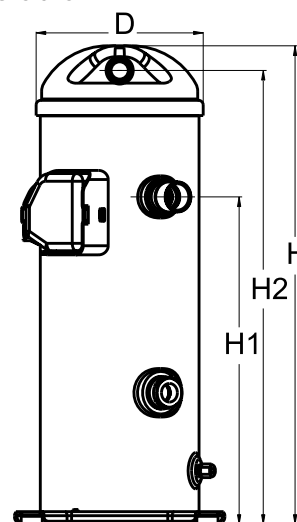


**General Characteristics**

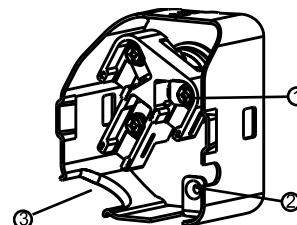
Model number (on compressor nameplate)	MLZ058T4LC9	MLZ058T4LC9
Code number for Singlepack*	121U8018	120U8018
Code number for Industrial pack**	121U8017	120U8017
Drawing number	0SR6167B-2	0SR6167B-2
Suction and discharge connections	Brazed	Brazed
Suction connection	1-1/8" ODF	1-1/8" ODF
Discharge connection	7/8" ODF	7/8" 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	None	None
Swept volume	125,95 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	21.9 m <sup>3</sup> /h @ 2900 rpm - 26.4 m <sup>3</sup> /h @ 3500 rpm	
Net weight	47 kg	
Oil charge	2,66 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	7,26 kg	
Approved refrigerants	R404A, R507, R134a, R407A, R407C, R407F, R22	

**Dimensions**


D=185 mm  
H=536 mm  
H1=369 mm  
H2=509 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	1.389 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.389 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.389 Ω
Rated Load Amps (RLA)	12.8 A
Maximum Continuous Current (MCC)	20 A
Locked Rotor Amps (LRA)	95 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**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
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.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

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

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

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

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
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.**

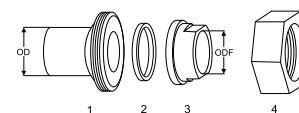
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012

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

Acoustic hood	120Z5045
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	10 935	13 583	16 650	20 171	-	-	-	-	-
20	10 397	12 955	15 930	19 358	23 271	-	-	-	-
30	9 370	11 691	14 424	17 606	21 271	25 449	30 158	-	-
40	8 516	10 585	13 060	15 979	19 382	23 298	27 755	-	-
50	-	9 296	11 497	14 139	17 262	20 903	25 092	-	-
60	-	-	-	11 752	14 577	17 925	21 831	-	-
68	-	-	-	-	-	14 899	18 564	-	-

**Power input in W**

16	2 838	2 796	2 735	2 683	-	-	-	-	-
20	3 188	3 169	3 125	3 083	3 071	-	-	-	-
30	3 931	3 967	3 963	3 946	3 942	3 981	4 089	-	-
40	4 674	4 764	4 798	4 803	4 806	4 836	4 919	-	-
50	-	5 796	5 866	5 891	5 899	5 918	5 974	-	-
60	-	-	-	7 446	7 457	7 463	7 491	-	-
68	-	-	-	-	-	9 192	9 196	-	-

**Current consumption in A**

16	5.46	5.38	5.26	5.16	-	-	-	-	-
20	6.14	6.10	6.01	5.93	5.91	-	-	-	-
30	7.57	7.64	7.63	7.59	7.59	7.66	7.87	-	-
40	9.00	9.17	9.23	9.24	9.25	9.31	9.47	-	-
50	-	11.15	11.29	11.34	11.35	11.39	11.50	-	-
60	-	-	-	14.33	14.35	14.36	14.42	-	-
68	-	-	-	-	-	17.69	17.70	-	-

**Mass flow in kg/h**

16	195	253	315	382	-	-	-	-	-
20	197	252	312	378	448	-	-	-	-
30	202	252	308	370	439	513	591	-	-
40	199	246	301	363	432	507	588	-	-
50	-	226	281	346	418	498	584	-	-
60	-	-	-	310	389	476	569	-	-
68	-	-	-	-	-	443	545	-	-

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

16	3.85	4.86	6.09	7.52	-	-	-	-	-
20	3.26	4.09	5.10	6.28	7.58	-	-	-	-
30	2.38	2.95	3.64	4.46	5.40	6.39	7.37	-	-
40	1.82	2.22	2.72	3.33	4.03	4.82	5.64	-	-
50	-	1.60	1.96	2.40	2.93	3.53	4.20	-	-
60	-	-	-	1.58	1.95	2.40	2.91	-	-
68	-	-	-	-	-	1.62	2.02	-	-

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

Cooling capacity	12 324	W
Power input	5 288	W
Current consumption	10.18	A
Mass flow	293	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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	10 668	13 292	16 346	19 875	-	-	-	-	-
20	10 171	12 706	15 668	19 100	23 044	-	-	-	-
30	9 234	11 538	14 259	17 438	21 119	25 345	30 158	-	-
40	-	10 525	12 988	15 900	19 303	23 241	27 755	-	-
50	-	-	-	14 148	17 258	20 892	25 092	-	-
60	-	-	-	-	14 645	17 960	21 831	-	-
68	-	-	-	-	-	-	18 564	-	-

**Power input in W**

16	2 838	2 796	2 735	2 683	-	-	-	-	-
20	3 188	3 169	3 125	3 083	3 071	-	-	-	-
30	3 931	3 967	3 963	3 946	3 942	3 981	4 089	-	-
40	-	4 764	4 798	4 803	4 806	4 836	4 919	-	-
50	-	-	-	5 891	5 899	5 918	5 974	-	-
60	-	-	-	-	7 457	7 463	7 491	-	-
68	-	-	-	-	-	-	9 196	-	-

**Current consumption in A**

16	5.46	5.38	5.26	5.16	-	-	-	-	-
20	6.14	6.10	6.01	5.93	5.91	-	-	-	-
30	7.57	7.64	7.63	7.59	7.59	7.66	7.87	-	-
40	-	9.17	9.23	9.24	9.25	9.31	9.47	-	-
50	-	-	-	11.34	11.35	11.39	11.50	-	-
60	-	-	-	-	14.35	14.36	14.42	-	-
68	-	-	-	-	-	-	17.70	-	-

**Mass flow in kg/h**

16	171	227	288	357	-	-	-	-	-
20	173	226	286	353	427	-	-	-	-
30	178	226	282	346	419	500	591	-	-
40	-	221	275	339	412	495	588	-	-
50	-	-	-	323	399	486	584	-	-
60	-	-	-	-	371	464	569	-	-
68	-	-	-	-	-	-	545	-	-

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

16	3.76	4.75	5.98	7.41	-	-	-	-	-
20	3.19	4.01	5.01	6.20	7.50	-	-	-	-
30	2.35	2.91	3.60	4.42	5.36	6.37	7.37	-	-
40	-	2.21	2.71	3.31	4.02	4.81	5.64	-	-
50	-	-	-	2.40	2.93	3.53	4.20	-	-
60	-	-	-	-	1.96	2.41	2.91	-	-
68	-	-	-	-	-	-	2.02	-	-

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

Cooling capacity	12 300	W
Power input	5 288	W
Current consumption	10.18	A
Mass flow	268	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	74	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	7 733	9 690	11 995	14 684	17 794	-	-	-	-
30	7 069	8 930	11 113	13 655	16 593	19 961	-	-	-
40	6 195	7 923	9 942	12 288	14 998	18 107	21 652	-	-
50	-	6 864	8 705	10 842	13 310	16 146	19 385	-	-
60	-	-	7 413	9 327	11 540	14 089	17 010	-	-
70	-	-	-	7 754	9 699	11 947	14 536	-	-
73	-	-	-	7 273	9 134	11 290	13 776	-	-

**Power input in W**

22	2 176	2 201	2 269	2 360	2 453	-	-	-	-
30	2 610	2 636	2 694	2 765	2 828	2 865	-	-	-
40	3 216	3 263	3 329	3 396	3 442	3 449	3 395	-	-
50	-	3 966	4 063	4 147	4 199	4 198	4 124	-	-
60	-	-	4 874	4 999	5 078	5 092	5 021	-	-
70	-	-	-	5 932	6 062	6 113	6 067	-	-
73	-	-	-	6 225	6 374	6 441	6 406	-	-

**Current consumption in A**

22	4.19	4.24	4.37	4.54	4.72	-	-	-	-
30	5.02	5.07	5.18	5.32	5.44	5.51	-	-	-
40	6.19	6.28	6.41	6.54	6.62	6.64	6.53	-	-
50	-	7.63	7.82	7.98	8.08	8.08	7.94	-	-
60	-	-	9.38	9.62	9.77	9.80	9.66	-	-
70	-	-	-	11.42	11.67	11.76	11.68	-	-
73	-	-	-	11.98	12.27	12.40	12.33	-	-

**Mass flow in kg/h**

22	166	206	250	301	357	-	-	-	-
30	162	202	247	298	355	418	-	-	-
40	159	198	243	294	351	416	488	-	-
50	-	194	238	289	346	412	486	-	-
60	-	-	232	282	339	405	480	-	-
70	-	-	-	273	330	395	470	-	-
73	-	-	-	270	326	392	466	-	-

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

22	3.55	4.40	5.29	6.22	7.25	-	-	-	-
30	2.71	3.39	4.13	4.94	5.87	6.97	-	-	-
40	1.93	2.43	2.99	3.62	4.36	5.25	6.38	-	-
50	-	1.73	2.14	2.61	3.17	3.85	4.70	-	-
60	-	-	1.52	1.87	2.27	2.77	3.39	-	-
70	-	-	-	1.31	1.60	1.95	2.40	-	-
73	-	-	-	1.17	1.43	1.75	2.15	-	-

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

Cooling capacity	7 399	W
Power input	3 606	W
Current consumption	6.94	A
Mass flow	196	kg/h
C.O.P.	2.05	

**Pressure switch settings**

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

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	7 857	9 803	12 088	14 748	17 823	-	-	-	-
30	-	9 095	11 256	13 761	16 649	19 961	-	-	-
40	-	-	10 147	12 447	15 087	18 107	21 550	-	-
50	-	-	8 970	11 052	13 432	16 146	19 231	-	-
60	-	-	-	9 587	11 695	14 089	-	-	-
70	-	-	-	-	9 886	11 947	-	-	-
73	-	-	-	-	9 331	11 290	-	-	-

**Power input in W**

22	2 176	2 201	2 269	2 360	2 453	-	-	-	-
30	-	2 636	2 694	2 765	2 828	2 865	-	-	-
40	-	-	3 329	3 396	3 442	3 449	3 395	-	-
50	-	-	4 063	4 147	4 199	4 198	4 124	-	-
60	-	-	-	4 999	5 078	5 092	-	-	-
70	-	-	-	-	6 062	6 113	-	-	-
73	-	-	-	-	6 374	6 441	-	-	-

**Current consumption in A**

22	4.19	4.24	4.37	4.54	4.72	-	-	-	-
30	-	5.07	5.18	5.32	5.44	5.51	-	-	-
40	-	-	6.41	6.54	6.62	6.64	6.53	-	-
50	-	-	7.82	7.98	8.08	8.08	7.94	-	-
60	-	-	-	9.62	9.77	9.80	-	-	-
70	-	-	-	-	11.67	11.76	-	-	-
73	-	-	-	-	12.27	12.40	-	-	-

**Mass flow in kg/h**

22	149	189	234	287	348	-	-	-	-
30	-	185	231	285	346	418	-	-	-
40	-	-	227	281	343	416	501	-	-
50	-	-	223	276	338	412	498	-	-
60	-	-	-	269	332	405	-	-	-
70	-	-	-	-	322	395	-	-	-
73	-	-	-	-	319	392	-	-	-

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

22	3.61	4.45	5.33	6.25	7.27	-	-	-	-
30	-	3.45	4.18	4.98	5.89	6.97	-	-	-
40	-	-	3.05	3.67	4.38	5.25	6.35	-	-
50	-	-	2.21	2.67	3.20	3.85	4.66	-	-
60	-	-	-	1.92	2.30	2.77	-	-	-
70	-	-	-	-	1.63	1.95	-	-	-
73	-	-	-	-	1.46	1.75	-	-	-

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

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

**Pressure switch settings**

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

**Sound power data**

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

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	9 092	11 230	13 765	16 732	20 171	-	-	-	-
20	7 967	10 040	12 452	15 240	18 441	22 094	26 236	-	-
30	6 719	8 690	10 944	13 516	16 446	19 770	23 526	27 750	32 481
40	-	7 192	9 252	11 574	14 196	17 155	20 489	24 235	28 431
50	-	-	7 386	9 422	11 701	14 261	17 138	20 370	23 995
60	-	-	-	-	8 974	11 097	13 482	16 165	19 183

**Power input in W**

10	2 711	2 790	2 860	2 920	2 969	-	-	-	-
20	3 302	3 385	3 466	3 541	3 610	3 672	3 724	-	-
30	4 114	4 183	4 254	4 326	4 396	4 464	4 529	4 588	4 641
40	-	5 290	5 332	5 381	5 433	5 489	5 547	5 604	5 661
50	-	-	6 807	6 813	6 829	6 853	6 884	6 920	6 961
60	-	-	-	-	8 689	8 662	8 647	8 643	8 649

**Current consumption in A**

10	7.73	7.71	7.71	7.70	7.68	-	-	-	-
20	8.43	8.46	8.52	8.59	8.66	8.71	8.73	-	-
30	9.21	9.25	9.32	9.41	9.52	9.62	9.70	9.75	9.76
40	-	10.43	10.45	10.52	10.60	10.70	10.80	10.87	10.92
50	-	-	12.30	12.28	12.30	12.34	12.39	12.43	12.46
60	-	-	-	-	14.96	14.89	14.84	14.80	14.76

**Mass flow in kg/h**

10	182	228	281	343	415	-	-	-	-
20	174	222	277	340	414	500	601	-	-
30	163	212	268	333	408	495	598	716	853
40	-	197	254	320	396	485	589	708	846
50	-	-	234	301	379	469	573	694	833
60	-	-	-	-	353	445	550	672	811

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

10	3.35	4.03	4.81	5.73	6.79	-	-	-	-
20	2.41	2.97	3.59	4.30	5.11	6.02	7.04	-	-
30	1.63	2.08	2.57	3.12	3.74	4.43	5.19	6.05	7.00
40	-	1.36	1.74	2.15	2.61	3.13	3.69	4.32	5.02
50	-	-	1.09	1.38	1.71	2.08	2.49	2.94	3.45
60	-	-	-	-	1.03	1.28	1.56	1.87	2.22

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

Cooling capacity	12 978	W
Power input	6 080	W
Current consumption	11.35	A
Mass flow	388	kg/h
C.O.P.	2.13	


**Pressure switch settings**

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

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	8 737	10 868	13 412	16 410	19 901	-	-	-	-
20	7 492	9 535	11 938	14 745	17 997	21 733	25 987	-	-
30	6 145	8 055	10 277	12 853	15 827	19 242	23 135	27 542	32 481
40	4 719	6 453	8 449	10 753	13 409	16 463	19 958	23 936	28 431
50	-	-	6 480	8 467	10 761	13 411	16 467	19 979	23 995
60	-	-	-	-	7 897	10 096	12 668	15 675	19 183

**Power input in W**

10	2 711	2 790	2 860	2 920	2 969	-	-	-	-
20	3 302	3 385	3 466	3 541	3 610	3 672	3 724	-	-
30	4 114	4 183	4 254	4 326	4 396	4 464	4 529	4 588	4 641
40	5 254	5 290	5 332	5 381	5 433	5 489	5 547	5 604	5 661
50	-	-	6 807	6 813	6 829	6 853	6 884	6 920	6 961
60	-	-	-	-	8 689	8 662	8 647	8 643	8 649

**Current consumption in A**

10	7.73	7.71	7.71	7.70	7.68	-	-	-	-
20	8.43	8.46	8.52	8.59	8.66	8.71	8.73	-	-
30	9.21	9.25	9.32	9.41	9.52	9.62	9.70	9.75	9.76
40	10.46	10.43	10.45	10.52	10.60	10.70	10.80	10.87	10.92
50	-	-	12.30	12.28	12.30	12.34	12.39	12.43	12.46
60	-	-	-	-	14.96	14.89	14.84	14.80	14.76

**Mass flow in kg/h**

10	216	267	323	386	459	-	-	-	-
20	208	260	318	383	457	541	635	-	-
30	194	248	308	375	450	536	631	737	853
40	174	230	292	360	438	524	622	729	846
50	-	-	268	339	418	506	605	714	833
60	-	-	-	-	390	480	581	691	811

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

10	3.22	3.90	4.69	5.62	6.70	-	-	-	-
20	2.27	2.82	3.44	4.16	4.98	5.92	6.98	-	-
30	1.49	1.93	2.42	2.97	3.60	4.31	5.11	6.00	7.00
40	0.90	1.22	1.58	2.00	2.47	3.00	3.60	4.27	5.02
50	-	-	0.95	1.24	1.58	1.96	2.39	2.89	3.45
60	-	-	-	-	0.91	1.17	1.47	1.81	2.22

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

Cooling capacity	12 113	W
Power input	6 080	W
Current consumption	11.35	A
Mass flow	429	kg/h
C.O.P.	1.99	

**Pressure switch settings**

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

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	10 415	11 943	14 875	18 339	-	-	-	-	-
20	9 341	10 777	13 518	16 747	20 520	24 895	-	-	-
30	8 183	9 511	12 037	15 005	18 472	22 496	27 136	32 448	-
40	6 959	8 164	10 449	13 131	16 268	19 916	24 134	28 980	-
45	-	-	9 622	12 151	15 113	18 564	22 562	27 165	-
50	-	-	-	11 146	13 926	17 173	20 945	25 300	-
55	-	-	-	-	12 710	15 747	19 286	23 385	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 692	2 739	2 785	2 769	-	-	-	-	-
20	3 282	3 339	3 433	3 501	3 518	3 456	-	-	-
30	4 116	4 146	4 226	4 317	4 394	4 430	4 399	4 273	-
40	5 371	5 339	5 342	5 395	5 472	5 544	5 586	5 571	-
45	-	-	6 077	6 088	6 141	6 208	6 264	6 282	-
50	-	-	-	6 914	6 927	6 975	7 029	7 063	-
55	-	-	-	-	7 853	7 864	7 902	7 938	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	8.35	8.37	8.42	8.49	-	-	-	-	-
20	8.70	8.72	8.77	8.84	8.91	9.00	-	-	-
30	9.35	9.38	9.43	9.50	9.57	9.65	9.72	9.79	-
40	10.45	10.49	10.56	10.64	10.71	10.79	10.85	10.90	-
45	-	-	11.35	11.43	11.51	11.58	11.65	11.69	-
50	-	-	-	12.40	12.48	12.56	12.62	12.67	-
55	-	-	-	-	13.65	13.73	13.79	13.84	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	182	207	255	310	-	-	-	-	-
20	176	202	250	305	369	442	-	-	-
30	168	194	241	297	360	433	516	610	-
40	158	183	230	285	348	420	502	596	-
45	-	-	224	278	341	412	494	587	-
50	-	-	-	270	332	403	484	576	-
55	-	-	-	-	323	393	474	565	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.87	4.36	5.34	6.62	-	-	-	-	-
20	2.85	3.23	3.94	4.78	5.83	7.20	-	-	-
30	1.99	2.29	2.85	3.48	4.20	5.08	6.17	7.59	-
40	1.30	1.53	1.96	2.43	2.97	3.59	4.32	5.20	-
45	-	-	1.58	2.00	2.46	2.99	3.60	4.32	-
50	-	-	-	1.61	2.01	2.46	2.98	3.58	-
55	-	-	-	-	1.62	2.00	2.44	2.95	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	12 151	W
Power input	6 088	W
Current consumption	11.43	A
Mass flow	278	kg/h
C.O.P.	2.00	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

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	11 008	12 617	15 703	19 346	-	-	-	-	-
20	9 932	11 452	14 354	17 767	21 753	26 372	-	-	-
30	8 767	10 183	12 874	16 033	19 720	23 995	28 919	34 551	-
40	-	8 827	11 284	14 163	17 526	21 434	25 947	31 126	-
45	-	-	10 454	13 184	16 377	20 092	24 391	29 335	-
50	-	-	-	12 181	15 197	18 715	22 795	27 500	-
55	-	-	-	-	-	17 309	21 168	25 630	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	2 692	2 739	2 785	2 769	-	-	-	-	-
20	3 282	3 339	3 433	3 501	3 518	3 456	-	-	-
30	4 116	4 146	4 226	4 317	4 394	4 430	4 399	4 273	-
40	-	5 339	5 342	5 395	5 472	5 544	5 586	5 571	-
45	-	-	6 077	6 088	6 141	6 208	6 264	6 282	-
50	-	-	-	6 914	6 927	6 975	7 029	7 063	-
55	-	-	-	-	-	7 864	7 902	7 938	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	8.35	8.37	8.42	8.49	-	-	-	-	-
20	8.70	8.72	8.77	8.84	8.91	9.00	-	-	-
30	9.35	9.38	9.43	9.50	9.57	9.65	9.72	9.79	-
40	-	10.49	10.56	10.64	10.71	10.79	10.85	10.90	-
45	-	-	11.35	11.43	11.51	11.58	11.65	11.69	-
50	-	-	-	12.40	12.48	12.56	12.62	12.67	-
55	-	-	-	-	-	13.73	13.79	13.84	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	181	206	253	308	-	-	-	-	-
20	175	201	248	303	367	439	-	-	-
30	167	193	240	295	358	430	513	606	-
40	-	182	229	283	346	418	499	592	-
45	-	-	223	277	339	410	491	583	-
50	-	-	-	269	330	401	481	573	-
55	-	-	-	-	-	391	471	561	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	4.09	4.61	5.64	6.99	-	-	-	-	-
20	3.03	3.43	4.18	5.07	6.18	7.63	-	-	-
30	2.13	2.46	3.05	3.71	4.49	5.42	6.57	8.09	-
40	-	1.65	2.11	2.63	3.20	3.87	4.65	5.59	-
45	-	-	1.72	2.17	2.67	3.24	3.89	4.67	-
50	-	-	-	1.76	2.19	2.68	3.24	3.89	-
55	-	-	-	-	-	2.20	2.68	3.23	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	13 184	W
Power input	6 088	W
Current consumption	11.43	A
Mass flow	277	kg/h
C.O.P.	2.17	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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