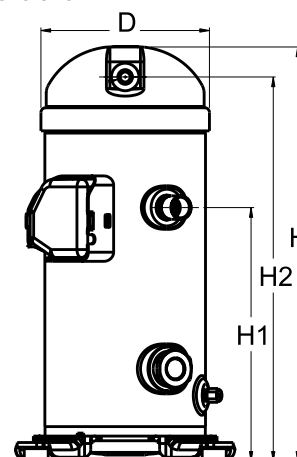


**General Characteristics**

Model number (on compressor nameplate)		<b>MLZ038T4LC9A</b>
Code number for Singlepack*		121L8645
Code number for Industrial pack**		121L8644
Drawing number		0XR6025B-2
Suction and discharge connections		Brazed
Suction connection		7/8" 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		32 bar
Swept volume		80.95 cm <sup>3</sup> /rev
Displacement @ Nominal speed		14.1 m <sup>3</sup> /h @ 2900 rpm - 17.0 m <sup>3</sup> /h @ 3500 rpm
Net weight		41 kg
Oil charge		1.57 litre, POE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		5.44 kg
Approved refrigerants		R404A, R134a, R407A, R407F, R448A, R449A

**Dimensions**

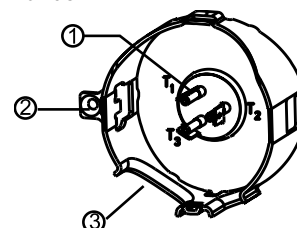


D=184 mm  
H=455 mm  
H1=280 mm  
H2=422 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	2.316 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	2.332 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	2.364 Ω
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	70 A
Motor protection	Internal overload protector

**Terminal box**



IP22  
1: Spade connectors 1/4"  
2: Earth connection  
3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, -, -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

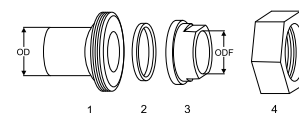
\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**
**Code no.**

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**
**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Solder sleeve adapter set**


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

**Rotolock accessories, sets**
**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**
**Code no.**

PVE lubricant, 215PZ, 1 litre can	120Z0648
-----------------------------------	----------

**Crankcase heaters**
**Code no.**

Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012

**Miscellaneous accessories**
**Code no.**

Acoustic hood	120Z5084
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

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

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

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	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	5 776	7 017	8 524	10 324	12 443	-	-	-	-
20	5 296	6 504	7 944	9 641	11 624	13 917	16 547	-	-
30	4 692	5 831	7 166	8 725	10 535	12 620	15 009	17 727	20 801
40	-	5 020	6 215	7 600	9 200	11 041	13 152	15 557	18 284
50	-	-	5 115	6 288	7 643	9 204	11 000	13 056	15 400
60	-	-	-	-	5 888	7 133	8 578	10 249	12 172

Power input in W

10	1 671	1 694	1 729	1 780	1 847	-	-	-	-
20	2 113	2 120	2 137	2 166	2 209	2 269	2 348	-	-
30	2 698	2 691	2 691	2 700	2 721	2 756	2 807	2 876	2 968
40	-	3 446	3 431	3 422	3 422	3 433	3 457	3 497	3 556
50	-	-	4 394	4 369	4 349	4 338	4 337	4 350	4 378
60	-	-	-	-	5 542	5 511	5 487	5 473	5 472

Current consumption in A

10	3.59	3.59	3.60	3.61	3.63	-	-	-	-
20	4.26	4.28	4.30	4.33	4.36	4.41	4.47	-	-
30	4.99	5.00	5.02	5.04	5.07	5.11	5.17	5.25	5.35
40	-	5.95	5.95	5.95	5.96	5.97	6.01	6.06	6.13
50	-	-	7.28	7.24	7.20	7.18	7.17	7.18	7.22
60	-	-	-	-	9.01	8.93	8.86	8.81	8.79

Mass flow in kg/h

10	116	143	174	211	256	-	-	-	-
20	116	144	177	215	261	315	379	-	-
30	114	142	176	215	261	316	382	458	547
40	-	137	171	210	257	312	378	454	544
50	-	-	162	201	247	302	367	444	533
60	-	-	-	-	232	286	351	426	515

Coefficient of performance (C.O.P.)

10	3.46	4.14	4.93	5.80	6.74	-	-	-	-
20	2.51	3.07	3.72	4.45	5.26	6.13	7.05	-	-
30	1.74	2.17	2.66	3.23	3.87	4.58	5.35	6.16	7.01
40	-	1.46	1.81	2.22	2.69	3.22	3.80	4.45	5.14
50	-	-	1.16	1.44	1.76	2.12	2.54	3.00	3.52
60	-	-	-	-	1.06	1.29	1.56	1.87	2.22

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

Cooling capacity	8 447	W
Power input	3 855	W
Current consumption	6.52	A
Mass flow	253	kg/h
C.O.P.	2.19	



Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	62	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

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

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

**Cooling capacity in W**

10	5 550	6 791	8 306	10 125	12 276	-	-	-	-
20	4 981	6 177	7 616	9 328	11 343	13 689	16 390	-	-
30	4 292	5 405	6 730	8 297	10 138	12 283	14 760	17 594	20 801
40	3 513	4 504	5 676	7 061	8 690	10 596	12 811	15 365	18 284
50	-	-	4 487	5 651	7 029	8 656	10 570	12 805	15 400
60	-	-	-	-	5 181	6 490	8 060	9 938	12 172

**Power input in W**

10	1 671	1 694	1 729	1 780	1 847	-	-	-	-
20	2 113	2 120	2 137	2 166	2 209	2 269	2 348	-	-
30	2 698	2 691	2 691	2 700	2 721	2 756	2 807	2 876	2 968
40	3 464	3 446	3 431	3 422	3 422	3 433	3 457	3 497	3 556
50	-	-	4 394	4 369	4 349	4 338	4 337	4 350	4 378
60	-	-	-	-	5 542	5 511	5 487	5 473	5 472

**Current consumption in A**

10	3.59	3.59	3.60	3.61	3.63	-	-	-	-
20	4.26	4.28	4.30	4.33	4.36	4.41	4.47	-	-
30	4.99	5.00	5.02	5.04	5.07	5.11	5.17	5.25	5.35
40	5.95	5.95	5.95	5.95	5.96	5.97	6.01	6.06	6.13
50	-	-	7.28	7.24	7.20	7.18	7.17	7.18	7.22
60	-	-	-	-	9.01	8.93	8.86	8.81	8.79

**Mass flow in kg/h**

10	138	167	200	238	283	-	-	-	-
20	138	168	203	242	288	341	401	-	-
30	135	167	202	242	289	342	403	471	547
40	130	161	196	237	284	337	399	468	544
50	-	-	186	226	273	327	388	457	533
60	-	-	-	-	256	309	370	439	515

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

10	3.32	4.01	4.80	5.69	6.65	-	-	-	-
20	2.36	2.91	3.56	4.31	5.14	6.03	6.98	-	-
30	1.59	2.01	2.50	3.07	3.73	4.46	5.26	6.12	7.01
40	1.01	1.31	1.65	2.06	2.54	3.09	3.71	4.39	5.14
50	-	-	1.02	1.29	1.62	2.00	2.44	2.94	3.52
60	-	-	-	-	0.93	1.18	1.47	1.82	2.22

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

Cooling capacity	7 884	W
Power input	3 855	W
Current consumption	6.52	A
Mass flow	279	kg/h
C.O.P.	2.05	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	70	dB(A)
With acoustic hood	62	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

**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	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	6 947	8 678	10 730	13 140	15 943	-	-	-	-
20	6 226	7 814	9 667	11 823	14 316	17 185	20 463	-	-
30	5 505	6 960	8 627	10 540	12 737	15 254	18 126	21 390	25 079
40	-	6 018	7 509	9 193	11 105	13 282	15 761	18 576	21 765
50	-	-	6 215	7 681	9 320	11 170	13 266	15 647	18 346
60	-	-	-	-	7 282	8 817	10 545	12 502	14 728

**Power input in W**

10	2 201	2 148	2 143	2 167	2 204	-	-	-	-
20	2 751	2 688	2 675	2 693	2 724	2 752	2 760	-	-
30	3 436	3 366	3 347	3 360	3 388	3 415	3 423	3 394	3 311
40	-	4 201	4 178	4 189	4 217	4 244	4 254	4 229	4 151
50	-	-	5 190	5 201	5 230	5 260	5 274	5 254	5 184
60	-	-	-	-	6 448	6 483	6 503	6 491	6 430

**Current consumption in A**

10	3.45	3.37	3.36	3.40	3.46	-	-	-	-
20	4.32	4.22	4.20	4.22	4.27	4.32	4.33	-	-
30	5.39	5.28	5.25	5.27	5.32	5.36	5.37	5.32	5.19
40	-	6.59	6.55	6.57	6.62	6.66	6.67	6.63	6.51
50	-	-	8.14	8.16	8.21	8.25	8.27	8.24	8.13
60	-	-	-	-	10.12	10.17	10.20	10.18	10.09

**Mass flow in kg/h**

10	122	166	214	267	327	-	-	-	-
20	128	170	215	265	323	391	470	-	-
30	130	170	213	262	318	384	461	552	658
40	-	165	208	256	311	376	452	542	648
50	-	-	197	245	301	366	442	532	638
60	-	-	-	-	287	352	430	521	627

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

10	3.16	4.04	5.01	6.06	7.23	-	-	-	-
20	2.26	2.91	3.61	4.39	5.26	6.24	7.41	-	-
30	1.60	2.07	2.58	3.14	3.76	4.47	5.30	6.30	7.57
40	-	1.43	1.80	2.19	2.63	3.13	3.71	4.39	5.24
50	-	-	1.20	1.48	1.78	2.12	2.52	2.98	3.54
60	-	-	-	-	1.13	1.36	1.62	1.93	2.29

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

Cooling capacity	10 238	W
Power input	4 699	W
Current consumption	7.37	A
Mass flow	306	kg/h
C.O.P.	2.18	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	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

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

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

**Cooling capacity in W**

10	6 676	8 399	10 456	12 887	15 729	-	-	-	-
20	5 855	7 420	9 268	11 439	13 971	16 903	20 269	-	-
30	5 034	6 452	8 101	10 023	12 258	14 846	17 826	21 229	25 079
40	4 124	5 399	6 858	8 541	10 490	12 746	15 352	18 347	21 765
50	-	-	5 452	6 901	8 571	10 504	12 747	15 346	18 346
60	-	-	-	-	6 408	8 021	9 908	12 124	14 728

**Power input in W**

10	2 201	2 148	2 143	2 167	2 204	-	-	-	-
20	2 751	2 688	2 675	2 693	2 724	2 752	2 760	-	-
30	3 436	3 366	3 347	3 360	3 388	3 415	3 423	3 394	3 311
40	4 276	4 201	4 178	4 189	4 217	4 244	4 254	4 229	4 151
50	-	-	5 190	5 201	5 230	5 260	5 274	5 254	5 184
60	-	-	-	-	6 448	6 483	6 503	6 491	6 430

**Current consumption in A**

10	3.45	3.37	3.36	3.40	3.46	-	-	-	-
20	4.32	4.22	4.20	4.22	4.27	4.32	4.33	-	-
30	5.39	5.28	5.25	5.27	5.32	5.36	5.37	5.32	5.19
40	6.71	6.59	6.55	6.57	6.62	6.66	6.67	6.63	6.51
50	-	-	8.14	8.16	8.21	8.25	8.27	8.24	8.13
60	-	-	-	-	10.12	10.17	10.20	10.18	10.09

**Mass flow in kg/h**

10	146	195	246	301	361	-	-	-	-
20	153	199	247	299	357	422	496	-	-
30	155	199	245	295	351	415	487	568	658
40	150	193	239	288	343	406	478	558	648
50	-	-	227	276	332	395	467	548	638
60	-	-	-	-	316	381	454	536	627

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

10	3.03	3.91	4.88	5.95	7.14	-	-	-	-
20	2.13	2.76	3.46	4.25	5.13	6.14	7.34	-	-
30	1.47	1.92	2.42	2.98	3.62	4.35	5.21	6.26	7.57
40	0.96	1.29	1.64	2.04	2.49	3.00	3.61	4.34	5.24
50	-	-	1.05	1.33	1.64	2.00	2.42	2.92	3.54
60	-	-	-	-	0.99	1.24	1.52	1.87	2.29

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

Cooling capacity	9 555	W
Power input	4 699	W
Current consumption	7.37	A
Mass flow	338	kg/h
C.O.P.	2.03	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	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

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

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

**Cooling capacity in W**

22	4 835	6 110	7 620	9 390	11 447	-	-	-	-
30	4 440	5 646	7 072	8 744	10 687	12 928	-	-	-
40	3 925	5 034	6 344	7 881	9 671	11 740	14 113	-	-
50	-	4 394	5 575	6 965	8 589	10 473	12 643	-	-
60	-	-	4 774	6 003	7 448	9 135	11 088	-	-
70	-	-	-	5 004	6 257	7 733	9 458	-	-
73	-	-	-	4 698	5 891	7 302	8 955	-	-

**Power input in W**

22	1 439	1 456	1 470	1 487	1 512	-	-	-	-
30	1 698	1 726	1 748	1 766	1 786	1 811	-	-	-
40	2 066	2 117	2 154	2 180	2 200	2 220	2 242	-	-
50	-	2 579	2 638	2 680	2 709	2 729	2 746	-	-
60	-	-	3 215	3 280	3 325	3 354	3 372	-	-
70	-	-	-	3 994	4 063	4 108	4 135	-	-
73	-	-	-	4 233	4 310	4 362	4 393	-	-

**Current consumption in A**

22	3.18	3.19	3.19	3.19	3.22	-	-	-	-
30	3.67	3.70	3.72	3.73	3.77	3.84	-	-	-
40	4.28	4.32	4.34	4.35	4.38	4.43	4.53	-	-
50	-	5.20	5.20	5.19	5.19	5.21	5.28	-	-
60	-	-	6.61	6.56	6.52	6.49	6.49	-	-
70	-	-	-	8.78	8.66	8.56	8.49	-	-
73	-	-	-	9.65	9.51	9.39	9.29	-	-

**Mass flow in kg/h**

22	104	128	157	191	228	-	-	-	-
30	103	127	156	190	228	271	-	-	-
40	102	126	155	188	227	270	319	-	-
50	-	124	152	185	224	268	317	-	-
60	-	-	148	181	220	263	312	-	-
70	-	-	-	176	214	257	306	-	-
73	-	-	-	174	211	255	303	-	-

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

22	3.36	4.20	5.18	6.31	7.57	-	-	-	-
30	2.62	3.27	4.05	4.95	5.99	7.14	-	-	-
40	1.90	2.38	2.95	3.61	4.39	5.29	6.29	-	-
50	-	1.70	2.11	2.60	3.17	3.84	4.60	-	-
60	-	-	1.48	1.83	2.24	2.72	3.29	-	-
70	-	-	-	1.25	1.54	1.88	2.29	-	-
73	-	-	-	1.11	1.37	1.67	2.04	-	-

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

Cooling capacity	4 717	W
Power input	2 338	W
Current consumption	4.71	A
Mass flow	125	kg/h
C.O.P.	2.02	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	70	dB(A)
With acoustic hood	62	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

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R134a

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

Cooling capacity in W

22	4 912	6 181	7 679	9 431	11 466	-	-	-	-
30	-	5 750	7 163	8 811	10 723	12 928	-	-	-
40	-	-	6 474	7 982	9 728	11 740	14 047	-	-
50	-	-	5 744	7 100	8 668	10 473	12 542	-	-
60	-	-	-	6 171	7 548	9 135	-	-	-
70	-	-	-	-	6 378	7 733	-	-	-
73	-	-	-	-	6 018	7 302	-	-	-

Power input in W

22	1 439	1 456	1 470	1 487	1 512	-	-	-	-
30	-	1 726	1 748	1 766	1 786	1 811	-	-	-
40	-	-	2 154	2 180	2 200	2 220	2 242	-	-
50	-	-	2 638	2 680	2 709	2 729	2 746	-	-
60	-	-	-	3 280	3 325	3 354	-	-	-
70	-	-	-	-	4 063	4 108	-	-	-
73	-	-	-	-	4 310	4 362	-	-	-

Current consumption in A

22	3.18	3.19	3.19	3.19	3.22	-	-	-	-
30	-	3.70	3.72	3.73	3.77	3.84	-	-	-
40	-	-	4.34	4.35	4.38	4.43	4.53	-	-
50	-	-	5.20	5.19	5.19	5.21	5.28	-	-
60	-	-	-	6.56	6.52	6.49	-	-	-
70	-	-	-	-	8.66	8.56	-	-	-
73	-	-	-	-	9.51	9.39	-	-	-

Mass flow in kg/h

22	94	118	147	182	223	-	-	-	-
30	-	117	146	181	223	271	-	-	-
40	-	-	145	180	221	270	327	-	-
50	-	-	142	177	219	268	325	-	-
60	-	-	-	173	215	263	-	-	-
70	-	-	-	-	209	257	-	-	-
73	-	-	-	-	206	255	-	-	-

Coefficient of performance (C.O.P.)

22	3.41	4.25	5.22	6.34	7.59	-	-	-	-
30	-	3.33	4.10	4.99	6.01	7.14	-	-	-
40	-	-	3.01	3.66	4.42	5.29	6.27	-	-
50	-	-	2.18	2.65	3.20	3.84	4.57	-	-
60	-	-	-	1.88	2.27	2.72	-	-	-
70	-	-	-	-	1.57	1.88	-	-	-
73	-	-	-	-	1.40	1.67	-	-	-

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.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	62	dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

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

**Cooling capacity in W**

22	5 990	7 541	9 410	11 585	14 052	-	-	-	-
30	5 466	6 939	8 727	10 817	13 197	15 856	-	-	-
40	4 849	6 199	7 859	9 818	12 064	14 584	17 367	-	-
50	-	5 442	6 946	8 745	10 827	13 180	15 792	-	-
60	-	-	5 954	7 564	9 454	11 611	14 024	-	-
70	-	-	-	6 244	7 912	9 845	12 028	-	-
73	-	-	-	5 815	7 412	9 271	11 380	-	-

**Power input in W**

22	1 725	1 755	1 799	1 853	1 913	-	-	-	-
30	2 033	2 062	2 102	2 152	2 207	2 264	-	-	-
40	2 497	2 527	2 568	2 616	2 668	2 721	2 771	-	-
50	-	3 090	3 135	3 186	3 240	3 292	3 341	-	-
60	-	-	3 809	3 867	3 926	3 983	4 034	-	-
70	-	-	-	4 664	4 733	4 798	4 857	-	-
73	-	-	-	4 927	5 000	5 068	5 129	-	-

**Current consumption in A**

22	3.23	3.25	3.27	3.30	3.34	-	-	-	-
30	3.74	3.76	3.79	3.81	3.83	3.87	-	-	-
40	4.36	4.39	4.42	4.44	4.47	4.49	4.51	-	-
50	-	5.25	5.29	5.32	5.34	5.37	5.39	-	-
60	-	-	6.65	6.69	6.73	6.76	6.78	-	-
70	-	-	-	8.83	8.88	8.92	8.95	-	-
73	-	-	-	9.66	9.72	9.76	9.79	-	-

**Mass flow in kg/h**

22	132	165	202	243	289	-	-	-	-
30	127	163	201	243	289	342	-	-	-
40	122	159	198	241	289	342	402	-	-
50	-	153	194	239	287	341	401	-	-
60	-	-	189	234	283	338	398	-	-
70	-	-	-	226	276	331	392	-	-
73	-	-	-	223	273	328	389	-	-

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

22	3.47	4.30	5.23	6.25	7.34	-	-	-	-
30	2.69	3.37	4.15	5.03	5.98	7.00	-	-	-
40	1.94	2.45	3.06	3.75	4.52	5.36	6.27	-	-
50	-	1.76	2.22	2.74	3.34	4.00	4.73	-	-
60	-	-	1.56	1.96	2.41	2.92	3.48	-	-
70	-	-	-	1.34	1.67	2.05	2.48	-	-
73	-	-	-	1.18	1.48	1.83	2.22	-	-

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

Cooling capacity	5 824	W
Power input	2 796	W
Current consumption	4.77	A
Mass flow	156	kg/h
C.O.P.	2.08	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	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

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

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

**Cooling capacity in W**

22	6 085	7 629	9 483	11 635	14 076	-	-	-	-
30	-	7 067	8 839	10 900	13 242	15 856	-	-	-
40	-	-	8 021	9 945	12 136	14 584	17 286	-	-
50	-	-	7 157	8 914	10 927	13 180	15 667	-	-
60	-	-	-	7 776	9 581	11 611	-	-	-
70	-	-	-	-	8 065	9 845	-	-	-
73	-	-	-	-	7 572	9 271	-	-	-

**Power input in W**

22	1 725	1 755	1 799	1 853	1 913	-	-	-	-
30	-	2 062	2 102	2 152	2 207	2 264	-	-	-
40	-	-	2 568	2 616	2 668	2 721	2 771	-	-
50	-	-	3 135	3 186	3 240	3 292	3 341	-	-
60	-	-	-	3 867	3 926	3 983	-	-	-
70	-	-	-	-	4 733	4 798	-	-	-
73	-	-	-	-	5 000	5 068	-	-	-

**Current consumption in A**

22	3.23	3.25	3.27	3.30	3.34	-	-	-	-
30	-	3.76	3.79	3.81	3.83	3.87	-	-	-
40	-	-	4.42	4.44	4.47	4.49	4.51	-	-
50	-	-	5.29	5.32	5.34	5.37	5.39	-	-
60	-	-	-	6.69	6.73	6.76	-	-	-
70	-	-	-	-	8.88	8.92	-	-	-
73	-	-	-	-	9.72	9.76	-	-	-

**Mass flow in kg/h**

22	119	152	189	232	282	-	-	-	-
30	-	149	188	232	283	342	-	-	-
40	-	-	186	231	282	342	413	-	-
50	-	-	182	228	281	341	412	-	-
60	-	-	-	224	277	338	-	-	-
70	-	-	-	-	270	331	-	-	-
73	-	-	-	-	267	328	-	-	-

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

22	3.53	4.35	5.27	6.28	7.36	-	-	-	-
30	-	3.43	4.20	5.07	6.00	7.00	-	-	-
40	-	-	3.12	3.80	4.55	5.36	6.24	-	-
50	-	-	2.28	2.80	3.37	4.00	4.69	-	-
60	-	-	-	2.01	2.44	2.92	-	-	-
70	-	-	-	-	1.70	2.05	-	-	-
73	-	-	-	-	1.51	1.83	-	-	-

**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.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions**
**R407A**

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

**Cooling capacity in W**

10	5 773	7 288	9 129	11 333	-	-	-	-	-
20	5 117	6 482	8 150	10 157	12 539	15 332	-	-	-
30	4 521	5 721	7 199	8 992	11 136	13 667	16 622	20 038	-
40	3 996	5 014	6 286	7 849	9 739	11 993	14 646	17 735	-
45	-	4 685	5 848	7 290	9 047	11 155	13 652	16 572	-
50	-	-	5 424	6 741	8 360	10 320	12 655	15 402	-
55	-	-	-	6 202	7 681	9 487	11 657	14 227	-
60	-	-	-	-	7 011	8 660	10 660	13 049	-

**Power input in W**

10	1 524	1 554	1 583	1 621	-	-	-	-	-
20	1 894	1 943	1 975	2 000	2 029	2 071	-	-	-
30	2 321	2 410	2 465	2 497	2 517	2 535	2 561	2 606	-
40	2 810	2 958	3 056	3 115	3 147	3 160	3 166	3 174	-
45	-	3 263	3 391	3 471	3 516	3 534	3 537	3 535	-
50	-	-	3 752	3 859	3 922	3 951	3 956	3 948	-
55	-	-	-	4 279	4 365	4 409	4 422	4 413	-
60	-	-	-	-	4 846	4 910	4 935	4 931	-

**Current consumption in A**

10	2.59	2.61	2.58	2.52	-	-	-	-	-
20	3.66	3.75	3.78	3.79	3.78	3.78	-	-	-
30	4.36	4.50	4.58	4.61	4.63	4.65	4.69	4.78	-
40	5.07	5.24	5.33	5.38	5.40	5.42	5.45	5.52	-
45	-	5.72	5.82	5.86	5.88	5.88	5.90	5.95	-
50	-	-	6.44	6.47	6.48	6.47	6.46	6.49	-
55	-	-	-	7.26	7.25	7.21	7.19	7.19	-
60	-	-	-	-	8.24	8.18	8.12	8.08	-

**Mass flow in kg/h**

10	113	140	173	211	-	-	-	-	-
20	109	135	167	205	249	300	-	-	-
30	106	131	162	199	242	292	350	416	-
40	104	128	157	192	234	283	340	406	-
45	-	127	155	189	230	279	335	400	-
50	-	-	153	187	227	274	330	394	-
55	-	-	-	184	223	270	325	388	-
60	-	-	-	-	221	266	320	383	-

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

10	3.79	4.69	5.77	6.99	-	-	-	-	-
20	2.70	3.34	4.13	5.08	6.18	7.40	-	-	-
30	1.95	2.37	2.92	3.60	4.42	5.39	6.49	7.69	-
40	1.42	1.70	2.06	2.52	3.10	3.80	4.63	5.59	-
45	-	1.44	1.72	2.10	2.57	3.16	3.86	4.69	-
50	-	-	1.45	1.75	2.13	2.61	3.20	3.90	-
55	-	-	-	1.45	1.76	2.15	2.64	3.22	-
60	-	-	-	-	1.45	1.76	2.16	2.65	-

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

Cooling capacity	7 290	W
Power input	3 471	W
Current consumption	5.86	A
Mass flow	189	kg/h
C.O.P.	2.10	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	70	dB(A)
With acoustic hood	62	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Performance data at 50 Hz, ARI rating conditions**
**R407A**

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

**Cooling capacity in W**

10	6 130	7 732	9 677	12 003	-	-	-	-	-
20	5 474	6 927	8 700	10 831	13 357	16 316	-	-	-
30	4 882	6 169	7 753	9 671	11 963	14 665	17 815	21 452	-
40	4 369	5 473	6 850	8 539	10 578	13 007	15 862	19 182	-
45	-	5 153	6 419	7 987	9 895	12 181	14 883	18 039	-
50	-	-	6 007	7 450	9 221	11 361	13 906	16 896	-
55	-	-	-	6 929	8 561	10 550	12 936	15 757	-
60	-	-	-	-	-	9 756	11 980	14 630	-

**Power input in W**

10	1 524	1 554	1 583	1 621	-	-	-	-	-
20	1 894	1 943	1 975	2 000	2 029	2 071	-	-	-
30	2 321	2 410	2 465	2 497	2 517	2 535	2 561	2 606	-
40	2 810	2 958	3 056	3 115	3 147	3 160	3 166	3 174	-
45	-	3 263	3 391	3 471	3 516	3 534	3 537	3 535	-
50	-	-	3 752	3 859	3 922	3 951	3 956	3 948	-
55	-	-	-	4 279	4 365	4 409	4 422	4 413	-
60	-	-	-	-	-	4 910	4 935	4 931	-

**Current consumption in A**

10	2.59	2.61	2.58	2.52	-	-	-	-	-
20	3.66	3.75	3.78	3.79	3.78	3.78	-	-	-
30	4.36	4.50	4.58	4.61	4.63	4.65	4.69	4.78	-
40	5.07	5.24	5.33	5.38	5.40	5.42	5.45	5.52	-
45	-	5.72	5.82	5.86	5.88	5.88	5.90	5.95	-
50	-	-	6.44	6.47	6.48	6.47	6.46	6.49	-
55	-	-	-	7.26	7.25	7.21	7.19	7.19	-
60	-	-	-	-	-	8.18	8.12	8.08	-

**Mass flow in kg/h**

10	112	140	172	210	-	-	-	-	-
20	108	135	167	204	248	298	-	-	-
30	105	130	161	197	240	290	348	414	-
40	104	127	156	191	233	282	338	403	-
45	-	126	154	188	229	277	333	398	-
50	-	-	152	186	225	273	328	392	-
55	-	-	-	183	222	269	323	386	-
60	-	-	-	-	-	265	318	380	-

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

10	4.02	4.98	6.11	7.40	-	-	-	-	-
20	2.89	3.57	4.41	5.42	6.58	7.88	-	-	-
30	2.10	2.56	3.15	3.87	4.75	5.79	6.96	8.23	-
40	1.55	1.85	2.24	2.74	3.36	4.12	5.01	6.04	-
45	-	1.58	1.89	2.30	2.81	3.45	4.21	5.10	-
50	-	-	1.60	1.93	2.35	2.88	3.52	4.28	-
55	-	-	-	1.62	1.96	2.39	2.93	3.57	-
60	-	-	-	-	-	1.99	2.43	2.97	-

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

Cooling capacity	7 987	W
Power input	3 471	W
Current consumption	5.86	A
Mass flow	188	kg/h
C.O.P.	2.30	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	70	dB(A)
With acoustic hood	62	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Performance data at 60 Hz, EN 12900 rating conditions**
**R407A**

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

**Cooling capacity in W**

10	7 103	8 932	11 165	13 845	-	-	-	-	-
20	6 316	7 953	9 973	12 418	15 334	18 763	-	-	-
30	5 624	7 040	8 817	11 000	13 631	16 756	20 416	24 655	-
40	5 049	6 214	7 720	9 611	11 930	14 720	18 025	21 889	-
45	-	5 841	7 201	8 935	11 086	13 698	16 815	20 481	-
50	-	-	6 705	8 274	10 251	12 678	15 600	19 059	-
55	-	-	-	7 632	9 427	11 662	14 381	17 627	-
60	-	-	-	-	8 617	10 653	13 162	16 187	-

**Power input in W**

10	1 804	1 831	1 869	1 940	-	-	-	-	-
20	2 257	2 303	2 331	2 362	2 421	2 530	-	-	-
30	2 752	2 858	2 915	2 947	2 975	3 024	3 116	3 275	-
40	3 276	3 481	3 608	3 678	3 717	3 745	3 788	3 867	-
45	-	3 814	3 990	4 095	4 153	4 187	4 219	4 273	-
50	-	-	4 393	4 543	4 631	4 679	4 711	4 750	-
55	-	-	-	5 021	5 148	5 221	5 263	5 297	-
60	-	-	-	-	5 703	5 810	5 872	5 911	-

**Current consumption in A**

10	2.63	2.64	2.66	2.69	-	-	-	-	-
20	3.81	3.82	3.84	3.87	3.90	3.93	-	-	-
30	4.59	4.63	4.66	4.69	4.71	4.74	4.78	4.82	-
40	5.32	5.38	5.43	5.47	5.50	5.53	5.56	5.59	-
45	-	5.83	5.89	5.94	5.99	6.02	6.05	6.08	-
50	-	-	6.47	6.53	6.58	6.62	6.66	6.68	-
55	-	-	-	7.27	7.33	7.38	7.42	7.45	-
60	-	-	-	-	8.28	8.34	8.38	8.42	-

**Mass flow in kg/h**

10	138	172	212	258	-	-	-	-	-
20	134	166	205	251	305	367	-	-	-
30	131	161	198	243	296	358	430	512	-
40	132	158	193	235	287	348	419	501	-
45	-	158	191	232	282	342	413	495	-
50	-	-	189	229	278	337	407	488	-
55	-	-	-	227	274	332	401	481	-
60	-	-	-	-	271	327	395	474	-

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

10	3.94	4.88	5.97	7.13	-	-	-	-	-
20	2.80	3.45	4.28	5.26	6.33	7.42	-	-	-
30	2.04	2.46	3.02	3.73	4.58	5.54	6.55	7.53	-
40	1.54	1.78	2.14	2.61	3.21	3.93	4.76	5.66	-
45	-	1.53	1.80	2.18	2.67	3.27	3.99	4.79	-
50	-	-	1.53	1.82	2.21	2.71	3.31	4.01	-
55	-	-	-	1.52	1.83	2.23	2.73	3.33	-
60	-	-	-	-	1.51	1.83	2.24	2.74	-

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

Cooling capacity	8 935	W
Power input	4 095	W
Current consumption	5.94	A
Mass flow	232	kg/h
C.O.P.	2.18	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Performance data at 60 Hz, ARI rating conditions**
**R407A**

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

**Cooling capacity in W**

10	7 543	9 477	11 835	14 663	-	-	-	-	-
20	6 757	8 499	10 645	13 242	16 335	19 968	-	-	-
30	6 074	7 592	9 496	11 831	14 644	17 978	21 881	26 396	-
40	5 520	6 783	8 412	10 455	12 958	15 965	19 522	23 675	-
45	-	6 424	7 905	9 790	12 125	14 958	18 332	22 294	-
50	-	-	7 426	9 145	11 307	13 957	17 142	20 907	-
55	-	-	-	8 527	10 507	12 969	15 958	19 522	-
60	-	-	-	-	-	12 001	14 791	18 148	-

**Power input in W**

10	1 804	1 831	1 869	1 940	-	-	-	-	-
20	2 257	2 303	2 331	2 362	2 421	2 530	-	-	-
30	2 752	2 858	2 915	2 947	2 975	3 024	3 116	3 275	-
40	3 276	3 481	3 608	3 678	3 717	3 745	3 788	3 867	-
45	-	3 814	3 990	4 095	4 153	4 187	4 219	4 273	-
50	-	-	4 393	4 543	4 631	4 679	4 711	4 750	-
55	-	-	-	5 021	5 148	5 221	5 263	5 297	-
60	-	-	-	-	-	5 810	5 872	5 911	-

**Current consumption in A**

10	2.63	2.64	2.66	2.69	-	-	-	-	-
20	3.81	3.82	3.84	3.87	3.90	3.93	-	-	-
30	4.59	4.63	4.66	4.69	4.71	4.74	4.78	4.82	-
40	5.32	5.38	5.43	5.47	5.50	5.53	5.56	5.59	-
45	-	5.83	5.89	5.94	5.99	6.02	6.05	6.08	-
50	-	-	6.47	6.53	6.58	6.62	6.66	6.68	-
55	-	-	-	7.27	7.33	7.38	7.42	7.45	-
60	-	-	-	-	-	8.34	8.38	8.42	-

**Mass flow in kg/h**

10	138	171	211	257	-	-	-	-	-
20	133	165	204	250	303	365	-	-	-
30	131	160	197	242	294	356	427	509	-
40	131	158	192	234	285	346	416	498	-
45	-	157	190	231	281	340	410	492	-
50	-	-	188	228	276	335	404	485	-
55	-	-	-	226	273	330	398	478	-
60	-	-	-	-	-	326	393	471	-

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

10	4.18	5.18	6.33	7.56	-	-	-	-	-
20	2.99	3.69	4.57	5.61	6.75	7.89	-	-	-
30	2.21	2.66	3.26	4.02	4.92	5.95	7.02	8.06	-
40	1.68	1.95	2.33	2.84	3.49	4.26	5.15	6.12	-
45	-	1.68	1.98	2.39	2.92	3.57	4.35	5.22	-
50	-	-	1.69	2.01	2.44	2.98	3.64	4.40	-
55	-	-	-	1.70	2.04	2.48	3.03	3.69	-
60	-	-	-	-	-	2.07	2.52	3.07	-

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

Cooling capacity	9 790	W
Power input	4 095	W
Current consumption	5.94	A
Mass flow	231	kg/h
C.O.P.	2.39	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Performance data at 50 Hz, EN 12900 rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	6 694	7 678	9 585	11 855	-	-	-	-	-
20	5 987	6 881	8 619	10 699	13 158	16 032	-	-	-
30	5 329	6 122	7 673	9 545	11 772	14 394	17 445	20 963	-
40	4 737	5 417	6 763	8 407	10 385	12 734	15 492	18 694	-
45	-	-	6 326	7 849	9 695	11 902	14 506	17 543	-
50	-	-	-	7 302	9 011	11 070	13 516	16 384	-
55	-	-	-	-	8 335	10 242	12 524	15 217	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 667	1 684	1 713	1 757	-	-	-	-	-
20	2 090	2 116	2 145	2 168	2 200	2 256	-	-	-
30	2 588	2 639	2 694	2 721	2 737	2 757	2 795	2 867	-
40	3 160	3 252	3 358	3 417	3 443	3 452	3 458	3 478	-
45	-	-	3 734	3 818	3 859	3 872	3 872	3 875	-
50	-	-	-	4 254	4 316	4 340	4 341	4 334	-
55	-	-	-	-	4 815	4 856	4 864	4 854	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	2.81	2.81	2.77	2.71	-	-	-	-	-
20	4.02	4.06	4.09	4.09	4.07	4.07	-	-	-
30	4.82	4.90	4.98	5.01	5.02	5.03	5.08	5.17	-
40	5.64	5.73	5.83	5.87	5.89	5.90	5.93	6.00	-
45	-	-	6.38	6.42	6.43	6.42	6.44	6.49	-
50	-	-	-	7.10	7.10	7.08	7.07	7.10	-
55	-	-	-	-	7.96	7.92	7.88	7.87	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	117	133	164	201	-	-	-	-	-
20	113	129	159	195	237	285	-	-	-
30	110	125	154	189	230	277	332	394	-
40	107	121	149	183	222	269	322	384	-
45	-	-	147	180	219	264	318	379	-
50	-	-	-	177	215	260	313	373	-
55	-	-	-	-	212	256	308	367	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.01	4.56	5.60	6.75	-	-	-	-	-
20	2.86	3.25	4.02	4.94	5.98	7.11	-	-	-
30	2.06	2.32	2.85	3.51	4.30	5.22	6.24	7.31	-
40	1.50	1.67	2.01	2.46	3.02	3.69	4.48	5.38	-
45	-	-	1.69	2.06	2.51	3.07	3.75	4.53	-
50	-	-	-	1.72	2.09	2.55	3.11	3.78	-
55	-	-	-	-	1.73	2.11	2.57	3.13	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	7 849	W
Power input	3 818	W
Current consumption	6.42	A
Mass flow	180	kg/h
C.O.P.	2.06	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	62	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Performance data at 50 Hz, ARI rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	7 074	8 111	10 118	12 506	-	-	-	-	-
20	6 365	7 312	9 152	11 352	13 949	16 983	-	-	-
30	5 709	6 554	8 207	10 199	12 568	15 353	18 591	22 322	-
40	-	5 857	7 303	9 067	11 188	13 705	16 655	20 078	-
45	-	-	6 873	8 516	10 506	12 882	15 682	18 945	-
50	-	-	-	7 979	9 834	12 064	14 709	17 809	-
55	-	-	-	-	-	11 258	13 745	16 678	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 667	1 684	1 713	1 757	-	-	-	-	-
20	2 090	2 116	2 145	2 168	2 200	2 256	-	-	-
30	2 588	2 639	2 694	2 721	2 737	2 757	2 795	2 867	-
40	-	3 252	3 358	3 417	3 443	3 452	3 458	3 478	-
45	-	-	3 734	3 818	3 859	3 872	3 872	3 875	-
50	-	-	-	4 254	4 316	4 340	4 341	4 334	-
55	-	-	-	-	-	4 856	4 864	4 854	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	2.81	2.81	2.77	2.71	-	-	-	-	-
20	4.02	4.06	4.09	4.09	4.07	4.07	-	-	-
30	4.82	4.90	4.98	5.01	5.02	5.03	5.08	5.17	-
40	-	5.73	5.83	5.87	5.89	5.90	5.93	6.00	-
45	-	-	6.38	6.42	6.43	6.42	6.44	6.49	-
50	-	-	-	7.10	7.10	7.08	7.07	7.10	-
55	-	-	-	-	-	7.92	7.88	7.87	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	116	132	163	199	-	-	-	-	-
20	112	128	158	194	235	283	-	-	-
30	109	124	153	188	228	275	330	392	-
40	-	121	148	181	221	267	320	382	-
45	-	-	146	179	217	263	316	376	-
50	-	-	-	176	214	258	311	371	-
55	-	-	-	-	-	254	306	365	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.24	4.82	5.91	7.12	-	-	-	-	-
20	3.05	3.46	4.27	5.24	6.34	7.53	-	-	-
30	2.21	2.48	3.05	3.75	4.59	5.57	6.65	7.79	-
40	-	1.80	2.17	2.65	3.25	3.97	4.82	5.77	-
45	-	-	1.84	2.23	2.72	3.33	4.05	4.89	-
50	-	-	-	1.88	2.28	2.78	3.39	4.11	-
55	-	-	-	-	-	2.32	2.83	3.44	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	8 516	W
Power input	3 818	W
Current consumption	6.42	A
Mass flow	179	kg/h
C.O.P.	2.23	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	70	dB(A)
With acoustic hood	62	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Performance data at 60 Hz, EN 12900 rating conditions**
**R407F**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	8 289	9 492	11 825	14 605	-	-	-	-	-
20	7 426	8 512	10 639	13 197	16 229	19 774	-	-	-
30	6 647	7 594	9 478	11 779	14 538	17 796	21 595	25 976	-
40	5 982	6 769	8 375	10 382	12 832	15 768	19 228	23 256	-
45	-	-	7 854	9 701	11 984	14 744	18 022	21 860	-
50	-	-	-	9 038	11 144	13 720	16 806	20 445	-
55	-	-	-	-	10 316	12 699	15 585	19 016	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 919	1 932	1 966	2 035	-	-	-	-	-
20	2 424	2 447	2 470	2 498	2 554	2 665	-	-	-
30	2 993	3 050	3 105	3 133	3 158	3 206	3 303	3 473	-
40	3 616	3 732	3 860	3 929	3 965	3 992	4 036	4 122	-
45	-	-	4 279	4 384	4 441	4 473	4 506	4 566	-
50	-	-	-	4 876	4 964	5 011	5 044	5 088	-
55	-	-	-	-	5 532	5 605	5 648	5 687	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	2.79	2.79	2.80	2.82	-	-	-	-	-
20	4.05	4.06	4.07	4.09	4.11	4.15	-	-	-
30	4.91	4.93	4.96	4.98	5.00	5.03	5.06	5.10	-
40	5.72	5.76	5.80	5.84	5.87	5.89	5.92	5.95	-
45	-	-	6.32	6.37	6.40	6.43	6.46	6.48	-
50	-	-	-	7.01	7.06	7.09	7.12	7.15	-
55	-	-	-	-	7.88	7.93	7.96	7.98	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	145	165	203	247	-	-	-	-	-
20	140	159	196	240	292	351	-	-	-
30	137	155	190	233	283	343	411	489	-
40	136	152	185	225	275	333	400	478	-
45	-	-	183	222	270	327	395	472	-
50	-	-	-	219	266	322	389	466	-
55	-	-	-	-	262	317	383	459	-
60	-	-	-	-	-	-	-	-	-

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

10	4.32	4.91	6.01	7.18	-	-	-	-	-
20	3.06	3.48	4.31	5.28	6.35	7.42	-	-	-
30	2.22	2.49	3.05	3.76	4.60	5.55	6.54	7.48	-
40	1.65	1.81	2.17	2.64	3.24	3.95	4.76	5.64	-
45	-	-	1.84	2.21	2.70	3.30	4.00	4.79	-
50	-	-	-	1.85	2.25	2.74	3.33	4.02	-
55	-	-	-	-	1.86	2.27	2.76	3.34	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	9 701	W
Power input	4 384	W
Current consumption	6.37	A
Mass flow	222	kg/h
C.O.P.	2.21	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	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

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Performance data at 60 Hz, ARI rating conditions**
**R407F**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	8 760	10 027	12 483	15 407	-	-	-	-	-
20	7 896	9 046	11 296	14 001	17 204	20 947	-	-	-
30	7 121	8 131	10 138	12 586	15 520	18 982	23 014	27 660	-
40	-	7 319	9 044	11 198	13 825	16 969	20 672	24 978	-
45	-	-	8 533	10 526	12 986	15 958	19 483	23 606	-
50	-	-	-	9 877	12 161	14 951	18 291	22 224	-
55	-	-	-	-	-	13 958	17 105	20 841	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 919	1 932	1 966	2 035	-	-	-	-	-
20	2 424	2 447	2 470	2 498	2 554	2 665	-	-	-
30	2 993	3 050	3 105	3 133	3 158	3 206	3 303	3 473	-
40	-	3 732	3 860	3 929	3 965	3 992	4 036	4 122	-
45	-	-	4 279	4 384	4 441	4 473	4 506	4 566	-
50	-	-	-	4 876	4 964	5 011	5 044	5 088	-
55	-	-	-	-	-	5 605	5 648	5 687	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	2.79	2.79	2.80	2.82	-	-	-	-	-
20	4.05	4.06	4.07	4.09	4.11	4.15	-	-	-
30	4.91	4.93	4.96	4.98	5.00	5.03	5.06	5.10	-
40	-	5.76	5.80	5.84	5.87	5.89	5.92	5.95	-
45	-	-	6.32	6.37	6.40	6.43	6.46	6.48	-
50	-	-	-	7.01	7.06	7.09	7.12	7.15	-
55	-	-	-	-	-	7.93	7.96	7.98	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	144	164	202	246	-	-	-	-	-
20	139	158	195	239	290	349	-	-	-
30	136	154	189	231	282	340	408	485	-
40	-	151	184	224	273	331	398	475	-
45	-	-	182	221	269	325	392	469	-
50	-	-	-	218	264	320	386	463	-
55	-	-	-	-	-	315	380	456	-
60	-	-	-	-	-	-	-	-	-

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

10	4.57	5.19	6.35	7.57	-	-	-	-	-
20	3.26	3.70	4.57	5.61	6.74	7.86	-	-	-
30	2.38	2.67	3.26	4.02	4.91	5.92	6.97	7.96	-
40	-	1.96	2.34	2.85	3.49	4.25	5.12	6.06	-
45	-	-	1.99	2.40	2.92	3.57	4.32	5.17	-
50	-	-	-	2.03	2.45	2.98	3.63	4.37	-
55	-	-	-	-	-	2.49	3.03	3.66	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	10 526	W
Power input	4 384	W
Current consumption	6.37	A
Mass flow	221	kg/h
C.O.P.	2.40	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**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	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 902	6 136	7 613	9 370	11 442	-	-	-	-
20	4 386	5 568	6 964	8 612	10 547	12 806	15 425	-	-
30	-	-	6 228	7 745	9 521	11 592	13 995	16 766	19 940
40	-	-	-	6 790	8 385	10 247	12 411	14 915	17 795
50	-	-	-	-	7 161	8 791	10 695	12 911	15 474
60	-	-	-	-	-	-	8 869	10 774	12 998

**Power input in W**

10	1 519	1 538	1 583	1 651	1 740	-	-	-	-
20	1 969	1 948	1 960	2 002	2 072	2 166	2 282	-	-
30	-	-	2 489	2 495	2 536	2 608	2 709	2 835	2 983
40	-	-	-	3 202	3 204	3 245	3 320	3 428	3 566
50	-	-	-	-	4 148	4 147	4 188	4 269	4 385
60	-	-	-	-	-	-	5 384	5 428	5 514

**Current consumption in A**

10	3.62	3.68	3.72	3.76	3.81	-	-	-	-
20	4.03	4.07	4.11	4.16	4.21	4.28	4.38	-	-
30	-	-	4.68	4.71	4.76	4.82	4.92	5.06	5.25
40	-	-	-	5.56	5.58	5.63	5.72	5.85	6.03
50	-	-	-	-	6.80	6.82	6.89	7.00	7.16
60	-	-	-	-	-	-	8.54	8.62	8.76

**Mass flow in kg/h**

10	80	101	126	155	190	-	-	-	-
20	77	98	123	153	188	230	280	-	-
30	-	-	119	148	184	226	275	333	401
40	-	-	-	142	177	219	268	326	394
50	-	-	-	-	168	209	258	315	383
60	-	-	-	-	-	-	245	302	368

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

10	3.23	3.99	4.81	5.68	6.58	-	-	-	-
20	2.23	2.86	3.55	4.30	5.09	5.91	6.76	-	-
30	-	-	2.50	3.10	3.75	4.44	5.17	5.91	6.68
40	-	-	-	2.12	2.62	3.16	3.74	4.35	4.99
50	-	-	-	-	1.73	2.12	2.55	3.02	3.53
60	-	-	-	-	-	-	1.65	1.99	2.36

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

Cooling capacity	7 783	W
Power input	3 637	W
Current consumption	6.13	A
Mass flow	173	kg/h
C.O.P.	2.14	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	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

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

**R448A**

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

**Cooling capacity in W**

10	4 923	6 166	7 656	9 428	11 516	-	-	-	-
20	4 348	5 532	6 935	8 594	10 545	12 821	15 454	-	-
30	3 733	4 834	6 128	7 651	9 442	11 534	13 962	16 757	19 940
40	-	-	5 259	6 623	8 230	10 116	12 317	14 867	17 795
50	-	-	-	5 534	6 934	8 590	10 540	12 823	15 474
60	-	-	-	-	5 577	6 979	8 655	10 647	12 998

**Power input in W**

10	1 519	1 538	1 583	1 651	1 740	-	-	-	-
20	1 969	1 948	1 960	2 002	2 072	2 166	2 282	-	-
30	2 590	2 519	2 489	2 495	2 536	2 608	2 709	2 835	2 983
40	-	-	3 240	3 202	3 204	3 245	3 320	3 428	3 566
50	-	-	-	4 194	4 148	4 147	4 188	4 269	4 385
60	-	-	-	-	5 439	5 387	5 384	5 428	5 514

**Current consumption in A**

10	3.62	3.68	3.72	3.76	3.81	-	-	-	-
20	4.03	4.07	4.11	4.16	4.21	4.28	4.38	-	-
30	4.62	4.66	4.68	4.71	4.76	4.82	4.92	5.06	5.25
40	-	-	5.54	5.56	5.58	5.63	5.72	5.85	6.03
50	-	-	-	6.80	6.80	6.82	6.89	7.00	7.16
60	-	-	-	-	8.52	8.51	8.54	8.62	8.76

**Mass flow in kg/h**

10	94	117	143	174	209	-	-	-	-
20	91	114	140	171	206	247	294	-	-
30	87	110	136	166	202	242	289	342	401
40	-	-	129	159	195	235	282	335	394
50	-	-	-	150	185	225	271	324	383
60	-	-	-	-	172	212	258	310	368

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

10	3.24	4.01	4.84	5.71	6.62	-	-	-	-
20	2.21	2.84	3.54	4.29	5.09	5.92	6.77	-	-
30	1.44	1.92	2.46	3.07	3.72	4.42	5.15	5.91	6.68
40	-	-	1.62	2.07	2.57	3.12	3.71	4.34	4.99
50	-	-	-	1.32	1.67	2.07	2.52	3.00	3.53
60	-	-	-	-	1.03	1.30	1.61	1.96	2.36

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

Cooling capacity	7 591	W
Power input	3 637	W
Current consumption	6.13	A
Mass flow	190	kg/h
C.O.P.	2.09	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	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

**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	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 902	6 136	7 613	9 370	11 442	-	-	-	-
20	4 386	5 568	6 964	8 612	10 547	12 806	15 425	-	-
30	-	-	6 228	7 745	9 521	11 592	13 995	16 766	19 940
40	-	-	-	6 790	8 385	10 247	12 411	14 915	17 795
50	-	-	-	-	7 161	8 791	10 695	12 911	15 474
60	-	-	-	-	-	-	8 869	10 774	12 998

**Power input in W**

10	1 519	1 538	1 583	1 651	1 740	-	-	-	-
20	1 969	1 948	1 960	2 002	2 072	2 166	2 282	-	-
30	-	-	2 489	2 495	2 536	2 608	2 709	2 835	2 983
40	-	-	-	3 202	3 204	3 245	3 320	3 428	3 566
50	-	-	-	-	4 148	4 147	4 188	4 269	4 385
60	-	-	-	-	-	-	5 384	5 428	5 514

**Current consumption in A**

10	3.62	3.68	3.72	3.76	3.81	-	-	-	-
20	4.03	4.07	4.11	4.16	4.21	4.28	4.38	-	-
30	-	-	4.68	4.71	4.76	4.82	4.92	5.06	5.25
40	-	-	-	5.56	5.58	5.63	5.72	5.85	6.03
50	-	-	-	-	6.80	6.82	6.89	7.00	7.16
60	-	-	-	-	-	-	8.54	8.62	8.76

**Mass flow in kg/h**

10	80	101	126	155	190	-	-	-	-
20	77	98	123	153	188	230	280	-	-
30	-	-	119	148	184	226	275	333	401
40	-	-	-	142	177	219	268	326	394
50	-	-	-	-	168	209	258	315	383
60	-	-	-	-	-	-	245	302	368

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

10	3.23	3.99	4.81	5.68	6.58	-	-	-	-
20	2.23	2.86	3.55	4.30	5.09	5.91	6.76	-	-
30	-	-	2.50	3.10	3.75	4.44	5.17	5.91	6.68
40	-	-	-	2.12	2.62	3.16	3.74	4.35	4.99
50	-	-	-	-	1.73	2.12	2.55	3.02	3.53
60	-	-	-	-	-	-	1.65	1.99	2.36

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

Cooling capacity	7 783	W
Power input	3 637	W
Current consumption	6.13	A
Mass flow	173	kg/h
C.O.P.	2.14	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	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

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

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

**Cooling capacity in W**

10	4 912	6 155	7 644	9 416	11 505	-	-	-	-
20	4 336	5 520	6 923	8 582	10 533	12 811	15 446	-	-
30	3 722	4 822	6 115	7 638	9 429	11 523	13 954	16 751	19 940
40	-	-	5 245	6 609	8 217	10 104	12 307	14 861	17 795
50	-	-	-	5 520	6 920	8 577	10 530	12 817	15 474
60	-	-	-	-	5 563	6 966	8 645	10 641	12 998

**Power input in W**

10	1 519	1 538	1 583	1 651	1 740	-	-	-	-
20	1 969	1 948	1 960	2 002	2 072	2 166	2 282	-	-
30	2 590	2 519	2 489	2 495	2 536	2 608	2 709	2 835	2 983
40	-	-	3 240	3 202	3 204	3 245	3 320	3 428	3 566
50	-	-	-	4 194	4 148	4 147	4 188	4 269	4 385
60	-	-	-	-	5 439	5 387	5 384	5 428	5 514

**Current consumption in A**

10	3.62	3.68	3.72	3.76	3.81	-	-	-	-
20	4.03	4.07	4.11	4.16	4.21	4.28	4.38	-	-
30	4.62	4.66	4.68	4.71	4.76	4.82	4.92	5.06	5.25
40	-	-	5.54	5.56	5.58	5.63	5.72	5.85	6.03
50	-	-	-	6.80	6.80	6.82	6.89	7.00	7.16
60	-	-	-	-	8.52	8.51	8.54	8.62	8.76

**Mass flow in kg/h**

10	94	117	143	174	209	-	-	-	-
20	91	114	140	171	206	247	294	-	-
30	87	110	136	166	202	242	289	342	401
40	-	-	129	159	195	235	282	335	394
50	-	-	-	150	185	225	271	324	383
60	-	-	-	-	172	212	258	310	368

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

10	3.23	4.00	4.83	5.70	6.61	-	-	-	-
20	2.20	2.83	3.53	4.29	5.08	5.91	6.77	-	-
30	1.44	1.91	2.46	3.06	3.72	4.42	5.15	5.91	6.68
40	-	-	1.62	2.06	2.56	3.11	3.71	4.33	4.99
50	-	-	-	1.32	1.67	2.07	2.51	3.00	3.53
60	-	-	-	-	1.02	1.29	1.61	1.96	2.36

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

Cooling capacity	7 577	W
Power input	3 637	W
Current consumption	6.13	A
Mass flow	190	kg/h
C.O.P.	2.08	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	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