3.76	3.78	3.78	3.77	3.75	-
60	-	-	-	-	4.21	4.23	4.25	4.27	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	70	86	105	128	-	-	-	-
20	-	69	86	105	127	152	-	-	-
30	-	67	84	103	125	151	179	212	-
40	-	64	81	101	123	148	177	209	-
50	-	-	-	98	120	145	174	206	-
60	-	-	-	-	116	141	170	202	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.87	3.53	4.37	5.51	-	-	-	-
20	-	2.53	3.09	3.80	4.71	5.94	-	-	-
30	-	1.92	2.35	2.88	3.51	4.31	5.35	6.74	-
40	-	1.37	1.72	2.12	2.59	3.15	3.85	4.73	-
50	-	-	-	1.49	1.84	2.25	2.74	3.34	-
60	-	-	-	-	1.24	1.53	1.89	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 881	W
Power input	2 170	W
Current consumption	3.47	A
Mass flow	99	kg/h
C.O.P.	1.79	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 518	4 422	5 489	6 740	-	-	-	-
20	-	3 356	4 231	5 260	6 464	7 862	-	-	-
30	-	3 016	3 829	4 778	5 883	7 162	8 638	10 335	-
40	-	-	3 396	4 260	5 260	6 415	7 744	9 270	-
50	-	-	-	3 703	4 593	5 618	6 795	8 143	-
60	-	-	-	-	-	4 770	5 788	6 951	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 224	1 255	1 258	1 227	-	-	-	-
20	-	1 319	1 363	1 382	1 372	1 326	-	-	-
30	-	1 546	1 604	1 646	1 665	1 656	1 614	1 532	-
40	-	-	1 922	1 970	2 003	2 017	2 005	1 961	-
50	-	-	-	2 405	2 438	2 458	2 461	2 440	-
60	-	-	-	-	-	3 030	3 032	3 018	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.36	2.40	2.38	2.32	-	-	-	-
20	-	2.30	2.34	2.34	2.29	2.20	-	-	-
30	-	2.55	2.60	2.61	2.59	2.53	2.45	2.33	-
40	-	-	3.14	3.16	3.16	3.13	3.09	3.02	-
50	-	-	-	3.76	3.78	3.78	3.77	3.75	-
60	-	-	-	-	-	4.23	4.25	4.27	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	61	77	96	119	-	-	-	-
20	-	60	76	95	118	145	-	-	-
30	-	59	75	94	117	143	175	212	-
40	-	-	73	92	114	141	172	209	-
50	-	-	-	89	112	138	169	206	-
60	-	-	-	-	-	134	165	202	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.87	3.52	4.37	5.49	-	-	-	-
20	-	2.54	3.11	3.81	4.71	5.93	-	-	-
30	-	1.95	2.39	2.90	3.53	4.32	5.35	6.74	-
40	-	-	1.77	2.16	2.63	3.18	3.86	4.73	-
50	-	-	-	1.54	1.88	2.29	2.76	3.34	-
60	-	-	-	-	-	1.57	1.91	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 986	W
Power input	2 170	W
Current consumption	3.47	A
Mass flow	91	kg/h
C.O.P.	1.84	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 65 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 806	4 791	5 957	7 325	-	-	-	-
20	-	3 612	4 562	5 685	7 000	8 530	-	-	-
30	-	3 210	4 087	5 119	6 326	7 729	9 349	11 206	-
40	-	2 785	3 585	4 521	5 614	6 886	8 356	10 046	-
50	-	-	-	3 885	4 860	5 995	7 311	8 829	-
60	-	-	-	-	4 058	5 051	6 208	7 549	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 343	1 379	1 385	1 356	-	-	-	-
20	-	1 446	1 495	1 519	1 511	1 466	-	-	-
30	-	1 691	1 755	1 802	1 826	1 820	1 780	1 698	-
40	-	2 032	2 095	2 150	2 189	2 207	2 198	2 156	-
50	-	-	-	2 613	2 653	2 679	2 685	2 667	-
60	-	-	-	-	3 268	3 286	3 294	3 284	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.52	2.57	2.56	2.51	-	-	-	-
20	-	2.47	2.52	2.52	2.48	2.39	-	-	-
30	-	2.74	2.79	2.81	2.79	2.74	2.65	2.53	-
40	-	3.31	3.36	3.39	3.40	3.38	3.33	3.27	-
50	-	-	-	4.03	4.05	4.06	4.05	4.04	-
60	-	-	-	-	4.50	4.54	4.57	4.60	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	75	93	114	138	-	-	-	-
20	-	74	93	113	137	165	-	-	-
30	-	73	91	112	136	163	194	230	-
40	-	70	88	109	133	161	192	227	-
50	-	-	-	106	130	158	188	223	-
60	-	-	-	-	126	154	185	219	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.83	3.47	4.30	5.40	-	-	-	-
20	-	2.50	3.05	3.74	4.63	5.82	-	-	-
30	-	1.90	2.33	2.84	3.47	4.25	5.25	6.60	-
40	-	1.37	1.71	2.10	2.56	3.12	3.80	4.66	-
50	-	-	-	1.49	1.83	2.24	2.72	3.31	-
60	-	-	-	-	1.24	1.54	1.88	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 208	W
Power input	2 364	W
Current consumption	3.72	A
Mass flow	108	kg/h
C.O.P.	1.78	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 65 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 808	4 786	5 944	7 302	-	-	-	-
20	-	3 633	4 578	5 693	6 998	8 518	-	-	-
30	-	3 269	4 145	5 169	6 365	7 752	9 357	11 206	-
40	-	-	3 683	4 614	5 694	6 944	8 387	10 046	-
50	-	-	-	4 020	4 981	6 089	7 364	8 829	-
60	-	-	-	-	-	5 183	6 286	7 549	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 343	1 379	1 385	1 356	-	-	-	-
20	-	1 446	1 495	1 519	1 511	1 466	-	-	-
30	-	1 691	1 755	1 802	1 826	1 820	1 780	1 698	-
40	-	-	2 095	2 150	2 189	2 207	2 198	2 156	-
50	-	-	-	2 613	2 653	2 679	2 685	2 667	-
60	-	-	-	-	-	3 286	3 294	3 284	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.52	2.57	2.56	2.51	-	-	-	-
20	-	2.47	2.52	2.52	2.48	2.39	-	-	-
30	-	2.74	2.79	2.81	2.79	2.74	2.65	2.53	-
40	-	-	3.36	3.39	3.40	3.38	3.33	3.27	-
50	-	-	-	4.03	4.05	4.06	4.05	4.04	-
60	-	-	-	-	-	4.54	4.57	4.60	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	66	83	104	129	-	-	-	-
20	-	65	83	103	128	157	-	-	-
30	-	64	81	102	126	155	189	230	-
40	-	-	79	100	124	153	187	227	-
50	-	-	-	97	121	150	184	223	-
60	-	-	-	-	-	146	180	219	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.83	3.47	4.29	5.39	-	-	-	-
20	-	2.51	3.06	3.75	4.63	5.81	-	-	-
30	-	1.93	2.36	2.87	3.49	4.26	5.26	6.60	-
40	-	-	1.76	2.15	2.60	3.15	3.82	4.66	-
50	-	-	-	1.54	1.88	2.27	2.74	3.31	-
60	-	-	-	-	-	1.58	1.91	2.30	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 322	W
Power input	2 364	W
Current consumption	3.72	A
Mass flow	98	kg/h
C.O.P.	1.83	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 70 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 093	5 151	6 408	7 887	-	-	-	-
20	-	3 884	4 904	6 112	7 531	9 185	-	-	-
30	-	3 456	4 395	5 502	6 800	8 314	10 066	12 080	-
40	-	3 007	3 862	4 864	6 038	7 406	8 994	10 823	-
50	-	-	-	4 190	5 236	6 456	7 875	9 515	-
60	-	-	-	-	4 386	5 454	6 701	8 149	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 467	1 506	1 516	1 489	-	-	-	-
20	-	1 578	1 631	1 659	1 654	1 612	-	-	-
30	-	1 841	1 910	1 962	1 990	1 988	1 951	1 871	-
40	-	2 201	2 272	2 333	2 378	2 401	2 396	2 357	-
50	-	-	-	2 823	2 869	2 902	2 914	2 901	-
60	-	-	-	-	3 517	3 543	3 557	3 554	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.68	2.74	2.74	2.68	-	-	-	-
20	-	2.64	2.70	2.71	2.67	2.58	-	-	-
30	-	2.93	2.99	3.02	3.01	2.96	2.87	2.75	-
40	-	3.53	3.59	3.62	3.63	3.62	3.58	3.52	-
50	-	-	-	4.28	4.31	4.33	4.34	4.33	-
60	-	-	-	-	4.81	4.86	4.90	4.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	81	100	123	149	-	-	-	-
20	-	80	99	122	148	178	-	-	-
30	-	78	98	120	146	175	209	248	-
40	-	76	95	118	143	173	206	244	-
50	-	-	-	115	140	170	203	241	-
60	-	-	-	-	137	166	199	237	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.79	3.42	4.23	5.30	-	-	-	-
20	-	2.46	3.01	3.68	4.55	5.70	-	-	-
30	-	1.88	2.30	2.80	3.42	4.18	5.16	6.46	-
40	-	1.37	1.70	2.08	2.54	3.08	3.75	4.59	-
50	-	-	-	1.48	1.82	2.22	2.70	3.28	-
60	-	-	-	-	1.25	1.54	1.88	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 532	W
Power input	2 560	W
Current consumption	3.96	A
Mass flow	116	kg/h
C.O.P.	1.77	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 70 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 096	5 147	6 394	7 863	-	-	-	-
20	-	3 907	4 921	6 120	7 528	9 173	-	-	-
30	-	3 520	4 456	5 556	6 841	8 338	10 074	12 080	-
40	-	-	3 967	4 964	6 123	7 469	9 026	10 823	-
50	-	-	-	4 336	5 366	6 557	7 932	9 515	-
60	-	-	-	-	-	5 596	6 785	8 149	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 467	1 506	1 516	1 489	-	-	-	-
20	-	1 578	1 631	1 659	1 654	1 612	-	-	-
30	-	1 841	1 910	1 962	1 990	1 988	1 951	1 871	-
40	-	-	2 272	2 333	2 378	2 401	2 396	2 357	-
50	-	-	-	2 823	2 869	2 902	2 914	2 901	-
60	-	-	-	-	-	3 543	3 557	3 554	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.68	2.74	2.74	2.68	-	-	-	-
20	-	2.64	2.70	2.71	2.67	2.58	-	-	-
30	-	2.93	2.99	3.02	3.01	2.96	2.87	2.75	-
40	-	-	3.59	3.62	3.63	3.62	3.58	3.52	-
50	-	-	-	4.28	4.31	4.33	4.34	4.33	-
60	-	-	-	-	-	4.86	4.90	4.95	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	71	90	112	138	-	-	-	-
20	-	70	89	111	138	169	-	-	-
30	-	68	87	109	136	167	204	248	-
40	-	-	85	107	133	164	201	244	-
50	-	-	-	104	131	161	198	241	-
60	-	-	-	-	-	158	194	237	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.79	3.42	4.22	5.28	-	-	-	-
20	-	2.48	3.02	3.69	4.55	5.69	-	-	-
30	-	1.91	2.33	2.83	3.44	4.19	5.16	6.46	-
40	-	-	1.75	2.13	2.57	3.11	3.77	4.59	-
50	-	-	-	1.54	1.87	2.26	2.72	3.28	-
60	-	-	-	-	-	1.58	1.91	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 655	W
Power input	2 560	W
Current consumption	3.96	A
Mass flow	106	kg/h
C.O.P.	1.82	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 75 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 376	5 508	6 856	8 446	-	-	-	-
20	-	4 153	5 241	6 533	8 057	9 839	-	-	-
30	-	3 700	4 699	5 879	7 269	8 894	10 781	12 956	-
40	-	3 229	4 137	5 204	6 457	7 923	9 628	11 600	-
50	-	-	-	4 494	5 610	6 915	8 437	10 202	-
60	-	-	-	-	4 715	5 858	7 195	8 753	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 595	1 638	1 651	1 627	-	-	-	-
20	-	1 713	1 771	1 802	1 802	1 762	-	-	-
30	-	1 994	2 069	2 126	2 159	2 161	2 128	2 051	-
40	-	2 374	2 452	2 519	2 571	2 599	2 600	2 566	-
50	-	-	-	3 034	3 088	3 128	3 148	3 141	-
60	-	-	-	-	3 764	3 799	3 823	3 828	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.83	2.89	2.90	2.85	-	-	-	-
20	-	2.81	2.88	2.90	2.86	2.77	-	-	-
30	-	3.13	3.20	3.23	3.23	3.18	3.10	2.97	-
40	-	3.74	3.81	3.85	3.87	3.87	3.84	3.78	-
50	-	-	-	4.54	4.58	4.61	4.63	4.63	-
60	-	-	-	-	5.12	5.18	5.24	5.31	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	87	107	131	159	-	-	-	-
20	-	86	106	130	158	190	-	-	-
30	-	84	104	128	156	188	224	266	-
40	-	81	102	126	153	185	221	262	-
50	-	-	-	123	150	182	218	258	-
60	-	-	-	-	147	178	214	254	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.74	3.36	4.15	5.19	-	-	-	-
20	-	2.42	2.96	3.62	4.47	5.58	-	-	-
30	-	1.86	2.27	2.77	3.37	4.11	5.07	6.32	-
40	-	1.36	1.69	2.07	2.51	3.05	3.70	4.52	-
50	-	-	-	1.48	1.82	2.21	2.68	3.25	-
60	-	-	-	-	1.25	1.54	1.88	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 854	W
Power input	2 758	W
Current consumption	4.20	A
Mass flow	124	kg/h
C.O.P.	1.76	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 75 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 379	5 503	6 840	8 421	-	-	-	-
20	-	4 178	5 259	6 542	8 055	9 826	-	-	-
30	-	3 768	4 764	5 937	7 313	8 920	10 790	12 956	-
40	-	-	4 250	5 310	6 548	7 990	9 663	11 600	-
50	-	-	-	4 651	5 750	7 024	8 499	10 202	-
60	-	-	-	-	-	6 011	7 285	8 753	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 595	1 638	1 651	1 627	-	-	-	-
20	-	1 713	1 771	1 802	1 802	1 762	-	-	-
30	-	1 994	2 069	2 126	2 159	2 161	2 128	2 051	-
40	-	-	2 452	2 519	2 571	2 599	2 600	2 566	-
50	-	-	-	3 034	3 088	3 128	3 148	3 141	-
60	-	-	-	-	-	3 799	3 823	3 828	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.83	2.89	2.90	2.85	-	-	-	-
20	-	2.81	2.88	2.90	2.86	2.77	-	-	-
30	-	3.13	3.20	3.23	3.23	3.18	3.10	2.97	-
40	-	-	3.81	3.85	3.87	3.87	3.84	3.78	-
50	-	-	-	4.54	4.58	4.61	4.63	4.63	-
60	-	-	-	-	-	5.18	5.24	5.31	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	76	96	120	148	-	-	-	-
20	-	75	95	119	147	181	-	-	-
30	-	73	93	117	145	178	218	266	-
40	-	-	91	115	143	176	215	262	-
50	-	-	-	112	140	173	212	258	-
60	-	-	-	-	-	169	208	254	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.75	3.36	4.14	5.18	-	-	-	-
20	-	2.44	2.97	3.63	4.47	5.58	-	-	-
30	-	1.89	2.30	2.79	3.39	4.13	5.07	6.32	-
40	-	-	1.73	2.11	2.55	3.07	3.72	4.52	-
50	-	-	-	1.53	1.86	2.25	2.70	3.25	-
60	-	-	-	-	-	1.58	1.91	2.29	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 985	W
Power input	2 758	W
Current consumption	4.20	A
Mass flow	113	kg/h
C.O.P.	1.81	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 80 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 656	5 860	7 299	9 004	-	-	-	-
20	-	4 418	5 573	6 950	8 580	10 492	-	-	-
30	-	3 942	4 998	6 252	7 732	9 470	11 494	13 835	-
40	-	3 450	4 409	5 540	6 872	8 435	10 260	12 377	-
50	-	-	-	4 798	5 982	7 372	8 998	10 890	-
60	-	-	-	-	5 045	6 263	7 691	9 360	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 726	1 773	1 789	1 770	-	-	-	-
20	-	1 853	1 914	1 950	1 953	1 918	-	-	-
30	-	2 151	2 231	2 293	2 331	2 339	2 310	2 239	-
40	-	2 550	2 635	2 709	2 767	2 802	2 809	2 782	-
50	-	-	-	3 246	3 309	3 358	3 386	3 387	-
60	-	-	-	-	4 010	4 056	4 090	4 106	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.97	3.05	3.07	3.02	-	-	-	-
20	-	2.98	3.06	3.09	3.06	2.97	-	-	-
30	-	3.32	3.40	3.45	3.45	3.42	3.34	3.21	-
40	-	3.95	4.02	4.08	4.11	4.12	4.10	4.04	-
50	-	-	-	4.78	4.83	4.88	4.91	4.93	-
60	-	-	-	-	5.44	5.52	5.60	5.69	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	92	114	140	170	-	-	-	-
20	-	91	113	139	168	203	-	-	-
30	-	89	111	136	166	200	239	284	-
40	-	87	109	134	163	197	235	280	-
50	-	-	-	131	160	194	232	276	-
60	-	-	-	-	157	190	229	272	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.70	3.31	4.08	5.09	-	-	-	-
20	-	2.38	2.91	3.56	4.39	5.47	-	-	-
30	-	1.83	2.24	2.73	3.32	4.05	4.98	6.18	-
40	-	1.35	1.67	2.05	2.48	3.01	3.65	4.45	-
50	-	-	-	1.48	1.81	2.20	2.66	3.22	-
60	-	-	-	-	1.26	1.54	1.88	2.28	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 174	W
Power input	2 959	W
Current consumption	4.43	A
Mass flow	133	kg/h
C.O.P.	1.75	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 80 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 659	5 855	7 283	8 976	-	-	-	-
20	-	4 445	5 592	6 959	8 577	10 478	-	-	-
30	-	4 015	5 068	6 313	7 779	9 498	11 504	13 835	-
40	-	-	4 530	5 653	6 969	8 507	10 298	12 377	-
50	-	-	-	4 965	6 131	7 488	9 064	10 890	-
60	-	-	-	-	-	6 426	7 787	9 360	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 726	1 773	1 789	1 770	-	-	-	-
20	-	1 853	1 914	1 950	1 953	1 918	-	-	-
30	-	2 151	2 231	2 293	2 331	2 339	2 310	2 239	-
40	-	-	2 635	2 709	2 767	2 802	2 809	2 782	-
50	-	-	-	3 246	3 309	3 358	3 386	3 387	-
60	-	-	-	-	-	4 056	4 090	4 106	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.97	3.05	3.07	3.02	-	-	-	-
20	-	2.98	3.06	3.09	3.06	2.97	-	-	-
30	-	3.32	3.40	3.45	3.45	3.42	3.34	3.21	-
40	-	-	4.02	4.08	4.11	4.12	4.10	4.04	-
50	-	-	-	4.78	4.83	4.88	4.91	4.93	-
60	-	-	-	-	-	5.52	5.60	5.69	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	81	102	127	158	-	-	-	-
20	-	80	101	126	157	193	-	-	-
30	-	78	99	124	154	190	233	284	-
40	-	-	97	122	152	187	229	280	-
50	-	-	-	120	149	184	226	276	-
60	-	-	-	-	-	181	223	272	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.70	3.30	4.07	5.07	-	-	-	-
20	-	2.40	2.92	3.57	4.39	5.46	-	-	-
30	-	1.87	2.27	2.75	3.34	4.06	4.98	6.18	-
40	-	-	1.72	2.09	2.52	3.04	3.67	4.45	-
50	-	-	-	1.53	1.85	2.23	2.68	3.22	-
60	-	-	-	-	-	1.58	1.90	2.28	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 314	W
Power input	2 959	W
Current consumption	4.43	A
Mass flow	121	kg/h
C.O.P.	1.80	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 85 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 932	6 208	7 739	9 559	-	-	-	-
20	-	4 680	5 900	7 362	9 098	11 143	-	-	-
30	-	4 181	5 294	6 619	8 190	10 041	12 206	14 717	-
40	-	3 672	4 680	5 873	7 282	8 943	10 889	13 154	-
50	-	-	-	5 100	6 352	7 826	9 558	11 579	-
60	-	-	-	-	5 376	6 668	8 188	9 970	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 862	1 911	1 932	1 916	-	-	-	-
20	-	1 996	2 061	2 101	2 109	2 079	-	-	-
30	-	2 312	2 397	2 464	2 508	2 521	2 499	2 435	-
40	-	2 730	2 821	2 901	2 966	3 009	3 024	3 004	-
50	-	-	-	3 460	3 532	3 590	3 628	3 639	-
60	-	-	-	-	4 254	4 313	4 360	4 388	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.10	3.19	3.22	3.18	-	-	-	-
20	-	3.15	3.24	3.28	3.26	3.18	-	-	-
30	-	3.53	3.62	3.67	3.69	3.66	3.58	3.45	-
40	-	4.16	4.24	4.30	4.35	4.37	4.36	4.32	-
50	-	-	-	5.02	5.09	5.15	5.20	5.24	-
60	-	-	-	-	5.76	5.86	5.96	6.07	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	98	121	148	180	-	-	-	-
20	-	97	120	147	179	216	-	-	-
30	-	95	117	144	176	212	254	302	-
40	-	92	115	142	173	209	250	297	-
50	-	-	-	139	170	206	246	293	-
60	-	-	-	-	167	203	243	289	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.65	3.25	4.01	4.99	-	-	-	-
20	-	2.34	2.86	3.50	4.31	5.36	-	-	-
30	-	1.81	2.21	2.69	3.27	3.98	4.88	6.05	-
40	-	1.35	1.66	2.02	2.46	2.97	3.60	4.38	-
50	-	-	-	1.47	1.80	2.18	2.63	3.18	-
60	-	-	-	-	1.26	1.55	1.88	2.27	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 491	W
Power input	3 163	W
Current consumption	4.66	A
Mass flow	141	kg/h
C.O.P.	1.74	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 85 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 935	6 202	7 722	9 530	-	-	-	-
20	-	4 708	5 921	7 372	9 095	11 128	-	-	-
30	-	4 259	5 368	6 684	8 240	10 071	12 216	14 717	-
40	-	-	4 808	5 993	7 385	9 019	10 929	13 154	-
50	-	-	-	5 277	6 510	7 949	9 628	11 579	-
60	-	-	-	-	-	6 842	8 291	9 970	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 862	1 911	1 932	1 916	-	-	-	-
20	-	1 996	2 061	2 101	2 109	2 079	-	-	-
30	-	2 312	2 397	2 464	2 508	2 521	2 499	2 435	-
40	-	-	2 821	2 901	2 966	3 009	3 024	3 004	-
50	-	-	-	3 460	3 532	3 590	3 628	3 639	-
60	-	-	-	-	-	4 313	4 360	4 388	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.10	3.19	3.22	3.18	-	-	-	-
20	-	3.15	3.24	3.28	3.26	3.18	-	-	-
30	-	3.53	3.62	3.67	3.69	3.66	3.58	3.45	-
40	-	-	4.24	4.30	4.35	4.37	4.36	4.32	-
50	-	-	-	5.02	5.09	5.15	5.20	5.24	-
60	-	-	-	-	-	5.86	5.96	6.07	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	86	108	135	168	-	-	-	-
20	-	85	107	134	166	205	-	-	-
30	-	83	105	131	163	201	247	302	-
40	-	-	103	129	161	198	243	297	-
50	-	-	-	127	158	196	240	293	-
60	-	-	-	-	-	193	237	289	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.65	3.24	4.00	4.97	-	-	-	-
20	-	2.36	2.87	3.51	4.31	5.35	-	-	-
30	-	1.84	2.24	2.71	3.29	3.99	4.89	6.05	-
40	-	-	1.70	2.07	2.49	3.00	3.61	4.38	-
50	-	-	-	1.53	1.84	2.21	2.65	3.18	-
60	-	-	-	-	-	1.59	1.90	2.27	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 640	W
Power input	3 163	W
Current consumption	4.66	A
Mass flow	128	kg/h
C.O.P.	1.78	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 90 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 204	6 551	8 175	10 112	-	-	-	-
20	-	4 938	6 223	7 769	9 612	11 792	-	-	-
30	-	4 419	5 586	6 982	8 643	10 609	12 916	15 602	-
40	-	3 893	4 949	6 202	7 689	9 447	11 516	13 932	-
50	-	-	-	5 401	6 720	8 279	10 116	12 268	-
60	-	-	-	-	5 708	7 074	8 687	10 583	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 001	2 054	2 078	2 067	-	-	-	-
20	-	2 144	2 212	2 255	2 268	2 244	-	-	-
30	-	2 477	2 567	2 639	2 688	2 708	2 693	2 637	-
40	-	2 912	3 009	3 097	3 169	3 220	3 243	3 234	-
50	-	-	-	3 675	3 757	3 826	3 874	3 898	-
60	-	-	-	-	4 497	4 570	4 631	4 674	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.22	3.33	3.37	3.34	-	-	-	-
20	-	3.32	3.42	3.47	3.47	3.39	-	-	-
30	-	3.73	3.83	3.90	3.93	3.91	3.84	3.71	-
40	-	4.37	4.45	4.53	4.59	4.62	4.63	4.59	-
50	-	-	-	5.26	5.34	5.42	5.49	5.55	-
60	-	-	-	-	6.09	6.21	6.34	6.48	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	103	128	157	191	-	-	-	-
20	-	102	126	155	189	228	-	-	-
30	-	100	124	152	185	224	268	320	-
40	-	98	122	150	183	220	264	315	-
50	-	-	-	148	180	218	261	311	-
60	-	-	-	-	178	215	258	307	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.60	3.19	3.93	4.89	-	-	-	-
20	-	2.30	2.81	3.44	4.24	5.25	-	-	-
30	-	1.78	2.18	2.65	3.22	3.92	4.80	5.92	-
40	-	1.34	1.64	2.00	2.43	2.93	3.55	4.31	-
50	-	-	-	1.47	1.79	2.16	2.61	3.15	-
60	-	-	-	-	1.27	1.55	1.88	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 806	W
Power input	3 368	W
Current consumption	4.89	A
Mass flow	149	kg/h
C.O.P.	1.72	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 90 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 208	6 545	8 156	10 081	-	-	-	-
20	-	4 968	6 245	7 779	9 609	11 776	-	-	-
30	-	4 501	5 664	7 050	8 695	10 640	12 927	15 602	-
40	-	-	5 084	6 329	7 797	9 527	11 558	13 932	-
50	-	-	-	5 589	6 887	8 409	10 190	12 268	-
60	-	-	-	-	-	7 258	8 796	10 583	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 001	2 054	2 078	2 067	-	-	-	-
20	-	2 144	2 212	2 255	2 268	2 244	-	-	-
30	-	2 477	2 567	2 639	2 688	2 708	2 693	2 637	-
40	-	-	3 009	3 097	3 169	3 220	3 243	3 234	-
50	-	-	-	3 675	3 757	3 826	3 874	3 898	-
60	-	-	-	-	-	4 570	4 631	4 674	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.22	3.33	3.37	3.34	-	-	-	-
20	-	3.32	3.42	3.47	3.47	3.39	-	-	-
30	-	3.73	3.83	3.90	3.93	3.91	3.84	3.71	-
40	-	-	4.45	4.53	4.59	4.62	4.63	4.59	-
50	-	-	-	5.26	5.34	5.42	5.49	5.55	-
60	-	-	-	-	-	6.21	6.34	6.48	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	90	114	143	177	-	-	-	-
20	-	89	113	141	176	217	-	-	-
30	-	88	111	139	172	213	261	320	-
40	-	-	109	137	170	210	257	315	-
50	-	-	-	135	168	207	254	311	-
60	-	-	-	-	-	205	251	307	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.60	3.19	3.93	4.88	-	-	-	-
20	-	2.32	2.82	3.45	4.24	5.25	-	-	-
30	-	1.82	2.21	2.67	3.24	3.93	4.80	5.92	-
40	-	-	1.69	2.04	2.46	2.96	3.56	4.31	-
50	-	-	-	1.52	1.83	2.20	2.63	3.15	-
60	-	-	-	-	-	1.59	1.90	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 963	W
Power input	3 368	W
Current consumption	4.89	A
Mass flow	136	kg/h
C.O.P.	1.77	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 95 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 473	6 891	8 606	10 662	-	-	-	-
20	-	5 193	6 542	8 171	10 123	12 439	-	-	-
30	-	4 654	5 874	7 339	9 091	11 172	13 624	16 490	-
40	-	4 114	5 216	6 528	8 091	9 947	12 139	14 710	-
50	-	-	-	5 701	7 086	8 729	10 672	12 958	-
60	-	-	-	-	6 040	7 481	9 187	11 199	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 144	2 199	2 228	2 223	-	-	-	-
20	-	2 295	2 366	2 414	2 432	2 415	-	-	-
30	-	2 647	2 740	2 817	2 872	2 899	2 893	2 848	-
40	-	3 097	3 201	3 296	3 376	3 435	3 469	3 470	-
50	-	-	-	3 891	3 984	4 064	4 126	4 162	-
60	-	-	-	-	4 739	4 828	4 905	4 965	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.34	3.46	3.52	3.49	-	-	-	-
20	-	3.49	3.61	3.67	3.67	3.60	-	-	-
30	-	3.94	4.05	4.13	4.17	4.17	4.11	3.98	-
40	-	4.57	4.66	4.75	4.82	4.88	4.90	4.88	-
50	-	-	-	5.49	5.59	5.69	5.78	5.86	-
60	-	-	-	-	6.43	6.57	6.72	6.89	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	108	134	165	201	-	-	-	-
20	-	107	133	163	199	241	-	-	-
30	-	105	130	160	195	236	283	338	-
40	-	103	128	158	192	232	279	332	-
50	-	-	-	156	190	230	275	328	-
60	-	-	-	-	188	228	273	325	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.55	3.13	3.86	4.80	-	-	-	-
20	-	2.26	2.76	3.39	4.16	5.15	-	-	-
30	-	1.76	2.14	2.61	3.17	3.85	4.71	5.79	-
40	-	1.33	1.63	1.98	2.40	2.90	3.50	4.24	-
50	-	-	-	1.47	1.78	2.15	2.59	3.11	-
60	-	-	-	-	1.27	1.55	1.87	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 118	W
Power input	3 576	W
Current consumption	5.11	A
Mass flow	157	kg/h
C.O.P.	1.71	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 95 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 477	6 884	8 587	10 629	-	-	-	-
20	-	5 224	6 565	8 182	10 119	12 423	-	-	-
30	-	4 740	5 956	7 411	9 146	11 205	13 636	16 490	-
40	-	-	5 359	6 661	8 205	10 031	12 184	14 710	-
50	-	-	-	5 899	7 262	8 866	10 751	12 958	-
60	-	-	-	-	-	7 676	9 302	11 199	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 144	2 199	2 228	2 223	-	-	-	-
20	-	2 295	2 366	2 414	2 432	2 415	-	-	-
30	-	2 647	2 740	2 817	2 872	2 899	2 893	2 848	-
40	-	-	3 201	3 296	3 376	3 435	3 469	3 470	-
50	-	-	-	3 891	3 984	4 064	4 126	4 162	-
60	-	-	-	-	-	4 828	4 905	4 965	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.34	3.46	3.52	3.49	-	-	-	-
20	-	3.49	3.61	3.67	3.67	3.60	-	-	-
30	-	3.94	4.05	4.13	4.17	4.17	4.11	3.98	-
40	-	-	4.66	4.75	4.82	4.88	4.90	4.88	-
50	-	-	-	5.49	5.59	5.69	5.78	5.86	-
60	-	-	-	-	-	6.57	6.72	6.89	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	95	120	150	187	-	-	-	-
20	-	94	119	148	185	229	-	-	-
30	-	92	116	146	181	224	276	338	-
40	-	-	115	144	179	221	271	332	-
50	-	-	-	142	177	218	268	328	-
60	-	-	-	-	-	216	266	325	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.55	3.13	3.85	4.78	-	-	-	-
20	-	2.28	2.77	3.39	4.16	5.14	-	-	-
30	-	1.79	2.17	2.63	3.18	3.87	4.71	5.79	-
40	-	-	1.67	2.02	2.43	2.92	3.51	4.24	-
50	-	-	-	1.52	1.82	2.18	2.61	3.11	-
60	-	-	-	-	-	1.59	1.90	2.26	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 284	W
Power input	3 576	W
Current consumption	5.11	A
Mass flow	143	kg/h
C.O.P.	1.76	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 100 Hz, EN 12900 rating conditions

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 738	7 226	9 034	11 210	-	-	-	-
20	-	5 444	6 856	8 568	10 629	13 085	-	-	-
30	-	4 887	6 158	7 691	9 533	11 731	14 331	17 380	-
40	-	4 335	5 481	6 850	8 488	10 443	12 760	15 488	-
50	-	-	-	5 999	7 450	9 177	11 228	13 649	-
60	-	-	-	-	6 374	7 889	9 688	11 819	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 291	2 349	2 381	2 383	-	-	-	-
20	-	2 451	2 524	2 576	2 600	2 591	-	-	-
30	-	2 820	2 917	2 999	3 060	3 095	3 099	3 066	-
40	-	3 286	3 396	3 497	3 586	3 654	3 699	3 714	-
50	-	-	-	4 108	4 213	4 306	4 381	4 433	-
60	-	-	-	-	4 979	5 085	5 181	5 260	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.45	3.59	3.66	3.64	-	-	-	-
20	-	3.66	3.79	3.87	3.89	3.82	-	-	-
30	-	4.15	4.27	4.37	4.43	4.44	4.39	4.26	-
40	-	4.77	4.87	4.97	5.06	5.14	5.17	5.17	-
50	-	-	-	5.72	5.83	5.96	6.07	6.18	-
60	-	-	-	-	6.77	6.93	7.12	7.32	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	114	141	173	212	-	-	-	-
20	-	112	139	171	209	253	-	-	-
30	-	110	137	168	204	247	298	356	-
40	-	109	135	166	201	244	293	350	-
50	-	-	-	164	200	241	290	345	-
60	-	-	-	-	198	240	288	343	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.50	3.08	3.79	4.70	-	-	-	-
20	-	2.22	2.72	3.33	4.09	5.05	-	-	-
30	-	1.73	2.11	2.56	3.12	3.79	4.62	5.67	-
40	-	1.32	1.61	1.96	2.37	2.86	3.45	4.17	-
50	-	-	-	1.46	1.77	2.13	2.56	3.08	-
60	-	-	-	-	1.28	1.55	1.87	2.25	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 429	W
Power input	3 787	W
Current consumption	5.32	A
Mass flow	165	kg/h
C.O.P.	1.70	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 100 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R449A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 742	7 219	9 014	11 176	-	-	-	-
20	-	5 477	6 880	8 580	10 626	13 068	-	-	-
30	-	4 978	6 244	7 766	9 591	11 766	14 343	17 380	-
40	-	-	5 631	6 990	8 608	10 531	12 807	15 488	-
50	-	-	-	6 208	7 635	9 321	11 310	13 649	-
60	-	-	-	-	-	8 094	9 810	11 819	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 291	2 349	2 381	2 383	-	-	-	-
20	-	2 451	2 524	2 576	2 600	2 591	-	-	-
30	-	2 820	2 917	2 999	3 060	3 095	3 099	3 066	-
40	-	-	3 396	3 497	3 586	3 654	3 699	3 714	-
50	-	-	-	4 108	4 213	4 306	4 381	4 433	-
60	-	-	-	-	-	5 085	5 181	5 260	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.45	3.59	3.66	3.64	-	-	-	-
20	-	3.66	3.79	3.87	3.89	3.82	-	-	-
30	-	4.15	4.27	4.37	4.43	4.44	4.39	4.26	-
40	-	-	4.87	4.97	5.06	5.14	5.17	5.17	-
50	-	-	-	5.72	5.83	5.96	6.07	6.18	-
60	-	-	-	-	-	6.93	7.12	7.32	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	100	126	158	197	-	-	-	-
20	-	98	124	156	194	241	-	-	-
30	-	97	122	153	190	235	290	356	-
40	-	-	121	151	187	232	285	350	-
50	-	-	-	149	186	229	282	345	-
60	-	-	-	-	-	228	280	343	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.51	3.07	3.79	4.69	-	-	-	-
20	-	2.23	2.73	3.33	4.09	5.04	-	-	-
30	-	1.76	2.14	2.59	3.13	3.80	4.63	5.67	-
40	-	-	1.66	2.00	2.40	2.88	3.46	4.17	-
50	-	-	-	1.51	1.81	2.16	2.58	3.08	-
60	-	-	-	-	-	1.59	1.89	2.25	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 603	W
Power input	3 787	W
Current consumption	5.32	A
Mass flow	150	kg/h
C.O.P.	1.74	

Pressure switch settings

Maximum HP switch setting	27.4	bar(g)
Minimum LP switch setting	0.8	bar(g)
LP pump down setting	1.1	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 30 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 531	1 936	2 421	2 996	3 669	-	-	-	-
20	1 431	1 822	2 288	2 839	3 483	4 232	-	-	-
30	1 223	1 580	2 003	2 501	3 085	3 763	4 545	5 440	-
40	-	-	1 692	2 132	2 647	3 248	3 944	4 743	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	644	647	641	621	581	-	-	-	-
20	700	709	710	701	675	629	-	-	-
30	834	845	856	861	857	839	802	740	-
40	-	-	1 032	1 044	1 052	1 053	1 040	1 010	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.28	1.29	1.28	1.24	1.18	-	-	-	-
20	1.37	1.38	1.38	1.36	1.32	1.26	-	-	-
30	1.57	1.59	1.61	1.61	1.60	1.57	1.52	1.45	-
40	-	-	1.88	1.89	1.90	1.89	1.87	1.84	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	39	49	60	72	87	-	-	-	-
20	39	48	60	72	87	103	-	-	-
30	38	47	59	71	86	103	121	143	-
40	-	-	57	70	84	101	120	141	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.38	2.99	3.78	4.83	6.32	-	-	-	-
20	2.04	2.57	3.22	4.05	5.16	6.73	-	-	-
30	1.47	1.87	2.34	2.90	3.60	4.48	5.67	7.35	-
40	-	-	1.64	2.04	2.52	3.08	3.79	4.69	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 30 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 596	2 002	2 485	3 052	3 713	-	-	-	-
20	1 507	1 900	2 365	2 909	3 541	4 273	-	-	-
30	1 319	1 682	2 106	2 599	3 169	3 826	4 579	5 440	-
40	-	-	1 822	2 257	2 759	3 334	3 993	4 743	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	644	647	641	621	581	-	-	-	-
20	700	709	710	701	675	629	-	-	-
30	834	845	856	861	857	839	802	740	-
40	-	-	1 032	1 044	1 052	1 053	1 040	1 010	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.28	1.29	1.28	1.24	1.18	-	-	-	-
20	1.37	1.38	1.38	1.36	1.32	1.26	-	-	-
30	1.57	1.59	1.61	1.61	1.60	1.57	1.52	1.45	-
40	-	-	1.88	1.89	1.90	1.89	1.87	1.84	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	34	43	53	66	80	-	-	-	-
20	33	42	53	65	80	98	-	-	-
30	32	41	52	65	80	97	118	143	-
40	-	-	50	63	78	96	116	141	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.48	3.09	3.88	4.92	6.40	-	-	-	-
20	2.15	2.68	3.33	4.15	5.24	6.79	-	-	-
30	1.58	1.99	2.46	3.02	3.70	4.56	5.71	7.35	-
40	-	-	1.76	2.16	2.62	3.17	3.84	4.69	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 35 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 809	2 286	2 858	3 535	4 329	-	-	-	-
20	1 694	2 152	2 700	3 347	4 106	4 987	-	-	-
30	1 455	1 871	2 366	2 949	3 633	4 427	5 343	6 392	-
40	-	-	2 007	2 519	3 120	3 821	4 632	5 566	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	731	733	725	702	659	-	-	-	-
20	798	806	806	794	766	717	-	-	-
30	954	967	978	982	976	955	914	850	-
40	-	-	1 183	1 195	1 203	1 201	1 186	1 153	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.42	1.45	1.44	1.39	1.32	-	-	-	-
20	1.52	1.56	1.55	1.52	1.46	1.39	-	-	-
30	1.76	1.80	1.82	1.80	1.76	1.71	1.66	1.62	-
40	-	-	2.13	2.13	2.10	2.07	2.04	2.02	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	46	58	71	86	103	-	-	-	-
20	46	57	70	85	102	122	-	-	-
30	45	56	69	84	101	121	143	168	-
40	-	-	67	82	99	119	141	166	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.48	3.12	3.94	5.04	6.57	-	-	-	-
20	2.12	2.67	3.35	4.21	5.36	6.96	-	-	-
30	1.52	1.94	2.42	3.00	3.72	4.64	5.85	7.52	-
40	-	-	1.70	2.11	2.59	3.18	3.91	4.83	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 35 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	1 886	2 364	2 933	3 601	4 382	-	-	-	-
20	1 783	2 245	2 790	3 430	4 174	5 035	-	-	-
30	1 570	1 993	2 488	3 065	3 732	4 502	5 384	6 392	-
40	-	-	2 160	2 667	3 251	3 923	4 690	5 566	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	731	733	725	702	659	-	-	-	-
20	798	806	806	794	766	717	-	-	-
30	954	967	978	982	976	955	914	850	-
40	-	-	1 183	1 195	1 203	1 201	1 186	1 153	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.42	1.45	1.44	1.39	1.32	-	-	-	-
20	1.52	1.56	1.55	1.52	1.46	1.39	-	-	-
30	1.76	1.80	1.82	1.80	1.76	1.71	1.66	1.62	-
40	-	-	2.13	2.13	2.10	2.07	2.04	2.02	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	40	50	63	77	95	-	-	-	-
20	39	50	62	77	95	115	-	-	-
30	38	49	61	76	94	114	139	168	-
40	-	-	60	75	92	112	137	166	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.58	3.22	4.04	5.13	6.65	-	-	-	-
20	2.23	2.78	3.46	4.32	5.45	7.03	-	-	-
30	1.64	2.06	2.54	3.12	3.82	4.72	5.89	7.52	-
40	-	-	1.83	2.23	2.70	3.27	3.95	4.83	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 40 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 084	2 632	3 289	4 068	4 982	-	-	-	-
20	1 953	2 478	3 107	3 851	4 722	5 735	-	-	-
30	1 684	2 160	2 726	3 393	4 176	5 086	6 137	7 340	-
40	-	-	2 318	2 903	3 589	4 390	5 318	6 386	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	825	828	818	793	748	-	-	-	-
20	903	911	911	897	866	814	-	-	-
30	1 080	1 096	1 108	1 112	1 104	1 080	1 037	969	-
40	-	-	1 340	1 354	1 362	1 359	1 342	1 306	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.57	1.62	1.60	1.55	1.46	-	-	-	-
20	1.68	1.73	1.73	1.68	1.61	1.53	-	-	-
30	1.95	2.02	2.03	1.99	1.94	1.87	1.82	1.79	-
40	-	-	2.39	2.36	2.32	2.27	2.23	2.22	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	54	66	81	98	118	-	-	-	-
20	53	66	81	98	118	140	-	-	-
30	52	65	80	97	116	139	164	193	-
40	-	-	78	95	114	137	162	190	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.53	3.18	4.02	5.13	6.66	-	-	-	-
20	2.16	2.72	3.41	4.29	5.45	7.04	-	-	-
30	1.56	1.97	2.46	3.05	3.78	4.71	5.92	7.57	-
40	-	-	1.73	2.14	2.64	3.23	3.96	4.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 40 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 173	2 722	3 375	4 145	5 043	-	-	-	-
20	2 057	2 585	3 211	3 946	4 801	5 790	-	-	-
30	1 817	2 300	2 866	3 526	4 291	5 172	6 183	7 340	-
40	-	-	2 495	3 073	3 740	4 507	5 385	6 386	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	825	828	818	793	748	-	-	-	-
20	903	911	911	897	866	814	-	-	-
30	1 080	1 096	1 108	1 112	1 104	1 080	1 037	969	-
40	-	-	1 340	1 354	1 362	1 359	1 342	1 306	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.57	1.62	1.60	1.55	1.46	-	-	-	-
20	1.68	1.73	1.73	1.68	1.61	1.53	-	-	-
30	1.95	2.02	2.03	1.99	1.94	1.87	1.82	1.79	-
40	-	-	2.39	2.36	2.32	2.27	2.23	2.22	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	46	58	72	89	109	-	-	-	-
20	45	57	72	89	109	133	-	-	-
30	44	56	71	88	108	131	159	193	-
40	-	-	69	86	106	129	157	190	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.63	3.29	4.12	5.23	6.74	-	-	-	-
20	2.28	2.84	3.53	4.40	5.54	7.11	-	-	-
30	1.68	2.10	2.59	3.17	3.89	4.79	5.96	7.57	-
40	-	-	1.86	2.27	2.75	3.32	4.01	4.89	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 45 Hz, EN 12900 rating conditions

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 356	2 974	3 715	4 596	5 629	-	-	-	-
20	2 210	2 801	3 509	4 348	5 333	6 477	-	-	-
30	1 911	2 446	3 082	3 833	4 715	5 741	6 926	8 283	-
40	-	-	2 626	3 283	4 056	4 957	6 001	7 204	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	927	930	921	894	847	-	-	-	-
20	1 013	1 024	1 024	1 010	977	922	-	-	-
30	1 211	1 231	1 245	1 250	1 241	1 216	1 170	1 099	-
40	-	-	1 503	1 520	1 529	1 526	1 508	1 470	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.72	1.79	1.77	1.71	1.62	-	-	-	-
20	1.84	1.91	1.91	1.85	1.76	1.68	-	-	-
30	2.14	2.23	2.24	2.19	2.12	2.04	1.99	1.98	-
40	-	-	2.64	2.60	2.54	2.47	2.43	2.42	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	61	75	92	111	133	-	-	-	-
20	60	75	91	111	133	158	-	-	-
30	59	73	90	109	131	157	185	217	-
40	-	-	88	107	129	154	182	214	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.54	3.20	4.04	5.14	6.65	-	-	-	-
20	2.18	2.74	3.43	4.31	5.46	7.02	-	-	-
30	1.58	1.99	2.48	3.07	3.80	4.72	5.92	7.54	-
40	-	-	1.75	2.16	2.65	3.25	3.98	4.90	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 45 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	2 457	3 075	3 813	4 682	5 698	-	-	-	-
20	2 327	2 922	3 627	4 456	5 422	6 539	-	-	-
30	2 062	2 604	3 241	3 983	4 844	5 838	6 978	8 283	-
40	-	-	2 827	3 476	4 226	5 089	6 076	7 204	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	927	930	921	894	847	-	-	-	-
20	1 013	1 024	1 024	1 010	977	922	-	-	-
30	1 211	1 231	1 245	1 250	1 241	1 216	1 170	1 099	-
40	-	-	1 503	1 520	1 529	1 526	1 508	1 470	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	1.72	1.79	1.77	1.71	1.62	-	-	-	-
20	1.84	1.91	1.91	1.85	1.76	1.68	-	-	-
30	2.14	2.23	2.24	2.19	2.12	2.04	1.99	1.98	-
40	-	-	2.64	2.60	2.54	2.47	2.43	2.42	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	52	65	81	101	124	-	-	-	-
20	51	65	81	100	123	150	-	-	-
30	50	64	80	99	122	148	180	217	-
40	-	-	78	97	120	146	177	214	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	2.65	3.31	4.14	5.24	6.73	-	-	-	-
20	2.30	2.85	3.54	4.41	5.55	7.09	-	-	-
30	1.70	2.12	2.60	3.19	3.90	4.80	5.97	7.54	-
40	-	-	1.88	2.29	2.76	3.33	4.03	4.90	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	bar(g)

Sound power data

Sound power level		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 311	4 137	5 117	6 269	-	-	-	-
20	-	3 120	3 907	4 841	5 937	7 212	-	-	-
30	-	2 728	3 434	4 269	5 249	6 391	7 709	9 222	-
40	-	2 314	2 932	3 661	4 518	5 520	6 681	8 019	-
50	-	1 868	2 390	3 007	3 734	4 589	5 586	6 742	-
60	-	-	1 797	2 295	2 886	3 586	4 413	5 380	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 041	1 032	1 005	955	-	-	-	-
20	-	1 144	1 146	1 132	1 098	1 040	-	-	-
30	-	1 372	1 389	1 396	1 388	1 362	1 313	1 238	-
40	-	1 646	1 672	1 693	1 705	1 703	1 684	1 644	-
50	-	1 990	2 018	2 046	2 070	2 086	2 090	2 078	-
60	-	-	2 450	2 478	2 508	2 534	2 554	2 563	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	1.96	1.94	1.88	1.78	-	-	-	-
20	-	2.09	2.09	2.02	1.93	1.84	-	-	-
30	-	2.44	2.45	2.39	2.31	2.22	2.17	2.16	-
40	-	2.86	2.89	2.84	2.77	2.69	2.64	2.64	-
50	-	3.36	3.39	3.36	3.29	3.22	3.18	3.19	-
60	-	-	3.94	3.92	3.86	3.80	3.76	3.77	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	84	102	124	149	-	-	-	-
20	-	83	102	123	148	176	-	-	-
30	-	82	100	122	146	174	206	242	-
40	-	80	98	120	144	172	203	239	-
50	-	77	96	117	141	168	199	234	-
60	-	-	92	113	137	164	195	229	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.18	4.01	5.09	6.56	-	-	-	-
20	-	2.73	3.41	4.28	5.41	6.93	-	-	-
30	-	1.99	2.47	3.06	3.78	4.69	5.87	7.45	-
40	-	1.41	1.75	2.16	2.65	3.24	3.97	4.88	-
50	-	0.94	1.18	1.47	1.80	2.20	2.67	3.24	-
60	-	-	0.73	0.93	1.15	1.42	1.73	2.10	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 341	W
Power input	1 861	W
Current consumption	3.10	A
Mass flow	118	kg/h
C.O.P.	1.79	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 424	4 245	5 213	6 345	-	-	-	-
20	-	3 254	4 038	4 961	6 036	7 281	-	-	-
30	-	2 905	3 611	4 436	5 393	6 498	7 768	9 222	-
40	-	2 534	3 156	3 876	4 709	5 667	6 765	8 019	-
50	-	-	2 660	3 270	3 971	4 776	5 695	6 742	-
60	-	-	-	2 608	3 172	3 817	4 550	5 380	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 041	1 032	1 005	955	-	-	-	-
20	-	1 144	1 146	1 132	1 098	1 040	-	-	-
30	-	1 372	1 389	1 396	1 388	1 362	1 313	1 238	-
40	-	1 646	1 672	1 693	1 705	1 703	1 684	1 644	-
50	-	-	2 018	2 046	2 070	2 086	2 090	2 078	-
60	-	-	-	2 478	2 508	2 534	2 554	2 563	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	1.96	1.94	1.88	1.78	-	-	-	-
20	-	2.09	2.09	2.02	1.93	1.84	-	-	-
30	-	2.44	2.45	2.39	2.31	2.22	2.17	2.16	-
40	-	2.86	2.89	2.84	2.77	2.69	2.64	2.64	-
50	-	-	3.39	3.36	3.29	3.22	3.18	3.19	-
60	-	-	-	3.92	3.86	3.80	3.76	3.77	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	73	91	112	138	-	-	-	-
20	-	72	90	112	137	167	-	-	-
30	-	71	89	110	135	165	200	242	-
40	-	70	87	108	133	162	197	239	-
50	-	-	85	106	130	159	194	234	-
60	-	-	-	103	127	155	189	229	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.29	4.11	5.19	6.64	-	-	-	-
20	-	2.84	3.52	4.38	5.50	7.00	-	-	-
30	-	2.12	2.60	3.18	3.89	4.77	5.92	7.45	-
40	-	1.54	1.89	2.29	2.76	3.33	4.02	4.88	-
50	-	-	1.32	1.60	1.92	2.29	2.73	3.24	-
60	-	-	-	1.05	1.26	1.51	1.78	2.10	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 579	W
Power input	1 861	W
Current consumption	3.10	A
Mass flow	107	kg/h
C.O.P.	1.92	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 55 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 645	4 553	5 632	6 901	-	-	-	-
20	-	3 435	4 301	5 328	6 535	7 940	-	-	-
30	-	3 008	3 783	4 700	5 779	7 035	8 488	10 156	-
40	-	2 557	3 235	4 036	4 978	6 080	7 358	8 832	-
50	-	2 070	2 643	3 321	4 120	5 060	6 157	7 430	-
60	-	-	1 994	2 541	3 191	3 962	4 871	5 936	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 160	1 153	1 125	1 074	-	-	-	-
20	-	1 272	1 276	1 263	1 228	1 168	-	-	-
30	-	1 519	1 541	1 551	1 544	1 518	1 467	1 388	-
40	-	1 816	1 848	1 874	1 889	1 889	1 870	1 829	-
50	-	2 186	2 221	2 255	2 284	2 304	2 310	2 299	-
60	-	-	2 683	2 719	2 755	2 787	2 811	2 824	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.13	2.12	2.05	1.94	-	-	-	-
20	-	2.27	2.27	2.21	2.11	2.01	-	-	-
30	-	2.65	2.66	2.60	2.51	2.42	2.36	2.36	-
40	-	3.11	3.13	3.09	3.01	2.93	2.87	2.87	-
50	-	3.63	3.67	3.64	3.57	3.49	3.44	3.46	-
60	-	-	4.24	4.22	4.16	4.10	4.06	4.07	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	92	112	136	164	-	-	-	-
20	-	91	112	136	163	194	-	-	-
30	-	90	110	134	161	192	227	267	-
40	-	88	109	132	159	189	224	263	-
50	-	86	106	129	155	186	220	258	-
60	-	-	103	125	152	181	215	253	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.14	3.95	5.01	6.43	-	-	-	-
20	-	2.70	3.37	4.22	5.32	6.80	-	-	-
30	-	1.98	2.45	3.03	3.74	4.64	5.79	7.32	-
40	-	1.41	1.75	2.15	2.64	3.22	3.93	4.83	-
50	-	0.95	1.19	1.47	1.80	2.20	2.67	3.23	-
60	-	-	0.74	0.93	1.16	1.42	1.73	2.10	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 685	W
Power input	2 056	W
Current consumption	3.36	A
Mass flow	131	kg/h
C.O.P.	1.79	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 55 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 769	4 672	5 738	6 986	-	-	-	-
20	-	3 583	4 445	5 460	6 644	8 016	-	-	-
30	-	3 203	3 978	4 884	5 937	7 154	8 553	10 156	-
40	-	2 800	3 481	4 272	5 188	6 242	7 450	8 832	-
50	-	-	2 941	3 611	4 381	5 266	6 278	7 430	-
60	-	-	-	2 888	3 508	4 216	5 023	5 936	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 160	1 153	1 125	1 074	-	-	-	-
20	-	1 272	1 276	1 263	1 228	1 168	-	-	-
30	-	1 519	1 541	1 551	1 544	1 518	1 467	1 388	-
40	-	1 816	1 848	1 874	1 889	1 889	1 870	1 829	-
50	-	-	2 221	2 255	2 284	2 304	2 310	2 299	-
60	-	-	-	2 719	2 755	2 787	2 811	2 824	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.13	2.12	2.05	1.94	-	-	-	-
20	-	2.27	2.27	2.21	2.11	2.01	-	-	-
30	-	2.65	2.66	2.60	2.51	2.42	2.36	2.36	-
40	-	3.11	3.13	3.09	3.01	2.93	2.87	2.87	-
50	-	-	3.67	3.64	3.57	3.49	3.44	3.46	-
60	-	-	-	4.22	4.16	4.10	4.06	4.07	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	80	100	123	151	-	-	-	-
20	-	80	99	123	151	184	-	-	-
30	-	79	98	121	149	182	220	267	-
40	-	77	96	119	147	179	217	263	-
50	-	-	94	117	144	176	213	258	-
60	-	-	-	114	140	172	209	253	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.25	4.05	5.10	6.51	-	-	-	-
20	-	2.82	3.48	4.32	5.41	6.86	-	-	-
30	-	2.11	2.58	3.15	3.84	4.71	5.83	7.32	-
40	-	1.54	1.88	2.28	2.75	3.30	3.98	4.83	-
50	-	-	1.32	1.60	1.92	2.29	2.72	3.23	-
60	-	-	-	1.06	1.27	1.51	1.79	2.10	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 949	W
Power input	2 056	W
Current consumption	3.36	A
Mass flow	118	kg/h
C.O.P.	1.92	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	3 974	4 964	6 142	7 527	-	-	-	-
20	-	3 747	4 690	5 810	7 127	8 662	-	-	-
30	-	3 284	4 128	5 128	6 304	7 675	9 263	11 085	-
40	-	2 797	3 535	4 407	5 434	6 636	8 032	9 643	-
50	-	2 269	2 894	3 632	4 504	5 529	6 727	8 117	-
60	-	-	2 190	2 786	3 495	4 336	5 329	6 493	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 287	1 282	1 255	1 202	-	-	-	-
20	-	1 407	1 415	1 404	1 369	1 306	-	-	-
30	-	1 673	1 700	1 714	1 710	1 684	1 631	1 548	-
40	-	1 992	2 030	2 062	2 081	2 084	2 066	2 024	-
50	-	2 388	2 430	2 471	2 506	2 530	2 540	2 531	-
60	-	-	2 924	2 967	3 009	3 047	3 076	3 092	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.30	2.30	2.23	2.12	-	-	-	-
20	-	2.46	2.46	2.39	2.29	2.19	-	-	-
30	-	2.86	2.87	2.81	2.72	2.63	2.56	2.56	-
40	-	3.35	3.37	3.33	3.25	3.17	3.11	3.12	-
50	-	3.91	3.94	3.91	3.84	3.77	3.73	3.74	-
60	-	-	4.55	4.53	4.47	4.41	4.37	4.39	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	100	123	149	179	-	-	-	-
20	-	100	122	148	178	212	-	-	-
30	-	98	121	146	176	209	248	291	-
40	-	97	119	144	173	206	244	287	-
50	-	94	116	141	170	203	240	282	-
60	-	-	113	138	166	198	235	277	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.09	3.87	4.89	6.26	-	-	-	-
20	-	2.66	3.31	4.14	5.21	6.63	-	-	-
30	-	1.96	2.43	2.99	3.69	4.56	5.68	7.16	-
40	-	1.40	1.74	2.14	2.61	3.18	3.89	4.76	-
50	-	0.95	1.19	1.47	1.80	2.19	2.65	3.21	-
60	-	-	0.75	0.94	1.16	1.42	1.73	2.10	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 027	W
Power input	2 257	W
Current consumption	3.62	A
Mass flow	143	kg/h
C.O.P.	1.78	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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, EN 12900 rating conditions, Suction temp. = 20 °C
R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 110	5 094	6 257	7 619	-	-	-	-
20	-	3 908	4 847	5 953	7 246	8 745	-	-	-
30	-	3 497	4 341	5 328	6 477	7 805	9 333	11 085	-
40	-	3 063	3 804	4 666	5 663	6 813	8 133	9 643	-
50	-	-	3 221	3 949	4 789	5 754	6 858	8 117	-
60	-	-	-	3 166	3 842	4 615	5 496	6 493	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 287	1 282	1 255	1 202	-	-	-	-
20	-	1 407	1 415	1 404	1 369	1 306	-	-	-
30	-	1 673	1 700	1 714	1 710	1 684	1 631	1 548	-
40	-	1 992	2 030	2 062	2 081	2 084	2 066	2 024	-
50	-	-	2 430	2 471	2 506	2 530	2 540	2 531	-
60	-	-	-	2 967	3 009	3 047	3 076	3 092	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.30	2.30	2.23	2.12	-	-	-	-
20	-	2.46	2.46	2.39	2.29	2.19	-	-	-
30	-	2.86	2.87	2.81	2.72	2.63	2.56	2.56	-
40	-	3.35	3.37	3.33	3.25	3.17	3.11	3.12	-
50	-	-	3.94	3.91	3.84	3.77	3.73	3.74	-
60	-	-	-	4.53	4.47	4.41	4.37	4.39	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	87	109	135	165	-	-	-	-
20	-	87	108	134	164	200	-	-	-
30	-	86	107	132	162	198	240	291	-
40	-	84	105	130	160	195	237	287	-
50	-	-	103	128	157	192	233	282	-
60	-	-	-	125	154	188	228	277	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.19	3.97	4.98	6.34	-	-	-	-
20	-	2.78	3.42	4.24	5.29	6.70	-	-	-
30	-	2.09	2.55	3.11	3.79	4.63	5.72	7.16	-
40	-	1.54	1.87	2.26	2.72	3.27	3.94	4.76	-
50	-	-	1.33	1.60	1.91	2.27	2.70	3.21	-
60	-	-	-	1.07	1.28	1.51	1.79	2.10	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 315	W
Power input	2 257	W
Current consumption	3.62	A
Mass flow	129	kg/h
C.O.P.	1.91	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 65 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 299	5 370	6 645	8 146	-	-	-	-
20	-	4 054	5 074	6 286	7 713	9 377	-	-	-
30	-	3 557	4 469	5 551	6 824	8 311	10 032	12 010	-
40	-	3 034	3 832	4 775	5 888	7 190	8 704	10 451	-
50	-	2 467	3 143	3 941	4 885	5 996	7 295	8 805	-
60	-	-	2 383	3 030	3 798	4 710	5 788	7 052	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 422	1 421	1 395	1 340	-	-	-	-
20	-	1 550	1 563	1 554	1 520	1 454	-	-	-
30	-	1 833	1 867	1 886	1 885	1 860	1 806	1 717	-
40	-	2 174	2 219	2 257	2 281	2 288	2 273	2 230	-
50	-	2 597	2 645	2 693	2 734	2 764	2 778	2 772	-
60	-	-	3 172	3 221	3 270	3 314	3 349	3 370	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.48	2.48	2.41	2.30	-	-	-	-
20	-	2.64	2.65	2.59	2.49	2.38	-	-	-
30	-	3.06	3.08	3.03	2.95	2.85	2.78	2.76	-
40	-	3.59	3.61	3.58	3.50	3.43	3.37	3.37	-
50	-	4.18	4.22	4.19	4.13	4.06	4.02	4.04	-
60	-	-	4.85	4.83	4.78	4.73	4.70	4.74	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	108	133	161	193	-	-	-	-
20	-	108	132	160	192	229	-	-	-
30	-	107	131	158	190	227	268	315	-
40	-	105	129	156	188	224	265	311	-
50	-	102	126	153	184	220	260	306	-
60	-	-	123	150	180	215	255	300	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.02	3.78	4.76	6.08	-	-	-	-
20	-	2.61	3.25	4.04	5.08	6.45	-	-	-
30	-	1.94	2.39	2.94	3.62	4.47	5.56	6.99	-
40	-	1.40	1.73	2.12	2.58	3.14	3.83	4.69	-
50	-	0.95	1.19	1.46	1.79	2.17	2.63	3.18	-
60	-	-	0.75	0.94	1.16	1.42	1.73	2.09	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 367	W
Power input	2 465	W
Current consumption	3.88	A
Mass flow	155	kg/h
C.O.P.	1.77	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 65 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 446	5 510	6 770	8 246	-	-	-	-
20	-	4 229	5 244	6 442	7 842	9 467	-	-	-
30	-	3 788	4 700	5 768	7 011	8 451	10 108	12 010	-
40	-	3 323	4 124	5 056	6 135	7 381	8 812	10 451	-
50	-	-	3 497	4 286	5 195	6 240	7 438	8 805	-
60	-	-	-	3 443	4 175	5 013	5 968	7 052	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 422	1 421	1 395	1 340	-	-	-	-
20	-	1 550	1 563	1 554	1 520	1 454	-	-	-
30	-	1 833	1 867	1 886	1 885	1 860	1 806	1 717	-
40	-	2 174	2 219	2 257	2 281	2 288	2 273	2 230	-
50	-	-	2 645	2 693	2 734	2 764	2 778	2 772	-
60	-	-	-	3 221	3 270	3 314	3 349	3 370	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.48	2.48	2.41	2.30	-	-	-	-
20	-	2.64	2.65	2.59	2.49	2.38	-	-	-
30	-	3.06	3.08	3.03	2.95	2.85	2.78	2.76	-
40	-	3.59	3.61	3.58	3.50	3.43	3.37	3.37	-
50	-	-	4.22	4.19	4.13	4.06	4.02	4.04	-
60	-	-	-	4.83	4.78	4.73	4.70	4.74	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	94	118	146	179	-	-	-	-
20	-	94	117	145	178	217	-	-	-
30	-	93	116	143	176	214	260	315	-
40	-	91	114	141	174	212	257	311	-
50	-	-	112	139	171	208	253	306	-
60	-	-	-	135	167	204	248	300	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.13	3.88	4.85	6.15	-	-	-	-
20	-	2.73	3.35	4.14	5.16	6.51	-	-	-
30	-	2.07	2.52	3.06	3.72	4.54	5.60	6.99	-
40	-	1.53	1.86	2.24	2.69	3.23	3.88	4.69	-
50	-	-	1.32	1.59	1.90	2.26	2.68	3.18	-
60	-	-	-	1.07	1.28	1.51	1.78	2.09	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 679	W
Power input	2 465	W
Current consumption	3.88	A
Mass flow	140	kg/h
C.O.P.	1.90	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 70 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 620	5 770	7 142	8 759	-	-	-	-
20	-	4 358	5 453	6 757	8 293	10 086	-	-	-
30	-	3 827	4 807	5 970	7 340	8 941	10 796	12 930	-
40	-	3 269	4 126	5 141	6 337	7 740	9 372	11 257	-
50	-	2 663	3 389	4 248	5 264	6 461	7 862	9 491	-
60	-	-	2 575	3 272	4 100	5 084	6 246	7 612	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 566	1 569	1 545	1 488	-	-	-	-
20	-	1 701	1 719	1 714	1 680	1 612	-	-	-
30	-	2 000	2 041	2 066	2 070	2 047	1 991	1 897	-
40	-	2 361	2 414	2 459	2 490	2 502	2 489	2 446	-
50	-	2 811	2 867	2 921	2 970	3 007	3 026	3 023	-
60	-	-	3 427	3 481	3 537	3 588	3 630	3 657	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.66	2.67	2.60	2.50	-	-	-	-
20	-	2.83	2.84	2.79	2.69	2.58	-	-	-
30	-	3.27	3.29	3.25	3.18	3.09	3.01	2.97	-
40	-	3.83	3.85	3.82	3.76	3.69	3.64	3.64	-
50	-	4.46	4.49	4.46	4.41	4.36	4.34	4.36	-
60	-	-	5.16	5.14	5.10	5.06	5.05	5.09	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	117	143	173	208	-	-	-	-
20	-	116	142	172	207	247	-	-	-
30	-	115	140	170	204	244	289	339	-
40	-	113	139	168	202	241	285	335	-
50	-	110	136	165	199	237	281	330	-
60	-	-	132	161	195	233	276	324	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.95	3.68	4.62	5.89	-	-	-	-
20	-	2.56	3.17	3.94	4.94	6.26	-	-	-
30	-	1.91	2.36	2.89	3.55	4.37	5.42	6.82	-
40	-	1.38	1.71	2.09	2.54	3.09	3.76	4.60	-
50	-	0.95	1.18	1.45	1.77	2.15	2.60	3.14	-
60	-	-	0.75	0.94	1.16	1.42	1.72	2.08	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	4 704	W
Power input	2 680	W
Current consumption	4.14	A
Mass flow	167	kg/h
C.O.P.	1.76	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 70 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 778	5 922	7 276	8 865	-	-	-	-
20	-	4 546	5 636	6 924	8 432	10 182	-	-	-
30	-	4 076	5 055	6 203	7 542	9 092	10 878	12 930	-
40	-	3 580	4 441	5 442	6 604	7 946	9 489	11 257	-
50	-	-	3 772	4 620	5 598	6 724	8 016	9 491	-
60	-	-	-	3 718	4 506	5 410	6 442	7 612	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 566	1 569	1 545	1 488	-	-	-	-
20	-	1 701	1 719	1 714	1 680	1 612	-	-	-
30	-	2 000	2 041	2 066	2 070	2 047	1 991	1 897	-
40	-	2 361	2 414	2 459	2 490	2 502	2 489	2 446	-
50	-	-	2 867	2 921	2 970	3 007	3 026	3 023	-
60	-	-	-	3 481	3 537	3 588	3 630	3 657	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.66	2.67	2.60	2.50	-	-	-	-
20	-	2.83	2.84	2.79	2.69	2.58	-	-	-
30	-	3.27	3.29	3.25	3.18	3.09	3.01	2.97	-
40	-	3.83	3.85	3.82	3.76	3.69	3.64	3.64	-
50	-	-	4.49	4.46	4.41	4.36	4.34	4.36	-
60	-	-	-	5.14	5.10	5.06	5.05	5.09	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	102	127	157	192	-	-	-	-
20	-	101	126	156	191	233	-	-	-
30	-	100	125	154	189	231	280	339	-
40	-	98	123	152	187	228	277	335	-
50	-	-	121	150	184	224	273	330	-
60	-	-	-	146	180	220	268	324	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	3.05	3.77	4.71	5.96	-	-	-	-
20	-	2.67	3.28	4.04	5.02	6.32	-	-	-
30	-	2.04	2.48	3.00	3.64	4.44	5.46	6.82	-
40	-	1.52	1.84	2.21	2.65	3.18	3.81	4.60	-
50	-	-	1.32	1.58	1.88	2.24	2.65	3.14	-
60	-	-	-	1.07	1.27	1.51	1.77	2.08	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 040	W
Power input	2 680	W
Current consumption	4.14	A
Mass flow	151	kg/h
C.O.P.	1.88	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 75 Hz, EN 12900 rating conditions

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	4 937	6 166	7 633	9 364	-	-	-	-
20	-	4 658	5 829	7 223	8 867	10 787	-	-	-
30	-	4 095	5 141	6 385	7 851	9 566	11 556	13 846	-
40	-	3 502	4 417	5 503	6 784	8 287	10 037	12 060	-
50	-	2 857	3 634	4 553	5 642	6 925	8 428	10 178	-
60	-	-	2 766	3 512	4 400	5 456	6 705	8 174	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 717	1 726	1 704	1 646	-	-	-	-
20	-	1 859	1 884	1 884	1 851	1 780	-	-	-
30	-	2 173	2 223	2 255	2 264	2 243	2 186	2 087	-
40	-	2 553	2 615	2 669	2 708	2 725	2 716	2 673	-
50	-	3 031	3 094	3 156	3 213	3 258	3 283	3 284	-
60	-	-	3 688	3 748	3 811	3 870	3 919	3 952	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.84	2.86	2.80	2.70	-	-	-	-
20	-	3.02	3.04	2.99	2.90	2.79	-	-	-
30	-	3.48	3.51	3.48	3.42	3.33	3.25	3.19	-
40	-	4.06	4.09	4.07	4.03	3.98	3.93	3.91	-
50	-	4.73	4.75	4.74	4.71	4.68	4.66	4.69	-
60	-	-	5.46	5.45	5.42	5.41	5.42	5.47	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	125	152	185	222	-	-	-	-
20	-	124	152	184	221	264	-	-	-
30	-	123	150	182	219	261	309	363	-
40	-	121	148	180	216	258	305	359	-
50	-	119	146	177	213	254	301	354	-
60	-	-	142	173	209	250	296	348	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.87	3.57	4.48	5.69	-	-	-	-
20	-	2.51	3.09	3.83	4.79	6.06	-	-	-
30	-	1.88	2.31	2.83	3.47	4.26	5.29	6.63	-
40	-	1.37	1.69	2.06	2.51	3.04	3.70	4.51	-
50	-	0.94	1.17	1.44	1.76	2.13	2.57	3.10	-
60	-	-	0.75	0.94	1.15	1.41	1.71	2.07	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 038	W
Power input	2 902	W
Current consumption	4.40	A
Mass flow	179	kg/h
C.O.P.	1.74	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 75 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 105	6 328	7 777	9 478	-	-	-	-
20	-	4 859	6 024	7 402	9 015	10 891	-	-	-
30	-	4 360	5 407	6 634	8 067	9 728	11 643	13 846	-
40	-	3 835	4 755	5 826	7 069	8 507	10 162	12 060	-
50	-	-	4 044	4 951	5 999	7 207	8 593	10 178	-
60	-	-	-	3 991	4 837	5 807	6 915	8 174	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 717	1 726	1 704	1 646	-	-	-	-
20	-	1 859	1 884	1 884	1 851	1 780	-	-	-
30	-	2 173	2 223	2 255	2 264	2 243	2 186	2 087	-
40	-	2 553	2 615	2 669	2 708	2 725	2 716	2 673	-
50	-	-	3 094	3 156	3 213	3 258	3 283	3 284	-
60	-	-	-	3 748	3 811	3 870	3 919	3 952	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	2.84	2.86	2.80	2.70	-	-	-	-
20	-	3.02	3.04	2.99	2.90	2.79	-	-	-
30	-	3.48	3.51	3.48	3.42	3.33	3.25	3.19	-
40	-	4.06	4.09	4.07	4.03	3.98	3.93	3.91	-
50	-	-	4.75	4.74	4.71	4.68	4.66	4.69	-
60	-	-	-	5.45	5.42	5.41	5.42	5.47	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	108	135	167	206	-	-	-	-
20	-	108	135	166	204	250	-	-	-
30	-	107	133	165	202	247	300	363	-
40	-	105	132	163	200	244	296	359	-
50	-	-	129	160	197	241	292	354	-
60	-	-	-	157	193	236	287	348	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.97	3.67	4.56	5.76	-	-	-	-
20	-	2.61	3.20	3.93	4.87	6.12	-	-	-
30	-	2.01	2.43	2.94	3.56	4.34	5.33	6.63	-
40	-	1.50	1.82	2.18	2.61	3.12	3.74	4.51	-
50	-	-	1.31	1.57	1.87	2.21	2.62	3.10	-
60	-	-	-	1.06	1.27	1.50	1.76	2.07	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 398	W
Power input	2 902	W
Current consumption	4.40	A
Mass flow	162	kg/h
C.O.P.	1.86	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 80 Hz, EN 12900 rating conditions

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 249	6 557	8 119	9 962	-	-	-	-
20	-	4 955	6 199	7 683	9 435	11 483	-	-	-
30	-	4 359	5 472	6 795	8 358	10 187	12 311	14 757	-
40	-	3 732	4 706	5 862	7 227	8 830	10 699	12 861	-
50	-	3 048	3 876	4 856	6 017	7 386	8 993	10 864	-
60	-	-	2 954	3 751	4 700	5 828	7 165	8 737	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 877	1 892	1 874	1 814	-	-	-	-
20	-	2 024	2 058	2 063	2 032	1 958	-	-	-
30	-	2 352	2 411	2 452	2 467	2 450	2 392	2 287	-
40	-	2 752	2 823	2 886	2 933	2 958	2 953	2 910	-
50	-	3 258	3 327	3 398	3 464	3 516	3 549	3 555	-
60	-	-	3 957	4 022	4 092	4 159	4 216	4 257	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.03	3.05	3.00	2.90	-	-	-	-
20	-	3.21	3.24	3.21	3.13	3.01	-	-	-
30	-	3.68	3.72	3.71	3.67	3.60	3.51	3.41	-
40	-	4.29	4.32	4.32	4.30	4.27	4.23	4.20	-
50	-	4.99	5.01	5.01	5.01	5.00	5.01	5.03	-
60	-	-	5.77	5.76	5.75	5.76	5.80	5.87	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	132	162	196	236	-	-	-	-
20	-	132	161	195	235	281	-	-	-
30	-	131	160	194	233	278	329	387	-
40	-	129	158	192	230	275	325	383	-
50	-	126	155	189	227	271	321	378	-
60	-	-	152	185	223	267	316	372	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.80	3.47	4.33	5.49	-	-	-	-
20	-	2.45	3.01	3.73	4.64	5.87	-	-	-
30	-	1.85	2.27	2.77	3.39	4.16	5.15	6.45	-
40	-	1.36	1.67	2.03	2.46	2.99	3.62	4.42	-
50	-	0.94	1.16	1.43	1.74	2.10	2.53	3.06	-
60	-	-	0.75	0.93	1.15	1.40	1.70	2.05	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 370	W
Power input	3 130	W
Current consumption	4.66	A
Mass flow	190	kg/h
C.O.P.	1.72	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 80 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 428	6 729	8 271	10 084	-	-	-	-
20	-	5 168	6 407	7 873	9 592	11 593	-	-	-
30	-	4 641	5 754	7 061	8 587	10 359	12 404	14 757	-
40	-	4 086	5 065	6 206	7 531	9 065	10 833	12 861	-
50	-	-	4 313	5 280	6 398	7 687	9 169	10 864	-
60	-	-	-	4 263	5 166	6 203	7 388	8 737	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	1 877	1 892	1 874	1 814	-	-	-	-
20	-	2 024	2 058	2 063	2 032	1 958	-	-	-
30	-	2 352	2 411	2 452	2 467	2 450	2 392	2 287	-
40	-	2 752	2 823	2 886	2 933	2 958	2 953	2 910	-
50	-	-	3 327	3 398	3 464	3 516	3 549	3 555	-
60	-	-	-	4 022	4 092	4 159	4 216	4 257	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.03	3.05	3.00	2.90	-	-	-	-
20	-	3.21	3.24	3.21	3.13	3.01	-	-	-
30	-	3.68	3.72	3.71	3.67	3.60	3.51	3.41	-
40	-	4.29	4.32	4.32	4.30	4.27	4.23	4.20	-
50	-	-	5.01	5.01	5.01	5.00	5.01	5.03	-
60	-	-	-	5.76	5.75	5.76	5.80	5.87	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	115	144	178	219	-	-	-	-
20	-	115	143	177	218	266	-	-	-
30	-	114	142	175	215	263	320	387	-
40	-	112	140	174	213	260	316	383	-
50	-	-	138	171	210	257	312	378	-
60	-	-	-	168	206	252	307	372	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.89	3.56	4.41	5.56	-	-	-	-
20	-	2.55	3.11	3.82	4.72	5.92	-	-	-
30	-	1.97	2.39	2.88	3.48	4.23	5.19	6.45	-
40	-	1.48	1.79	2.15	2.57	3.06	3.67	4.42	-
50	-	-	1.30	1.55	1.85	2.19	2.58	3.06	-
60	-	-	-	1.06	1.26	1.49	1.75	2.05	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 753	W
Power input	3 130	W
Current consumption	4.66	A
Mass flow	172	kg/h
C.O.P.	1.84	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 85 Hz, EN 12900 rating conditions

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 558	6 942	8 598	10 554	-	-	-	-
20	-	5 247	6 565	8 138	9 997	12 171	-	-	-
30	-	4 620	5 799	7 202	8 860	10 803	13 060	15 663	-
40	-	3 960	4 992	6 218	7 667	9 371	11 358	13 660	-
50	-	3 238	4 116	5 156	6 390	7 846	9 556	11 549	-
60	-	-	3 142	3 989	4 998	6 200	7 624	9 301	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 045	2 068	2 053	1 992	-	-	-	-
20	-	2 198	2 240	2 251	2 222	2 146	-	-	-
30	-	2 538	2 608	2 658	2 680	2 666	2 608	2 497	-
40	-	2 956	3 037	3 110	3 167	3 200	3 200	3 158	-
50	-	3 491	3 566	3 646	3 721	3 784	3 825	3 836	-
60	-	-	4 233	4 302	4 379	4 455	4 521	4 570	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.22	3.24	3.21	3.12	-	-	-	-
20	-	3.40	3.44	3.43	3.36	3.24	-	-	-
30	-	3.89	3.93	3.95	3.93	3.87	3.77	3.64	-
40	-	4.52	4.55	4.57	4.58	4.57	4.55	4.50	-
50	-	5.26	5.27	5.29	5.31	5.34	5.36	5.39	-
60	-	-	6.07	6.07	6.09	6.13	6.20	6.28	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	140	172	208	250	-	-	-	-
20	-	140	171	207	249	298	-	-	-
30	-	138	169	205	247	294	349	411	-
40	-	137	168	203	244	291	345	406	-
50	-	134	165	201	241	288	341	401	-
60	-	-	162	197	237	284	336	396	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.72	3.36	4.19	5.30	-	-	-	-
20	-	2.39	2.93	3.62	4.50	5.67	-	-	-
30	-	1.82	2.22	2.71	3.31	4.05	5.01	6.27	-
40	-	1.34	1.64	2.00	2.42	2.93	3.55	4.33	-
50	-	0.93	1.15	1.41	1.72	2.07	2.50	3.01	-
60	-	-	0.74	0.93	1.14	1.39	1.69	2.04	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 698	W
Power input	3 366	W
Current consumption	4.92	A
Mass flow	202	kg/h
C.O.P.	1.69	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 85 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 747	7 124	8 759	10 682	-	-	-	-
20	-	5 473	6 785	8 339	10 163	12 288	-	-	-
30	-	4 919	6 098	7 484	9 103	10 985	13 159	15 663	-
40	-	4 336	5 373	6 582	7 990	9 620	11 500	13 660	-
50	-	-	4 581	5 607	6 794	8 166	9 743	11 549	-
60	-	-	-	4 533	5 494	6 598	7 862	9 301	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 045	2 068	2 053	1 992	-	-	-	-
20	-	2 198	2 240	2 251	2 222	2 146	-	-	-
30	-	2 538	2 608	2 658	2 680	2 666	2 608	2 497	-
40	-	2 956	3 037	3 110	3 167	3 200	3 200	3 158	-
50	-	-	3 566	3 646	3 721	3 784	3 825	3 836	-
60	-	-	-	4 302	4 379	4 455	4 521	4 570	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.22	3.24	3.21	3.12	-	-	-	-
20	-	3.40	3.44	3.43	3.36	3.24	-	-	-
30	-	3.89	3.93	3.95	3.93	3.87	3.77	3.64	-
40	-	4.52	4.55	4.57	4.58	4.57	4.55	4.50	-
50	-	-	5.27	5.29	5.31	5.34	5.36	5.39	-
60	-	-	-	6.07	6.09	6.13	6.20	6.28	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	122	152	188	232	-	-	-	-
20	-	122	152	188	230	282	-	-	-
30	-	121	150	186	228	279	339	411	-
40	-	119	149	184	226	276	335	406	-
50	-	-	147	182	223	273	331	401	-
60	-	-	-	178	220	269	327	396	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.81	3.45	4.27	5.36	-	-	-	-
20	-	2.49	3.03	3.70	4.57	5.73	-	-	-
30	-	1.94	2.34	2.82	3.40	4.12	5.05	6.27	-
40	-	1.47	1.77	2.12	2.52	3.01	3.59	4.33	-
50	-	-	1.28	1.54	1.83	2.16	2.55	3.01	-
60	-	-	-	1.05	1.25	1.48	1.74	2.04	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 106	W
Power input	3 366	W
Current consumption	4.92	A
Mass flow	183	kg/h
C.O.P.	1.81	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 90 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	5 862	7 323	9 071	11 138	-	-	-	-
20	-	5 536	6 927	8 588	10 553	12 853	-	-	-
30	-	4 877	6 122	7 604	9 357	11 414	13 805	16 565	-
40	-	4 185	5 275	6 570	8 104	9 908	12 014	14 457	-
50	-	3 426	4 354	5 455	6 760	8 304	10 118	12 234	-
60	-	-	3 327	4 225	5 296	6 571	8 084	9 867	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 222	2 252	2 241	2 180	-	-	-	-
20	-	2 378	2 431	2 449	2 423	2 344	-	-	-
30	-	2 730	2 811	2 872	2 903	2 893	2 835	2 717	-
40	-	3 166	3 258	3 342	3 410	3 451	3 457	3 416	-
50	-	3 729	3 812	3 901	3 986	4 059	4 109	4 128	-
60	-	-	4 515	4 589	4 673	4 758	4 834	4 892	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.40	3.44	3.43	3.34	-	-	-	-
20	-	3.60	3.64	3.65	3.60	3.48	-	-	-
30	-	4.09	4.15	4.19	4.19	4.16	4.05	3.87	-
40	-	4.74	4.78	4.83	4.87	4.89	4.88	4.81	-
50	-	5.53	5.53	5.56	5.62	5.68	5.74	5.76	-
60	-	-	6.38	6.38	6.43	6.52	6.61	6.71	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	148	181	219	264	-	-	-	-
20	-	147	180	218	263	314	-	-	-
30	-	146	179	217	261	311	369	435	-
40	-	145	177	215	258	308	365	430	-
50	-	142	175	212	255	305	361	425	-
60	-	-	171	209	251	301	356	420	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.64	3.25	4.05	5.11	-	-	-	-
20	-	2.33	2.85	3.51	4.36	5.48	-	-	-
30	-	1.79	2.18	2.65	3.22	3.94	4.87	6.10	-
40	-	1.32	1.62	1.97	2.38	2.87	3.48	4.23	-
50	-	0.92	1.14	1.40	1.70	2.05	2.46	2.96	-
60	-	-	0.74	0.92	1.13	1.38	1.67	2.02	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 025	W
Power input	3 608	W
Current consumption	5.18	A
Mass flow	214	kg/h
C.O.P.	1.67	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 90 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	6 062	7 515	9 241	11 274	-	-	-	-
20	-	5 774	7 159	8 800	10 728	12 977	-	-	-
30	-	5 194	6 438	7 902	9 614	11 606	13 910	16 565	-
40	-	4 582	5 677	6 956	8 445	10 171	12 165	14 457	-
50	-	-	4 845	5 931	7 189	8 642	10 316	12 234	-
60	-	-	-	4 801	5 821	6 993	8 336	9 867	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 222	2 252	2 241	2 180	-	-	-	-
20	-	2 378	2 431	2 449	2 423	2 344	-	-	-
30	-	2 730	2 811	2 872	2 903	2 893	2 835	2 717	-
40	-	3 166	3 258	3 342	3 410	3 451	3 457	3 416	-
50	-	-	3 812	3 901	3 986	4 059	4 109	4 128	-
60	-	-	-	4 589	4 673	4 758	4 834	4 892	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.40	3.44	3.43	3.34	-	-	-	-
20	-	3.60	3.64	3.65	3.60	3.48	-	-	-
30	-	4.09	4.15	4.19	4.19	4.16	4.05	3.87	-
40	-	4.74	4.78	4.83	4.87	4.89	4.88	4.81	-
50	-	-	5.53	5.56	5.62	5.68	5.74	5.76	-
60	-	-	-	6.38	6.43	6.52	6.61	6.71	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	129	161	199	244	-	-	-	-
20	-	128	160	198	243	297	-	-	-
30	-	127	159	196	241	295	358	435	-
40	-	126	157	194	239	292	355	430	-
50	-	-	155	192	236	288	351	425	-
60	-	-	-	189	233	285	346	420	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.73	3.34	4.12	5.17	-	-	-	-
20	-	2.43	2.95	3.59	4.43	5.54	-	-	-
30	-	1.90	2.29	2.75	3.31	4.01	4.91	6.10	-
40	-	1.45	1.74	2.08	2.48	2.95	3.52	4.23	-
50	-	-	1.27	1.52	1.80	2.13	2.51	2.96	-
60	-	-	-	1.05	1.25	1.47	1.72	2.02	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 455	W
Power input	3 608	W
Current consumption	5.18	A
Mass flow	193	kg/h
C.O.P.	1.79	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 95 Hz, EN 12900 rating conditions

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	6 162	7 698	9 538	11 716	-	-	-	-
20	-	5 821	7 283	9 032	11 102	13 528	-	-	-
30	-	5 132	6 442	8 003	9 850	12 020	14 545	17 463	-
40	-	4 407	5 555	6 920	8 537	10 442	12 668	15 251	-
50	-	3 611	4 590	5 751	7 129	8 760	10 678	12 919	-
60	-	-	3 511	4 460	5 592	6 941	8 544	10 434	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 406	2 446	2 440	2 378	-	-	-	-
20	-	2 567	2 630	2 656	2 634	2 552	-	-	-
30	-	2 928	3 022	3 095	3 135	3 130	3 071	2 947	-
40	-	3 381	3 484	3 581	3 661	3 712	3 724	3 685	-
50	-	3 974	4 063	4 162	4 258	4 342	4 403	4 429	-
60	-	-	4 805	4 882	4 974	5 068	5 155	5 222	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.60	3.65	3.65	3.57	-	-	-	-
20	-	3.79	3.85	3.88	3.85	3.73	-	-	-
30	-	4.30	4.36	4.43	4.47	4.45	4.35	4.11	-
40	-	4.96	5.00	5.08	5.17	5.22	5.22	5.14	-
50	-	5.79	5.78	5.84	5.93	6.04	6.12	6.15	-
60	-	-	6.69	6.70	6.78	6.91	7.05	7.16	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	155	190	231	278	-	-	-	-
20	-	155	189	230	277	331	-	-	-
30	-	154	188	228	274	328	389	458	-
40	-	152	186	226	272	325	385	454	-
50	-	150	184	224	269	321	381	449	-
60	-	-	181	220	265	317	377	444	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.56	3.15	3.91	4.93	-	-	-	-
20	-	2.27	2.77	3.40	4.22	5.30	-	-	-
30	-	1.75	2.13	2.59	3.14	3.84	4.74	5.93	-
40	-	1.30	1.59	1.93	2.33	2.81	3.40	4.14	-
50	-	0.91	1.13	1.38	1.67	2.02	2.43	2.92	-
60	-	-	0.73	0.91	1.12	1.37	1.66	2.00	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 348	W
Power input	3 857	W
Current consumption	5.45	A
Mass flow	225	kg/h
C.O.P.	1.65	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 95 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	6 373	7 900	9 717	11 859	-	-	-	-
20	-	6 071	7 528	9 255	11 287	13 658	-	-	-
30	-	5 465	6 774	8 316	10 121	12 222	14 656	17 463	-
40	-	4 826	5 979	7 326	8 896	10 719	12 826	15 251	-
50	-	-	5 108	6 253	7 581	9 117	10 888	12 919	-
60	-	-	-	5 068	6 146	7 387	8 810	10 434	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 406	2 446	2 440	2 378	-	-	-	-
20	-	2 567	2 630	2 656	2 634	2 552	-	-	-
30	-	2 928	3 022	3 095	3 135	3 130	3 071	2 947	-
40	-	3 381	3 484	3 581	3 661	3 712	3 724	3 685	-
50	-	-	4 063	4 162	4 258	4 342	4 403	4 429	-
60	-	-	-	4 882	4 974	5 068	5 155	5 222	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.60	3.65	3.65	3.57	-	-	-	-
20	-	3.79	3.85	3.88	3.85	3.73	-	-	-
30	-	4.30	4.36	4.43	4.47	4.45	4.35	4.11	-
40	-	4.96	5.00	5.08	5.17	5.22	5.22	5.14	-
50	-	-	5.78	5.84	5.93	6.04	6.12	6.15	-
60	-	-	-	6.70	6.78	6.91	7.05	7.16	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	135	169	209	257	-	-	-	-
20	-	135	168	208	256	313	-	-	-
30	-	134	167	207	254	310	378	458	-
40	-	133	166	205	252	307	374	454	-
50	-	-	163	203	249	304	370	449	-
60	-	-	-	199	246	301	366	444	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.65	3.23	3.98	4.99	-	-	-	-
20	-	2.37	2.86	3.48	4.29	5.35	-	-	-
30	-	1.87	2.24	2.69	3.23	3.90	4.77	5.93	-
40	-	1.43	1.72	2.05	2.43	2.89	3.44	4.14	-
50	-	-	1.26	1.50	1.78	2.10	2.47	2.92	-
60	-	-	-	1.04	1.24	1.46	1.71	2.00	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 802	W
Power input	3 857	W
Current consumption	5.45	A
Mass flow	204	kg/h
C.O.P.	1.76	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 100 Hz, EN 12900 rating conditions

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	6 458	8 069	9 999	12 287	-	-	-	-
20	-	6 102	7 636	9 471	11 646	14 197	-	-	-
30	-	5 384	6 758	8 397	10 339	12 621	15 281	18 355	-
40	-	4 627	5 832	7 267	8 968	10 972	13 318	16 042	-
50	-	3 795	4 823	6 045	7 496	9 214	11 238	13 604	-
60	-	-	3 694	4 693	5 887	7 311	9 004	11 002	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 599	2 648	2 648	2 586	-	-	-	-
20	-	2 762	2 838	2 873	2 854	2 770	-	-	-
30	-	3 132	3 241	3 326	3 376	3 378	3 319	3 186	-
40	-	3 602	3 718	3 828	3 920	3 982	4 001	3 965	-
50	-	4 225	4 321	4 429	4 538	4 634	4 705	4 740	-
60	-	-	5 101	5 182	5 282	5 386	5 484	5 562	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.79	3.85	3.88	3.81	-	-	-	-
20	-	3.99	4.06	4.12	4.12	3.99	-	-	-
30	-	4.50	4.58	4.68	4.76	4.77	4.65	4.36	-
40	-	5.18	5.23	5.34	5.47	5.57	5.58	5.47	-
50	-	6.05	6.02	6.11	6.25	6.41	6.53	6.56	-
60	-	-	6.99	7.01	7.14	7.32	7.50	7.63	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	163	199	242	291	-	-	-	-
20	-	162	199	241	290	347	-	-	-
30	-	161	197	239	288	344	408	482	-
40	-	160	196	237	286	341	405	477	-
50	-	157	193	235	283	338	401	473	-
60	-	-	190	232	280	334	397	468	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.49	3.05	3.78	4.75	-	-	-	-
20	-	2.21	2.69	3.30	4.08	5.13	-	-	-
30	-	1.72	2.09	2.52	3.06	3.74	4.60	5.76	-
40	-	1.28	1.57	1.90	2.29	2.76	3.33	4.05	-
50	-	0.90	1.12	1.36	1.65	1.99	2.39	2.87	-
60	-	-	0.72	0.91	1.11	1.36	1.64	1.98	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 669	W
Power input	4 113	W
Current consumption	5.71	A
Mass flow	236	kg/h
C.O.P.	1.62	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 100 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

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

Cooling capacity in W

5	-	-	-	-	-	-	-	-	-
15	-	6 679	8 280	10 187	12 437	-	-	-	-
20	-	6 365	7 892	9 705	11 840	14 333	-	-	-
30	-	5 734	7 107	8 725	10 623	12 834	15 396	18 355	-
40	-	5 067	6 277	7 693	9 345	11 264	13 484	16 042	-
50	-	-	5 368	6 573	7 971	9 590	11 458	13 604	-
60	-	-	-	5 333	6 470	7 780	9 285	11 002	-
65	-	-	-	-	-	-	-	-	-

Power input in W

5	-	-	-	-	-	-	-	-	-
15	-	2 599	2 648	2 648	2 586	-	-	-	-
20	-	2 762	2 838	2 873	2 854	2 770	-	-	-
30	-	3 132	3 241	3 326	3 376	3 378	3 319	3 186	-
40	-	3 602	3 718	3 828	3 920	3 982	4 001	3 965	-
50	-	-	4 321	4 429	4 538	4 634	4 705	4 740	-
60	-	-	-	5 182	5 282	5 386	5 484	5 562	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

5	-	-	-	-	-	-	-	-	-
15	-	3.79	3.85	3.88	3.81	-	-	-	-
20	-	3.99	4.06	4.12	4.12	3.99	-	-	-
30	-	4.50	4.58	4.68	4.76	4.77	4.65	4.36	-
40	-	5.18	5.23	5.34	5.47	5.57	5.58	5.47	-
50	-	-	6.02	6.11	6.25	6.41	6.53	6.56	-
60	-	-	-	7.01	7.14	7.32	7.50	7.63	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

5	-	-	-	-	-	-	-	-	-
15	-	142	177	219	270	-	-	-	-
20	-	141	176	218	268	329	-	-	-
30	-	141	175	217	266	326	397	482	-
40	-	139	174	215	264	323	393	477	-
50	-	-	172	213	262	320	390	473	-
60	-	-	-	210	259	317	386	468	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

5	-	-	-	-	-	-	-	-	-
15	-	2.57	3.13	3.85	4.81	-	-	-	-
20	-	2.30	2.78	3.38	4.15	5.18	-	-	-
30	-	1.83	2.19	2.62	3.15	3.80	4.64	5.76	-
40	-	1.41	1.69	2.01	2.38	2.83	3.37	4.05	-
50	-	-	1.24	1.48	1.76	2.07	2.44	2.87	-
60	-	-	-	1.03	1.23	1.44	1.69	1.98	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 146	W
Power input	4 113	W
Current consumption	5.71	A
Mass flow	214	kg/h
C.O.P.	1.74	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.3	bar(g)
LP pump down setting	1.6	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 : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

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