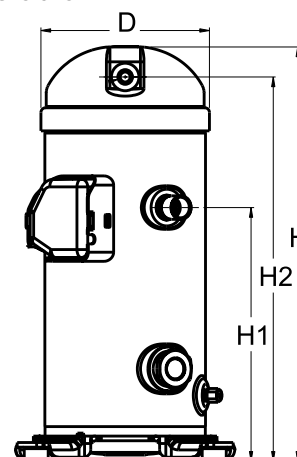


**General Characteristics**

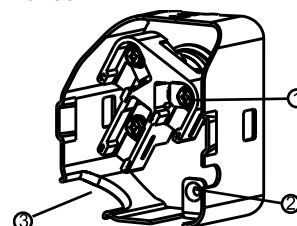
Model number (on compressor nameplate)		<b>MLZ042T5LC9</b>
Code number for Singlepack*		121U8419
Code number for Industrial pack**		121U8418
Drawing number		0XR6025B-2
Suction and discharge connections		Brazed
Suction connection		7/8" ODF
Discharge connection		1/2" ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		32 bar
Swept volume		93,09 cm <sup>3</sup> /rev
Displacement @ Nominal speed		16.2 m <sup>3</sup> /h @ 2900 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=455 mm  
H1=280 mm  
H2=422 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage		220-240V/1/50Hz
Voltage range		220-240 V
Winding resistance (main / start) at 25°C		0,39 Ω / 1,019 Ω
Run capacitors A + C		55 μF + - μF
Start capacitor B		88-109 μF
Start relay		RVA4GKL
Rated Load Amps (RLA)		28.6 A
Maximum Continuous Current (MCC)		40 A
Locked Rotor Amps (LRA)		130 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.**

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

**Rotolock accessories, sets**

**Code no.**

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

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

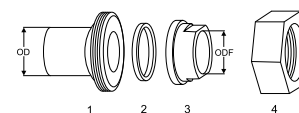
Acoustic hood	120Z5044
Discharge thermostat kit	7750009

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
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**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	10 912	11 341	12 835	15 284	-	-	-	-	-
20	10 375	10 769	12 158	14 433	17 485	-	-	-	-
30	9 170	9 620	10 888	12 870	15 463	18 559	22 046	-	-
40	7 727	8 435	9 784	11 676	14 013	16 690	19 602	-	-
50	-	6 678	8 306	10 310	12 592	15 054	17 591	-	-
60	-	-	-	8 240	10 666	13 112	15 478	-	-
68	-	-	-	-	-	10 979	13 351	-	-

**Power input in W**

16	2 375	2 256	2 240	2 310	-	-	-	-	-
20	2 591	2 469	2 444	2 500	2 622	-	-	-	-
30	3 176	3 051	3 009	3 034	3 112	3 227	3 362	-	-
40	3 929	3 805	3 752	3 753	3 793	3 856	3 927	-	-
50	-	4 859	4 800	4 783	4 791	4 808	4 820	-	-
60	-	-	-	6 249	6 231	6 209	6 168	-	-
68	-	-	-	-	-	7 738	7 659	-	-

**Current consumption in A**

16	11.99	11.39	11.31	11.67	-	-	-	-	-
20	13.08	12.47	12.34	12.63	13.24	-	-	-	-
30	16.04	15.41	15.19	15.32	15.72	16.30	16.98	-	-
40	19.84	19.22	18.95	18.96	19.16	19.48	19.83	-	-
50	-	24.54	24.24	24.16	24.20	24.29	24.34	-	-
60	-	-	-	31.56	31.47	31.36	31.15	-	-
68	-	-	-	-	-	39.08	38.68	-	-

**Mass flow in kg/h**

16	222	221	244	286	-	-	-	-	-
20	213	212	234	274	329	-	-	-	-
30	198	200	222	260	310	369	434	-	-
40	182	190	216	255	304	360	418	-	-
50	-	169	202	246	297	352	408	-	-
60	-	-	-	218	276	334	391	-	-
68	-	-	-	-	-	302	363	-	-

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

16	4.60	5.03	5.73	6.62	-	-	-	-	-
20	4.00	4.36	4.97	5.77	6.67	-	-	-	-
30	2.89	3.15	3.62	4.24	4.97	5.75	6.56	-	-
40	1.97	2.22	2.61	3.11	3.69	4.33	4.99	-	-
50	-	1.37	1.73	2.16	2.63	3.13	3.65	-	-
60	-	-	-	1.32	1.71	2.11	2.51	-	-
68	-	-	-	-	-	1.42	1.74	-	-

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

Cooling capacity	9 125	W
Power input	4 230	W
Current consumption	21.37	A
Mass flow	211	kg/h
C.O.P.	2.16	

**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	10 646	11 099	12 601	15 059	-	-	-	-	-
20	10 149	10 562	11 958	14 240	17 315	-	-	-	-
30	9 038	9 495	10 763	12 747	15 352	18 484	22 046	-	-
40	-	8 387	9 730	11 618	13 956	16 649	19 602	-	-
50	-	-	-	10 317	12 590	15 046	17 591	-	-
60	-	-	-	-	10 715	13 137	15 478	-	-
68	-	-	-	-	-	-	13 351	-	-

**Power input in W**

16	2 375	2 256	2 240	2 310	-	-	-	-	-
20	2 591	2 469	2 444	2 500	2 622	-	-	-	-
30	3 176	3 051	3 009	3 034	3 112	3 227	3 362	-	-
40	-	3 805	3 752	3 753	3 793	3 856	3 927	-	-
50	-	-	-	4 783	4 791	4 808	4 820	-	-
60	-	-	-	-	6 231	6 209	6 168	-	-
68	-	-	-	-	-	-	7 659	-	-

**Current consumption in A**

16	11.99	11.39	11.31	11.67	-	-	-	-	-
20	13.08	12.47	12.34	12.63	13.24	-	-	-	-
30	16.04	15.41	15.19	15.32	15.72	16.30	16.98	-	-
40	-	19.22	18.95	18.96	19.16	19.48	19.83	-	-
50	-	-	-	24.16	24.20	24.29	24.34	-	-
60	-	-	-	-	31.47	31.36	31.15	-	-
68	-	-	-	-	-	-	38.68	-	-

**Mass flow in kg/h**

16	195	198	223	267	-	-	-	-	-
20	187	190	214	256	314	-	-	-	-
30	174	179	203	243	296	360	434	-	-
40	-	171	198	238	290	351	418	-	-
50	-	-	-	230	283	344	408	-	-
60	-	-	-	-	263	326	391	-	-
68	-	-	-	-	-	-	363	-	-

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

16	4.48	4.92	5.63	6.52	-	-	-	-	-
20	3.92	4.28	4.89	5.70	6.60	-	-	-	-
30	2.85	3.11	3.58	4.20	4.93	5.73	6.56	-	-
40	-	2.20	2.59	3.10	3.68	4.32	4.99	-	-
50	-	-	-	2.16	2.63	3.13	3.65	-	-
60	-	-	-	-	1.72	2.12	2.51	-	-
68	-	-	-	-	-	-	1.74	-	-

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

Cooling capacity	9 107	W
Power input	4 230	W
Current consumption	21.37	A
Mass flow	193	kg/h
C.O.P.	2.15	

**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	5 428	6 966	8 669	10 579	12 740	-	-	-	-
30	5 003	6 498	8 143	9 981	12 055	14 408	-	-	-
40	4 322	5 751	7 312	9 048	11 001	13 216	15 733	-	-
50	-	4 883	6 346	7 966	9 786	11 848	14 194	-	-
60	-	-	5 307	6 798	8 470	10 366	12 529	-	-
70	-	-	-	5 605	7 116	8 832	10 797	-	-
73	-	-	-	5 251	6 711	8 371	10 274	-	-

**Power input in W**

22	1 823	1 878	1 921	1 971	2 043	-	-	-	-
30	2 074	2 148	2 195	2 234	2 281	2 353	-	-	-
40	2 413	2 527	2 598	2 642	2 676	2 716	2 779	-	-
50	-	2 962	3 077	3 146	3 187	3 216	3 250	-	-
60	-	-	3 640	3 755	3 823	3 862	3 887	-	-
70	-	-	-	4 479	4 595	4 663	4 700	-	-
73	-	-	-	4 720	4 854	4 935	4 980	-	-

**Current consumption in A**

22	9.75	10.04	10.28	10.54	10.93	-	-	-	-
30	11.09	11.48	11.74	11.95	12.20	12.58	-	-	-
40	12.90	13.51	13.89	14.13	14.31	14.52	14.86	-	-
50	-	15.84	16.45	16.82	17.04	17.20	17.38	-	-
60	-	-	19.47	20.08	20.45	20.65	20.79	-	-
70	-	-	-	23.95	24.57	24.94	25.13	-	-
73	-	-	-	25.24	25.96	26.39	26.63	-	-

**Mass flow in kg/h**

22	117	149	182	217	255	-	-	-	-
30	116	148	182	219	258	302	-	-	-
40	110	144	179	217	258	303	354	-	-
50	-	136	173	212	254	301	353	-	-
60	-	-	164	205	249	297	351	-	-
70	-	-	-	197	242	292	348	-	-
73	-	-	-	194	240	291	347	-	-

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

22	2.98	3.71	4.51	5.37	6.24	-	-	-	-
30	2.41	3.03	3.71	4.47	5.28	6.12	-	-	-
40	1.79	2.28	2.81	3.42	4.11	4.87	5.66	-	-
50	-	1.65	2.06	2.53	3.07	3.68	4.37	-	-
60	-	-	1.46	1.81	2.22	2.68	3.22	-	-
70	-	-	-	1.25	1.55	1.89	2.30	-	-
73	-	-	-	1.11	1.38	1.70	2.06	-	-

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

Cooling capacity	5 328	W
Power input	2 737	W
Current consumption	14.64	A
Mass flow	140	kg/h
C.O.P.	1.95	

**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	5 515	7 047	8 736	10 625	12 762	-	-	-	-
30	-	6 618	8 247	10 058	12 096	14 408	-	-	-
40	-	-	7 462	9 164	11 067	13 216	15 659	-	-
50	-	-	6 539	8 121	9 876	11 848	14 081	-	-
60	-	-	-	6 988	8 584	10 366	-	-	-
70	-	-	-	-	7 253	8 832	-	-	-
73	-	-	-	-	6 856	8 371	-	-	-

**Power input in W**

22	1 823	1 878	1 921	1 971	2 043	-	-	-	-
30	-	2 148	2 195	2 234	2 281	2 353	-	-	-
40	-	-	2 598	2 642	2 676	2 716	2 779	-	-
50	-	-	3 077	3 146	3 187	3 216	3 250	-	-
60	-	-	-	3 755	3 823	3 862	-	-	-
70	-	-	-	-	4 595	4 663	-	-	-
73	-	-	-	-	4 854	4 935	-	-	-

**Current consumption in A**

22	9.75	10.04	10.28	10.54	10.93	-	-	-	-
30	-	11.48	11.74	11.95	12.20	12.58	-	-	-
40	-	-	13.89	14.13	14.31	14.52	14.86	-	-
50	-	-	16.45	16.82	17.04	17.20	17.38	-	-
60	-	-	-	20.08	20.45	20.65	-	-	-
70	-	-	-	-	24.57	24.94	-	-	-
73	-	-	-	-	25.96	26.39	-	-	-

**Mass flow in kg/h**

22	105	137	170	207	249	-	-	-	-
30	-	136	171	209	252	302	-	-	-
40	-	-	168	207	252	303	363	-	-
50	-	-	162	202	248	301	363	-	-
60	-	-	-	196	243	297	-	-	-
70	-	-	-	-	237	292	-	-	-
73	-	-	-	-	235	291	-	-	-

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

22	3.03	3.75	4.55	5.39	6.25	-	-	-	-
30	-	3.08	3.76	4.50	5.30	6.12	-	-	-
40	-	-	2.87	3.47	4.14	4.87	5.63	-	-
50	-	-	2.13	2.58	3.10	3.68	4.33	-	-
60	-	-	-	1.86	2.25	2.68	-	-	-
70	-	-	-	-	1.58	1.89	-	-	-
73	-	-	-	-	1.41	1.70	-	-	-

**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	6 596	8 525	10 692	13 160	15 990	-	-	-	-
20	5 508	7 219	9 132	11 306	13 805	16 689	20 019	-	-
30	4 784	6 285	7 948	9 834	12 006	14 526	17 454	20 851	24 778
40	-	5 483	6 902	8 506	10 357	12 517	15 049	18 012	21 469
50	-	-	5 757	7 084	8 620	10 427	12 567	15 103	18 096
60	-	-	-	-	6 555	8 015	9 770	11 885	14 422

**Power input in W**

10	1 620	1 805	1 970	2 104	2 196	-	-	-	-
20	2 395	2 535	2 672	2 794	2 891	2 950	2 961	-	-
30	3 161	3 238	3 328	3 420	3 503	3 565	3 595	3 581	3 512
40	-	4 119	4 143	4 187	4 237	4 284	4 314	4 318	4 282
50	-	-	5 324	5 299	5 299	5 311	5 324	5 326	5 305
60	-	-	-	-	6 894	6 852	6 829	6 810	6 786

**Current consumption in A**

10	12.11	12.00	11.95	11.93	11.93	-	-	-	-
20	14.41	14.48	14.58	14.71	14.85	15.00	15.14	-	-
30	16.71	16.88	17.06	17.26	17.47	17.67	17.85	18.00	18.13
40	-	20.08	20.28	20.48	20.67	20.85	20.99	21.10	21.16
50	-	-	25.11	25.24	25.35	25.42	25.46	25.45	25.37
60	-	-	-	-	32.37	32.28	32.13	31.92	31.64

**Mass flow in kg/h**

10	-206	-21	124	244	352	-	-	-	-
20	-128	20	131	217	294	373	468	-	-
30	-53	68	153	216	270	328	405	513	665
40	-	97	166	214	256	303	370	470	617
50	-	-	144	188	226	272	340	441	591
60	-	-	-	-	157	211	288	401	564

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

10	4.07	4.72	5.43	6.26	7.28	-	-	-	-
20	2.30	2.85	3.42	4.05	4.78	5.66	6.76	-	-
30	1.51	1.94	2.39	2.88	3.43	4.07	4.85	5.82	7.05
40	-	1.33	1.67	2.03	2.44	2.92	3.49	4.17	5.01
50	-	-	1.08	1.34	1.63	1.96	2.36	2.84	3.41
60	-	-	-	-	0.95	1.17	1.43	1.75	2.13

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

Cooling capacity	9 514	W
Power input	4 715	W
Current consumption	22.77	A
Mass flow	244	kg/h
C.O.P.	2.02	

**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	6 339	8 250	10 418	12 906	15 776	-	-	-	-
20	5 179	6 856	8 755	10 939	13 472	16 416	19 829	-	-
30	4 375	5 825	7 463	9 351	11 554	14 138	17 164	20 695	24 778
40	3 689	4 920	6 303	7 903	9 783	12 012	14 659	17 790	21 469
50	-	-	5 051	6 365	7 927	9 806	12 075	14 813	18 096
60	-	-	-	-	5 769	7 292	9 181	11 525	14 422

**Power input in W**

10	1 620	1 805	1 970	2 104	2 196	-	-	-	-
20	2 395	2 535	2 672	2 794	2 891	2 950	2 961	-	-
30	3 161	3 238	3 328	3 420	3 503	3 565	3 595	3 581	3 512
40	4 124	4 119	4 143	4 187	4 237	4 284	4 314	4 318	4 282
50	-	-	5 324	5 299	5 299	5 311	5 324	5 326	5 305
60	-	-	-	-	6 894	6 852	6 829	6 810	6 786

**Current consumption in A**

10	12.11	12.00	11.95	11.93	11.93	-	-	-	-
20	14.41	14.48	14.58	14.71	14.85	15.00	15.14	-	-
30	16.71	16.88	17.06	17.26	17.47	17.67	17.85	18.00	18.13
40	19.89	20.08	20.28	20.48	20.67	20.85	20.99	21.10	21.16
50	-	-	25.11	25.24	25.35	25.42	25.46	25.45	25.37
60	-	-	-	-	32.37	32.28	32.13	31.92	31.64

**Mass flow in kg/h**

10	-245	-25	142	275	388	-	-	-	-
20	-152	24	150	245	324	403	494	-	-
30	-63	79	176	243	298	355	428	528	665
40	-8	113	190	241	282	328	391	484	617
50	-	-	166	212	250	294	359	454	591
60	-	-	-	-	173	228	304	413	564

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

10	3.91	4.57	5.29	6.14	7.19	-	-	-	-
20	2.16	2.70	3.28	3.91	4.66	5.56	6.70	-	-
30	1.38	1.80	2.24	2.73	3.30	3.97	4.77	5.78	7.05
40	0.89	1.19	1.52	1.89	2.31	2.80	3.40	4.12	5.01
50	-	-	0.95	1.20	1.50	1.85	2.27	2.78	3.41
60	-	-	-	-	0.84	1.06	1.34	1.69	2.13

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

Cooling capacity	8 880	W
Power input	4 715	W
Current consumption	22.77	A
Mass flow	270	kg/h
C.O.P.	1.88	

**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 = 10 K , Subcooling = 0 K

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	7 756	8 899	11 102	13 715	-	-	-	-	-
20	6 931	7 999	10 050	12 481	15 340	18 673	-	-	-
30	6 077	7 056	8 937	11 168	13 796	16 868	20 432	24 533	-
40	5 203	6 084	7 776	9 788	12 167	14 960	18 214	21 975	-
45	-	-	7 181	9 077	11 325	13 971	17 062	20 647	-
50	-	-	-	8 353	10 465	12 960	15 885	19 288	-
55	-	-	-	-	9 589	11 929	14 683	17 900	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	2 362	2 378	2 413	2 472	-	-	-	-	-
20	2 781	2 796	2 817	2 842	2 886	2 962	-	-	-
30	3 371	3 401	3 430	3 445	3 461	3 490	3 546	3 642	-
40	4 162	4 219	4 280	4 309	4 320	4 325	4 339	4 375	-
45	-	-	4 803	4 848	4 865	4 867	4 869	4 883	-
50	-	-	-	5 462	5 491	5 497	5 492	5 491	-
55	-	-	-	-	6 203	6 217	6 212	6 201	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	13.84	14.12	14.41	14.53	-	-	-	-	-
20	15.33	15.59	15.87	15.98	15.99	15.96	-	-	-
30	17.08	17.34	17.61	17.72	17.74	17.72	17.72	17.79	-
40	19.74	20.00	20.27	20.40	20.43	20.44	20.46	20.57	-
45	-	-	22.15	22.29	22.34	22.35	22.40	22.53	-
50	-	-	-	24.65	24.72	24.75	24.82	24.97	-
55	-	-	-	-	27.65	27.71	27.80	27.98	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	135	154	190	232	-	-	-	-	-
20	131	150	186	227	276	332	-	-	-
30	125	144	179	221	269	325	389	461	-
40	118	136	171	213	260	316	379	452	-
45	-	-	167	208	255	310	374	446	-
50	-	-	-	203	250	304	367	439	-
55	-	-	-	-	244	298	361	432	-
60	-	-	-	-	-	-	-	-	-

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

10	3.28	3.74	4.60	5.55	-	-	-	-	-
20	2.49	2.86	3.57	4.39	5.31	6.30	-	-	-
30	1.80	2.08	2.61	3.24	3.99	4.83	5.76	6.74	-
40	1.25	1.44	1.82	2.27	2.82	3.46	4.20	5.02	-
45	-	-	1.50	1.87	2.33	2.87	3.50	4.23	-
50	-	-	-	1.53	1.91	2.36	2.89	3.51	-
55	-	-	-	-	1.55	1.92	2.36	2.89	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	9 077	W
Power input	4 848	W
Current consumption	22.29	A
Mass flow	208	kg/h
C.O.P.	1.87	

**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	8 197	9 401	11 719	14 468	-	-	-	-	-
20	7 370	8 500	10 671	13 241	16 262	19 780	-	-	-
30	6 510	7 555	9 559	11 934	14 728	17 992	21 774	26 124	-
40	-	6 578	8 397	10 558	13 109	16 100	19 581	23 602	-
45	-	-	7 802	9 849	12 272	15 121	18 445	22 296	-
50	-	-	-	9 129	11 420	14 123	17 288	20 966	-
55	-	-	-	-	-	13 112	16 115	19 618	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 362	2 378	2 413	2 472	-	-	-	-	-
20	2 781	2 796	2 817	2 842	2 886	2 962	-	-	-
30	3 371	3 401	3 430	3 445	3 461	3 490	3 546	3 642	-
40	-	4 219	4 280	4 309	4 320	4 325	4 339	4 375	-
45	-	-	4 803	4 848	4 865	4 867	4 869	4 883	-
50	-	-	-	5 462	5 491	5 497	5 492	5 491	-
55	-	-	-	-	-	6 217	6 212	6 201	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	13.84	14.12	14.41	14.53	-	-	-	-	-
20	15.33	15.59	15.87	15.98	15.99	15.96	-	-	-
30	17.08	17.34	17.61	17.72	17.74	17.72	17.72	17.79	-
40	-	20.00	20.27	20.40	20.43	20.44	20.46	20.57	-
45	-	-	22.15	22.29	22.34	22.35	22.40	22.53	-
50	-	-	-	24.65	24.72	24.75	24.82	24.97	-
55	-	-	-	-	-	27.71	27.80	27.98	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	135	154	189	231	-	-	-	-	-
20	130	149	184	226	274	330	-	-	-
30	124	143	178	219	267	323	386	458	-
40	-	136	171	211	259	314	377	449	-
45	-	-	166	207	254	308	371	443	-
50	-	-	-	201	248	303	365	437	-
55	-	-	-	-	-	296	358	429	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.47	3.95	4.86	5.85	-	-	-	-	-
20	2.65	3.04	3.79	4.66	5.63	6.68	-	-	-
30	1.93	2.22	2.79	3.46	4.26	5.16	6.14	7.17	-
40	-	1.56	1.96	2.45	3.03	3.72	4.51	5.39	-
45	-	-	1.62	2.03	2.52	3.11	3.79	4.57	-
50	-	-	-	1.67	2.08	2.57	3.15	3.82	-
55	-	-	-	-	-	2.11	2.59	3.16	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	9 849	W
Power input	4 848	W
Current consumption	22.29	A
Mass flow	207	kg/h
C.O.P.	2.03	

Pressure switch settings

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

Sound power data

Sound power level	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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