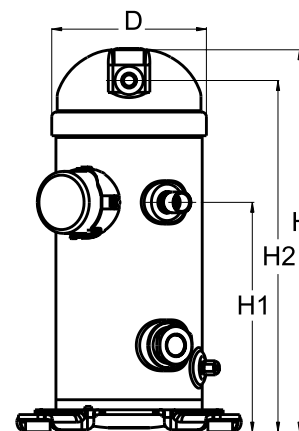


**General Characteristics**

Model number (on compressor nameplate)		<b>MLZ021T4LP9A</b>
Code number for Singlepack*		121L8633
Code number for Industrial pack**		121L8632
Drawing number		0XC6300B-1
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		32 bar
Swept volume		46.21 cm <sup>3</sup> /rev
Displacement @ Nominal speed		8.0 m <sup>3</sup> /h @ 2900 rpm - 9.7 m <sup>3</sup> /h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 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		3.63 kg
Approved refrigerants		R404A, R134a, R407A, R407F, R448A, R449A

**Dimensions**

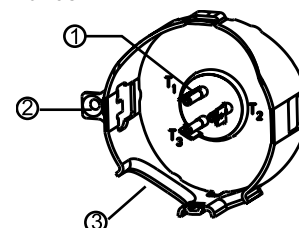


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**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		4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C		3.422 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C		4.664 Ω
Rated Load Amps (RLA)		6.1 A
Maximum Continuous Current (MCC)		9.5 A
Locked Rotor Amps (LRA)		45 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

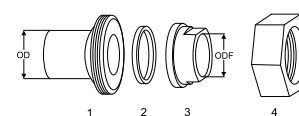
\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

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

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
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, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
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, 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
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**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	3 186	3 958	4 879	5 970	7 252	-	-	-	-
20	2 899	3 622	4 468	5 457	6 613	7 955	9 506	-	-
30	2 569	3 238	4 004	4 889	5 913	7 098	8 467	10 039	11 835
40	-	2 795	3 477	4 251	5 139	6 163	7 345	8 704	10 264
50	-	-	2 872	3 532	4 280	5 138	6 127	7 270	8 588
60	-	-	-	-	3 321	4 008	4 802	5 725	6 798

**Power input in W**

10	1 088	1 043	1 019	1 016	1 033	-	-	-	-
20	1 320	1 295	1 283	1 283	1 294	1 317	1 352	-	-
30	1 602	1 601	1 604	1 609	1 617	1 628	1 642	1 658	1 676
40	-	1 986	2 006	2 020	2 028	2 030	2 025	2 014	1 996
50	-	-	2 517	2 542	2 552	2 548	2 528	2 492	2 442
60	-	-	-	-	3 217	3 208	3 175	3 119	3 038

**Current consumption in A**

10	2.24	2.15	2.10	2.09	2.13	-	-	-	-
20	2.72	2.67	2.65	2.65	2.67	2.72	2.79	-	-
30	3.30	3.30	3.31	3.32	3.33	3.36	3.38	3.42	3.46
40	-	4.10	4.14	4.17	4.18	4.18	4.18	4.15	4.12
50	-	-	5.19	5.24	5.26	5.25	5.21	5.14	5.03
60	-	-	-	-	6.63	6.61	6.55	6.43	6.26

**Mass flow in kg/h**

10	58	77	98	122	149	-	-	-	-
20	61	79	99	122	150	181	218	-	-
30	62	79	98	121	148	179	216	259	309
40	-	77	96	118	144	175	212	255	304
50	-	-	91	113	138	169	206	248	298
60	-	-	-	-	131	161	197	240	290

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

10	2.93	3.79	4.79	5.88	7.02	-	-	-	-
20	2.20	2.80	3.48	4.25	5.11	6.04	7.03	-	-
30	1.60	2.02	2.50	3.04	3.66	4.36	5.16	6.06	7.06
40	-	1.41	1.73	2.10	2.53	3.04	3.63	4.32	5.14
50	-	-	1.14	1.39	1.68	2.02	2.42	2.92	3.52
60	-	-	-	-	1.03	1.25	1.51	1.84	2.24

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

Cooling capacity	4 721	W
Power input	2 274	W
Current consumption	4.69	A
Mass flow	141	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	67	dB(A)
With acoustic hood	59	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	3 061	3 831	4 754	5 855	7 155	-	-	-	-
20	2 726	3 439	4 283	5 280	6 453	7 825	9 416	-	-
30	2 350	3 002	3 760	4 649	5 690	6 909	8 326	9 963	11 835
40	1 924	2 508	3 175	3 950	4 855	5 915	7 154	8 597	10 264
50	-	-	2 519	3 173	3 936	4 832	5 887	7 131	8 588
60	-	-	-	-	2 922	3 647	4 513	5 551	6 798

**Power input in W**

10	1 088	1 043	1 019	1 016	1 033	-	-	-	-
20	1 320	1 295	1 283	1 283	1 294	1 317	1 352	-	-
30	1 602	1 601	1 604	1 609	1 617	1 628	1 642	1 658	1 676
40	1 961	1 986	2 006	2 020	2 028	2 030	2 025	2 014	1 996
50	-	-	2 517	2 542	2 552	2 548	2 528	2 492	2 442
60	-	-	-	-	3 217	3 208	3 175	3 119	3 038

**Current consumption in A**

10	2.24	2.15	2.10	2.09	2.13	-	-	-	-
20	2.72	2.67	2.65	2.65	2.67	2.72	2.79	-	-
30	3.30	3.30	3.31	3.32	3.33	3.36	3.38	3.42	3.46
40	4.04	4.10	4.14	4.17	4.18	4.18	4.18	4.15	4.12
50	-	-	5.19	5.24	5.26	5.25	5.21	5.14	5.03
60	-	-	-	-	6.63	6.61	6.55	6.43	6.26

**Mass flow in kg/h**

10	69	90	112	137	165	-	-	-	-
20	73	92	114	138	165	196	231	-	-
30	74	92	113	136	163	194	229	267	309
40	73	90	110	133	159	189	224	262	304
50	-	-	105	127	153	183	217	256	298
60	-	-	-	-	145	174	208	247	290

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

10	2.81	3.67	4.66	5.76	6.93	-	-	-	-
20	2.07	2.66	3.34	4.12	4.99	5.94	6.97	-	-
30	1.47	1.87	2.34	2.89	3.52	4.24	5.07	6.01	7.06
40	0.98	1.26	1.58	1.96	2.39	2.91	3.53	4.27	5.14
50	-	-	1.00	1.25	1.54	1.90	2.33	2.86	3.52
60	-	-	-	-	0.91	1.14	1.42	1.78	2.24

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

Cooling capacity	4 406	W
Power input	2 274	W
Current consumption	4.69	A
Mass flow	156	kg/h
C.O.P.	1.94	

**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	67	dB(A)
With acoustic hood	59	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	3 935	4 935	6 115	7 489	9 072	-	-	-	-
20	3 570	4 478	5 543	6 778	8 199	9 819	11 653	-	-
30	3 169	3 987	4 937	6 035	7 294	8 729	10 355	12 185	14 234
40	-	3 444	4 281	5 241	6 339	7 590	9 009	10 610	12 406
50	-	-	3 556	4 379	5 318	6 386	7 598	8 969	10 514
60	-	-	-	-	4 213	5 098	6 105	7 249	8 544

**Power input in W**

10	1 097	1 210	1 260	1 266	1 249	-	-	-	-
20	1 351	1 494	1 568	1 592	1 588	1 576	1 577	-	-
30	1 674	1 842	1 935	1 973	1 977	1 967	1 964	1 988	2 061
40	-	2 294	2 402	2 449	2 457	2 444	2 433	2 443	2 495
50	-	-	3 008	3 061	3 067	3 048	3 024	3 015	3 043
60	-	-	-	-	3 848	3 817	3 776	3 745	3 744

**Current consumption in A**

10	1.72	1.90	1.98	1.99	1.96	-	-	-	-
20	2.12	2.34	2.46	2.50	2.49	2.47	2.47	-	-
30	2.63	2.89	3.04	3.10	3.10	3.09	3.08	3.12	3.23
40	-	3.60	3.77	3.84	3.85	3.84	3.82	3.83	3.92
50	-	-	4.72	4.80	4.81	4.78	4.74	4.73	4.77
60	-	-	-	-	6.04	5.99	5.92	5.87	5.87

**Mass flow in kg/h**

10	67	94	122	153	188	-	-	-	-
20	72	97	123	152	185	224	270	-	-
30	73	97	123	150	182	219	263	316	379
40	-	94	119	146	178	214	257	309	371
50	-	-	113	140	172	208	251	303	365
60	-	-	-	-	164	201	245	298	360

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

10	3.59	4.08	4.86	5.92	7.26	-	-	-	-
20	2.64	3.00	3.54	4.26	5.16	6.23	7.39	-	-
30	1.89	2.16	2.55	3.06	3.69	4.44	5.27	6.13	6.91
40	-	1.50	1.78	2.14	2.58	3.11	3.70	4.34	4.97
50	-	-	1.18	1.43	1.73	2.10	2.51	2.97	3.46
60	-	-	-	-	1.09	1.34	1.62	1.94	2.28

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

Cooling capacity	5 838	W
Power input	2 743	W
Current consumption	4.30	A
Mass flow	175	kg/h
C.O.P.	2.13	

**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	71	dB(A)
With acoustic hood	63	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	3 781	4 776	5 959	7 345	8 950	-	-	-	-
20	3 357	4 253	5 314	6 558	8 001	9 658	11 542	-	-
30	2 899	3 696	4 636	5 738	7 019	8 496	10 183	12 094	14 234
40	2 394	3 090	3 909	4 869	5 988	7 284	8 775	10 479	12 406
50	-	-	3 120	3 935	4 890	6 005	7 300	8 797	10 514
60	-	-	-	-	3 707	4 638	5 737	7 029	8 544

**Power input in W**

10	1 097	1 210	1 260	1 266	1 249	-	-	-	-
20	1 351	1 494	1 568	1 592	1 588	1 576	1 577	-	-
30	1 674	1 842	1 935	1 973	1 977	1 967	1 964	1 988	2 061
40	2 104	2 294	2 402	2 449	2 457	2 444	2 433	2 443	2 495
50	-	-	3 008	3 061	3 067	3 048	3 024	3 015	3 043
60	-	-	-	-	3 848	3 817	3 776	3 745	3 744

**Current consumption in A**

10	1.72	1.90	1.98	1.99	1.96	-	-	-	-
20	2.12	2.34	2.46	2.50	2.49	2.47	2.47	-	-
30	2.63	2.89	3.04	3.10	3.10	3.09	3.08	3.12	3.23
40	3.30	3.60	3.77	3.84	3.85	3.84	3.82	3.83	3.92
50	-	-	4.72	4.80	4.81	4.78	4.74	4.73	4.77
60	-	-	-	-	6.04	5.99	5.92	5.87	5.87

**Mass flow in kg/h**

10	79	110	140	172	207	-	-	-	-
20	85	114	142	172	204	242	285	-	-
30	87	114	141	169	201	237	278	325	379
40	83	110	137	165	196	231	272	318	371
50	-	-	129	158	189	225	266	312	365
60	-	-	-	-	181	217	259	306	360

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

10	3.45	3.95	4.73	5.80	7.17	-	-	-	-
20	2.48	2.85	3.39	4.12	5.04	6.13	7.32	-	-
30	1.73	2.01	2.40	2.91	3.55	4.32	5.18	6.08	6.91
40	1.14	1.35	1.63	1.99	2.44	2.98	3.61	4.29	4.97
50	-	-	1.04	1.29	1.59	1.97	2.41	2.92	3.46
60	-	-	-	-	0.96	1.22	1.52	1.88	2.28

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

Cooling capacity	5 448	W
Power input	2 743	W
Current consumption	4.30	A
Mass flow	193	kg/h
C.O.P.	1.99	

**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	71	dB(A)
With acoustic hood	63	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	2 767	3 475	4 332	5 348	6 532	-	-	-	-
30	2 556	3 221	4 027	4 983	6 101	7 389	-	-	-
40	2 275	2 881	3 617	4 493	5 521	6 709	8 069	-	-
50	-	2 521	3 181	3 971	4 901	5 983	7 225	-	-
60	-	-	2 725	3 421	4 248	5 216	6 335	-	-
70	-	-	-	2 851	3 568	4 415	5 404	-	-
73	-	-	-	2 677	3 359	4 169	5 117	-	-

**Power input in W**

22	818	824	831	841	855	-	-	-	-
30	971	983	993	1 002	1 014	1 030	-	-	-
40	1 180	1 203	1 220	1 234	1 246	1 259	1 275	-	-
50	-	1 461	1 489	1 511	1 528	1 542	1 556	-	-
60	-	-	1 815	1 849	1 875	1 895	1 911	-	-
70	-	-	-	2 264	2 303	2 333	2 355	-	-
73	-	-	-	2 406	2 450	2 483	2 508	-	-

**Current consumption in A**

22	1.57	1.59	1.60	1.62	1.64	-	-	-	-
30	1.87	1.89	1.91	1.93	1.95	1.98	-	-	-
40	2.27	2.32	2.35	2.37	2.40	2.42	2.45	-	-
50	-	2.81	2.87	2.91	2.94	2.97	2.99	-	-
60	-	-	3.49	3.56	3.61	3.65	3.68	-	-
70	-	-	-	4.36	4.43	4.49	4.53	-	-
73	-	-	-	4.63	4.71	4.78	4.83	-	-

**Mass flow in kg/h**

22	61	75	92	110	132	-	-	-	-
30	59	74	91	110	131	156	-	-	-
40	57	72	89	108	130	155	182	-	-
50	-	69	86	106	128	153	180	-	-
60	-	-	84	103	125	150	177	-	-
70	-	-	-	100	122	146	174	-	-
73	-	-	-	100	121	145	173	-	-

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

22	3.38	4.22	5.21	6.36	7.64	-	-	-	-
30	2.63	3.28	4.06	4.97	6.02	7.18	-	-	-
40	1.93	2.39	2.96	3.64	4.43	5.33	6.33	-	-
50	-	1.73	2.14	2.63	3.21	3.88	4.64	-	-
60	-	-	1.50	1.85	2.27	2.75	3.31	-	-
70	-	-	-	1.26	1.55	1.89	2.29	-	-
73	-	-	-	1.11	1.37	1.68	2.04	-	-

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

Cooling capacity	2 703	W
Power input	1 326	W
Current consumption	2.55	A
Mass flow	71	kg/h
C.O.P.	2.04	

**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	67	dB(A)
With acoustic hood	59	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	2 811	3 516	4 366	5 371	6 543	-	-	-	-
30	-	3 281	4 079	5 022	6 121	7 389	-	-	-
40	-	-	3 691	4 551	5 554	6 709	8 031	-	-
50	-	-	3 278	4 048	4 946	5 983	7 168	-	-
60	-	-	-	3 517	4 305	5 216	-	-	-
70	-	-	-	-	3 637	4 415	-	-	-
73	-	-	-	-	3 432	4 169	-	-	-

**Power input in W**

22	818	824	831	841	855	-	-	-	-
30	-	983	993	1 002	1 014	1 030	-	-	-
40	-	-	1 220	1 234	1 246	1 259	1 275	-	-
50	-	-	1 489	1 511	1 528	1 542	1 556	-	-
60	-	-	-	1 849	1 875	1 895	-	-	-
70	-	-	-	-	2 303	2 333	-	-	-
73	-	-	-	-	2 450	2 483	-	-	-

**Current consumption in A**

22	1.57	1.59	1.60	1.62	1.64	-	-	-	-
30	-	1.89	1.91	1.93	1.95	1.98	-	-	-
40	-	-	2.35	2.37	2.40	2.42	2.45	-	-
50	-	-	2.87	2.91	2.94	2.97	2.99	-	-
60	-	-	-	3.56	3.61	3.65	-	-	-
70	-	-	-	-	4.43	4.49	-	-	-
73	-	-	-	-	4.71	4.78	-	-	-

**Mass flow in kg/h**

22	55	69	86	105	129	-	-	-	-
30	-	68	85	105	128	156	-	-	-
40	-	-	83	103	127	155	187	-	-
50	-	-	81	101	125	153	185	-	-
60	-	-	-	99	122	150	-	-	-
70	-	-	-	-	119	146	-	-	-
73	-	-	-	-	118	145	-	-	-

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

22	3.44	4.27	5.25	6.39	7.66	-	-	-	-
30	-	3.34	4.11	5.01	6.04	7.18	-	-	-
40	-	-	3.03	3.69	4.46	5.33	6.30	-	-
50	-	-	2.20	2.68	3.24	3.88	4.61	-	-
60	-	-	-	1.90	2.30	2.75	-	-	-
70	-	-	-	-	1.58	1.89	-	-	-
73	-	-	-	-	1.40	1.68	-	-	-

**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	67	dB(A)
With acoustic hood	59	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	3 408	4 323	5 386	6 615	8 030	-	-	-	-
30	3 093	3 983	5 006	6 181	7 526	9 063	-	-	-
40	2 690	3 547	4 518	5 622	6 878	8 307	9 927	-	-
50	-	3 073	3 989	5 020	6 185	7 503	8 994	-	-
60	-	-	3 392	4 347	5 418	6 623	7 982	-	-
70	-	-	-	3 577	4 550	5 640	6 865	-	-
73	-	-	-	3 322	4 266	5 320	6 505	-	-

**Power input in W**

22	978	1 008	1 029	1 051	1 083	-	-	-	-
30	1 146	1 186	1 210	1 227	1 247	1 282	-	-	-
40	1 378	1 442	1 479	1 501	1 517	1 538	1 574	-	-
50	-	1 726	1 790	1 828	1 852	1 871	1 896	-	-
60	-	-	2 134	2 201	2 244	2 273	2 299	-	-
70	-	-	-	2 612	2 686	2 738	2 776	-	-
73	-	-	-	2 741	2 828	2 888	2 933	-	-

**Current consumption in A**

22	1.53	1.58	1.61	1.65	1.70	-	-	-	-
30	1.80	1.86	1.90	1.92	1.96	2.01	-	-	-
40	2.16	2.26	2.32	2.35	2.38	2.41	2.47	-	-
50	-	2.71	2.81	2.87	2.91	2.94	2.97	-	-
60	-	-	3.35	3.45	3.52	3.57	3.61	-	-
70	-	-	-	4.10	4.21	4.30	4.36	-	-
73	-	-	-	4.30	4.44	4.53	4.60	-	-

**Mass flow in kg/h**

22	78	94	115	140	169	-	-	-	-
30	77	94	115	139	167	198	-	-	-
40	74	91	113	137	165	195	228	-	-
50	-	86	109	134	162	192	224	-	-
60	-	-	103	130	159	189	222	-	-
70	-	-	-	125	155	187	220	-	-
73	-	-	-	123	154	186	220	-	-

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

22	3.49	4.29	5.23	6.30	7.41	-	-	-	-
30	2.70	3.36	4.14	5.04	6.03	7.07	-	-	-
40	1.95	2.46	3.05	3.75	4.53	5.40	6.31	-	-
50	-	1.78	2.23	2.75	3.34	4.01	4.74	-	-
60	-	-	1.59	1.98	2.41	2.91	3.47	-	-
70	-	-	-	1.37	1.69	2.06	2.47	-	-
73	-	-	-	1.21	1.51	1.84	2.22	-	-

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

Cooling capacity	3 317	W
Power input	1 581	W
Current consumption	2.48	A
Mass flow	89	kg/h
C.O.P.	2.10	

**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	71	dB(A)
With acoustic hood	63	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	3 463	4 374	5 427	6 644	8 044	-	-	-	-
30	-	4 057	5 070	6 228	7 552	9 063	-	-	-
40	-	-	4 611	5 694	6 919	8 307	9 881	-	-
50	-	-	4 111	5 117	6 242	7 503	8 922	-	-
60	-	-	-	4 469	5 491	6 623	-	-	-
70	-	-	-	-	4 638	5 640	-	-	-
73	-	-	-	-	4 358	5 320	-	-	-

**Power input in W**

22	978	1 008	1 029	1 051	1 083	-	-	-	-
30	-	1 186	1 210	1 227	1 247	1 282	-	-	-
40	-	-	1 479	1 501	1 517	1 538	1 574	-	-
50	-	-	1 790	1 828	1 852	1 871	1 896	-	-
60	-	-	-	2 201	2 244	2 273	-	-	-
70	-	-	-	-	2 686	2 738	-	-	-
73	-	-	-	-	2 828	2 888	-	-	-

**Current consumption in A**

22	1.53	1.58	1.61	1.65	1.70	-	-	-	-
30	-	1.86	1.90	1.92	1.96	2.01	-	-	-
40	-	-	2.32	2.35	2.38	2.41	2.47	-	-
50	-	-	2.81	2.87	2.91	2.94	2.97	-	-
60	-	-	-	3.45	3.52	3.57	-	-	-
70	-	-	-	-	4.21	4.30	-	-	-
73	-	-	-	-	4.44	4.53	-	-	-

**Mass flow in kg/h**

22	70	87	108	134	165	-	-	-	-
30	-	86	107	133	163	198	-	-	-
40	-	-	105	131	161	195	234	-	-
50	-	-	102	128	158	192	230	-	-
60	-	-	-	124	155	189	-	-	-
70	-	-	-	-	152	187	-	-	-
73	-	-	-	-	151	186	-	-	-

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

22	3.54	4.34	5.27	6.32	7.43	-	-	-	-
30	-	3.42	4.19	5.08	6.05	7.07	-	-	-
40	-	-	3.12	3.79	4.56	5.40	6.28	-	-
50	-	-	2.30	2.80	3.37	4.01	4.71	-	-
60	-	-	-	2.03	2.45	2.91	-	-	-
70	-	-	-	-	1.73	2.06	-	-	-
73	-	-	-	-	1.54	1.84	-	-	-

**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	71	dB(A)
With acoustic hood	63	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	3 189	4 028	5 034	6 228	-	-	-	-	-
20	2 834	3 626	4 571	5 690	7 003	8 532	-	-	-
30	2 451	3 187	4 062	5 095	6 308	7 723	9 358	11 237	-
40	2 047	2 717	3 511	4 449	5 553	6 842	8 339	10 064	-
45	-	2 472	3 222	4 109	5 154	6 377	7 801	9 445	-
50	-	-	2 925	3 758	4 742	5 897	7 245	8 806	-
55	-	-	-	3 398	4 318	5 402	6 672	8 147	-
60	-	-	-	-	3 882	4 894	6 082	7 470	-

**Power input in W**

10	1 062	1 090	1 114	1 133	-	-	-	-	-
20	1 237	1 269	1 298	1 323	1 342	1 355	-	-	-
30	1 490	1 524	1 557	1 586	1 611	1 631	1 644	1 650	-
40	1 862	1 897	1 932	1 964	1 993	2 018	2 038	2 052	-
45	-	2 141	2 176	2 209	2 240	2 267	2 290	2 307	-
50	-	-	2 464	2 498	2 530	2 559	2 584	2 605	-
55	-	-	-	2 837	2 870	2 900	2 927	2 950	-
60	-	-	-	-	3 263	3 295	3 324	3 349	-

**Current consumption in A**

10	2.89	2.88	2.87	2.85	-	-	-	-	-
20	3.13	3.14	3.15	3.16	3.17	3.18	-	-	-
30	3.37	3.40	3.43	3.46	3.49	3.52	3.55	3.58	-
40	3.78	3.82	3.87	3.91	3.95	3.99	4.03	4.07	-
45	-	4.14	4.19	4.24	4.28	4.33	4.37	4.42	-
50	-	-	4.62	4.67	4.72	4.76	4.81	4.86	-
55	-	-	-	5.21	5.26	5.31	5.36	5.41	-
60	-	-	-	-	5.95	6.00	6.05	6.10	-

**Mass flow in kg/h**

10	62	78	95	116	-	-	-	-	-
20	60	76	94	115	139	167	-	-	-
30	57	73	91	113	137	165	197	233	-
40	53	69	88	109	133	162	194	230	-
45	-	67	85	107	131	159	192	228	-
50	-	-	83	104	129	157	189	225	-
55	-	-	-	101	126	154	186	222	-
60	-	-	-	-	122	150	182	219	-

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

10	3.00	3.69	4.52	5.50	-	-	-	-	-
20	2.29	2.86	3.52	4.30	5.22	6.30	-	-	-
30	1.65	2.09	2.61	3.21	3.92	4.74	5.69	6.81	-
40	1.10	1.43	1.82	2.27	2.79	3.39	4.09	4.90	-
45	-	1.15	1.48	1.86	2.30	2.81	3.41	4.09	-
50	-	-	1.19	1.50	1.87	2.30	2.80	3.38	-
55	-	-	-	1.20	1.50	1.86	2.28	2.76	-
60	-	-	-	-	1.19	1.49	1.83	2.23	-

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

Cooling capacity	4 109	W
Power input	2 209	W
Current consumption	4.24	A
Mass flow	107	kg/h
C.O.P.	1.86	

**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	67	dB(A)
With acoustic hood	59	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	3 386	4 273	5 336	6 596	-	-	-	-	-
20	3 031	3 875	4 880	6 068	7 460	9 080	-	-	-
30	2 647	3 437	4 375	5 480	6 777	8 286	10 030	12 031	-
40	2 238	2 966	3 826	4 840	6 031	7 421	9 031	10 885	-
45	-	2 719	3 537	4 502	5 637	6 964	8 504	10 281	-
50	-	-	3 240	4 154	5 230	6 492	7 961	9 660	-
55	-	-	-	3 796	4 813	6 008	7 404	9 023	-
60	-	-	-	-	-	5 513	6 835	8 375	-

**Power input in W**

10	1 062	1 090	1 114	1 133	-	-	-	-	-
20	1 237	1 269	1 298	1 323	1 342	1 355	-	-	-
30	1 490	1 524	1 557	1 586	1 611	1 631	1 644	1 650	-
40	1 862	1 897	1 932	1 964	1 993	2 018	2 038	2 052	-
45	-	2 141	2 176	2 209	2 240	2 267	2 290	2 307	-
50	-	-	2 464	2 498	2 530	2 559	2 584	2 605	-
55	-	-	-	2 837	2 870	2 900	2 927	2 950	-
60	-	-	-	-	-	3 295	3 324	3 349	-

**Current consumption in A**

10	2.89	2.88	2.87	2.85	-	-	-	-	-
20	3.13	3.14	3.15	3.16	3.17	3.18	-	-	-
30	3.37	3.40	3.43	3.46	3.49	3.52	3.55	3.58	-
40	3.78	3.82	3.87	3.91	3.95	3.99	4.03	4.07	-
45	-	4.14	4.19	4.24	4.28	4.33	4.37	4.42	-
50	-	-	4.62	4.67	4.72	4.76	4.81	4.86	-
55	-	-	-	5.21	5.26	5.31	5.36	5.41	-
60	-	-	-	-	-	6.00	6.05	6.10	-

**Mass flow in kg/h**

10	62	77	95	116	-	-	-	-	-
20	60	75	93	114	138	166	-	-	-
30	57	73	91	112	136	164	196	232	-
40	53	69	87	108	133	161	193	229	-
45	-	67	85	106	130	158	190	227	-
50	-	-	82	103	128	156	188	224	-
55	-	-	-	100	125	153	185	221	-
60	-	-	-	-	-	149	181	218	-

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

10	3.19	3.92	4.79	5.82	-	-	-	-	-
20	2.45	3.05	3.76	4.59	5.56	6.70	-	-	-
30	1.78	2.26	2.81	3.46	4.21	5.08	6.10	7.29	-
40	1.20	1.56	1.98	2.46	3.03	3.68	4.43	5.30	-
45	-	1.27	1.63	2.04	2.52	3.07	3.71	4.46	-
50	-	-	1.31	1.66	2.07	2.54	3.08	3.71	-
55	-	-	-	1.34	1.68	2.07	2.53	3.06	-
60	-	-	-	-	-	1.67	2.06	2.50	-

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

Cooling capacity	4 502	W
Power input	2 209	W
Current consumption	4.24	A
Mass flow	106	kg/h
C.O.P.	2.04	

**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	67	dB(A)
With acoustic hood	59	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	4 001	5 049	6 305	7 797	-	-	-	-	-
20	3 557	4 544	5 721	7 114	8 749	10 652	-	-	-
30	3 082	3 997	5 082	6 365	7 872	9 627	11 658	13 990	-
40	2 583	3 414	4 397	5 559	6 925	8 521	10 374	12 510	-
45	-	3 112	4 039	5 136	6 427	7 940	9 700	11 733	-
50	-	-	3 672	4 701	5 915	7 341	9 005	10 933	-
55	-	-	-	4 255	5 389	6 726	8 290	10 109	-
60	-	-	-	-	4 850	6 094	7 557	9 265	-

**Power input in W**

10	1 273	1 300	1 326	1 347	-	-	-	-	-
20	1 493	1 519	1 548	1 577	1 603	1 622	-	-	-
30	1 810	1 827	1 853	1 885	1 918	1 949	1 974	1 990	-
40	2 288	2 290	2 306	2 332	2 365	2 401	2 437	2 469	-
45	-	2 599	2 607	2 628	2 659	2 695	2 733	2 770	-
50	-	-	2 969	2 984	3 010	3 044	3 084	3 124	-
55	-	-	-	3 406	3 426	3 457	3 496	3 538	-
60	-	-	-	-	3 916	3 942	3 978	4 020	-

**Current consumption in A**

10	2.97	2.96	2.95	2.94	-	-	-	-	-
20	3.12	3.14	3.16	3.17	3.18	3.20	-	-	-
30	3.34	3.38	3.41	3.45	3.47	3.50	3.53	3.57	-
40	3.75	3.81	3.85	3.90	3.94	3.97	4.01	4.05	-
45	-	4.14	4.19	4.23	4.27	4.31	4.35	4.39	-
50	-	-	4.61	4.66	4.70	4.74	4.77	4.81	-
55	-	-	-	5.19	5.23	5.27	5.30	5.34	-
60	-	-	-	-	5.89	5.92	5.95	5.98	-

**Mass flow in kg/h**

10	78	97	120	146	-	-	-	-	-
20	75	95	118	144	174	209	-	-	-
30	72	92	114	141	171	206	245	291	-
40	67	87	110	136	166	201	241	286	-
45	-	84	107	133	164	198	238	283	-
50	-	-	104	130	160	195	235	280	-
55	-	-	-	126	157	191	231	276	-
60	-	-	-	-	153	187	227	272	-

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

10	3.14	3.88	4.76	5.79	-	-	-	-	-
20	2.38	2.99	3.70	4.51	5.46	6.57	-	-	-
30	1.70	2.19	2.74	3.38	4.11	4.94	5.91	7.03	-
40	1.13	1.49	1.91	2.38	2.93	3.55	4.26	5.07	-
45	-	1.20	1.55	1.95	2.42	2.95	3.55	4.24	-
50	-	-	1.24	1.58	1.97	2.41	2.92	3.50	-
55	-	-	-	1.25	1.57	1.95	2.37	2.86	-
60	-	-	-	-	1.24	1.55	1.90	2.30	-

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

Cooling capacity	5 136	W
Power input	2 628	W
Current consumption	4.23	A
Mass flow	133	kg/h
C.O.P.	1.95	

**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	71	dB(A)
With acoustic hood	63	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	4 249	5 357	6 684	8 257	-	-	-	-	-
20	3 806	4 856	6 107	7 585	9 319	11 336	-	-	-
30	3 329	4 310	5 474	6 846	8 456	10 330	12 495	14 978	-
40	2 825	3 726	4 791	6 047	7 521	9 242	11 236	13 531	-
45	-	3 422	4 434	5 627	7 030	8 670	10 575	12 772	-
50	-	-	4 067	5 195	6 524	8 082	9 895	11 993	-
55	-	-	-	4 753	6 006	7 479	9 200	11 196	-
60	-	-	-	-	-	6 865	8 492	10 387	-

Power input in W

10	1 273	1 300	1 326	1 347	-	-	-	-	-
20	1 493	1 519	1 548	1 577	1 603	1 622	-	-	-
30	1 810	1 827	1 853	1 885	1 918	1 949	1 974	1 990	-
40	2 288	2 290	2 306	2 332	2 365	2 401	2 437	2 469	-
45	-	2 599	2 607	2 628	2 659	2 695	2 733	2 770	-
50	-	-	2 969	2 984	3 010	3 044	3 084	3 124	-
55	-	-	-	3 406	3 426	3 457	3 496	3 538	-
60	-	-	-	-	-	3 942	3 978	4 020	-

Current consumption in A

10	2.97	2.96	2.95	2.94	-	-	-	-	-
20	3.12	3.14	3.16	3.17	3.18	3.20	-	-	-
30	3.34	3.38	3.41	3.45	3.47	3.50	3.53	3.57	-
40	3.75	3.81	3.85	3.90	3.94	3.97	4.01	4.05	-
45	-	4.14	4.19	4.23	4.27	4.31	4.35	4.39	-
50	-	-	4.61	4.66	4.70	4.74	4.77	4.81	-
55	-	-	-	5.19	5.23	5.27	5.30	5.34	-
60	-	-	-	-	-	5.92	5.95	5.98	-

Mass flow in kg/h

10	78	97	119	145	-	-	-	-	-
20	75	94	117	143	173	207	-	-	-
30	72	91	114	140	170	204	244	289	-
40	67	87	109	135	165	200	240	284	-
45	-	84	106	133	163	197	237	282	-
50	-	-	103	129	159	194	233	278	-
55	-	-	-	126	156	190	230	274	-
60	-	-	-	-	-	186	225	270	-

Coefficient of performance (C.O.P.)

10	3.34	4.12	5.04	6.13	-	-	-	-	-
20	2.55	3.20	3.94	4.81	5.81	6.99	-	-	-
30	1.84	2.36	2.95	3.63	4.41	5.30	6.33	7.53	-
40	1.23	1.63	2.08	2.59	3.18	3.85	4.61	5.48	-
45	-	1.32	1.70	2.14	2.64	3.22	3.87	4.61	-
50	-	-	1.37	1.74	2.17	2.65	3.21	3.84	-
55	-	-	-	1.40	1.75	2.16	2.63	3.16	-
60	-	-	-	-	-	1.74	2.13	2.58	-

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

Cooling capacity	5 627	W
Power input	2 628	W
Current consumption	4.23	A
Mass flow	133	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	71	dB(A)
With acoustic hood	63	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	3 746	4 300	5 360	6 611	-	-	-	-	-
20	3 367	3 892	4 893	6 072	7 449	9 047	-	-	-
30	2 952	3 442	4 375	5 470	6 750	8 236	9 950	11 913	-
40	2 507	2 956	3 809	4 811	5 983	7 347	8 925	10 738	-
45	-	-	3 511	4 462	5 576	6 876	8 381	10 115	-
50	-	-	-	4 100	5 154	6 386	7 817	9 470	-
55	-	-	-	-	4 718	5 880	7 234	8 802	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 153	1 163	1 183	1 214	-	-	-	-	-
20	1 339	1 351	1 368	1 388	1 418	1 465	-	-	-
30	1 613	1 632	1 655	1 673	1 692	1 721	1 766	1 834	-
40	2 001	2 033	2 070	2 094	2 112	2 132	2 159	2 202	-
45	-	-	2 334	2 365	2 386	2 403	2 425	2 458	-
50	-	-	-	2 680	2 705	2 723	2 742	2 768	-
55	-	-	-	-	3 074	3 096	3 113	3 133	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	3.08	3.07	3.05	3.02	-	-	-	-	-
20	3.35	3.35	3.36	3.36	3.36	3.36	-	-	-
30	3.62	3.64	3.67	3.69	3.71	3.73	3.76	3.78	-
40	4.07	4.10	4.14	4.18	4.22	4.25	4.29	4.33	-
45	-	-	4.50	4.54	4.58	4.62	4.66	4.71	-
50	-	-	-	5.00	5.05	5.09	5.13	5.18	-
55	-	-	-	-	5.64	5.68	5.73	5.78	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	65	75	92	112	-	-	-	-	-
20	63	73	90	111	134	161	-	-	-
30	61	70	88	108	132	159	189	224	-
40	57	66	84	104	128	155	186	221	-
45	-	-	82	102	126	153	184	218	-
50	-	-	-	99	123	150	181	216	-
55	-	-	-	-	120	147	178	213	-
60	-	-	-	-	-	-	-	-	-

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

10	3.25	3.70	4.53	5.44	-	-	-	-	-
20	2.51	2.88	3.58	4.37	5.25	6.17	-	-	-
30	1.83	2.11	2.64	3.27	3.99	4.79	5.63	6.50	-
40	1.25	1.45	1.84	2.30	2.83	3.45	4.13	4.88	-
45	-	-	1.50	1.89	2.34	2.86	3.46	4.11	-
50	-	-	-	1.53	1.91	2.34	2.85	3.42	-
55	-	-	-	-	1.53	1.90	2.32	2.81	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 462	W
Power input	2 365	W
Current consumption	4.54	A
Mass flow	102	kg/h
C.O.P.	1.89	

**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	67	dB(A)
With acoustic hood	59	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	3 959	4 542	5 658	6 974	-	-	-	-	-
20	3 580	4 136	5 196	6 442	7 897	9 583	-	-	-
30	3 163	3 685	4 679	5 845	7 206	8 785	10 604	12 685	-
40	-	3 196	4 113	5 189	6 446	7 907	9 595	11 533	-
45	-	-	3 814	4 841	6 042	7 441	9 061	10 923	-
50	-	-	-	4 481	5 624	6 959	8 508	10 293	-
55	-	-	-	-	-	6 463	7 940	9 647	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 153	1 163	1 183	1 214	-	-	-	-	-
20	1 339	1 351	1 368	1 388	1 418	1 465	-	-	-
30	1 613	1 632	1 655	1 673	1 692	1 721	1 766	1 834	-
40	-	2 033	2 070	2 094	2 112	2 132	2 159	2 202	-
45	-	-	2 334	2 365	2 386	2 403	2 425	2 458	-
50	-	-	-	2 680	2 705	2 723	2 742	2 768	-
55	-	-	-	-	-	3 096	3 113	3 133	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.08	3.07	3.05	3.02	-	-	-	-	-
20	3.35	3.35	3.36	3.36	3.36	3.36	-	-	-
30	3.62	3.64	3.67	3.69	3.71	3.73	3.76	3.78	-
40	-	4.10	4.14	4.18	4.22	4.25	4.29	4.33	-
45	-	-	4.50	4.54	4.58	4.62	4.66	4.71	-
50	-	-	-	5.00	5.05	5.09	5.13	5.18	-
55	-	-	-	-	-	5.68	5.73	5.78	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	65	74	91	111	-	-	-	-	-
20	63	72	90	110	133	160	-	-	-
30	60	70	87	108	131	158	188	223	-
40	-	66	84	104	127	154	185	219	-
45	-	-	81	102	125	152	182	217	-
50	-	-	-	99	122	149	180	214	-
55	-	-	-	-	-	146	177	211	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.43	3.91	4.78	5.74	-	-	-	-	-
20	2.67	3.06	3.80	4.64	5.57	6.54	-	-	-
30	1.96	2.26	2.83	3.49	4.26	5.10	6.00	6.92	-
40	-	1.57	1.99	2.48	3.05	3.71	4.44	5.24	-
45	-	-	1.63	2.05	2.53	3.10	3.74	4.44	-
50	-	-	-	1.67	2.08	2.56	3.10	3.72	-
55	-	-	-	-	-	2.09	2.55	3.08	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 841	W
Power input	2 365	W
Current consumption	4.54	A
Mass flow	102	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	67	dB(A)
With acoustic hood	59	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	4 698	5 388	6 711	8 272	-	-	-	-	-
20	4 223	4 876	6 122	7 589	9 302	11 289	-	-	-
30	3 707	4 316	5 473	6 833	8 421	10 264	12 389	14 823	-
40	3 156	3 713	4 770	6 010	7 461	9 149	11 100	13 341	-
45	-	-	4 400	5 576	6 954	8 559	10 418	12 559	-
50	-	-	-	5 128	6 429	7 949	9 714	11 751	-
55	-	-	-	-	5 888	7 319	8 986	10 917	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 370	1 383	1 410	1 445	-	-	-	-	-
20	1 605	1 615	1 636	1 663	1 699	1 744	-	-	-
30	1 947	1 956	1 973	1 995	2 024	2 060	2 106	2 163	-
40	2 447	2 455	2 471	2 490	2 514	2 544	2 583	2 630	-
45	-	-	2 796	2 814	2 837	2 865	2 900	2 944	-
50	-	-	-	3 198	3 220	3 246	3 279	3 320	-
55	-	-	-	-	3 669	3 695	3 726	3 764	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	3.16	3.15	3.14	3.12	-	-	-	-	-
20	3.35	3.36	3.37	3.37	3.38	3.39	-	-	-
30	3.60	3.62	3.65	3.68	3.70	3.72	3.75	3.78	-
40	4.06	4.09	4.13	4.17	4.20	4.23	4.27	4.30	-
45	-	-	4.49	4.53	4.57	4.60	4.63	4.67	-
50	-	-	-	4.99	5.03	5.06	5.10	5.13	-
55	-	-	-	-	5.61	5.64	5.67	5.70	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	82	93	115	140	-	-	-	-	-
20	80	91	113	138	167	200	-	-	-
30	76	88	110	135	164	198	236	279	-
40	72	83	105	131	160	193	231	274	-
45	-	-	102	128	157	190	228	271	-
50	-	-	-	124	153	187	225	268	-
55	-	-	-	-	150	183	221	264	-
60	-	-	-	-	-	-	-	-	-

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

10	3.43	3.90	4.76	5.73	-	-	-	-	-
20	2.63	3.02	3.74	4.56	5.48	6.47	-	-	-
30	1.90	2.21	2.77	3.42	4.16	4.98	5.88	6.85	-
40	1.29	1.51	1.93	2.41	2.97	3.60	4.30	5.07	-
45	-	-	1.57	1.98	2.45	2.99	3.59	4.27	-
50	-	-	-	1.60	2.00	2.45	2.96	3.54	-
55	-	-	-	-	1.60	1.98	2.41	2.90	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	5 576	W
Power input	2 814	W
Current consumption	4.53	A
Mass flow	128	kg/h
C.O.P.	1.98	

**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	71	dB(A)
With acoustic hood	63	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	4 965	5 692	7 084	8 727	-	-	-	-	-
20	4 490	5 182	6 501	8 051	9 861	11 959	-	-	-
30	3 971	4 621	5 854	7 301	8 990	10 948	13 203	15 784	-
40	-	4 015	5 151	6 483	8 038	9 846	11 933	14 329	-
45	-	-	4 780	6 050	7 535	9 263	11 263	13 562	-
50	-	-	-	5 604	7 016	8 662	10 572	12 773	-
55	-	-	-	-	-	8 045	9 863	11 965	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 370	1 383	1 410	1 445	-	-	-	-	-
20	1 605	1 615	1 636	1 663	1 699	1 744	-	-	-
30	1 947	1 956	1 973	1 995	2 024	2 060	2 106	2 163	-
40	-	2 455	2 471	2 490	2 514	2 544	2 583	2 630	-
45	-	-	2 796	2 814	2 837	2 865	2 900	2 944	-
50	-	-	-	3 198	3 220	3 246	3 279	3 320	-
55	-	-	-	-	-	3 695	3 726	3 764	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	3.16	3.15	3.14	3.12	-	-	-	-	-
20	3.35	3.36	3.37	3.37	3.38	3.39	-	-	-
30	3.60	3.62	3.65	3.68	3.70	3.72	3.75	3.78	-
40	-	4.09	4.13	4.17	4.20	4.23	4.27	4.30	-
45	-	-	4.49	4.53	4.57	4.60	4.63	4.67	-
50	-	-	-	4.99	5.03	5.06	5.10	5.13	-
55	-	-	-	-	-	5.64	5.67	5.70	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	82	93	114	139	-	-	-	-	-
20	79	91	112	137	166	199	-	-	-
30	76	87	109	134	163	196	234	277	-
40	-	83	105	130	159	192	230	272	-
45	-	-	102	127	156	189	227	269	-
50	-	-	-	124	152	186	223	266	-
55	-	-	-	-	-	182	219	262	-
60	-	-	-	-	-	-	-	-	-

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

10	3.62	4.12	5.02	6.04	-	-	-	-	-
20	2.80	3.21	3.97	4.84	5.81	6.86	-	-	-
30	2.04	2.36	2.97	3.66	4.44	5.31	6.27	7.30	-
40	-	1.64	2.08	2.60	3.20	3.87	4.62	5.45	-
45	-	-	1.71	2.15	2.66	3.23	3.88	4.61	-
50	-	-	-	1.75	2.18	2.67	3.22	3.85	-
55	-	-	-	-	-	2.18	2.65	3.18	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	6 050	W
Power input	2 814	W
Current consumption	4.53	A
Mass flow	127	kg/h
C.O.P.	2.15	

**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	71	dB(A)
With acoustic hood	63	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	2 705	3 415	4 269	5 286	6 489	-	-	-	-
20	2 413	3 094	3 902	4 856	5 978	7 290	8 811	-	-
30	-	-	3 485	4 363	5 393	6 594	7 989	9 598	11 441
40	-	-	-	3 823	4 746	5 824	7 078	8 530	10 200
50	-	-	-	-	4 051	4 993	6 094	7 376	8 859
60	-	-	-	-	-	-	5 051	6 149	7 431

**Power input in W**

10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	-	-	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	-	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	-	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	-	-	3 244	3 220	3 208

**Current consumption in A**

10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	-	-	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	-	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	-	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	-	-	5.55	5.54	5.54

**Mass flow in kg/h**

10	44	56	70	87	108	-	-	-	-
20	42	55	69	86	107	131	160	-	-
30	-	-	67	84	104	128	157	191	230
40	-	-	-	80	100	124	153	186	226
50	-	-	-	-	95	119	147	180	219
60	-	-	-	-	-	-	140	172	210

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

10	2.85	3.52	4.32	5.27	6.39	-	-	-	-
20	2.03	2.57	3.19	3.91	4.74	5.69	6.80	-	-
30	-	-	2.27	2.82	3.45	4.17	4.99	5.92	6.97
40	-	-	-	1.94	2.41	2.95	3.56	4.25	5.03
50	-	-	-	-	1.59	1.98	2.42	2.92	3.50
60	-	-	-	-	-	-	1.56	1.91	2.32

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

Cooling capacity	4 403	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	98	kg/h
C.O.P.	1.97	

**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	2 716	3 432	4 293	5 319	6 530	-	-	-	-
20	2 392	3 074	3 885	4 846	5 977	7 298	8 828	-	-
30	2 047	2 682	3 429	4 311	5 348	6 561	7 970	9 592	11 441
40	-	-	2 940	3 729	4 658	5 750	7 024	8 502	10 200
50	-	-	-	3 115	3 923	4 879	6 006	7 326	8 859
60	-	-	-	-	3 157	3 963	4 928	6 076	7 431

**Power input in W**

10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	1 529	1 528	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	1 977	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	2 568	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	3 332	3 281	3 244	3 220	3 208

**Current consumption in A**

10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	3.34	3.37	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	3.86	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	4.57	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	5.56	5.56	5.55	5.54	5.54

**Mass flow in kg/h**

10	52	65	80	98	118	-	-	-	-
20	50	63	79	96	117	141	168	-	-
30	47	61	76	94	114	138	165	196	230
40	-	-	72	90	110	134	161	191	226
50	-	-	-	85	105	128	155	185	219
60	-	-	-	-	98	120	147	177	210

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

10	2.86	3.54	4.35	5.30	6.44	-	-	-	-
20	2.01	2.55	3.18	3.90	4.74	5.70	6.81	-	-
30	1.34	1.76	2.24	2.79	3.42	4.15	4.98	5.91	6.97
40	-	-	1.49	1.89	2.36	2.91	3.53	4.23	5.03
50	-	-	-	1.21	1.54	1.93	2.38	2.90	3.50
60	-	-	-	-	0.95	1.21	1.52	1.89	2.32

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

Cooling capacity	4 295	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	108	kg/h
C.O.P.	1.92	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**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)

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	2 705	3 415	4 269	5 286	6 489	-	-	-	-
20	2 413	3 094	3 902	4 856	5 978	7 290	8 811	-	-
30	-	-	3 485	4 363	5 393	6 594	7 989	9 598	11 441
40	-	-	-	3 823	4 746	5 824	7 078	8 530	10 200
50	-	-	-	-	4 051	4 993	6 094	7 376	8 859
60	-	-	-	-	-	-	5 051	6 149	7 431

**Power input in W**

10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	-	-	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	-	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	-	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	-	-	3 244	3 220	3 208

**Current consumption in A**

10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	-	-	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	-	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	-	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	-	-	5.55	5.54	5.54

**Mass flow in kg/h**

10	44	56	70	87	108	-	-	-	-
20	42	55	69	86	107	131	160	-	-
30	-	-	67	84	104	128	157	191	230
40	-	-	-	80	100	124	153	186	226
50	-	-	-	-	95	119	147	180	219
60	-	-	-	-	-	-	140	172	210

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

10	2.85	3.52	4.32	5.27	6.39	-	-	-	-
20	2.03	2.57	3.19	3.91	4.74	5.69	6.80	-	-
30	-	-	2.27	2.82	3.45	4.17	4.99	5.92	6.97
40	-	-	-	1.94	2.41	2.95	3.56	4.25	5.03
50	-	-	-	-	1.59	1.98	2.42	2.92	3.50
60	-	-	-	-	-	-	1.56	1.91	2.32

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

Cooling capacity	4 403	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	98	kg/h
C.O.P.	1.97	

**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	2 710	3 426	4 286	5 312	6 524	-	-	-	-
20	2 386	3 068	3 878	4 839	5 970	7 292	8 823	-	-
30	2 041	2 675	3 422	4 303	5 341	6 555	7 965	9 589	11 441
40	-	-	2 932	3 721	4 650	5 743	7 019	8 499	10 200
50	-	-	-	3 107	3 915	4 872	6 000	7 322	8 859
60	-	-	-	-	3 149	3 956	4 922	6 073	7 431

**Power input in W**

10	950	969	987	1 003	1 015	-	-	-	-
20	1 189	1 204	1 222	1 242	1 262	1 280	1 296	-	-
30	1 529	1 528	1 534	1 545	1 562	1 581	1 601	1 622	1 641
40	-	-	1 977	1 969	1 970	1 978	1 991	2 009	2 029
50	-	-	-	2 568	2 541	2 526	2 520	2 523	2 533
60	-	-	-	-	3 332	3 281	3 244	3 220	3 208

**Current consumption in A**

10	2.89	2.90	2.91	2.91	2.92	-	-	-	-
20	3.05	3.08	3.10	3.11	3.12	3.14	3.15	-	-
30	3.34	3.37	3.39	3.41	3.43	3.44	3.46	3.48	3.51
40	-	-	3.86	3.88	3.90	3.91	3.92	3.93	3.96
50	-	-	-	4.57	4.59	4.59	4.60	4.60	4.61
60	-	-	-	-	5.56	5.56	5.55	5.54	5.54

**Mass flow in kg/h**

10	52	65	80	98	118	-	-	-	-
20	50	63	79	96	117	141	168	-	-
30	47	61	76	94	114	138	165	196	230
40	-	-	72	90	110	134	161	191	226
50	-	-	-	85	105	128	155	185	219
60	-	-	-	-	98	120	147	177	210

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

10	2.85	3.53	4.34	5.30	6.43	-	-	-	-
20	2.01	2.55	3.17	3.90	4.73	5.70	6.81	-	-
30	1.33	1.75	2.23	2.78	3.42	4.15	4.97	5.91	6.97
40	-	-	1.48	1.89	2.36	2.90	3.53	4.23	5.03
50	-	-	-	1.21	1.54	1.93	2.38	2.90	3.50
60	-	-	-	-	0.95	1.21	1.52	1.89	2.32

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

Cooling capacity	4 287	W
Power input	2 232	W
Current consumption	4.21	A
Mass flow	108	kg/h
C.O.P.	1.92	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**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)

Tolerance according EN12900