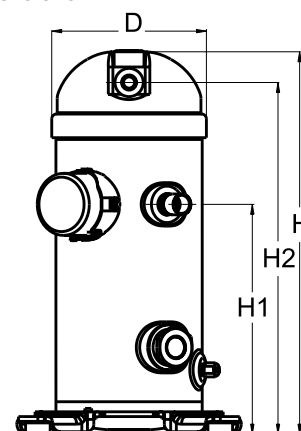


General Characteristics

Model number (on compressor nameplate)	MLZ026T4LP9A	MLZ026T4LP9A
Code number for Singlepack*	121U8637	121L8637
Code number for Industrial pack**	121U8636	121L8636
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4 " ODF	3/4 " ODF
Discharge connection	1/2 " ODF	1/2 " ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm ³ /rev	
Displacement @ Nominal speed	9.9 m ³ /h @ 2900 rpm - 12.0 m ³ /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/F,R448A,R449A,R452A,R513A,R22	

Dimensions

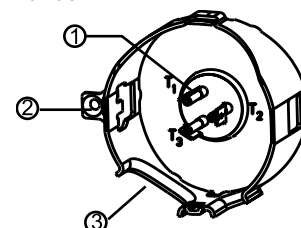


D=164.5 mm
H=412 mm
H1=250 mm
H2=379 mm
H3= mm

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)	6.4 A
Maximum Continuous Current (MCC)	10 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

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
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
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
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

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.

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
---	----------

Crankcase heaters

Code no.

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

Miscellaneous accessories

Code no.

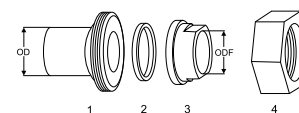
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

Spare parts

Code no.

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

Solder sleeve adapter set



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

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R22

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

Cooling capacity in W

16	5 370	6 356	7 533	8 950	-	-	-	-	-
20	5 108	6 108	7 289	8 700	10 385	-	-	-	-
30	4 485	5 493	6 656	8 023	9 640	11 553	13 801	-	-
40	3 919	4 895	6 000	7 283	8 794	10 578	12 678	-	-
50	-	4 326	5 334	6 495	7 860	9 477	11 391	-	-
60	-	-	-	5 672	6 852	8 263	9 952	-	-
68	-	-	-	-	-	7 220	8 701	-	-

Power input in W

16	1 225	1 210	1 195	1 184	-	-	-	-	-
20	1 388	1 380	1 367	1 356	1 352	-	-	-	-
30	1 759	1 772	1 770	1 761	1 750	1 743	1 747	-	-
40	2 129	2 171	2 189	2 190	2 179	2 163	2 148	-	-
50	-	2 646	2 691	2 709	2 706	2 688	2 661	-	-
60	-	-	-	3 386	3 398	3 386	3 355	-	-
68	-	-	-	-	-	4 114	4 086	-	-

Current consumption in A

16	2.36	2.33	2.30	2.28	-	-	-	-	-
20	2.67	2.66	2.63	2.61	2.60	-	-	-	-
30	3.38	3.41	3.41	3.39	3.37	3.36	3.36	-	-
40	4.10	4.18	4.21	4.21	4.19	4.16	4.13	-	-
50	-	5.09	5.18	5.21	5.21	5.17	5.12	-	-
60	-	-	-	6.52	6.54	6.52	6.46	-	-
68	-	-	-	-	-	7.92	7.86	-	-

Mass flow in kg/h

16	127	142	159	180	-	-	-	-	-
20	118	134	153	175	203	-	-	-	-
30	101	121	143	167	197	232	274	-	-
40	91	113	136	163	194	230	272	-	-
50	-	106	130	158	189	226	268	-	-
60	-	-	-	148	179	216	258	-	-
68	-	-	-	-	-	201	242	-	-

Coefficient of performance (C.O.P.)

16	4.38	5.25	6.31	7.56	-	-	-	-	-
20	3.68	4.43	5.33	6.42	7.68	-	-	-	-
30	2.55	3.10	3.76	4.55	5.51	6.63	7.90	-	-
40	1.84	2.25	2.74	3.33	4.04	4.89	5.90	-	-
50	-	1.63	1.98	2.40	2.90	3.53	4.28	-	-
60	-	-	-	1.68	2.02	2.44	2.97	-	-
68	-	-	-	-	-	1.75	2.13	-	-

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

Cooling capacity	5 667	W
Power input	2 425	W
Current consumption	4.67	A
Mass flow	133	kg/h
C.O.P.	2.34	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R22

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

Cooling capacity in W

16	5 239	6 220	7 396	8 818	-	-	-	-	-
20	4 997	5 991	7 169	8 583	10 284	-	-	-	-
30	4 420	5 421	6 580	7 946	9 571	11 506	13 801	-	-
40	-	4 867	5 967	7 247	8 758	10 552	12 678	-	-
50	-	-	-	6 499	7 858	9 472	11 391	-	-
60	-	-	-	-	6 884	8 279	9 952	-	-
68	-	-	-	-	-	-	8 701	-	-

Power input in W

16	1 225	1 210	1 195	1 184	-	-	-	-	-
20	1 388	1 380	1 367	1 356	1 352	-	-	-	-
30	1 759	1 772	1 770	1 761	1 750	1 743	1 747	-	-
40	-	2 171	2 189	2 190	2 179	2 163	2 148	-	-
50	-	-	-	2 709	2 706	2 688	2 661	-	-
60	-	-	-	-	3 398	3 386	3 355	-	-
68	-	-	-	-	-	-	4 086	-	-

Current consumption in A

16	2.36	2.33	2.30	2.28	-	-	-	-	-
20	2.67	2.66	2.63	2.61	2.60	-	-	-	-
30	3.38	3.41	3.41	3.39	3.37	3.36	3.36	-	-
40	-	4.18	4.21	4.21	4.19	4.16	4.13	-	-
50	-	-	-	5.21	5.21	5.17	5.12	-	-
60	-	-	-	-	6.54	6.52	6.46	-	-
68	-	-	-	-	-	-	7.86	-	-

Mass flow in kg/h

16	112	127	146	168	-	-	-	-	-
20	104	120	140	164	193	-	-	-	-
30	89	109	130	156	188	226	274	-	-
40	-	101	125	152	185	224	272	-	-
50	-	-	-	147	180	220	268	-	-
60	-	-	-	-	171	210	258	-	-
68	-	-	-	-	-	-	242	-	-

Coefficient of performance (C.O.P.)

16	4.28	5.14	6.19	7.45	-	-	-	-	-
20	3.60	4.34	5.24	6.33	7.61	-	-	-	-
30	2.51	3.06	3.72	4.51	5.47	6.60	7.90	-	-
40	-	2.24	2.73	3.31	4.02	4.88	5.90	-	-
50	-	-	-	2.40	2.90	3.52	4.28	-	-
60	-	-	-	-	2.03	2.45	2.97	-	-
68	-	-	-	-	-	-	2.13	-	-

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

Cooling capacity	5 656	W
Power input	2 425	W
Current consumption	4.67	A
Mass flow	122	kg/h
C.O.P.	2.33	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	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
R22

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

Cooling capacity in W

16	5 849	7 303	9 037	11 066	-	-	-	-	-
20	5 586	6 974	8 623	10 549	12 761	-	-	-	-
30	5 145	6 414	7 898	9 611	11 569	13 781	16 254	-	-
40	4 727	5 946	7 331	8 901	10 670	12 652	14 855	-	-
50	-	5 219	6 574	8 067	9 716	11 535	13 537	-	-
60	-	-	-	6 766	8 360	10 084	11 953	-	-
68	-	-	-	-	-	8 452	10 259	-	-

Power input in W

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	2 493	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	3 135	3 241	3 322	3 374	3 392	3 371	-	-
60	-	-	-	4 100	4 183	4 219	4 205	-	-
68	-	-	-	-	-	5 048	5 051	-	-

Current consumption in A

16	2.10	2.14	2.21	2.31	-	-	-	-	-
20	2.42	2.47	2.53	2.62	2.71	-	-	-	-
30	3.17	3.24	3.32	3.39	3.45	3.50	3.52	-	-
40	3.91	4.03	4.14	4.23	4.28	4.31	4.29	-	-
50	-	4.92	5.08	5.21	5.29	5.32	5.29	-	-
60	-	-	-	6.43	6.56	6.62	6.60	-	-
68	-	-	-	-	-	7.92	7.92	-	-

Mass flow in kg/h

16	124	149	178	211	-	-	-	-	-
20	120	144	173	206	244	-	-	-	-
30	113	138	167	200	237	279	325	-	-
40	108	134	164	197	234	275	320	-	-
50	-	127	158	192	230	271	316	-	-
60	-	-	-	180	220	262	308	-	-
68	-	-	-	-	-	247	294	-	-

Coefficient of performance (C.O.P.)

16	4.37	5.35	6.41	7.53	-	-	-	-	-
20	3.62	4.44	5.34	6.33	7.39	-	-	-	-
30	2.54	3.10	3.74	4.45	5.26	6.18	7.25	-	-
40	1.90	2.31	2.78	3.31	3.91	4.61	5.43	-	-
50	-	1.67	2.03	2.43	2.88	3.40	4.02	-	-
60	-	-	-	1.65	2.00	2.39	2.84	-	-
68	-	-	-	-	-	1.67	2.03	-	-

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

Cooling capacity	6 998	W
Power input	2 926	W
Current consumption	4.59	A
Mass flow	161	kg/h
C.O.P.	2.39	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R22

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

Cooling capacity in W

16	5 706	7 146	8 873	10 903	-	-	-	-	-
20	5 464	6 840	8 481	10 408	12 637	-	-	-	-
30	5 071	6 331	7 807	9 520	11 486	13 725	16 254	-	-
40	-	5 912	7 291	8 857	10 627	12 620	14 855	-	-
50	-	-	-	8 072	9 713	11 529	13 537	-	-
60	-	-	-	-	8 399	10 104	11 953	-	-
68	-	-	-	-	-	-	10 259	-	-

Power input in W

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	-	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	-	-	3 322	3 374	3 392	3 371	-	-
60	-	-	-	-	4 183	4 219	4 205	-	-
68	-	-	-	-	-	-	5 051	-	-

Current consumption in A

16	2.10	2.14	2.21	2.31	-	-	-	-	-
20	2.42	2.47	2.53	2.62	2.71	-	-	-	-
30	3.17	3.24	3.32	3.39	3.45	3.50	3.52	-	-
40	-	4.03	4.14	4.23	4.28	4.31	4.29	-	-
50	-	-	-	5.21	5.29	5.32	5.29	-	-
60	-	-	-	-	6.56	6.62	6.60	-	-
68	-	-	-	-	-	-	7.92	-	-

Mass flow in kg/h

16	109	134	163	197	-	-	-	-	-
20	105	130	158	193	233	-	-	-	-
30	100	124	153	186	226	272	325	-	-
40	-	120	150	184	223	268	320	-	-
50	-	-	-	179	219	265	316	-	-
60	-	-	-	-	209	256	308	-	-
68	-	-	-	-	-	-	294	-	-

Coefficient of performance (C.O.P.)

16	4.26	5.24	6.30	7.42	-	-	-	-	-
20	3.54	4.35	5.26	6.24	7.32	-	-	-	-
30	2.51	3.06	3.69	4.41	5.22	6.16	7.25	-	-
40	-	2.30	2.76	3.29	3.89	4.60	5.43	-	-
50	-	-	-	2.43	2.88	3.40	4.02	-	-
60	-	-	-	-	2.01	2.39	2.84	-	-
68	-	-	-	-	-	-	2.03	-	-

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

Cooling capacity	6 984	W
Power input	2 926	W
Current consumption	4.59	A
Mass flow	148	kg/h
C.O.P.	2.39	

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	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	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, 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	3 420	4 316	5 377	6 623	8 071	-	-	-	-
30	3 136	3 983	4 988	6 167	7 538	9 120	-	-	-
40	2 776	3 552	4 473	5 558	6 824	8 290	9 971	-	-
50	-	3 107	3 934	4 913	6 062	7 398	8 940	-	-
60	-	-	3 374	4 236	5 255	6 451	7 841	-	-
70	-	-	-	3 531	4 409	5 453	6 679	-	-
73	-	-	-	3 315	4 149	5 144	6 318	-	-

Power input in W

22	987	999	1 012	1 027	1 045	-	-	-	-
30	1 174	1 189	1 203	1 217	1 232	1 250	-	-	-
40	1 443	1 465	1 484	1 501	1 518	1 535	1 553	-	-
50	-	1 791	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	2 220	2 258	2 291	2 320	2 346	-	-
70	-	-	-	2 746	2 794	2 836	2 873	-	-
73	-	-	-	2 908	2 962	3 009	3 050	-	-

Current consumption in A

22	2.81	2.82	2.84	2.85	2.86	-	-	-	-
30	3.01	3.04	3.06	3.09	3.11	3.14	-	-	-
40	3.39	3.43	3.47	3.50	3.54	3.58	3.62	-	-
50	-	4.10	4.14	4.18	4.22	4.27	4.31	-	-
60	-	-	5.22	5.26	5.31	5.35	5.40	-	-
70	-	-	-	6.89	6.93	6.97	7.01	-	-
73	-	-	-	7.50	7.54	7.58	7.62	-	-

Mass flow in kg/h

22	73	91	111	135	162	-	-	-	-
30	73	91	111	135	161	192	-	-	-
40	71	89	110	133	160	191	225	-	-
50	-	87	108	131	158	188	223	-	-
60	-	-	105	128	155	185	219	-	-
70	-	-	-	124	151	182	215	-	-
73	-	-	-	123	150	180	214	-	-

Coefficient of performance (C.O.P.)

22	3.47	4.32	5.31	6.45	7.72	-	-	-	-
30	2.67	3.35	4.15	5.07	6.12	7.29	-	-	-
40	1.92	2.42	3.01	3.70	4.50	5.40	6.42	-	-
50	-	1.73	2.16	2.66	3.24	3.92	4.68	-	-
60	-	-	1.52	1.88	2.29	2.78	3.34	-	-
70	-	-	-	1.29	1.58	1.92	2.32	-	-
73	-	-	-	1.14	1.40	1.71	2.07	-	-

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

Cooling capacity	3 331	W
Power input	1 621	W
Current consumption	3.72	A
Mass flow	88	kg/h
C.O.P.	2.05	

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	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 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	3 474	4 366	5 419	6 652	8 084	-	-	-	-
30	-	4 057	5 052	6 214	7 564	9 120	-	-	-
40	-	-	4 566	5 630	6 865	8 290	9 925	-	-
50	-	-	4 054	5 008	6 118	7 398	8 869	-	-
60	-	-	-	4 354	5 326	6 451	-	-	-
70	-	-	-	-	4 495	5 453	-	-	-
73	-	-	-	-	4 238	5 144	-	-	-

Power input in W

22	987	999	1 012	1 027	1 045	-	-	-	-
30	-	1 189	1 203	1 217	1 232	1 250	-	-	-
40	-	-	1 484	1 501	1 518	1 535	1 553	-	-
50	-	-	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	-	2 258	2 291	2 320	-	-	-
70	-	-	-	-	2 794	2 836	-	-	-
73	-	-	-	-	2 962	3 009	-	-	-

Current consumption in A

22	2.81	2.82	2.84	2.85	2.86	-	-	-	-
30	-	3.04	3.06	3.09	3.11	3.14	-	-	-
40	-	-	3.47	3.50	3.54	3.58	3.62	-	-
50	-	-	4.14	4.18	4.22	4.27	4.31	-	-
60	-	-	-	5.26	5.31	5.35	-	-	-
70	-	-	-	-	6.93	6.97	-	-	-
73	-	-	-	-	7.54	7.58	-	-	-

Mass flow in kg/h

22	66	84	104	129	158	-	-	-	-
30	-	83	104	129	158	192	-	-	-
40	-	-	103	127	156	191	231	-	-
50	-	-	101	125	154	188	228	-	-
60	-	-	-	123	152	185	-	-	-
70	-	-	-	-	148	182	-	-	-
73	-	-	-	-	147	180	-	-	-

Coefficient of performance (C.O.P.)

22	3.52	4.37	5.36	6.48	7.74	-	-	-	-
30	-	3.41	4.20	5.11	6.14	7.29	-	-	-
40	-	-	3.08	3.75	4.52	5.40	6.39	-	-
50	-	-	2.23	2.71	3.27	3.92	4.65	-	-
60	-	-	-	1.93	2.32	2.78	-	-	-
70	-	-	-	-	1.61	1.92	-	-	-
73	-	-	-	-	1.43	1.71	-	-	-

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	4 232	5 328	6 640	8 170	9 917	-	-	-	-
30	3 861	4 915	6 175	7 642	9 317	11 200	-	-	-
40	3 388	4 379	5 563	6 942	8 515	10 283	12 248	-	-
50	-	3 806	4 903	6 181	7 641	9 283	11 108	-	-
60	-	-	4 177	5 343	6 678	8 182	9 857	-	-
70	-	-	-	4 411	5 610	6 965	8 477	-	-
73	-	-	-	4 111	5 266	6 574	8 035	-	-

Power input in W

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	1 414	1 435	1 459	1 488	1 524	1 568	-	-	-
40	1 694	1 743	1 784	1 820	1 852	1 882	1 913	-	-
50	-	2 093	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	2 599	2 683	2 743	2 780	2 797	-	-
70	-	-	-	3 215	3 307	3 365	3 392	-	-
73	-	-	-	3 388	3 491	3 558	3 590	-	-

Current consumption in A

22	2.77	2.78	2.80	2.81	2.83	-	-	-	-
30	2.95	2.98	3.01	3.03	3.06	3.09	-	-	-
40	3.34	3.37	3.40	3.44	3.47	3.50	3.54	-	-
50	-	4.03	4.06	4.10	4.13	4.16	4.20	-	-
60	-	-	5.10	5.13	5.15	5.18	5.21	-	-
70	-	-	-	6.64	6.65	6.66	6.68	-	-
73	-	-	-	7.20	7.21	7.22	7.22	-	-

Mass flow in kg/h

22	91	110	136	168	203	-	-	-	-
30	92	111	137	168	203	240	-	-	-
40	91	110	136	168	203	239	275	-	-
50	-	106	133	165	200	237	273	-	-
60	-	-	128	161	197	234	271	-	-
70	-	-	-	155	193	231	269	-	-
73	-	-	-	154	191	230	268	-	-

Coefficient of performance (C.O.P.)

22	3.49	4.37	5.36	6.43	7.53	-	-	-	-
30	2.73	3.43	4.23	5.14	6.11	7.14	-	-	-
40	2.00	2.51	3.12	3.81	4.60	5.46	6.40	-	-
50	-	1.82	2.27	2.79	3.38	4.06	4.82	-	-
60	-	-	1.61	1.99	2.43	2.94	3.52	-	-
70	-	-	-	1.37	1.70	2.07	2.50	-	-
73	-	-	-	1.21	1.51	1.85	2.24	-	-

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

Cooling capacity	4 098	W
Power input	1 913	W
Current consumption	3.66	A
Mass flow	108	kg/h
C.O.P.	2.14	

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	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 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	4 300	5 390	6 691	8 205	9 934	-	-	-	-
30	-	5 006	6 254	7 701	9 348	11 200	-	-	-
40	-	-	5 678	7 031	8 565	10 283	12 191	-	-
50	-	-	5 052	6 301	7 711	9 283	11 020	-	-
60	-	-	-	5 492	6 768	8 182	-	-	-
70	-	-	-	-	5 718	6 965	-	-	-
73	-	-	-	-	5 380	6 574	-	-	-

Power input in W

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	-	1 435	1 459	1 488	1 524	1 568	-	-	-
40	-	-	1 784	1 820	1 852	1 882	1 913	-	-
50	-	-	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	-	2 683	2 743	2 780	-	-	-
70	-	-	-	-	3 307	3 365	-	-	-
73	-	-	-	-	3 491	3 558	-	-	-

Current consumption in A

22	2.77	2.78	2.80	2.81	2.83	-	-	-	-
30	-	2.98	3.01	3.03	3.06	3.09	-	-	-
40	-	-	3.40	3.44	3.47	3.50	3.54	-	-
50	-	-	4.06	4.10	4.13	4.16	4.20	-	-
60	-	-	-	5.13	5.15	5.18	-	-	-
70	-	-	-	-	6.65	6.66	-	-	-
73	-	-	-	-	7.21	7.22	-	-	-

Mass flow in kg/h

22	82	101	127	160	198	-	-	-	-
30	-	102	128	161	199	240	-	-	-
40	-	-	127	160	198	239	282	-	-
50	-	-	125	158	196	237	281	-	-
60	-	-	-	154	193	234	-	-	-
70	-	-	-	-	188	231	-	-	-
73	-	-	-	-	187	230	-	-	-

Coefficient of performance (C.O.P.)

22	3.55	4.42	5.40	6.46	7.54	-	-	-	-
30	-	3.49	4.29	5.18	6.14	7.14	-	-	-
40	-	-	3.18	3.86	4.63	5.46	6.37	-	-
50	-	-	2.33	2.84	3.41	4.06	4.78	-	-
60	-	-	-	2.05	2.47	2.94	-	-	-
70	-	-	-	-	1.73	2.07	-	-	-
73	-	-	-	-	1.54	1.85	-	-	-

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, 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	4 034	4 984	6 144	7 538	9 185	-	-	-	-
20	3 575	4 443	5 493	6 744	8 218	9 939	11 926	-	-
30	3 142	3 925	4 858	5 962	7 260	8 772	10 520	12 527	14 813
40	-	3 411	4 223	5 176	6 291	7 591	9 095	10 828	12 810
50	-	-	3 570	4 367	5 295	6 377	7 634	9 087	10 759
60	-	-	-	-	4 254	5 113	6 117	7 287	8 645

Power input in W

10	1 231	1 249	1 265	1 279	1 292	-	-	-	-
20	1 559	1 580	1 598	1 614	1 627	1 639	1 650	-	-
30	1 981	2 002	2 020	2 034	2 046	2 055	2 062	2 067	2 071
40	-	2 548	2 563	2 573	2 580	2 584	2 585	2 583	2 579
50	-	-	3 262	3 266	3 265	3 261	3 253	3 242	3 228
60	-	-	-	-	4 135	4 120	4 100	4 077	4 050

Current consumption in A

10	3.84	3.73	3.62	3.52	3.43	-	-	-	-
20	3.87	3.82	3.79	3.75	3.73	3.71	3.70	-	-
30	4.13	4.13	4.13	4.14	4.15	4.17	4.19	4.23	4.28
40	-	4.75	4.75	4.77	4.78	4.80	4.83	4.87	4.93
50	-	-	5.74	5.73	5.72	5.71	5.72	5.73	5.75
60	-	-	-	-	7.05	6.99	6.93	6.88	6.84

Mass flow in kg/h

10	81	101	125	154	189	-	-	-	-
20	78	98	122	151	184	225	273	-	-
30	76	96	119	147	180	220	267	323	389
40	-	93	116	143	176	215	261	316	381
50	-	-	113	140	171	210	255	309	373
60	-	-	-	-	167	205	250	303	365

Coefficient of performance (C.O.P.)

10	3.28	3.99	4.86	5.89	7.11	-	-	-	-
20	2.29	2.81	3.44	4.18	5.05	6.06	7.23	-	-
30	1.59	1.96	2.41	2.93	3.55	4.27	5.10	6.06	7.15
40	-	1.34	1.65	2.01	2.44	2.94	3.52	4.19	4.97
50	-	-	1.09	1.34	1.62	1.96	2.35	2.80	3.33
60	-	-	-	-	1.03	1.24	1.49	1.79	2.13

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

Cooling capacity	5 798	W
Power input	2 902	W
Current consumption	5.21	A
Mass flow	173	kg/h
C.O.P.	2.00	



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	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)

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	3 876	4 823	5 987	7 392	9 062	-	-	-	-
20	3 361	4 220	5 266	6 525	8 020	9 776	11 813	-	-
30	2 873	3 638	4 562	5 670	6 987	8 537	10 346	12 433	14 813
40	2 394	3 060	3 857	4 809	5 943	7 284	8 860	10 694	12 810
50	-	-	3 132	3 924	4 870	5 997	7 335	8 913	10 759
60	-	-	-	-	3 743	4 652	5 748	7 066	8 645

Power input in W

10	1 231	1 249	1 265	1 279	1 292	-	-	-	-
20	1 559	1 580	1 598	1 614	1 627	1 639	1 650	-	-
30	1 981	2 002	2 020	2 034	2 046	2 055	2 062	2 067	2 071
40	2 530	2 548	2 563	2 573	2 580	2 584	2 585	2 583	2 579
50	-	-	3 262	3 266	3 265	3 261	3 253	3 242	3 228
60	-	-	-	-	4 135	4 120	4 100	4 077	4 050

Current consumption in A

10	3.84	3.73	3.62	3.52	3.43	-	-	-	-
20	3.87	3.82	3.79	3.75	3.73	3.71	3.70	-	-
30	4.13	4.13	4.13	4.14	4.15	4.17	4.19	4.23	4.28
40	4.74	4.75	4.75	4.77	4.78	4.80	4.83	4.87	4.93
50	-	-	5.74	5.73	5.72	5.71	5.72	5.73	5.75
60	-	-	-	-	7.05	6.99	6.93	6.88	6.84

Mass flow in kg/h

10	96	118	144	174	209	-	-	-	-
20	93	115	140	170	204	243	289	-	-
30	91	112	137	165	199	238	282	333	389
40	88	109	133	161	194	232	276	326	381
50	-	-	130	157	189	227	270	319	373
60	-	-	-	-	185	221	264	312	365

Coefficient of performance (C.O.P.)

10	3.15	3.86	4.73	5.78	7.02	-	-	-	-
20	2.16	2.67	3.29	4.04	4.93	5.96	7.16	-	-
30	1.45	1.82	2.26	2.79	3.42	4.15	5.02	6.01	7.15
40	0.95	1.20	1.51	1.87	2.30	2.82	3.43	4.14	4.97
50	-	-	0.96	1.20	1.49	1.84	2.25	2.75	3.33
60	-	-	-	-	0.91	1.13	1.40	1.73	2.13

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

Cooling capacity	5 411	W
Power input	2 902	W
Current consumption	5.21	A
Mass flow	192	kg/h
C.O.P.	1.86	

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	67	dB(A)
With acoustic hood	59	dB(A)

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	4 972	6 174	7 624	9 334	11 318	-	-	-	-
20	4 515	5 599	6 903	8 437	10 216	12 251	14 555	-	-
30	4 023	4 990	6 146	7 503	9 076	10 877	12 917	15 210	17 767
40	-	4 318	5 325	6 506	7 872	9 437	11 213	13 213	15 449
50	-	-	4 415	5 417	6 576	7 905	9 416	11 123	13 038
60	-	-	-	-	5 161	6 253	7 499	8 913	10 507

Power input in W

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	-	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

Current consumption in A

10	2.26	2.40	2.47	2.48	2.47	-	-	-	-
20	2.73	2.93	3.04	3.09	3.10	3.10	3.09	-	-
30	3.35	3.60	3.76	3.85	3.88	3.88	3.87	3.88	3.92
40	-	4.47	4.67	4.79	4.84	4.84	4.83	4.82	4.83
50	-	-	5.82	5.96	6.02	6.03	6.00	5.96	5.94
60	-	-	-	-	7.47	7.47	7.43	7.36	7.29

Mass flow in kg/h

10	90	119	152	190	233	-	-	-	-
20	94	122	153	189	230	279	335	-	-
30	96	121	151	186	226	274	329	394	467
40	-	118	147	181	221	268	323	387	461
50	-	-	140	174	213	260	316	380	455
60	-	-	-	-	204	251	307	372	448

Coefficient of performance (C.O.P.)

10	3.45	4.03	4.85	5.90	7.20	-	-	-	-
20	2.60	3.00	3.56	4.28	5.16	6.21	7.38	-	-
30	1.89	2.17	2.56	3.06	3.67	4.40	5.23	6.15	7.11
40	-	1.51	1.79	2.13	2.55	3.06	3.64	4.30	5.02
50	-	-	1.19	1.43	1.71	2.06	2.46	2.93	3.45
60	-	-	-	-	1.08	1.31	1.58	1.90	2.26

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

Cooling capacity	7 237	W
Power input	3 440	W
Current consumption	5.40	A
Mass flow	217	kg/h
C.O.P.	2.10	

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	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)

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	4 778	5 975	7 429	9 155	11 167	-	-	-	-
20	4 246	5 318	6 618	8 163	9 969	12 050	14 417	-	-
30	3 679	4 625	5 771	7 135	8 735	10 586	12 703	15 096	17 767
40	3 057	3 874	4 864	6 045	7 436	9 056	10 922	13 050	15 449
50	-	-	3 873	4 868	6 048	7 434	9 047	10 909	13 038
60	-	-	-	-	4 542	5 689	7 047	8 643	10 507

Power input in W

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	2 653	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

Current consumption in A

10	2.26	2.40	2.47	2.48	2.47	-	-	-	-
20	2.73	2.93	3.04	3.09	3.10	3.10	3.09	-	-
30	3.35	3.60	3.76	3.85	3.88	3.88	3.87	3.88	3.92
40	4.16	4.47	4.67	4.79	4.84	4.84	4.83	4.82	4.83
50	-	-	5.82	5.96	6.02	6.03	6.00	5.96	5.94
60	-	-	-	-	7.47	7.47	7.43	7.36	7.29

Mass flow in kg/h

10	107	140	175	214	257	-	-	-	-
20	112	142	175	213	254	301	354	-	-
30	114	142	173	209	250	296	348	405	467
40	112	138	169	204	244	290	341	399	461
50	-	-	161	196	236	282	333	391	455
60	-	-	-	-	225	272	324	383	448

Coefficient of performance (C.O.P.)

10	3.31	3.90	4.72	5.79	7.10	-	-	-	-
20	2.44	2.85	3.41	4.14	5.04	6.11	7.31	-	-
30	1.73	2.01	2.41	2.91	3.53	4.28	5.14	6.10	7.11
40	1.15	1.36	1.63	1.98	2.41	2.93	3.55	4.25	5.02
50	-	-	1.04	1.28	1.58	1.94	2.37	2.87	3.45
60	-	-	-	-	0.95	1.20	1.49	1.84	2.26

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

Cooling capacity	6 755	W
Power input	3 440	W
Current consumption	5.40	A
Mass flow	240	kg/h
C.O.P.	1.96	

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	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	3 950	4 989	6 236	7 715	-	-	-	-
20	3 510	4 492	5 663	7 049	8 676	10 570	-	-
30	3 036	3 949	5 032	6 312	7 815	9 567	11 593	13 921
40	2 535	3 366	4 350	5 512	6 879	8 476	10 330	12 467
45	-	3 063	3 992	5 091	6 385	7 900	9 664	11 701
50	-	-	3 624	4 656	5 875	7 306	8 975	10 909
55	-	-	-	4 209	5 349	6 693	8 265	10 093
60	-	-	-	-	4 810	6 062	7 535	9 254

Power input in W

10	1 283	1 317	1 346	1 369	-	-	-	-
20	1 494	1 533	1 568	1 598	1 621	1 637	-	-
30	1 800	1 841	1 880	1 916	1 946	1 970	1 986	1 993
40	2 249	2 292	2 333	2 372	2 408	2 438	2 462	2 479
45	-	2 586	2 628	2 668	2 705	2 738	2 766	2 787
50	-	-	2 976	3 018	3 056	3 091	3 122	3 146
55	-	-	-	3 427	3 466	3 503	3 536	3 564
60	-	-	-	-	3 942	3 980	4 015	4 045

Current consumption in A

10	3.27	3.26	3.25	3.23	-	-	-	-
20	3.54	3.56	3.57	3.58	3.59	3.61	-	-
30	3.82	3.86	3.89	3.92	3.95	3.98	4.02	4.06
40	4.28	4.33	4.38	4.43	4.48	4.52	4.57	4.62
45	-	4.70	4.75	4.81	4.86	4.91	4.96	5.01
50	-	-	5.23	5.29	5.34	5.40	5.45	5.51
55	-	-	-	5.91	5.96	6.02	6.08	6.13
60	-	-	-	-	6.74	6.79	6.85	6.91

Mass flow in kg/h

10	77	96	118	144	-	-	-	-
20	74	94	116	142	172	207	-	-
30	71	90	113	139	170	204	244	289
40	66	86	109	135	165	200	240	285
45	-	83	106	132	162	197	237	282
50	-	-	102	129	159	194	234	279
55	-	-	-	125	156	190	230	276
60	-	-	-	-	151	186	226	271

Coefficient of performance (C.O.P.)

10	3.08	3.79	4.63	5.64	-	-	-	-
20	2.35	2.93	3.61	4.41	5.35	6.46	-	-
30	1.69	2.14	2.68	3.29	4.02	4.86	5.84	6.98
40	1.13	1.47	1.86	2.32	2.86	3.48	4.20	5.03
45	-	1.18	1.52	1.91	2.36	2.88	3.49	4.20
50	-	-	1.22	1.54	1.92	2.36	2.87	3.47
55	-	-	-	1.23	1.54	1.91	2.34	2.83
60	-	-	-	-	1.22	1.52	1.88	2.29

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

Cooling capacity	5 091	W
Power input	2 668	W
Current consumption	4.81	A
Mass flow	132	kg/h
C.O.P.	1.91	

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 accoustic 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	4 195	5 294	6 610	8 171	-	-	-	-	-
20	3 755	4 801	6 045	7 517	9 242	11 249	-	-	-
30	3 279	4 258	5 419	6 789	8 395	10 265	12 425	14 904	-
40	2 772	3 674	4 740	5 996	7 471	9 193	11 188	13 484	-
45	-	3 369	4 382	5 578	6 983	8 627	10 535	12 737	-
50	-	-	4 014	5 146	6 480	8 042	9 862	11 967	-
55	-	-	-	4 703	5 962	7 442	9 172	11 178	-
60	-	-	-	-	-	6 830	8 467	10 375	-

Power input in W

10	1 283	1 317	1 346	1 369	-	-	-	-	-
20	1 494	1 533	1 568	1 598	1 621	1 637	-	-	-
30	1 800	1 841	1 880	1 916	1 946	1 970	1 986	1 993	-
40	2 249	2 292	2 333	2 372	2 408	2 438	2 462	2 479	-
45	-	2 586	2 628	2 668	2 705	2 738	2 766	2 787	-
50	-	-	2 976	3 018	3 056	3 091	3 122	3 146	-
55	-	-	-	3 427	3 466	3 503	3 536	3 564	-
60	-	-	-	-	-	3 980	4 015	4 045	-

Current consumption in A

10	3.27	3.26	3.25	3.23	-	-	-	-	-
20	3.54	3.56	3.57	3.58	3.59	3.61	-	-	-
30	3.82	3.86	3.89	3.92	3.95	3.98	4.02	4.06	-
40	4.28	4.33	4.38	4.43	4.48	4.52	4.57	4.62	-
45	-	4.70	4.75	4.81	4.86	4.91	4.96	5.01	-
50	-	-	5.23	5.29	5.34	5.40	5.45	5.51	-
55	-	-	-	5.91	5.96	6.02	6.08	6.13	-
60	-	-	-	-	-	6.79	6.85	6.91	-

Mass flow in kg/h

10	77	96	118	143	-	-	-	-	-
20	74	93	116	142	171	206	-	-	-
30	71	90	113	139	169	203	243	287	-
40	66	85	108	134	164	199	239	283	-
45	-	82	105	131	162	196	236	281	-
50	-	-	102	128	158	193	233	278	-
55	-	-	-	124	155	189	229	274	-
60	-	-	-	-	-	185	225	270	-

Coefficient of performance (C.O.P.)

10	3.27	4.02	4.91	5.97	-	-	-	-	-
20	2.51	3.13	3.85	4.70	5.70	6.87	-	-	-
30	1.82	2.31	2.88	3.54	4.31	5.21	6.26	7.48	-
40	1.23	1.60	2.03	2.53	3.10	3.77	4.54	5.44	-
45	-	1.30	1.67	2.09	2.58	3.15	3.81	4.57	-
50	-	-	1.35	1.71	2.12	2.60	3.16	3.80	-
55	-	-	-	1.37	1.72	2.12	2.59	3.14	-
60	-	-	-	-	-	1.72	2.11	2.56	-

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

Cooling capacity	5 578	W
Power input	2 668	W
Current consumption	4.81	A
Mass flow	131	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	67	dB(A)
With accoustic 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 alterations 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	4 849	6 118	7 641	9 448	-	-	-	-	-
20	4 311	5 506	6 932	8 620	10 602	12 908	-	-	-
30	3 735	4 843	6 159	7 714	9 539	11 667	14 128	16 954	-
40	3 131	4 137	5 329	6 736	8 392	10 327	12 572	15 160	-
45	-	3 771	4 895	6 224	7 789	9 622	11 755	14 219	-
50	-	-	4 450	5 697	7 168	8 897	10 913	13 248	-
55	-	-	-	5 156	6 531	8 150	10 047	12 251	-
60	-	-	-	-	5 877	7 385	9 158	11 227	-

Power input in W

10	1 517	1 550	1 580	1 605	-	-	-	-	-
20	1 780	1 810	1 845	1 880	1 911	1 933	-	-	-
30	2 157	2 178	2 209	2 246	2 285	2 322	2 353	2 372	-
40	2 726	2 729	2 748	2 779	2 819	2 862	2 904	2 942	-
45	-	3 097	3 107	3 132	3 169	3 212	3 258	3 301	-
50	-	-	3 538	3 556	3 587	3 628	3 675	3 723	-
55	-	-	-	4 059	4 083	4 121	4 166	4 216	-
60	-	-	-	-	4 667	4 698	4 741	4 791	-

Current consumption in A

10	3.42	3.42	3.41	3.39	-	-	-	-	-
20	3.60	3.62	3.64	3.66	3.67	3.69	-	-	-
30	3.85	3.90	3.94	3.97	4.01	4.04	4.08	4.12	-
40	4.33	4.39	4.45	4.49	4.54	4.58	4.63	4.67	-
45	-	4.77	4.83	4.88	4.93	4.97	5.01	5.06	-
50	-	-	5.32	5.37	5.42	5.46	5.50	5.55	-
55	-	-	-	5.99	6.04	6.08	6.12	6.16	-
60	-	-	-	-	6.80	6.83	6.87	6.90	-

Mass flow in kg/h

10	95	118	145	176	-	-	-	-	-
20	91	115	142	174	211	253	-	-	-
30	87	111	138	170	207	249	297	352	-
40	82	105	133	165	202	244	292	347	-
45	-	102	130	161	198	240	289	343	-
50	-	-	126	158	194	236	285	339	-
55	-	-	-	153	190	232	280	335	-
60	-	-	-	-	185	227	275	329	-

Coefficient of performance (C.O.P.)

10	3.20	3.95	4.84	5.89	-	-	-	-	-
20	2.42	3.04	3.76	4.59	5.55	6.68	-	-	-
30	1.73	2.22	2.79	3.43	4.17	5.02	6.01	7.15	-
40	1.15	1.52	1.94	2.42	2.98	3.61	4.33	5.15	-
45	-	1.22	1.58	1.99	2.46	3.00	3.61	4.31	-
50	-	-	1.26	1.60	2.00	2.45	2.97	3.56	-
55	-	-	-	1.27	1.60	1.98	2.41	2.91	-
60	-	-	-	-	1.26	1.57	1.93	2.34	-

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

Cooling capacity	6 224	W
Power input	3 132	W
Current consumption	4.88	A
Mass flow	161	kg/h
C.O.P.	1.99	

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	71	dB(A)
With accoustic hood	63	dB(A)

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	5 149	6 491	8 099	10 006	-	-	-	-	-
20	4 612	5 884	7 400	9 192	11 294	13 737	-	-	-
30	4 034	5 223	6 633	8 297	10 247	12 518	15 142	18 151	-
40	3 423	4 516	5 806	7 328	9 115	11 200	13 616	16 397	-
45	-	4 147	5 373	6 819	8 519	10 507	12 815	15 478	-
50	-	-	4 929	6 296	7 907	9 794	11 992	14 533	-
55	-	-	-	5 760	7 279	9 063	11 149	13 568	-
60	-	-	-	-	-	8 320	10 291	12 587	-

Power input in W

10	1 517	1 550	1 580	1 605	-	-	-	-	-
20	1 780	1 810	1 845	1 880	1 911	1 933	-	-	-
30	2 157	2 178	2 209	2 246	2 285	2 322	2 353	2 372	-
40	2 726	2 729	2 748	2 779	2 819	2 862	2 904	2 942	-
45	-	3 097	3 107	3 132	3 169	3 212	3 258	3 301	-
50	-	-	3 538	3 556	3 587	3 628	3 675	3 723	-
55	-	-	-	4 059	4 083	4 121	4 166	4 216	-
60	-	-	-	-	-	4 698	4 741	4 791	-

Current consumption in A

10	3.42	3.42	3.41	3.39	-	-	-	-	-
20	3.60	3.62	3.64	3.66	3.67	3.69	-	-	-
30	3.85	3.90	3.94	3.97	4.01	4.04	4.08	4.12	-
40	4.33	4.39	4.45	4.49	4.54	4.58	4.63	4.67	-
45	-	4.77	4.83	4.88	4.93	4.97	5.01	5.06	-
50	-	-	5.32	5.37	5.42	5.46	5.50	5.55	-
55	-	-	-	5.99	6.04	6.08	6.12	6.16	-
60	-	-	-	-	-	6.83	6.87	6.90	-

Mass flow in kg/h

10	94	117	144	175	-	-	-	-	-
20	91	114	142	173	210	251	-	-	-
30	87	110	138	169	206	248	296	350	-
40	81	105	132	164	201	242	290	345	-
45	-	101	129	161	197	239	287	341	-
50	-	-	125	157	193	235	283	337	-
55	-	-	-	152	189	231	278	332	-
60	-	-	-	-	-	226	273	327	-

Coefficient of performance (C.O.P.)

10	3.39	4.19	5.13	6.24	-	-	-	-	-
20	2.59	3.25	4.01	4.89	5.91	7.10	-	-	-
30	1.87	2.40	3.00	3.69	4.48	5.39	6.44	7.65	-
40	1.26	1.65	2.11	2.64	3.23	3.91	4.69	5.57	-
45	-	1.34	1.73	2.18	2.69	3.27	3.93	4.69	-
50	-	-	1.39	1.77	2.20	2.70	3.26	3.90	-
55	-	-	-	1.42	1.78	2.20	2.68	3.22	-
60	-	-	-	-	-	1.77	2.17	2.63	-

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

Cooling capacity	6 819	W
Power input	3 132	W
Current consumption	4.88	A
Mass flow	161	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	71	dB(A)
With accoustic 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 alterations 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.

Datasheet, performance data

Scroll compressor. MLZ026T4

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

R407C

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

Cooling capacity in W

30	-	2 969	3 814	4 838	6 063	7 510	9 200	11 156	13 398
35	-	2 778	3 581	4 551	5 711	7 081	8 683	10 538	12 669
40	-	2 571	3 332	4 250	5 345	6 639	8 153	9 909	11 929
45	-	-	3 065	3 931	4 962	6 181	7 609	9 266	11 175
50	-	-	-	3 592	4 561	5 705	7 046	8 606	10 405
55	-	-	-	-	4 137	5 207	6 463	7 925	9 614
60	-	-	-	-	-	4 685	5 855	7 219	8 798
65	-	-	-	-	-	-	5 219	6 485	7 954

Power input in W

30	-	1 876	1 864	1 857	1 850	1 838	1 816	1 779	1 722
35	-	2 130	2 111	2 099	2 090	2 077	2 055	2 021	1 967
40	-	2 413	2 388	2 373	2 360	2 347	2 327	2 295	2 246
45	-	-	2 700	2 681	2 667	2 654	2 635	2 607	2 564
50	-	-	-	3 029	3 014	3 002	2 986	2 962	2 924
55	-	-	-	-	3 407	3 395	3 383	3 363	3 333
60	-	-	-	-	-	3 840	3 831	3 817	3 793
65	-	-	-	-	-	-	4 334	4 327	4 311

Current consumption in A

30	-	3.09	3.05	3.11	3.23	3.38	3.52	3.59	3.58
35	-	3.90	3.77	3.76	3.82	3.91	4.00	4.04	3.99
40	-	4.47	4.27	4.20	4.21	4.26	4.32	4.33	4.26
45	-	-	4.64	4.52	4.50	4.52	4.56	4.56	4.49
50	-	-	-	4.83	4.79	4.80	4.83	4.84	4.79
55	-	-	-	-	5.18	5.19	5.24	5.26	5.24
60	-	-	-	-	-	5.80	5.87	5.93	5.95
65	-	-	-	-	-	-	6.84	6.95	7.02

Mass flow in kg/h

30	-	66	84	105	129	157	189	226	268
35	-	66	83	103	127	155	187	224	265
40	-	64	81	102	125	153	185	221	261
45	-	-	79	99	123	150	182	217	258
50	-	-	-	96	120	147	178	213	254
55	-	-	-	-	116	143	174	209	249
60	-	-	-	-	-	138	169	204	243
65	-	-	-	-	-	-	163	198	237

Coefficient of performance (C.O.P.)

30	-	1.58	2.05	2.61	3.28	4.09	5.07	6.27	7.78
35	-	1.30	1.70	2.17	2.73	3.41	4.22	5.22	6.44
40	-	1.07	1.40	1.79	2.26	2.83	3.50	4.32	5.31
45	-	-	1.14	1.47	1.86	2.33	2.89	3.55	4.36
50	-	-	-	1.19	1.51	1.90	2.36	2.91	3.56
55	-	-	-	-	1.21	1.53	1.91	2.36	2.88
60	-	-	-	-	-	1.22	1.53	1.89	2.32
65	-	-	-	-	-	-	1.20	1.50	1.85

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

Cooling capacity	4 962	W
Power input	2 667	W
Current consumption	4.50	A
Mass flow	123	kg/h
C.O.P.	1.86	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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 alterations 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,
R407C

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

Cooling capacity in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Power input in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °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. = °C , Subcooling = K

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

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, Superheat = 10 K
R407C

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

Cooling capacity in W

30	-	3 594	4 618	5 858	7 340	9 092	11 139	13 508	16 226
35	-	3 360	4 332	5 506	6 909	8 567	10 505	12 750	15 329
40	-	3 104	4 026	5 137	6 461	8 025	9 855	11 978	14 420
45	-	-	3 698	4 745	5 992	7 464	9 188	11 189	13 494
50	-	-	-	4 330	5 500	6 881	8 499	10 379	12 549
55	-	-	-	-	4 983	6 273	7 786	9 547	11 581
60	-	-	-	-	-	5 638	7 046	8 687	10 586
65	-	-	-	-	-	-	6 275	7 795	9 559

Power input in W

30	-	2 209	2 194	2 186	2 178	2 164	2 138	2 095	2 027
35	-	2 509	2 487	2 473	2 461	2 446	2 421	2 380	2 317
40	-	2 844	2 815	2 796	2 782	2 766	2 742	2 705	2 647
45	-	-	3 185	3 162	3 146	3 130	3 108	3 075	3 024
50	-	-	-	3 575	3 558	3 543	3 524	3 495	3 451
55	-	-	-	-	4 024	4 010	3 995	3 972	3 936
60	-	-	-	-	-	4 538	4 527	4 511	4 483
65	-	-	-	-	-	-	5 126	5 117	5 099

Current consumption in A

30	-	3.31	3.26	3.33	3.46	3.62	3.77	3.85	3.83
35	-	4.18	4.04	4.03	4.09	4.19	4.29	4.33	4.28
40	-	4.78	4.58	4.50	4.51	4.57	4.62	4.64	4.57
45	-	-	4.97	4.85	4.82	4.85	4.88	4.89	4.82
50	-	-	-	5.18	5.13	5.14	5.18	5.19	5.13
55	-	-	-	-	5.55	5.57	5.61	5.64	5.61
60	-	-	-	-	-	6.22	6.29	6.36	6.37
65	-	-	-	-	-	-	7.33	7.45	7.52

Mass flow in kg/h

30	-	80	102	127	156	190	229	274	325
35	-	79	100	125	154	188	226	271	320
40	-	77	98	123	152	185	223	267	316
45	-	-	96	120	148	181	219	262	311
50	-	-	-	116	145	177	215	257	306
55	-	-	-	-	140	172	209	252	300
60	-	-	-	-	-	166	203	245	293
65	-	-	-	-	-	-	196	238	285

Coefficient of performance (C.O.P.)

30	-	1.63	2.10	2.68	3.37	4.20	5.21	6.45	8.00
35	-	1.34	1.74	2.23	2.81	3.50	4.34	5.36	6.62
40	-	1.09	1.43	1.84	2.32	2.90	3.59	4.43	5.45
45	-	-	1.16	1.50	1.90	2.38	2.96	3.64	4.46
50	-	-	-	1.21	1.55	1.94	2.41	2.97	3.64
55	-	-	-	-	1.24	1.56	1.95	2.40	2.94
60	-	-	-	-	-	1.24	1.56	1.93	2.36
65	-	-	-	-	-	-	1.22	1.52	1.87

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

Cooling capacity	5 992	W
Power input	3 146	W
Current consumption	4.82	A
Mass flow	148	kg/h
C.O.P.	1.90	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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 alterations 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,
R407C

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

Cooling capacity in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Power input in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °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. = °C , Subcooling = K

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

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

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	4 568	5 242	6 535	8 061	-	-	-	-	-
20	4 105	4 745	5 966	7 403	9 083	11 031	-	-	-
30	3 599	4 197	5 334	6 670	8 230	10 042	12 132	14 526	-
40	3 057	3 605	4 645	5 866	7 295	8 959	10 883	13 093	-
45	-	-	4 280	5 440	6 799	8 383	10 220	12 334	-
50	-	-	-	4 999	6 284	7 787	9 532	11 546	-
55	-	-	-	-	5 752	7 169	8 820	10 732	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 375	1 387	1 411	1 448	-	-	-	-	-
20	1 596	1 610	1 631	1 655	1 691	1 747	-	-	-
30	1 923	1 945	1 973	1 994	2 018	2 052	2 105	2 187	-
40	2 386	2 424	2 468	2 497	2 519	2 541	2 574	2 625	-
45	-	-	2 783	2 820	2 844	2 865	2 891	2 931	-
50	-	-	-	3 195	3 225	3 247	3 269	3 300	-
55	-	-	-	-	3 665	3 691	3 711	3 736	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.43	3.42	3.40	3.37	-	-	-	-	-
20	3.73	3.74	3.74	3.75	3.75	3.75	-	-	-
30	4.04	4.06	4.09	4.11	4.14	4.16	4.19	4.22	-
40	4.54	4.57	4.62	4.66	4.70	4.74	4.78	4.82	-
45	-	-	5.01	5.06	5.11	5.15	5.20	5.25	-
50	-	-	-	5.58	5.63	5.67	5.72	5.78	-
55	-	-	-	-	6.29	6.34	6.39	6.44	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	80	91	112	136	-	-	-	-	-
20	77	89	110	135	163	196	-	-	-
30	74	85	107	132	160	193	231	273	-
40	69	81	102	127	156	189	227	269	-
45	-	-	100	125	153	186	224	266	-
50	-	-	-	121	150	183	220	263	-
55	-	-	-	-	146	179	217	259	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.32	3.78	4.63	5.57	-	-	-	-	-
20	2.57	2.95	3.66	4.47	5.37	6.32	-	-	-
30	1.87	2.16	2.70	3.34	4.08	4.89	5.76	6.64	-
40	1.28	1.49	1.88	2.35	2.90	3.53	4.23	4.99	-
45	-	-	1.54	1.93	2.39	2.93	3.53	4.21	-
50	-	-	-	1.56	1.95	2.40	2.92	3.50	-
55	-	-	-	-	1.57	1.94	2.38	2.87	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	5 440	W
Power input	2 820	W
Current consumption	5.06	A
Mass flow	125	kg/h
C.O.P.	1.93	

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	67	dB(A)
With accoustic hood	59	dB(A)

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	4 828	5 538	6 899	8 504	-	-	-	-	-
20	4 365	5 043	6 335	7 855	9 629	11 685	-	-	-
30	3 856	4 494	5 705	7 127	8 787	10 711	12 929	15 467	-
40	-	3 897	5 016	6 327	7 860	9 642	11 700	14 062	-
45	-	-	4 650	5 903	7 368	9 073	11 048	13 319	-
50	-	-	-	5 463	6 858	8 485	10 374	12 551	-
55	-	-	-	-	-	7 880	9 681	11 763	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 375	1 387	1 411	1 448	-	-	-	-	-
20	1 596	1 610	1 631	1 655	1 691	1 747	-	-	-
30	1 923	1 945	1 973	1 994	2 018	2 052	2 105	2 187	-
40	-	2 424	2 468	2 497	2 519	2 541	2 574	2 625	-
45	-	-	2 783	2 820	2 844	2 865	2 891	2 931	-
50	-	-	-	3 195	3 225	3 247	3 269	3 300	-
55	-	-	-	-	-	3 691	3 711	3 736	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.43	3.42	3.40	3.37	-	-	-	-	-
20	3.73	3.74	3.74	3.75	3.75	3.75	-	-	-
30	4.04	4.06	4.09	4.11	4.14	4.16	4.19	4.22	-
40	-	4.57	4.62	4.66	4.70	4.74	4.78	4.82	-
45	-	-	5.01	5.06	5.11	5.15	5.20	5.25	-
50	-	-	-	5.58	5.63	5.67	5.72	5.78	-
55	-	-	-	-	-	6.34	6.39	6.44	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	79	90	111	136	-	-	-	-	-
20	77	88	110	134	162	195	-	-	-
30	74	85	106	131	160	192	229	271	-
40	-	80	102	127	155	188	225	267	-
45	-	-	99	124	152	185	222	265	-
50	-	-	-	121	149	182	219	261	-
55	-	-	-	-	-	178	215	257	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.51	3.99	4.89	5.87	-	-	-	-	-
20	2.73	3.13	3.88	4.75	5.70	6.69	-	-	-
30	2.01	2.31	2.89	3.57	4.35	5.22	6.14	7.07	-
40	-	1.61	2.03	2.53	3.12	3.79	4.55	5.36	-
45	-	-	1.67	2.09	2.59	3.17	3.82	4.54	-
50	-	-	-	1.71	2.13	2.61	3.17	3.80	-
55	-	-	-	-	-	2.14	2.61	3.15	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	5 903	W
Power input	2 820	W
Current consumption	5.06	A
Mass flow	124	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	67	dB(A)
With accoustic 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 alterations 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	5 633	6 461	8 047	9 919	-	-	-	-	-
20	5 063	5 847	7 341	9 099	11 154	13 536	-	-	-
30	4 445	5 175	6 563	8 193	10 097	12 307	14 855	17 774	-
40	3 784	4 452	5 720	7 207	8 946	10 970	13 309	15 997	-
45	-	-	5 276	6 686	8 338	10 262	12 492	15 059	-
50	-	-	-	6 149	7 709	9 531	11 647	14 090	-
55	-	-	-	-	7 060	8 776	10 775	13 089	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 596	1 611	1 642	1 683	-	-	-	-	-
20	1 870	1 882	1 906	1 938	1 979	2 031	-	-	-
30	2 268	2 278	2 298	2 324	2 357	2 400	2 453	2 520	-
40	2 850	2 860	2 878	2 900	2 928	2 964	3 008	3 064	-
45	-	-	3 256	3 278	3 304	3 337	3 378	3 430	-
50	-	-	-	3 725	3 750	3 781	3 820	3 868	-
55	-	-	-	-	4 274	4 304	4 340	4 385	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.55	3.54	3.52	3.50	-	-	-	-	-
20	3.76	3.77	3.78	3.79	3.80	3.80	-	-	-
30	4.04	4.06	4.10	4.13	4.16	4.18	4.21	4.24	-
40	4.56	4.59	4.64	4.68	4.72	4.76	4.79	4.83	-
45	-	-	5.04	5.09	5.13	5.17	5.20	5.24	-
50	-	-	-	5.61	5.65	5.69	5.72	5.76	-
55	-	-	-	-	6.30	6.34	6.37	6.40	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	98	112	138	168	-	-	-	-	-
20	95	109	136	166	200	240	-	-	-
30	91	105	132	162	197	237	283	334	-
40	86	100	126	156	191	231	277	329	-
45	-	-	123	153	188	228	274	325	-
50	-	-	-	149	184	224	269	321	-
55	-	-	-	-	179	219	265	316	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.53	4.01	4.90	5.89	-	-	-	-	-
20	2.71	3.11	3.85	4.70	5.64	6.66	-	-	-
30	1.96	2.27	2.86	3.53	4.28	5.13	6.06	7.05	-
40	1.33	1.56	1.99	2.48	3.06	3.70	4.42	5.22	-
45	-	-	1.62	2.04	2.52	3.08	3.70	4.39	-
50	-	-	-	1.65	2.06	2.52	3.05	3.64	-
55	-	-	-	-	1.65	2.04	2.48	2.99	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	6 686	W
Power input	3 278	W
Current consumption	5.09	A
Mass flow	153	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	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 alterations 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	5 953	6 825	8 495	10 464	-	-	-	-	-
20	5 384	6 213	7 795	9 654	11 824	14 339	-	-	-
30	4 762	5 540	7 019	8 755	10 779	13 127	15 832	18 926	-
40	-	4 814	6 176	7 773	9 638	11 806	14 309	17 181	-
45	-	-	5 732	7 255	9 035	11 107	13 505	16 262	-
50	-	-	-	6 719	8 412	10 386	12 676	15 315	-
55	-	-	-	-	-	9 646	11 826	14 346	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 596	1 611	1 642	1 683	-	-	-	-	-
20	1 870	1 882	1 906	1 938	1 979	2 031	-	-	-
30	2 268	2 278	2 298	2 324	2 357	2 400	2 453	2 520	-
40	-	2 860	2 878	2 900	2 928	2 964	3 008	3 064	-
45	-	-	3 256	3 278	3 304	3 337	3 378	3 430	-
50	-	-	-	3 725	3 750	3 781	3 820	3 868	-
55	-	-	-	-	-	4 304	4 340	4 385	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.55	3.54	3.52	3.50	-	-	-	-	-
20	3.76	3.77	3.78	3.79	3.80	3.80	-	-	-
30	4.04	4.06	4.10	4.13	4.16	4.18	4.21	4.24	-
40	-	4.59	4.64	4.68	4.72	4.76	4.79	4.83	-
45	-	-	5.04	5.09	5.13	5.17	5.20	5.24	-
50	-	-	-	5.61	5.65	5.69	5.72	5.76	-
55	-	-	-	-	-	6.34	6.37	6.40	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	98	111	137	167	-	-	-	-	-
20	95	109	135	165	199	239	-	-	-
30	91	105	131	161	196	235	281	332	-
40	-	99	125	156	190	230	275	327	-
45	-	-	122	152	187	227	272	323	-
50	-	-	-	148	183	222	268	319	-
55	-	-	-	-	-	218	263	314	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.73	4.24	5.17	6.22	-	-	-	-	-
20	2.88	3.30	4.09	4.98	5.98	7.06	-	-	-
30	2.10	2.43	3.05	3.77	4.57	5.47	6.45	7.51	-
40	-	1.68	2.15	2.68	3.29	3.98	4.76	5.61	-
45	-	-	1.76	2.21	2.73	3.33	4.00	4.74	-
50	-	-	-	1.80	2.24	2.75	3.32	3.96	-
55	-	-	-	-	-	2.24	2.72	3.27	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	7 255	W
Power input	3 278	W
Current consumption	5.09	A
Mass flow	152	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	71	dB(A)
With accoustic 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 alterations 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	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

Power input in W

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

Current consumption in A

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	-	-	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	-	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	-	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	-	-	6.83	6.83	6.83

Mass flow in kg/h

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

Coefficient of performance (C.O.P.)

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

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

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	122	kg/h
C.O.P.	1.97	

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	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, 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	3 405	4 310	5 385	6 657	8 148	-	-	-	-
20	2 966	3 844	4 872	6 074	7 477	9 105	10 978	-	-
30	2 476	3 311	4 274	5 393	6 692	8 197	9 932	11 917	14 170
40	-	-	3 611	4 629	5 810	7 177	8 758	10 576	12 651
50	-	-	-	3 802	4 847	6 062	7 474	9 109	10 991
60	-	-	-	-	3 823	4 868	6 094	7 530	9 206

Power input in W

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

Current consumption in A

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	3.90	3.97	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	4.61	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	5.53	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	6.81	6.82	6.83	6.83	6.83

Mass flow in kg/h

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

Coefficient of performance (C.O.P.)

10	2.97	3.69	4.54	5.55	6.72	-	-	-	-
20	2.08	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.83	3.48	4.23	5.09	6.05	7.09
40	-	-	1.51	1.90	2.37	2.91	3.54	4.26	5.07
50	-	-	-	1.22	1.54	1.91	2.36	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

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

Cooling capacity	5 337	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	134	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 60 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	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

Power input in W

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

Current consumption in A

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	-	-	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	-	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	-	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	-	-	6.78	6.81	6.85

Mass flow in kg/h

10	63	80	101	127	157	-	-	-	-
20	62	81	102	128	158	195	238	-	-
30	-	-	101	127	157	194	237	287	346
40	-	-	-	124	154	190	232	281	339
50	-	-	-	-	148	182	223	272	328
60	-	-	-	-	-	-	212	258	313

Coefficient of performance (C.O.P.)

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

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

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	151	kg/h
C.O.P.	2.12	

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	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 60 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	3 877	4 919	6 181	7 695	9 490	-	-	-	-
20	3 539	4 554	5 763	7 196	8 885	10 860	13 148	-	-
30	3 138	4 095	5 218	6 538	8 090	9 903	12 007	14 429	17 189
40	-	-	4 587	5 764	7 146	8 765	10 654	12 842	15 354
50	-	-	-	4 913	6 095	7 489	9 131	11 052	13 285
60	-	-	-	-	4 976	6 114	7 476	9 100	11 020

Power input in W

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

Current consumption in A

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	3.81	3.88	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	4.53	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	5.46	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	6.76	6.77	6.78	6.81	6.85

Mass flow in kg/h

10	74	94	116	142	172	-	-	-	-
20	74	94	117	143	174	209	250	-	-
30	73	93	116	142	173	208	249	295	346
40	-	-	113	139	169	204	244	289	339
50	-	-	-	134	163	196	235	279	328
60	-	-	-	-	154	186	223	265	313

Coefficient of performance (C.O.P.)

10	2.90	3.60	4.42	5.35	6.39	-	-	-	-
20	2.10	2.66	3.31	4.06	4.91	5.85	6.86	-	-
30	1.46	1.89	2.38	2.95	3.60	4.35	5.17	6.07	7.02
40	-	-	1.63	2.04	2.52	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.68	2.06	2.51	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

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

Cooling capacity	6 631	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	166	kg/h
C.O.P.	2.07	

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	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

Power input in W

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

Current consumption in A

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	-	-	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	-	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	-	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	-	-	6.83	6.83	6.83

Mass flow in kg/h

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

Coefficient of performance (C.O.P.)

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

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

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	122	kg/h
C.O.P.	1.97	

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	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, 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	3 397	4 302	5 377	6 649	8 141	-	-	-	-
20	2 959	3 836	4 863	6 066	7 469	9 097	10 972	-	-
30	2 468	3 302	4 265	5 383	6 683	8 189	9 926	11 914	14 170
40	-	-	3 601	4 620	5 800	7 169	8 752	10 572	12 651
50	-	-	-	3 792	4 838	6 053	7 467	9 104	10 991
60	-	-	-	-	3 813	4 859	6 087	7 526	9 206

Power input in W

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

Current consumption in A

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	3.90	3.97	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	4.61	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	5.53	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	6.81	6.82	6.83	6.83	6.83

Mass flow in kg/h

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

Coefficient of performance (C.O.P.)

10	2.97	3.68	4.54	5.55	6.71	-	-	-	-
20	2.07	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.82	3.47	4.23	5.09	6.05	7.09
40	-	-	1.50	1.90	2.36	2.91	3.54	4.26	5.07
50	-	-	-	1.21	1.53	1.91	2.35	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

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

Cooling capacity	5 328	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	134	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 60 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	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

Power input in W

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

Current consumption in A

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	-	-	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	-	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	-	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	-	-	6.78	6.81	6.85

Mass flow in kg/h

10	64	82	103	129	159	-	-	-	-
20	64	82	104	130	161	198	242	-	-
30	-	-	103	129	160	197	241	292	352
40	-	-	-	126	157	193	236	287	346
50	-	-	-	-	151	186	228	278	335
60	-	-	-	-	-	-	216	264	320

Coefficient of performance (C.O.P.)

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

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

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	154	kg/h
C.O.P.	2.12	

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	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 60 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	3 869	4 910	6 172	7 685	9 481	-	-	-	-
20	3 530	4 545	5 753	7 186	8 875	10 851	13 141	-	-
30	3 129	4 085	5 206	6 527	8 079	9 893	11 999	14 424	17 189
40	-	-	4 575	5 752	7 134	8 755	10 646	12 837	15 354
50	-	-	-	4 901	6 082	7 478	9 122	11 047	13 285
60	-	-	-	-	4 963	6 103	7 468	9 094	11 020

Power input in W

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

Current consumption in A

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	3.81	3.88	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	4.53	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	5.46	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	6.76	6.77	6.78	6.81	6.85

Mass flow in kg/h

10	76	95	118	144	175	-	-	-	-
20	75	95	119	145	177	213	255	-	-
30	74	95	118	145	176	212	254	300	352
40	-	-	115	142	172	208	249	295	346
50	-	-	-	136	166	200	240	285	335
60	-	-	-	-	157	190	228	271	320

Coefficient of performance (C.O.P.)

10	2.89	3.59	4.41	5.34	6.38	-	-	-	-
20	2.10	2.65	3.31	4.05	4.90	5.84	6.85	-	-
30	1.46	1.88	2.37	2.94	3.60	4.34	5.17	6.07	7.02
40	-	-	1.63	2.04	2.51	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.67	2.06	2.50	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

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

Cooling capacity	6 619	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	169	kg/h
C.O.P.	2.06	

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
R452A

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

Cooling capacity in W

10	3 695	4 596	5 684	6 982	8 511	-	-	-	-
20	3 324	4 191	5 222	6 438	7 862	9 516	11 421	-	-
30	-	3 726	4 672	5 781	7 075	8 573	10 300	12 276	14 523
40	-	-	4 057	5 033	6 168	7 486	9 008	10 756	12 751
50	-	-	-	-	5 164	6 275	7 566	9 059	10 777
60	-	-	-	-	-	4 960	5 995	7 207	8 620

Power input in W

10	1 181	1 203	1 219	1 226	1 223	-	-	-	-
20	1 497	1 524	1 549	1 570	1 585	1 593	1 591	-	-
30	-	1 920	1 941	1 962	1 983	2 000	2 013	2 018	2 015
40	-	-	2 471	2 479	2 490	2 504	2 517	2 528	2 535
50	-	-	-	-	3 184	3 179	3 180	3 183	3 187
60	-	-	-	-	-	4 104	4 077	4 058	4 045

Current consumption in A

10	3.34	3.34	3.34	3.33	3.33	-	-	-	-
20	3.61	3.64	3.66	3.67	3.67	3.68	3.70	-	-
30	-	4.03	4.07	4.10	4.11	4.13	4.14	4.16	4.18
40	-	-	4.67	4.71	4.73	4.75	4.76	4.77	4.78
50	-	-	-	-	5.62	5.64	5.64	5.64	5.63
60	-	-	-	-	-	6.88	6.88	6.86	6.83

Mass flow in kg/h

10	74	94	117	144	176	-	-	-	-
20	73	93	116	144	176	215	261	-	-
30	-	91	114	141	174	213	259	313	376
40	-	-	110	137	170	208	254	307	369
50	-	-	-	-	162	200	245	298	359
60	-	-	-	-	-	189	232	284	344

Coefficient of performance (C.O.P.)

10	3.13	3.82	4.66	5.69	6.96	-	-	-	-
20	2.22	2.75	3.37	4.10	4.96	5.97	7.18	-	-
30	-	1.94	2.41	2.95	3.57	4.29	5.12	6.08	7.21
40	-	-	1.64	2.03	2.48	2.99	3.58	4.25	5.03
50	-	-	-	-	1.62	1.97	2.38	2.85	3.38
60	-	-	-	-	-	1.21	1.47	1.78	2.13

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

Cooling capacity	5 677	W
Power input	2 809	W
Current consumption	5.14	A
Mass flow	166	kg/h
C.O.P.	2.02	

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	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, Superheat = 10 K
R452A

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

Cooling capacity in W

10	3 576	4 474	5 565	6 874	8 421	-	-	-	-
20	3 155	4 011	5 039	6 262	7 704	9 387	11 333	-	-
30	2 704	3 491	4 427	5 538	6 848	8 379	10 157	12 199	14 523
40	2 242	2 934	3 753	4 725	5 875	7 229	8 811	10 645	12 751
50	-	-	3 038	3 846	4 810	5 958	7 316	8 914	10 777
60	-	-	-	-	3 668	4 584	5 692	7 026	8 620

Power input in W

10	1 181	1 203	1 219	1 226	1 223	-	-	-	-
20	1 497	1 524	1 549	1 570	1 585	1 593	1 591	-	-
30	1 903	1 920	1 941	1 962	1 983	2 000	2 013	2 018	2 015
40	2 474	2 469	2 471	2 479	2 490	2 504	2 517	2 528	2 535
50	-	-	3 215	3 195	3 184	3 179	3 180	3 183	3 187
60	-	-	-	-	4 140	4 104	4 077	4 058	4 045

Current consumption in A

10	3.34	3.34	3.34	3.33	3.33	-	-	-	-
20	3.61	3.64	3.66	3.67	3.67	3.68	3.70	-	-
30	3.98	4.03	4.07	4.10	4.11	4.13	4.14	4.16	4.18
40	4.53	4.61	4.67	4.71	4.73	4.75	4.76	4.77	4.78
50	-	-	5.53	5.59	5.62	5.64	5.64	5.64	5.63
60	-	-	-	-	6.86	6.88	6.88	6.86	6.83

Mass flow in kg/h

10	88	109	133	161	194	-	-	-	-
20	87	108	133	161	194	232	275	-	-
30	84	106	130	159	192	230	273	322	376
40	80	101	126	154	187	224	267	316	369
50	-	-	119	147	178	215	258	306	359
60	-	-	-	-	167	203	245	292	344

Coefficient of performance (C.O.P.)

10	3.03	3.72	4.57	5.61	6.89	-	-	-	-
20	2.11	2.63	3.25	3.99	4.86	5.89	7.12	-	-
30	1.42	1.82	2.28	2.82	3.45	4.19	5.05	6.04	7.21
40	0.91	1.19	1.52	1.91	2.36	2.89	3.50	4.21	5.03
50	-	-	0.94	1.20	1.51	1.87	2.30	2.80	3.38
60	-	-	-	-	0.89	1.12	1.40	1.73	2.13

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

Cooling capacity	5 353	W
Power input	2 809	W
Current consumption	5.14	A
Mass flow	183	kg/h
C.O.P.	1.91	

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 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R452A

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

Cooling capacity in W

10	4 466	5 540	6 852	8 429	10 296	-	-	-	-
20	4 039	5 048	6 268	7 725	9 446	11 456	13 782	-	-
30	-	4 534	5 631	6 938	8 481	10 287	12 381	14 791	17 540
40	-	-	4 960	6 087	7 422	8 993	10 826	12 947	15 382
50	-	-	-	-	6 289	7 595	9 136	10 938	13 028
60	-	-	-	-	-	6 111	7 330	8 784	10 500

Power input in W

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	-	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	-	-	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	-	-	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	-	4 722	4 752	4 761	4 754

Current consumption in A

10	3.40	3.34	3.30	3.29	3.31	-	-	-	-
20	3.60	3.61	3.60	3.60	3.61	3.64	3.70	-	-
30	-	3.97	4.03	4.07	4.09	4.10	4.12	4.16	4.22
40	-	-	4.59	4.70	4.76	4.79	4.80	4.80	4.80
50	-	-	-	-	5.63	5.72	5.75	5.74	5.70
60	-	-	-	-	-	6.88	6.97	6.99	6.95

Mass flow in kg/h

10	90	113	141	173	213	-	-	-	-
20	89	112	139	172	212	259	315	-	-
30	-	110	137	170	209	256	311	377	454
40	-	-	134	166	204	250	305	370	446
50	-	-	-	-	198	242	296	359	434
60	-	-	-	-	-	233	284	346	419

Coefficient of performance (C.O.P.)

10	2.90	3.50	4.25	5.15	6.19	-	-	-	-
20	2.23	2.68	3.26	3.96	4.79	5.76	6.83	-	-
30	-	1.99	2.40	2.91	3.52	4.24	5.08	6.03	7.06
40	-	-	1.72	2.06	2.48	2.98	3.58	4.28	5.07
50	-	-	-	-	1.68	2.01	2.41	2.89	3.44
60	-	-	-	-	-	1.29	1.54	1.85	2.21

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

Cooling capacity	6 864	W
Power input	3 345	W
Current consumption	5.17	A
Mass flow	201	kg/h
C.O.P.	2.05	

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	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 60 Hz, EN 12900 rating conditions, Superheat = 10 K
R452A

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

Cooling capacity in W

10	4 321	5 393	6 709	8 298	10 187	-	-	-	-
20	3 833	4 832	6 049	7 514	9 255	11 301	13 675	-	-
30	3 352	4 248	5 336	6 646	8 209	10 054	12 209	14 699	17 540
40	2 892	3 658	4 588	5 715	7 070	8 684	10 589	12 813	15 382
50	-	-	3 823	4 739	5 857	7 210	8 834	10 762	13 028
60	-	-	-	-	4 582	5 646	6 960	8 563	10 500

Power input in W

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	2 181	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	2 652	2 792	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	3 577	3 676	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	4 661	4 722	4 752	4 761	4 754

Current consumption in A

10	3.40	3.34	3.30	3.29	3.31	-	-	-	-
20	3.60	3.61	3.60	3.60	3.61	3.64	3.70	-	-
30	3.87	3.97	4.03	4.07	4.09	4.10	4.12	4.16	4.22
40	4.19	4.42	4.59	4.70	4.76	4.79	4.80	4.80	4.80
50	-	-	5.28	5.49	5.63	5.72	5.75	5.74	5.70
60	-	-	-	-	6.71	6.88	6.97	6.99	6.95

Mass flow in kg/h

10	107	132	161	195	234	-	-	-	-
20	105	130	160	193	233	279	332	-	-
30	104	129	157	190	230	275	328	388	454
40	103	126	154	186	224	269	321	380	446
50	-	-	150	181	217	261	312	369	434
60	-	-	-	-	209	251	299	356	419

Coefficient of performance (C.O.P.)

10	2.81	3.41	4.16	5.07	6.13	-	-	-	-
20	2.11	2.57	3.14	3.85	4.70	5.68	6.78	-	-
30	1.54	1.86	2.28	2.79	3.41	4.15	5.01	5.99	7.06
40	1.09	1.31	1.59	1.93	2.36	2.88	3.51	4.24	5.07
50	-	-	1.07	1.29	1.57	1.91	2.33	2.84	3.44
60	-	-	-	-	0.98	1.20	1.46	1.80	2.21

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

Cooling capacity	6 472	W
Power input	3 345	W
Current consumption	5.17	A
Mass flow	221	kg/h
C.O.P.	1.93	

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

Datasheet, performance data

Scroll compressor. MLZ026T4

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

R513A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	18

Cooling capacity in W

10	4 245	5 161	6 253	-	-	-	-	-
20	3 898	4 777	5 815	7 027	8 430	-	-	-
30	3 500	4 332	5 304	6 431	7 729	9 214	-	-
40	-	3 834	4 727	5 756	6 938	8 288	9 822	10 838
50	-	-	4 094	5 014	6 067	7 269	8 637	9 543
60	-	-	-	4 211	5 123	6 166	7 355	8 145
70	-	-	-	3 357	4 116	4 987	5 985	6 652
73	-	-	-	-	3 803	4 620	5 558	6 186

Power input in W

10	857	872	890	-	-	-	-	-
20	1 037	1 043	1 059	1 081	1 101	-	-	-
30	1 286	1 275	1 283	1 303	1 331	1 359	-	-
40	-	1 587	1 579	1 592	1 620	1 656	1 694	1 716
50	-	-	1 967	1 966	1 987	2 025	2 072	2 103
60	-	-	-	2 443	2 451	2 482	2 532	2 568
70	-	-	-	3 044	3 030	3 049	3 094	3 131
73	-	-	-	-	3 229	3 243	3 285	3 321

Current consumption in A

10	3.10	3.11	3.11	-	-	-	-	-
20	3.23	3.24	3.25	3.26	3.26	-	-	-
30	3.41	3.41	3.43	3.44	3.46	3.49	-	-
40	-	3.69	3.69	3.70	3.73	3.77	3.82	3.86
50	-	-	4.08	4.08	4.10	4.15	4.21	4.26
60	-	-	-	4.63	4.63	4.67	4.73	4.79
70	-	-	-	5.38	5.36	5.37	5.43	5.48
73	-	-	-	-	5.62	5.63	5.68	5.73

Mass flow in kg/h

10	81	100	121	-	-	-	-	-
20	81	100	122	147	177	-	-	-
30	79	99	121	147	178	213	-	-
40	-	96	119	146	177	213	255	283
50	-	-	116	143	174	210	253	281
60	-	-	-	138	170	206	249	278
70	-	-	-	132	163	200	243	272
73	-	-	-	-	161	198	241	270

Coefficient of performance (C.O.P.)

10	4.95	5.92	7.02	-	-	-	-	-
20	3.76	4.58	5.49	6.50	7.66	-	-	-
30	2.72	3.40	4.14	4.93	5.81	6.78	-	-
40	-	2.42	2.99	3.62	4.28	5.00	5.80	6.32
50	-	-	2.08	2.55	3.05	3.59	4.17	4.54
60	-	-	-	1.72	2.09	2.48	2.90	3.17
70	-	-	-	1.10	1.36	1.64	1.93	2.12
73	-	-	-	-	1.18	1.42	1.69	1.86

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

Cooling capacity	3 568	W
Power input	1 779	W
Current consumption	3.87	A
Mass flow	95	kg/h
C.O.P.	2.01	

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 accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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, Superheat = 10 K
R513A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	18

Cooling capacity in W

10	4 165	5 088	6 193	-	-	-	-	-
20	3 784	4 672	5 725	6 961	8 394	-	-	-
30	3 356	4 195	5 183	6 338	7 677	9 214	-	-
40	2 889	3 666	4 576	5 639	6 870	8 288	9 905	10 976
50	-	3 095	3 914	4 871	5 983	7 269	8 745	9 728
60	-	-	3 207	4 044	5 024	6 166	7 489	8 377
70	-	-	-	3 169	4 003	4 987	6 145	6 933
73	-	-	-	2 899	3 685	4 620	5 726	6 483

Power input in W

10	857	872	890	-	-	-	-	-
20	1 037	1 043	1 059	1 081	1 101	-	-	-
30	1 286	1 275	1 283	1 303	1 331	1 359	-	-
40	1 622	1 587	1 579	1 592	1 620	1 656	1 694	1 716
50	-	1 998	1 967	1 966	1 987	2 025	2 072	2 103
60	-	-	2 467	2 443	2 451	2 482	2 532	2 568
70	-	-	-	3 044	3 030	3 049	3 094	3 131
73	-	-	-	3 250	3 229	3 243	3 285	3 321

Current consumption in A

10	3.10	3.11	3.11	-	-	-	-	-
20	3.23	3.24	3.25	3.26	3.26	-	-	-
30	3.41	3.41	3.43	3.44	3.46	3.49	-	-
40	3.70	3.69	3.69	3.70	3.73	3.77	3.82	3.86
50	-	4.10	4.08	4.08	4.10	4.15	4.21	4.26
60	-	-	4.65	4.63	4.63	4.67	4.73	4.79
70	-	-	-	5.38	5.36	5.37	5.43	5.48
73	-	-	-	5.65	5.62	5.63	5.68	5.73

Mass flow in kg/h

10	90	108	129	-	-	-	-	-
20	89	108	130	154	181	-	-	-
30	88	107	129	154	182	213	-	-
40	85	104	127	152	180	213	249	272
50	-	101	123	149	178	210	247	270
60	-	-	118	144	173	206	243	267
70	-	-	-	138	167	200	237	262
73	-	-	-	135	165	198	235	260

Coefficient of performance (C.O.P.)

10	4.86	5.83	6.96	-	-	-	-	-
20	3.65	4.48	5.40	6.44	7.63	-	-	-
30	2.61	3.29	4.04	4.86	5.77	6.78	-	-
40	1.78	2.31	2.90	3.54	4.24	5.00	5.85	6.40
50	-	1.55	1.99	2.48	3.01	3.59	4.22	4.63
60	-	-	1.30	1.66	2.05	2.48	2.96	3.26
70	-	-	-	1.04	1.32	1.64	1.99	2.21
73	-	-	-	0.89	1.14	1.42	1.74	1.95

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

Cooling capacity	3 385	W
Power input	1 779	W
Current consumption	3.87	A
Mass flow	103	kg/h
C.O.P.	1.90	

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 accoustic hood		dB(A)

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 alterations 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, Suction temp. = 20 °C
R513A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	18

Cooling capacity in W

10	5 213	6 380	7 788	-	-	-	-	-
20	4 735	5 819	7 117	8 651	10 442	-	-	-
30	4 251	5 245	6 425	7 813	9 433	11 304	-	-
40	-	4 656	5 711	6 947	8 387	10 051	11 963	13 238
50	-	-	4 975	6 051	7 304	8 754	10 425	11 542
60	-	-	-	5 126	6 184	7 413	8 835	9 790
70	-	-	-	4 171	5 027	6 027	7 193	7 983
73	-	-	-	-	4 673	5 603	6 691	7 429

Power input in W

10	1 018	1 032	1 051	-	-	-	-	-
20	1 253	1 263	1 281	1 306	1 336	-	-	-
30	1 546	1 551	1 566	1 590	1 622	1 661	-	-
40	-	1 911	1 921	1 943	1 975	2 016	2 066	2 099
50	-	-	2 362	2 379	2 409	2 451	2 503	2 540
60	-	-	-	2 916	2 942	2 982	3 035	3 073
70	-	-	-	3 567	3 588	3 624	3 676	3 715
73	-	-	-	-	3 806	3 841	3 893	3 931

Current consumption in A

10	2.94	2.94	2.96	-	-	-	-	-
20	3.07	3.06	3.08	3.11	3.13	-	-	-
30	3.30	3.28	3.29	3.32	3.35	3.38	-	-
40	-	3.60	3.61	3.63	3.67	3.71	3.74	3.75
50	-	-	4.05	4.07	4.11	4.16	4.20	4.22
60	-	-	-	4.65	4.69	4.74	4.79	4.82
70	-	-	-	5.40	5.43	5.48	5.54	5.57
73	-	-	-	-	5.68	5.73	5.79	5.83

Mass flow in kg/h

10	100	123	151	-	-	-	-	-
20	98	121	149	181	220	-	-	-
30	96	119	147	179	217	262	-	-
40	-	117	144	176	213	258	310	345
50	-	-	141	172	209	253	305	340
60	-	-	-	168	205	248	299	334
70	-	-	-	164	200	242	292	327
73	-	-	-	-	198	240	290	324

Coefficient of performance (C.O.P.)

10	5.12	6.18	7.41	-	-	-	-	-
20	3.78	4.61	5.55	6.62	7.81	-	-	-
30	2.75	3.38	4.10	4.91	5.82	6.80	-	-
40	-	2.44	2.97	3.58	4.25	4.99	5.79	6.31
50	-	-	2.11	2.54	3.03	3.57	4.16	4.54
60	-	-	-	1.76	2.10	2.49	2.91	3.19
70	-	-	-	1.17	1.40	1.66	1.96	2.15
73	-	-	-	-	1.23	1.46	1.72	1.89

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

Cooling capacity	4 356	W
Power input	2 123	W
Current consumption	3.81	A
Mass flow	116	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		dB(A)
With accoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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 alterations 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, Superheat = 10 K
R513A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	18

Cooling capacity in W

10	5 114	6 290	7 713	-	-	-	-	-
20	4 598	5 691	7 007	8 568	10 397	-	-	-
30	4 076	5 078	6 278	7 701	9 370	11 304	-	-
40	3 547	4 451	5 528	6 805	8 305	10 051	12 064	13 406
50	-	3 809	4 756	5 879	7 203	8 754	10 556	11 766
60	-	-	3 962	4 923	6 064	7 413	8 996	10 070
70	-	-	-	3 938	4 888	6 027	7 386	8 320
73	-	-	-	3 636	4 528	5 603	6 893	7 785

Power input in W

10	1 018	1 032	1 051	-	-	-	-	-
20	1 253	1 263	1 281	1 306	1 336	-	-	-
30	1 546	1 551	1 566	1 590	1 622	1 661	-	-
40	1 913	1 911	1 921	1 943	1 975	2 016	2 066	2 099
50	-	2 359	2 362	2 379	2 409	2 451	2 503	2 540
60	-	-	2 905	2 916	2 942	2 982	3 035	3 073
70	-	-	-	3 567	3 588	3 624	3 676	3 715
73	-	-	-	3 788	3 806	3 841	3 893	3 931

Current consumption in A

10	2.94	2.94	2.96	-	-	-	-	-
20	3.07	3.06	3.08	3.11	3.13	-	-	-
30	3.30	3.28	3.29	3.32	3.35	3.38	-	-
40	3.63	3.60	3.61	3.63	3.67	3.71	3.74	3.75
50	-	4.06	4.05	4.07	4.11	4.16	4.20	4.22
60	-	-	4.64	4.65	4.69	4.74	4.79	4.82
70	-	-	-	5.40	5.43	5.48	5.54	5.57
73	-	-	-	5.65	5.68	5.73	5.79	5.83

Mass flow in kg/h

10	110	134	161	-	-	-	-	-
20	108	132	159	189	225	-	-	-
30	106	129	156	187	222	262	-	-
40	104	127	153	183	218	258	303	332
50	-	124	150	180	214	253	298	327
60	-	-	146	175	209	248	292	321
70	-	-	-	171	204	242	286	314
73	-	-	-	170	203	240	284	312

Coefficient of performance (C.O.P.)

10	5.02	6.09	7.34	-	-	-	-	-
20	3.67	4.50	5.47	6.56	7.78	-	-	-
30	2.64	3.27	4.01	4.84	5.78	6.80	-	-
40	1.85	2.33	2.88	3.50	4.21	4.99	5.84	6.39
50	-	1.61	2.01	2.47	2.99	3.57	4.22	4.63
60	-	-	1.36	1.69	2.06	2.49	2.96	3.28
70	-	-	-	1.10	1.36	1.66	2.01	2.24
73	-	-	-	0.96	1.19	1.46	1.77	1.98

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

Cooling capacity	4 132	W
Power input	2 123	W
Current consumption	3.81	A
Mass flow	125	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		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

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 alterations 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.