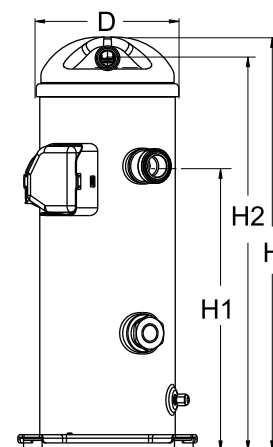


**General Characteristics**

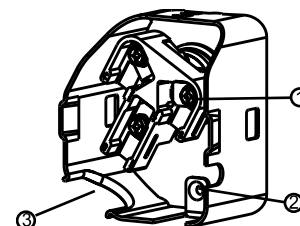
Model number (on compressor nameplate)		<b>MLZ048T4LQ9</b>
Code number for Singlepack*		121U8579
Code number for Industrial pack**		121U8578
Drawing number		0XR6298B-3
Suction and discharge connections		Rotolock
Suction connection		1-1/4 " Rotolock
Discharge connection		1-1/4 " Rotolock
Suction connection with supplied sleeve		7/8 " -
Discharge connection with supplied sleeve	- "	3/4 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		107,48 cm <sup>3</sup> /rev
Displacement @ Nominal speed		18.7 m <sup>3</sup> /h @ 2900 rpm - 22.6 m <sup>3</sup> /h @ 3500 rpm
Net weight		41 kg
Oil charge		1,57 litre, PVE - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		5,44 kg
Approved refrigerants		R404A, R507, R134a, R407A, R407C, R407F, R22

**Dimensions**


D=184 mm  
H=454,9 mm  
H1=280 mm  
H2=422,2 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	1.716 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.694 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.666 Ω
Rated Load Amps (RLA)	10.3 A
Maximum Continuous Current (MCC)	16 A
Locked Rotor Amps (LRA)	87 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52,5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

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

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

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

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

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

Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

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

Teflon seals, sleeves, nuts for discharge and suction (1"1/4 and 1"1/4)	120Z5076
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

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

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**
**Code no.**

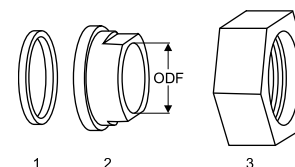
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012

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

Acoustic hood	120Z5044
Discharge thermostat kit	7750009

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

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
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**Gaskets, sleeves and nuts**


- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**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	9 980	12 007	14 386	17 158	-	-	-	-	-
20	9 371	11 382	13 734	16 467	19 617	-	-	-	-
30	8 186	10 125	12 374	14 974	17 966	21 383	25 254	-	-
40	7 278	9 097	11 196	13 617	16 404	19 593	23 217	-	-
50	-	8 049	9 951	12 149	14 685	17 601	20 934	-	-
60	-	-	-	10 325	12 565	15 162	18 159	-	-
68	-	-	-	-	-	12 726	15 419	-	-

**Power input in W**

16	2 339	2 338	2 327	2 325	-	-	-	-	-
20	2 645	2 652	2 644	2 639	2 656	-	-	-	-
30	3 321	3 358	3 366	3 362	3 366	3 395	3 469	-	-
40	3 992	4 071	4 106	4 115	4 117	4 130	4 173	-	-
50	-	4 942	5 016	5 050	5 063	5 072	5 097	-	-
60	-	-	-	6 321	6 355	6 373	6 390	-	-
68	-	-	-	-	-	7 773	7 794	-	-

**Current consumption in A**

16	4.50	4.50	4.48	4.47	-	-	-	-	-
20	5.09	5.10	5.09	5.08	5.11	-	-	-	-
30	6.39	6.46	6.48	6.47	6.48	6.53	6.68	-	-
40	7.68	7.83	7.90	7.92	7.92	7.95	8.03	-	-
50	-	9.51	9.65	9.72	9.74	9.76	9.81	-	-
60	-	-	-	12.16	12.23	12.26	12.30	-	-
68	-	-	-	-	-	14.96	15.00	-	-

**Mass flow in kg/h**

16	196	232	274	322	-	-	-	-	-
20	191	228	270	319	375	-	-	-	-
30	181	219	263	312	368	432	504	-	-
40	170	210	255	305	362	426	497	-	-
50	-	196	243	294	352	416	488	-	-
60	-	-	-	277	335	401	473	-	-
68	-	-	-	-	-	381	454	-	-

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

16	4.27	5.14	6.18	7.38	-	-	-	-	-
20	3.54	4.29	5.19	6.24	7.38	-	-	-	-
30	2.46	3.01	3.68	4.45	5.34	6.30	7.28	-	-
40	1.82	2.23	2.73	3.31	3.98	4.74	5.56	-	-
50	-	1.63	1.98	2.41	2.90	3.47	4.11	-	-
60	-	-	-	1.63	1.98	2.38	2.84	-	-
68	-	-	-	-	-	1.64	1.98	-	-

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

Cooling capacity	10 597	W
Power input	4 530	W
Current consumption	8.72	A
Mass flow	250	kg/h
C.O.P.	2.34	

**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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

**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	9 736	11 749	14 124	16 906	-	-	-	-	-
20	9 167	11 164	13 508	16 247	19 426	-	-	-	-
30	8 068	9 993	12 232	14 831	17 838	21 296	25 254	-	-
40	-	9 046	11 135	13 550	16 338	19 545	23 217	-	-
50	-	-	-	12 156	14 681	17 592	20 934	-	-
60	-	-	-	-	12 623	15 192	18 159	-	-
68	-	-	-	-	-	-	15 419	-	-

**Power input in W**

16	2 339	2 338	2 327	2 325	-	-	-	-	-
20	2 645	2 652	2 644	2 639	2 656	-	-	-	-
30	3 321	3 358	3 366	3 362	3 366	3 395	3 469	-	-
40	-	4 071	4 106	4 115	4 117	4 130	4 173	-	-
50	-	-	-	5 050	5 063	5 072	5 097	-	-
60	-	-	-	-	6 355	6 373	6 390	-	-
68	-	-	-	-	-	-	7 794	-	-

**Current consumption in A**

16	4.50	4.50	4.48	4.47	-	-	-	-	-
20	5.09	5.10	5.09	5.08	5.11	-	-	-	-
30	6.39	6.46	6.48	6.47	6.48	6.53	6.68	-	-
40	-	7.83	7.90	7.92	7.92	7.95	8.03	-	-
50	-	-	-	9.72	9.74	9.76	9.81	-	-
60	-	-	-	-	12.23	12.26	12.30	-	-
68	-	-	-	-	-	-	15.00	-	-

**Mass flow in kg/h**

16	172	208	251	301	-	-	-	-	-
20	168	204	247	298	357	-	-	-	-
30	159	197	240	291	351	421	504	-	-
40	-	189	233	285	345	415	497	-	-
50	-	-	-	275	336	406	488	-	-
60	-	-	-	-	320	391	473	-	-
68	-	-	-	-	-	-	454	-	-

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

16	4.16	5.03	6.07	7.27	-	-	-	-	-
20	3.47	4.21	5.11	6.16	7.31	-	-	-	-
30	2.43	2.98	3.63	4.41	5.30	6.27	7.28	-	-
40	-	2.22	2.71	3.29	3.97	4.73	5.56	-	-
50	-	-	-	2.41	2.90	3.47	4.11	-	-
60	-	-	-	-	1.99	2.38	2.84	-	-
68	-	-	-	-	-	-	1.98	-	-

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

Cooling capacity	10 576	W
Power input	4 530	W
Current consumption	8.72	A
Mass flow	228	kg/h
C.O.P.	2.33	

**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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

**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	6 427	8 086	10 061	12 360	14 992	-	-	-	-
30	5 889	7 457	9 334	11 528	14 046	16 897	-	-	-
40	5 202	6 628	8 354	10 386	12 734	15 405	18 406	-	-
50	-	5 766	7 308	9 148	11 294	13 753	16 533	-	-
60	-	-	6 214	7 830	9 741	11 956	14 483	-	-
70	-	-	-	6 448	8 093	10 032	12 273	-	-
73	-	-	-	6 023	7 582	9 433	11 582	-	-

**Power input in W**

22	1 741	1 769	1 798	1 824	1 847	-	-	-	-
30	2 084	2 117	2 149	2 177	2 200	2 215	-	-	-
40	2 575	2 620	2 661	2 696	2 723	2 740	2 746	-	-
50	-	3 214	3 270	3 318	3 355	3 379	3 390	-	-
60	-	-	3 992	4 058	4 111	4 149	4 170	-	-
70	-	-	-	4 934	5 008	5 065	5 103	-	-
73	-	-	-	5 225	5 307	5 371	5 416	-	-

**Current consumption in A**

22	3.35	3.40	3.46	3.51	3.56	-	-	-	-
30	4.01	4.07	4.14	4.19	4.23	4.26	-	-	-
40	4.96	5.04	5.12	5.19	5.24	5.27	5.28	-	-
50	-	6.19	6.29	6.38	6.46	6.50	6.52	-	-
60	-	-	7.68	7.81	7.91	7.98	8.03	-	-
70	-	-	-	9.49	9.64	9.75	9.82	-	-
73	-	-	-	10.06	10.21	10.34	10.42	-	-

**Mass flow in kg/h**

22	138	171	209	252	300	-	-	-	-
30	136	169	207	251	300	354	-	-	-
40	133	166	204	248	298	353	414	-	-
50	-	161	200	244	294	350	412	-	-
60	-	-	193	237	287	343	406	-	-
70	-	-	-	227	277	333	396	-	-
73	-	-	-	224	273	330	392	-	-

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

22	3.69	4.57	5.60	6.78	8.11	-	-	-	-
30	2.83	3.52	4.34	5.30	6.39	7.63	-	-	-
40	2.02	2.53	3.14	3.85	4.68	5.62	6.70	-	-
50	-	1.79	2.23	2.76	3.37	4.07	4.88	-	-
60	-	-	1.56	1.93	2.37	2.88	3.47	-	-
70	-	-	-	1.31	1.62	1.98	2.40	-	-
73	-	-	-	1.15	1.43	1.76	2.14	-	-

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

Cooling capacity	6 200	W
Power input	2 905	W
Current consumption	5.59	A
Mass flow	164	kg/h
C.O.P.	2.13	

**Pressure switch settings**

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

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

**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	6 530	8 180	10 138	12 413	15 016	-	-	-	-
30	-	7 595	9 454	11 617	14 093	16 897	-	-	-
40	-	-	8 526	10 520	12 810	15 405	18 320	-	-
50	-	-	7 530	9 326	11 398	13 753	16 401	-	-
60	-	-	-	8 049	9 872	11 956	-	-	-
70	-	-	-	-	8 249	10 032	-	-	-
73	-	-	-	-	7 746	9 433	-	-	-

**Power input in W**

22	1 741	1 769	1 798	1 824	1 847	-	-	-	-
30	-	2 117	2 149	2 177	2 200	2 215	-	-	-
40	-	-	2 661	2 696	2 723	2 740	2 746	-	-
50	-	-	3 270	3 318	3 355	3 379	3 390	-	-
60	-	-	-	4 058	4 111	4 149	-	-	-
70	-	-	-	-	5 008	5 065	-	-	-
73	-	-	-	-	5 307	5 371	-	-	-

**Current consumption in A**

22	3.35	3.40	3.46	3.51	3.56	-	-	-	-
30	-	4.07	4.14	4.19	4.23	4.26	-	-	-
40	-	-	5.12	5.19	5.24	5.27	5.28	-	-
50	-	-	6.29	6.38	6.46	6.50	6.52	-	-
60	-	-	-	7.81	7.91	7.98	-	-	-
70	-	-	-	-	9.64	9.75	-	-	-
73	-	-	-	-	10.21	10.34	-	-	-

**Mass flow in kg/h**

22	124	157	195	240	293	-	-	-	-
30	-	155	194	240	293	354	-	-	-
40	-	-	191	237	291	353	425	-	-
50	-	-	187	233	287	350	423	-	-
60	-	-	-	226	280	343	-	-	-
70	-	-	-	-	271	333	-	-	-
73	-	-	-	-	267	330	-	-	-

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

22	3.75	4.62	5.64	6.80	8.13	-	-	-	-
30	-	3.59	4.40	5.34	6.41	7.63	-	-	-
40	-	-	3.20	3.90	4.70	5.62	6.67	-	-
50	-	-	2.30	2.81	3.40	4.07	4.84	-	-
60	-	-	-	1.98	2.40	2.88	-	-	-
70	-	-	-	-	1.65	1.98	-	-	-
73	-	-	-	-	1.46	1.76	-	-	-

**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)

All performance data +/- 5%

**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	7 769	9 456	11 473	13 852	16 626	-	-	-	-
20	7 030	8 707	10 671	12 955	15 592	18 617	22 062	-	-
30	6 085	7 697	9 552	11 685	14 129	16 918	20 084	23 662	27 686
40	-	6 476	8 168	10 094	12 289	14 785	17 617	20 819	24 422
50	-	-	6 569	8 232	10 122	12 271	14 713	17 481	20 610
60	-	-	-	-	7 680	9 426	11 422	13 702	16 299

**Power input in W**

10	2 254	2 216	2 184	2 157	2 135	-	-	-	-
20	2 989	2 952	2 918	2 888	2 861	2 837	2 815	-	-
30	3 825	3 803	3 782	3 762	3 743	3 724	3 707	3 690	3 673
40	-	4 777	4 782	4 786	4 789	4 790	4 789	4 787	4 783
50	-	-	5 928	5 970	6 007	6 041	6 072	6 098	6 120
60	-	-	-	-	7 407	7 488	7 562	7 630	7 693

**Current consumption in A**

10	6.62	6.54	6.48	6.40	6.29	-	-	-	-
20	7.47	7.46	7.46	7.47	7.46	7.43	7.36	-	-
30	8.18	8.18	8.22	8.26	8.31	8.34	8.35	8.31	8.22
40	-	9.15	9.17	9.21	9.26	9.31	9.35	9.36	9.32
50	-	-	10.76	10.75	10.76	10.78	10.80	10.81	10.78
60	-	-	-	-	13.23	13.18	13.14	13.09	13.03

**Mass flow in kg/h**

10	155	192	234	284	342	-	-	-	-
20	154	193	237	289	350	422	506	-	-
30	147	188	234	288	351	424	510	611	728
40	-	177	225	279	343	418	506	608	727
50	-	-	208	263	327	403	492	595	714
60	-	-	-	-	302	378	467	570	690

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

10	3.45	4.27	5.25	6.42	7.79	-	-	-	-
20	2.35	2.95	3.66	4.49	5.45	6.56	7.84	-	-
30	1.59	2.02	2.53	3.11	3.78	4.54	5.42	6.41	7.54
40	-	1.36	1.71	2.11	2.57	3.09	3.68	4.35	5.11
50	-	-	1.11	1.38	1.68	2.03	2.42	2.87	3.37
60	-	-	-	-	1.04	1.26	1.51	1.80	2.12

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

Cooling capacity	11 243	W
Power input	5 376	W
Current consumption	9.91	A
Mass flow	336	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	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

**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	7 465	9 152	11 179	13 585	16 404	-	-	-	-
20	6 610	8 269	10 231	12 534	15 216	18 312	21 852	-	-
30	5 565	7 134	8 970	11 112	13 597	16 465	19 751	23 484	27 686
40	4 392	5 810	7 459	9 378	11 608	14 188	17 161	20 561	24 422
50	-	-	5 762	7 397	9 309	11 540	14 137	17 145	20 610
60	-	-	-	-	6 759	8 575	10 732	13 286	16 299

**Power input in W**

10	2 254	2 216	2 184	2 157	2 135	-	-	-	-
20	2 989	2 952	2 918	2 888	2 861	2 837	2 815	-	-
30	3 825	3 803	3 782	3 762	3 743	3 724	3 707	3 690	3 673
40	4 771	4 777	4 782	4 786	4 789	4 790	4 789	4 787	4 783
50	-	-	5 928	5 970	6 007	6 041	6 072	6 098	6 120
60	-	-	-	-	7 407	7 488	7 562	7 630	7 693

**Current consumption in A**

10	6.62	6.54	6.48	6.40	6.29	-	-	-	-
20	7.47	7.46	7.46	7.47	7.46	7.43	7.36	-	-
30	8.18	8.18	8.22	8.26	8.31	8.34	8.35	8.31	8.22
40	9.18	9.15	9.17	9.21	9.26	9.31	9.35	9.36	9.32
50	-	-	10.76	10.75	10.76	10.78	10.80	10.81	10.78
60	-	-	-	-	13.23	13.18	13.14	13.09	13.03

**Mass flow in kg/h**

10	185	225	269	320	378	-	-	-	-
20	183	225	272	326	386	456	534	-	-
30	176	220	269	324	387	458	539	629	728
40	162	207	258	315	379	452	534	626	727
50	-	-	239	296	361	436	519	612	714
60	-	-	-	-	334	409	493	587	690

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

10	3.31	4.13	5.12	6.30	7.68	-	-	-	-
20	2.21	2.80	3.51	4.34	5.32	6.46	7.76	-	-
30	1.46	1.88	2.37	2.95	3.63	4.42	5.33	6.37	7.54
40	0.92	1.22	1.56	1.96	2.42	2.96	3.58	4.30	5.11
50	-	-	0.97	1.24	1.55	1.91	2.33	2.81	3.37
60	-	-	-	-	0.91	1.15	1.42	1.74	2.12

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

Cooling capacity	10 493	W
Power input	5 376	W
Current consumption	9.91	A
Mass flow	371	kg/h
C.O.P.	1.95	

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)

All performance data +/- 5%



**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	9 543	10 932	13 583	16 701	-	-	-	-	-
20	8 403	9 710	12 198	15 123	18 537	22 494	-	-	-
30	7 185	8 396	10 700	13 408	16 575	20 252	24 495	29 357	-
40	5 905	7 007	9 105	11 575	14 471	17 846	21 755	26 252	-
45	-	-	8 276	10 619	13 371	16 587	20 321	24 626	-
50	-	-	-	9 639	12 242	15 293	18 846	22 955	-
55	-	-	-	-	11 086	13 967	17 334	21 240	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	2 438	2 467	2 481	2 435	-	-	-	-	-
20	2 978	3 020	3 079	3 107	3 084	2 988	-	-	-
30	3 715	3 740	3 795	3 849	3 881	3 871	3 798	3 642	-
40	4 775	4 753	4 755	4 786	4 825	4 851	4 845	4 785	-
45	-	-	5 365	5 366	5 390	5 417	5 426	5 396	-
50	-	-	-	6 043	6 040	6 054	6 065	6 053	-
55	-	-	-	-	6 788	6 778	6 780	6 773	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	6.93	6.93	6.93	6.93	-	-	-	-	-
20	7.36	7.37	7.38	7.39	7.41	7.42	-	-	-
30	8.08	8.09	8.11	8.14	8.16	8.18	8.19	8.21	-
40	9.15	9.17	9.20	9.22	9.25	9.28	9.30	9.32	-
45	-	-	9.89	9.92	9.95	9.98	10.00	10.02	-
50	-	-	-	10.73	10.76	10.79	10.81	10.83	-
55	-	-	-	-	11.69	11.72	11.74	11.76	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	167	190	233	283	-	-	-	-	-
20	158	182	225	275	333	399	-	-	-
30	148	171	215	265	323	390	466	552	-
40	134	157	201	251	310	377	453	540	-
45	-	-	192	243	301	368	445	532	-
50	-	-	-	234	292	359	436	523	-
55	-	-	-	-	282	349	426	513	-
60	-	-	-	-	-	-	-	-	-

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

10	3.91	4.43	5.47	6.86	-	-	-	-	-
20	2.82	3.22	3.96	4.87	6.01	7.53	-	-	-
30	1.93	2.24	2.82	3.48	4.27	5.23	6.45	8.06	-
40	1.24	1.47	1.91	2.42	3.00	3.68	4.49	5.49	-
45	-	-	1.54	1.98	2.48	3.06	3.75	4.56	-
50	-	-	-	1.60	2.03	2.53	3.11	3.79	-
55	-	-	-	-	1.63	2.06	2.56	3.14	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	10 619	W
Power input	5 366	W
Current consumption	9.92	A
Mass flow	243	kg/h
C.O.P.	1.98	

**Pressure switch settings**

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

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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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	10 086	11 548	14 338	17 618	-	-	-	-	-
20	8 935	10 318	12 952	16 044	19 651	23 829	-	-	-
30	7 698	8 989	11 445	14 328	17 694	21 601	26 105	31 261	-
40	-	7 576	9 832	12 485	15 590	19 206	23 389	28 195	-
45	-	-	8 992	11 521	14 489	17 952	21 968	26 593	-
50	-	-	-	10 533	13 359	16 666	20 511	24 951	-
55	-	-	-	-	-	15 353	19 025	23 279	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 438	2 467	2 481	2 435	-	-	-	-	-
20	2 978	3 020	3 079	3 107	3 084	2 988	-	-	-
30	3 715	3 740	3 795	3 849	3 881	3 871	3 798	3 642	-
40	-	4 753	4 755	4 786	4 825	4 851	4 845	4 785	-
45	-	-	5 365	5 366	5 390	5 417	5 426	5 396	-
50	-	-	-	6 043	6 040	6 054	6 065	6 053	-
55	-	-	-	-	-	6 778	6 780	6 773	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	6.93	6.93	6.93	6.93	-	-	-	-	-
20	7.36	7.37	7.38	7.39	7.41	7.42	-	-	-
30	8.08	8.09	8.11	8.14	8.16	8.18	8.19	8.21	-
40	-	9.17	9.20	9.22	9.25	9.28	9.30	9.32	-
45	-	-	9.89	9.92	9.95	9.98	10.00	10.02	-
50	-	-	-	10.73	10.76	10.79	10.81	10.83	-
55	-	-	-	-	-	11.72	11.74	11.76	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	166	189	231	281	-	-	-	-	-
20	158	181	224	274	331	397	-	-	-
30	147	170	213	264	321	387	463	549	-
40	-	156	200	250	308	374	450	536	-
45	-	-	191	242	300	366	442	528	-
50	-	-	-	232	290	357	433	520	-
55	-	-	-	-	-	347	423	509	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.14	4.68	5.78	7.24	-	-	-	-	-
20	3.00	3.42	4.21	5.16	6.37	7.97	-	-	-
30	2.07	2.40	3.02	3.72	4.56	5.58	6.87	8.58	-
40	-	1.59	2.07	2.61	3.23	3.96	4.83	5.89	-
45	-	-	1.68	2.15	2.69	3.31	4.05	4.93	-
50	-	-	-	1.74	2.21	2.75	3.38	4.12	-
55	-	-	-	-	-	2.26	2.81	3.44	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	11 521	W
Power input	5 366	W
Current consumption	9.92	A
Mass flow	242	kg/h
C.O.P.	2.15	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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