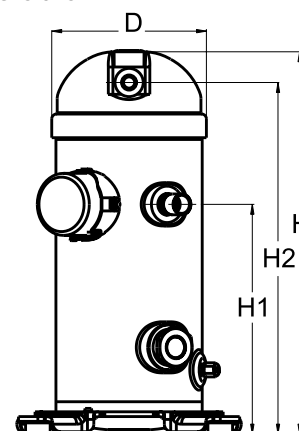


General Characteristics

Model number (on compressor nameplate)		MLZ015T4LP9A
Code number for Singlepack*		121L8629
Code number for Industrial pack**		121L8628
Drawing number		0XC6300B-1
Suction and discharge connections		Brazed
Suction connection		3/4 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		32 bar
Swept volume		33.77 cm ³ /rev
Displacement @ Nominal speed	5.9 m ³ /h @ 2900 rpm - 7.1 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, R407F, R448A, R449A

Dimensions

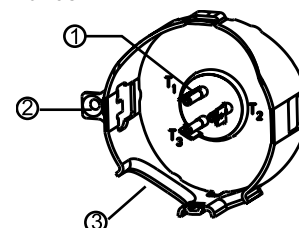


D=164.5 mm
H=412 mm
H1=250 mm
H2=379 mm
H3=- mm

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	6.724 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	4.952 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	6.724 Ω
Rated Load Amps (RLA)	4.5 A
Maximum Continuous Current (MCC)	7 A
Locked Rotor Amps (LRA)	30 A
Motor protection	Internal overload protector

Terminal box



IP22
1: Spade connectors 1/4"
2: Earth connection
3: Power cable passage

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, -, -

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

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

Rotolock accessories, suction side

Code no.

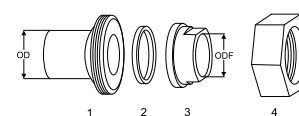
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side

Code no.

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

Solder sleeve adapter set



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

Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants

Code no.

PVE lubricant, 215PZ, 1 litre can	120Z0648
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Crankcase heaters

Code no.

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

Miscellaneous accessories

Code no.

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

Spare parts

Code no.

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

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R404A

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

Cooling capacity in W

10	2 340	2 903	3 593	4 425	5 415	-	-	-	-
20	2 090	2 625	3 258	4 006	4 885	5 911	7 100	-	-
30	1 767	2 278	2 860	3 529	4 301	5 194	6 222	7 402	8 749
40	-	1 851	2 387	2 982	3 654	4 417	5 289	6 286	7 424
50	-	-	1 829	2 356	2 931	3 571	4 292	5 111	6 044
60	-	-	-	-	2 122	2 643	3 219	3 865	4 599

Power input in W

10	783	782	765	736	696	-	-	-	-
20	977	983	976	958	933	904	876	-	-
30	1 248	1 250	1 240	1 222	1 199	1 176	1 155	1 141	1 136
40	-	1 625	1 601	1 572	1 540	1 510	1 485	1 469	1 465
50	-	-	2 103	2 050	1 997	1 949	1 908	1 879	1 864
60	-	-	-	-	2 615	2 537	2 468	2 414	2 377

Current consumption in A

10	1.61	1.61	1.58	1.52	1.44	-	-	-	-
20	2.01	2.03	2.01	1.97	1.92	1.86	1.81	-	-
30	2.57	2.58	2.56	2.52	2.47	2.42	2.38	2.35	2.34
40	-	3.35	3.30	3.24	3.18	3.11	3.06	3.03	3.02
50	-	-	4.34	4.23	4.12	4.02	3.94	3.87	3.84
60	-	-	-	-	5.39	5.23	5.09	4.98	4.90

Mass flow in kg/h

10	45	58	74	91	113	-	-	-	-
20	44	57	72	90	110	135	163	-	-
30	42	55	70	87	107	131	159	191	229
40	-	51	66	83	102	126	153	184	221
50	-	-	58	75	95	117	144	175	211
60	-	-	-	-	83	105	131	161	197

Coefficient of performance (C.O.P.)

10	2.99	3.71	4.69	6.01	7.78	-	-	-	-
20	2.14	2.67	3.34	4.18	5.24	6.54	8.11	-	-
30	1.42	1.82	2.31	2.89	3.59	4.42	5.39	6.49	7.70
40	-	1.14	1.49	1.90	2.37	2.93	3.56	4.28	5.07
50	-	-	0.87	1.15	1.47	1.83	2.25	2.72	3.24
60	-	-	-	-	0.81	1.04	1.30	1.60	1.93

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

Cooling capacity	3 302	W
Power input	1 751	W
Current consumption	3.61	A
Mass flow	99	kg/h
C.O.P.	1.89	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R404A

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

Cooling capacity in W

10	2 248	2 810	3 501	4 339	5 342	-	-	-	-
20	1 966	2 493	3 124	3 876	4 767	5 814	7 032	-	-
30	1 616	2 111	2 686	3 356	4 140	5 055	6 119	7 346	8 749
40	1 197	1 661	2 180	2 771	3 451	4 239	5 152	6 209	7 424
50	-	-	1 605	2 117	2 695	3 358	4 124	5 013	6 044
60	-	-	-	-	1 867	2 405	3 024	3 748	4 599

Power input in W

10	783	782	765	736	696	-	-	-	-
20	977	983	976	958	933	904	876	-	-
30	1 248	1 250	1 240	1 222	1 199	1 176	1 155	1 141	1 136
40	1 640	1 625	1 601	1 572	1 540	1 510	1 485	1 469	1 465
50	-	-	2 103	2 050	1 997	1 949	1 908	1 879	1 864
60	-	-	-	-	2 615	2 537	2 468	2 414	2 377

Current consumption in A

10	1.61	1.61	1.58	1.52	1.44	-	-	-	-
20	2.01	2.03	2.01	1.97	1.92	1.86	1.81	-	-
30	2.57	2.58	2.56	2.52	2.47	2.42	2.38	2.35	2.34
40	3.38	3.35	3.30	3.24	3.18	3.11	3.06	3.03	3.02
50	-	-	4.34	4.23	4.12	4.02	3.94	3.87	3.84
60	-	-	-	-	5.39	5.23	5.09	4.98	4.90

Mass flow in kg/h

10	53	68	84	103	124	-	-	-	-
20	52	67	83	101	122	145	172	-	-
30	50	64	80	98	119	142	168	197	229
40	44	59	76	93	113	136	161	190	221
50	-	-	67	85	105	127	152	180	211
60	-	-	-	-	92	114	139	166	197

Coefficient of performance (C.O.P.)

10	2.87	3.59	4.57	5.90	7.67	-	-	-	-
20	2.01	2.54	3.20	4.05	5.11	6.43	8.03	-	-
30	1.29	1.69	2.17	2.75	3.45	4.30	5.30	6.44	7.70
40	0.73	1.02	1.36	1.76	2.24	2.81	3.47	4.23	5.07
50	-	-	0.76	1.03	1.35	1.72	2.16	2.67	3.24
60	-	-	-	-	0.71	0.95	1.23	1.55	1.93

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

Cooling capacity	3 082	W
Power input	1 751	W
Current consumption	3.61	A
Mass flow	109	kg/h
C.O.P.	1.76	

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	2 856	3 532	4 349	5 325	6 478	-	-	-	-
20	2 514	3 159	3 917	4 805	5 843	7 049	8 441	-	-
30	2 134	2 750	3 450	4 253	5 177	6 241	7 464	8 863	10 458
40	-	2 283	2 926	3 644	4 456	5 380	6 434	7 638	9 010
50	-	-	2 324	2 959	3 659	4 444	5 331	6 341	7 491
60	-	-	-	-	2 764	3 411	4 133	4 950	5 881

Power input in W

10	967	947	930	916	902	-	-	-	-
20	1 209	1 195	1 184	1 172	1 160	1 145	1 126	-	-
30	1 502	1 497	1 492	1 486	1 477	1 464	1 445	1 418	1 382
40	-	1 868	1 872	1 872	1 868	1 859	1 841	1 814	1 777
50	-	-	2 339	2 348	2 351	2 346	2 331	2 306	2 268
60	-	-	-	-	2 940	2 942	2 932	2 910	2 874

Current consumption in A

10	1.52	1.49	1.46	1.44	1.41	-	-	-	-
20	1.90	1.87	1.86	1.84	1.82	1.80	1.77	-	-
30	2.36	2.35	2.34	2.33	2.32	2.30	2.27	2.22	2.17
40	-	2.93	2.94	2.94	2.93	2.92	2.89	2.85	2.79
50	-	-	3.67	3.68	3.69	3.68	3.66	3.62	3.56
60	-	-	-	-	4.61	4.62	4.60	4.57	4.51

Mass flow in kg/h

10	52	70	88	110	135	-	-	-	-
20	51	69	87	108	132	161	195	-	-
30	49	67	85	105	129	157	190	230	277
40	-	62	81	102	125	152	185	224	270
50	-	-	74	95	119	146	178	217	262
60	-	-	-	-	109	137	169	207	252

Coefficient of performance (C.O.P.)

10	2.95	3.73	4.68	5.82	7.18	-	-	-	-
20	2.08	2.64	3.31	4.10	5.04	6.16	7.50	-	-
30	1.42	1.84	2.31	2.86	3.50	4.26	5.17	6.25	7.57
40	-	1.22	1.56	1.95	2.38	2.89	3.50	4.21	5.07
50	-	-	0.99	1.26	1.56	1.89	2.29	2.75	3.30
60	-	-	-	-	0.94	1.16	1.41	1.70	2.05

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

Cooling capacity	4 068	W
Power input	2 097	W
Current consumption	3.29	A
Mass flow	122	kg/h
C.O.P.	1.94	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K
R404A

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

Cooling capacity in W

10	2 744	3 419	4 238	5 222	6 391	-	-	-	-
20	2 364	3 000	3 755	4 649	5 702	6 934	8 361	-	-
30	1 952	2 549	3 240	4 044	4 982	6 074	7 340	8 797	10 458
40	1 493	2 048	2 672	3 386	4 209	5 163	6 268	7 544	9 010
50	-	-	2 038	2 659	3 365	4 179	5 123	6 219	7 491
60	-	-	-	-	2 432	3 103	3 884	4 800	5 881

Power input in W

10	967	947	930	916	902	-	-	-	-
20	1 209	1 195	1 184	1 172	1 160	1 145	1 126	-	-
30	1 502	1 497	1 492	1 486	1 477	1 464	1 445	1 418	1 382
40	1 863	1 868	1 872	1 872	1 868	1 859	1 841	1 814	1 777
50	-	-	2 339	2 348	2 351	2 346	2 331	2 306	2 268
60	-	-	-	-	2 940	2 942	2 932	2 910	2 874

Current consumption in A

10	1.52	1.49	1.46	1.44	1.41	-	-	-	-
20	1.90	1.87	1.86	1.84	1.82	1.80	1.77	-	-
30	2.36	2.35	2.34	2.33	2.32	2.30	2.27	2.22	2.17
40	2.92	2.93	2.94	2.94	2.93	2.92	2.89	2.85	2.79
50	-	-	3.67	3.68	3.69	3.68	3.66	3.62	3.56
60	-	-	-	-	4.61	4.62	4.60	4.57	4.51

Mass flow in kg/h

10	62	81	101	123	149	-	-	-	-
20	61	80	100	121	146	174	206	-	-
30	58	78	98	119	142	170	201	237	277
40	52	73	93	114	138	165	195	230	270
50	-	-	85	107	131	158	188	223	262
60	-	-	-	-	121	148	179	213	252

Coefficient of performance (C.O.P.)

10	2.84	3.61	4.56	5.70	7.09	-	-	-	-
20	1.96	2.51	3.17	3.97	4.91	6.05	7.43	-	-
30	1.30	1.70	2.17	2.72	3.37	4.15	5.08	6.20	7.57
40	0.80	1.10	1.43	1.81	2.25	2.78	3.40	4.16	5.07
50	-	-	0.87	1.13	1.43	1.78	2.20	2.70	3.30
60	-	-	-	-	0.83	1.05	1.32	1.65	2.05

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

Cooling capacity	3 797	W
Power input	2 097	W
Current consumption	3.29	A
Mass flow	135	kg/h
C.O.P.	1.81	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R134a

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

Cooling capacity in W

22	2 020	2 554	3 186	3 924	4 778	-	-	-	-
30	1 853	2 353	2 948	3 646	4 456	5 387	-	-	-
40	1 651	2 102	2 642	3 282	4 031	4 897	5 890	-	-
50	-	1 848	2 327	2 902	3 581	4 374	5 289	-	-
60	-	-	2 001	2 503	3 105	3 816	4 646	-	-
70	-	-	-	2 083	2 600	3 223	3 960	-	-
73	-	-	-	1 953	2 443	3 038	3 746	-	-

Power input in W

22	618	625	631	639	648	-	-	-	-
30	735	742	748	754	762	773	-	-	-
40	906	916	924	930	938	948	962	-	-
50	-	1 126	1 137	1 147	1 157	1 167	1 181	-	-
60	-	-	1 396	1 411	1 425	1 439	1 455	-	-
70	-	-	-	1 729	1 749	1 769	1 789	-	-
73	-	-	-	1 836	1 858	1 880	1 902	-	-

Current consumption in A

22	2.00	2.02	2.03	2.04	2.05	-	-	-	-
30	2.20	2.22	2.23	2.24	2.25	2.26	-	-	-
40	2.43	2.44	2.45	2.46	2.47	2.48	2.50	-	-
50	-	2.80	2.80	2.81	2.82	2.83	2.84	-	-
60	-	-	3.44	3.44	3.44	3.45	3.46	-	-
70	-	-	-	4.51	4.51	4.52	4.52	-	-
73	-	-	-	4.94	4.94	4.94	4.95	-	-

Mass flow in kg/h

22	43	54	66	80	96	-	-	-	-
30	43	53	65	79	95	113	-	-	-
40	42	52	64	78	94	112	133	-	-
50	-	52	63	77	93	111	132	-	-
60	-	-	62	75	91	109	130	-	-
70	-	-	-	73	89	107	127	-	-
73	-	-	-	73	88	106	126	-	-

Coefficient of performance (C.O.P.)

22	3.27	4.09	5.05	6.15	7.37	-	-	-	-
30	2.52	3.17	3.94	4.83	5.85	6.97	-	-	-
40	1.82	2.29	2.86	3.53	4.30	5.17	6.13	-	-
50	-	1.64	2.05	2.53	3.10	3.75	4.48	-	-
60	-	-	1.43	1.77	2.18	2.65	3.19	-	-
70	-	-	-	1.20	1.49	1.82	2.21	-	-
73	-	-	-	1.06	1.31	1.62	1.97	-	-

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

Cooling capacity	1 975	W
Power input	1 016	W
Current consumption	2.59	A
Mass flow	52	kg/h
C.O.P.	1.94	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R134a

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

Cooling capacity in W

22	2 052	2 584	3 211	3 941	4 786	-	-	-	-
30	-	2 397	2 986	3 674	4 471	5 387	-	-	-
40	-	-	2 697	3 325	4 055	4 897	5 862	-	-
50	-	-	2 398	2 958	3 614	4 374	5 247	-	-
60	-	-	-	2 572	3 146	3 816	-	-	-
70	-	-	-	-	2 650	3 223	-	-	-
73	-	-	-	-	2 496	3 038	-	-	-

Power input in W

22	618	625	631	639	648	-	-	-	-
30	-	742	748	754	762	773	-	-	-
40	-	-	924	930	938	948	962	-	-
50	-	-	1 137	1 147	1 157	1 167	1 181	-	-
60	-	-	-	1 411	1 425	1 439	-	-	-
70	-	-	-	-	1 749	1 769	-	-	-
73	-	-	-	-	1 858	1 880	-	-	-

Current consumption in A

22	2.00	2.02	2.03	2.04	2.05	-	-	-	-
30	-	2.22	2.23	2.24	2.25	2.26	-	-	-
40	-	-	2.45	2.46	2.47	2.48	2.50	-	-
50	-	-	2.80	2.81	2.82	2.83	2.84	-	-
60	-	-	-	3.44	3.44	3.45	-	-	-
70	-	-	-	-	4.51	4.52	-	-	-
73	-	-	-	-	4.94	4.94	-	-	-

Mass flow in kg/h

22	39	49	62	76	93	-	-	-	-
30	-	49	61	76	93	113	-	-	-
40	-	-	60	75	92	112	136	-	-
50	-	-	59	74	91	111	135	-	-
60	-	-	-	72	89	109	-	-	-
70	-	-	-	-	87	107	-	-	-
73	-	-	-	-	86	106	-	-	-

Coefficient of performance (C.O.P.)

22	3.32	4.13	5.09	6.17	7.38	-	-	-	-
30	-	3.23	3.99	4.87	5.86	6.97	-	-	-
40	-	-	2.92	3.57	4.32	5.17	6.10	-	-
50	-	-	2.11	2.58	3.12	3.75	4.44	-	-
60	-	-	-	1.82	2.21	2.65	-	-	-
70	-	-	-	-	1.52	1.82	-	-	-
73	-	-	-	-	1.34	1.62	-	-	-

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	2 496	3 149	3 926	4 828	5 859	-	-	-	-
30	2 277	2 904	3 650	4 517	5 506	6 621	-	-	-
40	2 003	2 591	3 290	4 104	5 035	6 085	7 256	-	-
50	-	2 258	2 903	3 656	4 520	5 496	6 586	-	-
60	-	-	2 477	3 161	3 949	4 843	5 845	-	-
70	-	-	-	2 608	3 312	4 115	5 021	-	-
73	-	-	-	2 428	3 106	3 881	4 755	-	-

Power input in W

22	739	753	768	787	810	-	-	-	-
30	872	887	903	920	940	964	-	-	-
40	1 058	1 080	1 100	1 118	1 138	1 159	1 184	-	-
50	-	1 303	1 332	1 357	1 380	1 403	1 428	-	-
60	-	-	1 604	1 640	1 672	1 701	1 729	-	-
70	-	-	-	1 972	2 017	2 057	2 094	-	-
73	-	-	-	2 082	2 132	2 176	2 216	-	-

Current consumption in A

22	1.99	2.00	2.01	2.01	2.02	-	-	-	-
30	2.19	2.21	2.22	2.23	2.24	2.26	-	-	-
40	2.42	2.44	2.46	2.47	2.49	2.51	2.54	-	-
50	-	2.77	2.80	2.82	2.84	2.87	2.90	-	-
60	-	-	3.38	3.41	3.44	3.48	3.51	-	-
70	-	-	-	4.40	4.44	4.48	4.53	-	-
73	-	-	-	4.79	4.84	4.88	4.93	-	-

Mass flow in kg/h

22	54	67	81	98	117	-	-	-	-
30	53	66	81	98	117	138	-	-	-
40	51	65	80	98	118	139	163	-	-
50	-	63	79	97	117	140	164	-	-
60	-	-	77	95	116	139	164	-	-
70	-	-	-	91	113	136	162	-	-
73	-	-	-	90	111	135	161	-	-

Coefficient of performance (C.O.P.)

22	3.38	4.18	5.11	6.14	7.23	-	-	-	-
30	2.61	3.27	4.04	4.91	5.86	6.87	-	-	-
40	1.89	2.40	2.99	3.67	4.43	5.25	6.13	-	-
50	-	1.73	2.18	2.69	3.27	3.92	4.61	-	-
60	-	-	1.54	1.93	2.36	2.85	3.38	-	-
70	-	-	-	1.32	1.64	2.00	2.40	-	-
73	-	-	-	1.17	1.46	1.78	2.15	-	-

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

Cooling capacity	2 427	W
Power input	1 188	W
Current consumption	2.59	A
Mass flow	64	kg/h
C.O.P.	2.04	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C
R134a

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

Cooling capacity in W

22	2 536	3 186	3 956	4 849	5 869	-	-	-	-
30	-	2 958	3 697	4 551	5 525	6 621	-	-	-
40	-	-	3 358	4 157	5 065	6 085	7 222	-	-
50	-	-	2 991	3 727	4 561	5 496	6 534	-	-
60	-	-	-	3 249	4 002	4 843	-	-	-
70	-	-	-	-	3 376	4 115	-	-	-
73	-	-	-	-	3 173	3 881	-	-	-

Power input in W

22	739	753	768	787	810	-	-	-	-
30	-	887	903	920	940	964	-	-	-
40	-	-	1 100	1 118	1 138	1 159	1 184	-	-
50	-	-	1 332	1 357	1 380	1 403	1 428	-	-
60	-	-	-	1 640	1 672	1 701	-	-	-
70	-	-	-	-	2 017	2 057	-	-	-
73	-	-	-	-	2 132	2 176	-	-	-

Current consumption in A

22	1.99	2.00	2.01	2.01	2.02	-	-	-	-
30	-	2.21	2.22	2.23	2.24	2.26	-	-	-
40	-	-	2.46	2.47	2.49	2.51	2.54	-	-
50	-	-	2.80	2.82	2.84	2.87	2.90	-	-
60	-	-	-	3.41	3.44	3.48	-	-	-
70	-	-	-	-	4.44	4.48	-	-	-
73	-	-	-	-	4.84	4.88	-	-	-

Mass flow in kg/h

22	48	61	76	94	114	-	-	-	-
30	-	60	76	94	115	138	-	-	-
40	-	-	75	94	115	139	167	-	-
50	-	-	74	93	115	140	168	-	-
60	-	-	-	91	113	139	-	-	-
70	-	-	-	-	110	136	-	-	-
73	-	-	-	-	109	135	-	-	-

Coefficient of performance (C.O.P.)

22	3.43	4.23	5.15	6.16	7.25	-	-	-	-
30	-	3.33	4.09	4.95	5.88	6.87	-	-	-
40	-	-	3.05	3.72	4.45	5.25	6.10	-	-
50	-	-	2.25	2.75	3.30	3.92	4.58	-	-
60	-	-	-	1.98	2.39	2.85	-	-	-
70	-	-	-	-	1.67	2.00	-	-	-
73	-	-	-	-	1.49	1.78	-	-	-

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

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

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

Sound power data

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions

R407A

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

Cooling capacity in W

10	2 447	3 061	3 801	4 684	-	-	-	-	-
20	2 185	2 766	3 467	4 303	5 290	6 445	-	-	-
30	1 889	2 424	3 071	3 847	4 766	5 845	7 101	8 547	-
40	1 572	2 047	2 627	3 328	4 165	5 156	6 315	7 658	-
45	-	1 850	2 391	3 050	3 841	4 781	5 887	7 173	-
50	-	-	2 149	2 761	3 502	4 390	5 438	6 664	-
55	-	-	-	2 463	3 152	3 982	4 970	6 132	-
60	-	-	-	-	2 791	3 561	4 485	5 579	-

Power input in W

10	740	749	750	740	-	-	-	-	-
20	890	907	919	924	919	900	-	-	-
30	1 079	1 100	1 120	1 136	1 145	1 144	1 131	1 102	-
40	1 335	1 355	1 377	1 400	1 419	1 433	1 437	1 429	-
45	-	1 513	1 536	1 560	1 583	1 602	1 613	1 614	-
50	-	-	1 718	1 743	1 769	1 792	1 809	1 818	-
55	-	-	-	1 953	1 980	2 006	2 028	2 044	-
60	-	-	-	-	2 219	2 247	2 273	2 295	-

Current consumption in A

10	1.71	1.75	1.78	1.80	-	-	-	-	-
20	2.24	2.29	2.32	2.34	2.35	2.36	-	-	-
30	2.55	2.60	2.63	2.65	2.66	2.67	2.68	2.69	-
40	2.82	2.87	2.90	2.92	2.93	2.94	2.95	2.96	-
45	-	3.05	3.08	3.10	3.11	3.12	3.13	3.14	-
50	-	-	3.32	3.34	3.35	3.36	3.36	3.38	-
55	-	-	-	3.66	3.67	3.68	3.68	3.69	-
60	-	-	-	-	4.10	4.11	4.11	4.12	-

Mass flow in kg/h

10	48	59	72	87	-	-	-	-	-
20	46	58	71	87	105	126	-	-	-
30	44	56	69	85	103	125	149	178	-
40	41	52	66	81	100	122	147	175	-
45	-	50	63	79	98	119	145	173	-
50	-	-	61	76	95	117	142	171	-
55	-	-	-	73	92	113	138	167	-
60	-	-	-	-	88	109	135	163	-

Coefficient of performance (C.O.P.)

10	3.31	4.09	5.07	6.33	-	-	-	-	-
20	2.46	3.05	3.77	4.66	5.76	7.16	-	-	-
30	1.75	2.20	2.74	3.39	4.16	5.11	6.28	7.75	-
40	1.18	1.51	1.91	2.38	2.93	3.60	4.39	5.36	-
45	-	1.22	1.56	1.95	2.43	2.98	3.65	4.44	-
50	-	-	1.25	1.58	1.98	2.45	3.01	3.67	-
55	-	-	-	1.26	1.59	1.99	2.45	3.00	-
60	-	-	-	-	1.26	1.58	1.97	2.43	-

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

Cooling capacity	3 050	W
Power input	1 560	W
Current consumption	3.10	A
Mass flow	79	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	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	2 599	3 247	4 029	4 960	-	-	-	-	-
20	2 337	2 956	3 701	4 588	5 636	6 859	-	-	-
30	2 040	2 614	3 307	4 137	5 120	6 272	7 610	9 151	-
40	1 719	2 234	2 863	3 620	4 524	5 592	6 839	8 283	-
45	-	2 035	2 625	3 341	4 201	5 221	6 418	7 808	-
50	-	-	2 380	3 051	3 863	4 832	5 976	7 310	-
55	-	-	-	2 752	3 513	4 428	5 515	6 791	-
60	-	-	-	-	-	4 011	5 040	6 255	-

Power input in W

10	740	749	750	740	-	-	-	-	-
20	890	907	919	924	919	900	-	-	-
30	1 079	1 100	1 120	1 136	1 145	1 144	1 131	1 102	-
40	1 335	1 355	1 377	1 400	1 419	1 433	1 437	1 429	-
45	-	1 513	1 536	1 560	1 583	1 602	1 613	1 614	-
50	-	-	1 718	1 743	1 769	1 792	1 809	1 818	-
55	-	-	-	1 953	1 980	2 006	2 028	2 044	-
60	-	-	-	-	-	2 247	2 273	2 295	-

Current consumption in A

10	1.71	1.75	1.78	1.80	-	-	-	-	-
20	2.24	2.29	2.32	2.34	2.35	2.36	-	-	-
30	2.55	2.60	2.63	2.65	2.66	2.67	2.68	2.69	-
40	2.82	2.87	2.90	2.92	2.93	2.94	2.95	2.96	-
45	-	3.05	3.08	3.10	3.11	3.12	3.13	3.14	-
50	-	-	3.32	3.34	3.35	3.36	3.36	3.38	-
55	-	-	-	3.66	3.67	3.68	3.68	3.69	-
60	-	-	-	-	-	4.11	4.11	4.12	-

Mass flow in kg/h

10	47	59	72	87	-	-	-	-	-
20	46	57	71	86	105	125	-	-	-
30	44	55	69	84	103	124	149	176	-
40	41	52	65	81	100	121	146	174	-
45	-	50	63	79	97	119	144	172	-
50	-	-	60	76	94	116	141	170	-
55	-	-	-	73	91	113	138	166	-
60	-	-	-	-	-	109	134	162	-

Coefficient of performance (C.O.P.)

10	3.51	4.34	5.37	6.71	-	-	-	-	-
20	2.63	3.26	4.03	4.96	6.13	7.62	-	-	-
30	1.89	2.38	2.95	3.64	4.47	5.48	6.73	8.30	-
40	1.29	1.65	2.08	2.59	3.19	3.90	4.76	5.80	-
45	-	1.35	1.71	2.14	2.65	3.26	3.98	4.84	-
50	-	-	1.38	1.75	2.18	2.70	3.30	4.02	-
55	-	-	-	1.41	1.77	2.21	2.72	3.32	-
60	-	-	-	-	-	1.79	2.22	2.73	-

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

Cooling capacity	3 341	W
Power input	1 560	W
Current consumption	3.10	A
Mass flow	79	kg/h
C.O.P.	2.14	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	2 837	3 629	4 581	5 711	-	-	-	-	-
20	2 495	3 240	4 128	5 179	6 411	7 843	-	-	-
30	2 132	2 824	3 643	4 608	5 738	7 053	8 571	10 311	-
40	1 751	2 383	3 127	4 001	5 024	6 215	7 593	9 177	-
45	-	2 155	2 859	3 685	4 652	5 779	7 085	8 589	-
50	-	-	2 584	3 360	4 270	5 331	6 564	7 986	-
55	-	-	-	3 028	3 879	4 873	6 031	7 370	-
60	-	-	-	-	3 478	4 405	5 486	6 741	-

Power input in W

10	858	861	867	881	-	-	-	-	-
20	1 056	1 064	1 067	1 070	1 080	1 100	-	-	-
30	1 285	1 310	1 323	1 328	1 331	1 337	1 351	1 379	-
40	1 550	1 605	1 640	1 659	1 668	1 672	1 677	1 687	-
45	-	1 771	1 822	1 853	1 870	1 878	1 882	1 888	-
50	-	-	2 020	2 066	2 094	2 109	2 116	2 121	-
55	-	-	-	2 299	2 341	2 366	2 380	2 387	-
60	-	-	-	-	2 612	2 651	2 674	2 686	-

Current consumption in A

10	1.68	1.71	1.73	1.74	-	-	-	-	-
20	2.21	2.25	2.27	2.28	2.29	2.30	-	-	-
30	2.51	2.56	2.59	2.61	2.62	2.63	2.64	2.66	-
40	2.75	2.81	2.85	2.88	2.90	2.92	2.93	2.96	-
45	-	2.97	3.02	3.05	3.07	3.09	3.12	3.14	-
50	-	-	3.23	3.27	3.30	3.33	3.35	3.38	-
55	-	-	-	3.56	3.60	3.63	3.66	3.69	-
60	-	-	-	-	3.99	4.03	4.06	4.10	-

Mass flow in kg/h

10	55	70	87	107	-	-	-	-	-
20	53	68	85	105	127	154	-	-	-
30	50	65	82	102	125	151	180	214	-
40	46	61	78	98	121	147	176	210	-
45	-	58	76	96	118	144	174	207	-
50	-	-	73	93	116	142	171	204	-
55	-	-	-	90	113	139	168	201	-
60	-	-	-	-	109	135	165	198	-

Coefficient of performance (C.O.P.)

10	3.31	4.22	5.29	6.48	-	-	-	-	-
20	2.36	3.05	3.87	4.84	5.94	7.13	-	-	-
30	1.66	2.15	2.75	3.47	4.31	5.27	6.34	7.48	-
40	1.13	1.49	1.91	2.41	3.01	3.72	4.53	5.44	-
45	-	1.22	1.57	1.99	2.49	3.08	3.76	4.55	-
50	-	-	1.28	1.63	2.04	2.53	3.10	3.76	-
55	-	-	-	1.32	1.66	2.06	2.53	3.09	-
60	-	-	-	-	1.33	1.66	2.05	2.51	-

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

Cooling capacity	3 685	W
Power input	1 853	W
Current consumption	3.05	A
Mass flow	96	kg/h
C.O.P.	1.99	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	3 013	3 851	4 856	6 048	-	-	-	-	-
20	2 670	3 462	4 407	5 522	6 829	8 346	-	-	-
30	2 303	3 045	3 923	4 956	6 164	7 568	9 186	11 038	-
40	1 915	2 602	3 407	4 352	5 457	6 740	8 223	9 926	-
45	-	2 370	3 138	4 037	5 088	6 310	7 724	9 349	-
50	-	-	2 862	3 714	4 709	5 869	7 213	8 761	-
55	-	-	-	3 383	4 323	5 419	6 692	8 162	-
60	-	-	-	-	-	4 962	6 165	7 557	-

Power input in W

10	858	861	867	881	-	-	-	-	-
20	1 056	1 064	1 067	1 070	1 080	1 100	-	-	-
30	1 285	1 310	1 323	1 328	1 331	1 337	1 351	1 379	-
40	1 550	1 605	1 640	1 659	1 668	1 672	1 677	1 687	-
45	-	1 771	1 822	1 853	1 870	1 878	1 882	1 888	-
50	-	-	2 020	2 066	2 094	2 109	2 116	2 121	-
55	-	-	-	2 299	2 341	2 366	2 380	2 387	-
60	-	-	-	-	-	2 651	2 674	2 686	-

Current consumption in A

10	1.68	1.71	1.73	1.74	-	-	-	-	-
20	2.21	2.25	2.27	2.28	2.29	2.30	-	-	-
30	2.51	2.56	2.59	2.61	2.62	2.63	2.64	2.66	-
40	2.75	2.81	2.85	2.88	2.90	2.92	2.93	2.96	-
45	-	2.97	3.02	3.05	3.07	3.09	3.12	3.14	-
50	-	-	3.23	3.27	3.30	3.33	3.35	3.38	-
55	-	-	-	3.56	3.60	3.63	3.66	3.69	-
60	-	-	-	-	-	4.03	4.06	4.10	-

Mass flow in kg/h

10	55	70	86	106	-	-	-	-	-
20	53	67	84	104	127	153	-	-	-
30	50	64	81	101	124	150	179	213	-
40	45	60	78	97	120	146	175	209	-
45	-	58	75	95	118	144	173	206	-
50	-	-	73	92	115	141	170	203	-
55	-	-	-	89	112	138	167	200	-
60	-	-	-	-	-	135	164	197	-

Coefficient of performance (C.O.P.)

10	3.51	4.47	5.60	6.86	-	-	-	-	-
20	2.53	3.26	4.13	5.16	6.33	7.59	-	-	-
30	1.79	2.32	2.97	3.73	4.63	5.66	6.80	8.00	-
40	1.24	1.62	2.08	2.62	3.27	4.03	4.90	5.88	-
45	-	1.34	1.72	2.18	2.72	3.36	4.10	4.95	-
50	-	-	1.42	1.80	2.25	2.78	3.41	4.13	-
55	-	-	-	1.47	1.85	2.29	2.81	3.42	-
60	-	-	-	-	-	1.87	2.31	2.81	-

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

Cooling capacity	4 037	W
Power input	1 853	W
Current consumption	3.05	A
Mass flow	95	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 acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	2 830	3 231	4 001	4 914	-	-	-	-	-
20	2 552	2 933	3 667	4 537	5 561	6 754	-	-	-
30	2 233	2 586	3 268	4 080	5 039	6 162	7 465	8 965	-
40	1 886	2 202	2 816	3 555	4 434	5 472	6 683	8 085	-
45	-	-	2 575	3 271	4 105	5 094	6 253	7 600	-
50	-	-	-	2 976	3 760	4 696	5 801	7 089	-
55	-	-	-	-	3 402	4 281	5 326	6 552	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	786	788	790	790	-	-	-	-	-
20	953	959	965	969	972	973	-	-	-
30	1 160	1 171	1 185	1 194	1 201	1 206	1 209	1 213	-
40	1 426	1 443	1 466	1 484	1 497	1 507	1 514	1 520	-
45	-	-	1 636	1 659	1 676	1 689	1 699	1 707	-
50	-	-	-	1 857	1 879	1 896	1 909	1 919	-
55	-	-	-	-	2 107	2 129	2 146	2 159	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	1.82	1.84	1.87	1.88	-	-	-	-	-
20	2.40	2.42	2.45	2.46	2.47	2.47	-	-	-
30	2.73	2.75	2.78	2.80	2.81	2.81	2.82	2.83	-
40	3.03	3.05	3.08	3.09	3.10	3.10	3.11	3.12	-
45	-	-	3.27	3.28	3.29	3.30	3.30	3.31	-
50	-	-	-	3.54	3.55	3.55	3.56	3.57	-
55	-	-	-	-	3.90	3.90	3.90	3.91	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	49	56	69	83	-	-	-	-	-
20	48	55	68	83	100	120	-	-	-
30	46	53	66	81	98	119	142	169	-
40	43	49	62	77	95	115	139	166	-
45	-	-	60	75	93	113	137	164	-
50	-	-	-	72	90	110	134	161	-
55	-	-	-	-	86	107	131	158	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.60	4.10	5.07	6.22	-	-	-	-	-
20	2.68	3.06	3.80	4.68	5.72	6.94	-	-	-
30	1.92	2.21	2.76	3.42	4.20	5.11	6.17	7.39	-
40	1.32	1.53	1.92	2.40	2.96	3.63	4.41	5.32	-
45	-	-	1.57	1.97	2.45	3.02	3.68	4.45	-
50	-	-	-	1.60	2.00	2.48	3.04	3.69	-
55	-	-	-	-	1.61	2.01	2.48	3.04	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	3 271	W
Power input	1 659	W
Current consumption	3.28	A
Mass flow	75	kg/h
C.O.P.	1.97	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	2 991	3 413	4 223	5 184	-	-	-	-	-
20	2 713	3 117	3 894	4 814	5 895	7 155	-	-	-
30	2 392	2 769	3 495	4 359	5 379	6 572	7 956	9 546	-
40	-	2 380	3 041	3 834	4 777	5 888	7 185	8 683	-
45	-	-	2 797	3 549	4 448	5 513	6 760	8 208	-
50	-	-	-	3 252	4 104	5 118	6 313	7 706	-
55	-	-	-	-	-	4 706	5 846	7 181	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	786	788	790	790	-	-	-	-	-
20	953	959	965	969	972	973	-	-	-
30	1 160	1 171	1 185	1 194	1 201	1 206	1 209	1 213	-
40	-	1 443	1 466	1 484	1 497	1 507	1 514	1 520	-
45	-	-	1 636	1 659	1 676	1 689	1 699	1 707	-
50	-	-	-	1 857	1 879	1 896	1 909	1 919	-
55	-	-	-	-	-	2 129	2 146	2 159	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	1.82	1.84	1.87	1.88	-	-	-	-	-
20	2.40	2.42	2.45	2.46	2.47	2.47	-	-	-
30	2.73	2.75	2.78	2.80	2.81	2.81	2.82	2.83	-
40	-	3.05	3.08	3.09	3.10	3.10	3.11	3.12	-
45	-	-	3.27	3.28	3.29	3.30	3.30	3.31	-
50	-	-	-	3.54	3.55	3.55	3.56	3.57	-
55	-	-	-	-	-	3.90	3.90	3.91	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	49	56	68	83	-	-	-	-	-
20	48	55	67	82	99	119	-	-	-
30	46	52	65	80	98	118	141	168	-
40	-	49	62	77	94	115	138	165	-
45	-	-	60	74	92	112	136	163	-
50	-	-	-	72	89	110	133	160	-
55	-	-	-	-	-	106	130	157	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.81	4.33	5.35	6.56	-	-	-	-	-
20	2.85	3.25	4.03	4.97	6.07	7.35	-	-	-
30	2.06	2.36	2.95	3.65	4.48	5.45	6.58	7.87	-
40	-	1.65	2.07	2.58	3.19	3.91	4.74	5.71	-
45	-	-	1.71	2.14	2.65	3.26	3.98	4.81	-
50	-	-	-	1.75	2.18	2.70	3.31	4.02	-
55	-	-	-	-	-	2.21	2.72	3.33	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	3 549	W
Power input	1 659	W
Current consumption	3.28	A
Mass flow	74	kg/h
C.O.P.	2.14	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	3 355	3 877	4 878	6 062	-	-	-	-	-
20	2 986	3 480	4 421	5 528	6 822	8 321	-	-	-
30	2 591	3 051	3 924	4 948	6 143	7 527	9 122	10 946	-
40	2 171	2 594	3 393	4 326	5 415	6 677	8 134	9 805	-
45	-	-	3 115	4 001	5 033	6 232	7 618	9 209	-
50	-	-	-	3 666	4 641	5 774	7 087	8 597	-
55	-	-	-	-	4 238	5 304	6 542	7 969	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	914	914	920	944	-	-	-	-	-
20	1 133	1 133	1 130	1 132	1 147	1 183	-	-	-
30	1 392	1 404	1 411	1 409	1 409	1 417	1 444	1 499	-
40	1 687	1 722	1 757	1 772	1 775	1 774	1 779	1 800	-
45	-	-	1 954	1 984	1 995	1 997	1 999	2 009	-
50	-	-	-	2 215	2 240	2 249	2 252	2 257	-
55	-	-	-	-	2 508	2 530	2 539	2 543	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	1.80	1.82	1.84	1.84	-	-	-	-	-
20	2.39	2.41	2.43	2.44	2.44	2.44	-	-	-
30	2.73	2.75	2.78	2.80	2.80	2.81	2.82	2.83	-
40	3.00	3.04	3.07	3.10	3.11	3.12	3.14	3.16	-
45	-	-	3.25	3.28	3.30	3.32	3.34	3.36	-
50	-	-	-	3.53	3.55	3.57	3.60	3.62	-
55	-	-	-	-	3.88	3.91	3.93	3.96	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	59	67	84	103	-	-	-	-	-
20	56	65	82	101	123	148	-	-	-
30	53	62	79	98	120	145	173	206	-
40	49	58	75	94	116	141	169	202	-
45	-	-	72	92	113	138	167	199	-
50	-	-	-	89	111	136	164	196	-
55	-	-	-	-	108	132	161	192	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.67	4.24	5.30	6.42	-	-	-	-	-
20	2.64	3.07	3.91	4.88	5.95	7.03	-	-	-
30	1.86	2.17	2.78	3.51	4.36	5.31	6.32	7.30	-
40	1.29	1.51	1.93	2.44	3.05	3.76	4.57	5.45	-
45	-	-	1.59	2.02	2.52	3.12	3.81	4.58	-
50	-	-	-	1.66	2.07	2.57	3.15	3.81	-
55	-	-	-	-	1.69	2.10	2.58	3.13	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 001	W
Power input	1 984	W
Current consumption	3.28	A
Mass flow	92	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 : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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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	3 545	4 095	5 150	6 395	-	-	-	-	-
20	3 175	3 698	4 694	5 865	7 232	8 814	-	-	-
30	2 776	3 267	4 197	5 288	6 558	8 029	9 721	11 655	-
40	-	2 805	3 664	4 666	5 834	7 186	8 745	10 531	-
45	-	-	3 384	4 341	5 454	6 745	8 235	9 945	-
50	-	-	-	4 006	5 064	6 293	7 713	9 345	-
55	-	-	-	-	-	5 831	7 180	8 734	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	914	914	920	944	-	-	-	-	-
20	1 133	1 133	1 130	1 132	1 147	1 183	-	-	-
30	1 392	1 404	1 411	1 409	1 409	1 417	1 444	1 499	-
40	-	1 722	1 757	1 772	1 775	1 774	1 779	1 800	-
45	-	-	1 954	1 984	1 995	1 997	1 999	2 009	-
50	-	-	-	2 215	2 240	2 249	2 252	2 257	-
55	-	-	-	-	-	2 530	2 539	2 543	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	1.80	1.82	1.84	1.84	-	-	-	-	-
20	2.39	2.41	2.43	2.44	2.44	2.44	-	-	-
30	2.73	2.75	2.78	2.80	2.80	2.81	2.82	2.83	-
40	-	3.04	3.07	3.10	3.11	3.12	3.14	3.16	-
45	-	-	3.25	3.28	3.30	3.32	3.34	3.36	-
50	-	-	-	3.53	3.55	3.57	3.60	3.62	-
55	-	-	-	-	-	3.91	3.93	3.96	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	58	67	83	102	-	-	-	-	-
20	56	65	81	100	122	147	-	-	-
30	53	62	78	97	119	144	172	205	-
40	-	58	74	93	115	140	168	200	-
45	-	-	72	91	113	138	166	198	-
50	-	-	-	88	110	135	163	195	-
55	-	-	-	-	-	132	160	191	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.88	4.48	5.60	6.77	-	-	-	-	-
20	2.80	3.26	4.15	5.18	6.31	7.45	-	-	-
30	1.99	2.33	2.98	3.75	4.66	5.67	6.73	7.78	-
40	-	1.63	2.08	2.63	3.29	4.05	4.91	5.85	-
45	-	-	1.73	2.19	2.73	3.38	4.12	4.95	-
50	-	-	-	1.81	2.26	2.80	3.42	4.14	-
55	-	-	-	-	-	2.30	2.83	3.43	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 341	W
Power input	1 984	W
Current consumption	3.28	A
Mass flow	91	kg/h
C.O.P.	2.19	

Pressure switch settings

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

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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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	1 965	2 470	3 075	3 797	4 650	-	-	-	-
20	1 766	2 255	2 834	3 519	4 324	5 264	6 355	-	-
30	-	-	2 544	3 180	3 926	4 796	5 805	6 969	8 303
40	-	-	-	2 792	3 466	4 254	5 171	6 231	7 450
50	-	-	-	-	2 955	3 650	4 463	5 408	6 501
60	-	-	-	-	-	-	3 690	4 509	5 465

Power input in W

10	775	785	796	806	811	-	-	-	-
20	955	956	965	980	996	1 009	1 018	-	-
30	-	-	1 188	1 194	1 208	1 227	1 247	1 264	1 275
40	-	-	-	1 496	1 497	1 508	1 527	1 549	1 573
50	-	-	-	-	1 908	1 900	1 905	1 921	1 944
60	-	-	-	-	-	-	2 429	2 426	2 436

Current consumption in A

10	2.51	2.50	2.50	2.49	2.48	-	-	-	-
20	2.61	2.62	2.63	2.64	2.65	2.65	2.66	-	-
30	-	-	2.81	2.83	2.85	2.86	2.88	2.89	2.91
40	-	-	-	3.13	3.15	3.16	3.18	3.20	3.21
50	-	-	-	-	3.61	3.62	3.63	3.64	3.65
60	-	-	-	-	-	-	4.29	4.28	4.28

Mass flow in kg/h

10	32	41	51	63	77	-	-	-	-
20	31	40	50	62	77	94	115	-	-
30	-	-	49	61	76	93	114	139	167
40	-	-	-	59	73	91	112	136	165
50	-	-	-	-	70	87	108	132	161
60	-	-	-	-	-	-	102	126	155

Coefficient of performance (C.O.P.)

10	2.54	3.15	3.86	4.71	5.73	-	-	-	-
20	1.85	2.36	2.94	3.59	4.34	5.22	6.24	-	-
30	-	-	2.14	2.66	3.25	3.91	4.66	5.51	6.51
40	-	-	-	1.87	2.32	2.82	3.39	4.02	4.74
50	-	-	-	-	1.55	1.92	2.34	2.82	3.34
60	-	-	-	-	-	-	1.52	1.86	2.24

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

Cooling capacity	3 216	W
Power input	1 684	W
Current consumption	3.35	A
Mass flow	72	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		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R448A

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

Cooling capacity in W

10	1 974	2 482	3 093	3 821	4 680	-	-	-	-
20	1 751	2 241	2 823	3 512	4 323	5 270	6 367	-	-
30	1 503	1 962	2 504	3 142	3 893	4 772	5 792	6 965	8 303
40	-	-	2 147	2 723	3 402	4 200	5 132	6 211	7 450
50	-	-	-	2 266	2 862	3 567	4 398	5 371	6 501
60	-	-	-	-	2 282	2 882	3 601	4 456	5 465

Power input in W

10	775	785	796	806	811	-	-	-	-
20	955	956	965	980	996	1 009	1 018	-	-
30	1 211	1 192	1 188	1 194	1 208	1 227	1 247	1 264	1 275
40	-	-	1 510	1 496	1 497	1 508	1 527	1 549	1 573
50	-	-	-	1 933	1 908	1 900	1 905	1 921	1 944
60	-	-	-	-	2 488	2 448	2 429	2 426	2 436

Current consumption in A

10	2.51	2.50	2.50	2.49	2.48	-	-	-	-
20	2.61	2.62	2.63	2.64	2.65	2.65	2.66	-	-
30	2.78	2.80	2.81	2.83	2.85	2.86	2.88	2.89	2.91
40	-	-	3.12	3.13	3.15	3.16	3.18	3.20	3.21
50	-	-	-	3.61	3.61	3.62	3.63	3.64	3.65
60	-	-	-	-	4.31	4.30	4.29	4.28	4.28

Mass flow in kg/h

10	38	47	58	70	85	-	-	-	-
20	37	46	57	70	85	102	121	-	-
30	35	44	55	68	83	100	120	142	167
40	-	-	53	66	80	98	117	140	165
50	-	-	-	61	76	93	113	136	161
60	-	-	-	-	71	88	107	130	155

Coefficient of performance (C.O.P.)

10	2.55	3.16	3.88	4.74	5.77	-	-	-	-
20	1.83	2.34	2.92	3.58	4.34	5.22	6.26	-	-
30	1.24	1.65	2.11	2.63	3.22	3.89	4.65	5.51	6.51
40	-	-	1.42	1.82	2.27	2.78	3.36	4.01	4.74
50	-	-	-	1.17	1.50	1.88	2.31	2.80	3.34
60	-	-	-	-	0.92	1.18	1.48	1.84	2.24

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

Cooling capacity	3 137	W
Power input	1 684	W
Current consumption	3.35	A
Mass flow	79	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		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	1 965	2 470	3 075	3 797	4 650	-	-	-	-
20	1 766	2 255	2 834	3 519	4 324	5 264	6 355	-	-
30	-	-	2 544	3 180	3 926	4 796	5 805	6 969	8 303
40	-	-	-	2 792	3 466	4 254	5 171	6 231	7 450
50	-	-	-	-	2 955	3 650	4 463	5 408	6 501
60	-	-	-	-	-	-	3 690	4 509	5 465

Power input in W

10	775	785	796	806	811	-	-	-	-
20	955	956	965	980	996	1 009	1 018	-	-
30	-	-	1 188	1 194	1 208	1 227	1 247	1 264	1 275
40	-	-	-	1 496	1 497	1 508	1 527	1 549	1 573
50	-	-	-	-	1 908	1 900	1 905	1 921	1 944
60	-	-	-	-	-	-	2 429	2 426	2 436

Current consumption in A

10	2.51	2.50	2.50	2.49	2.48	-	-	-	-
20	2.61	2.62	2.63	2.64	2.65	2.65	2.66	-	-
30	-	-	2.81	2.83	2.85	2.86	2.88	2.89	2.91
40	-	-	-	3.13	3.15	3.16	3.18	3.20	3.21
50	-	-	-	-	3.61	3.62	3.63	3.64	3.65
60	-	-	-	-	-	-	4.29	4.28	4.28

Mass flow in kg/h

10	32	41	51	63	77	-	-	-	-
20	31	40	50	62	77	94	115	-	-
30	-	-	49	61	76	93	114	139	167
40	-	-	-	59	73	91	112	136	165
50	-	-	-	-	70	87	108	132	161
60	-	-	-	-	-	-	102	126	155

Coefficient of performance (C.O.P.)

10	2.54	3.15	3.86	4.71	5.73	-	-	-	-
20	1.85	2.36	2.94	3.59	4.34	5.22	6.24	-	-
30	-	-	2.14	2.66	3.25	3.91	4.66	5.51	6.51
40	-	-	-	1.87	2.32	2.82	3.39	4.02	4.74
50	-	-	-	-	1.55	1.92	2.34	2.82	3.34
60	-	-	-	-	-	-	1.52	1.86	2.24

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

Cooling capacity	3 216	W
Power input	1 684	W
Current consumption	3.35	A
Mass flow	72	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		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K
R449A

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

Cooling capacity in W

10	1 969	2 477	3 088	3 816	4 676	-	-	-	-
20	1 746	2 236	2 817	3 507	4 318	5 266	6 364	-	-
30	1 498	1 957	2 498	3 137	3 888	4 767	5 788	6 963	8 303
40	-	-	2 141	2 717	3 397	4 195	5 128	6 209	7 450
50	-	-	-	2 260	2 856	3 561	4 394	5 369	6 501
60	-	-	-	-	2 277	2 877	3 597	4 453	5 465

Power input in W

10	775	785	796	806	811	-	-	-	-
20	955	956	965	980	996	1 009	1 018	-	-
30	1 211	1 192	1 188	1 194	1 208	1 227	1 247	1 264	1 275
40	-	-	1 510	1 496	1 497	1 508	1 527	1 549	1 573
50	-	-	-	1 933	1 908	1 900	1 905	1 921	1 944
60	-	-	-	-	2 488	2 448	2 429	2 426	2 436

Current consumption in A

10	2.51	2.50	2.50	2.49	2.48	-	-	-	-
20	2.61	2.62	2.63	2.64	2.65	2.65	2.66	-	-
30	2.78	2.80	2.81	2.83	2.85	2.86	2.88	2.89	2.91
40	-	-	3.12	3.13	3.15	3.16	3.18	3.20	3.21
50	-	-	-	3.61	3.61	3.62	3.63	3.64	3.65
60	-	-	-	-	4.31	4.30	4.29	4.28	4.28

Mass flow in kg/h

10	38	47	58	70	85	-	-	-	-
20	37	46	57	70	85	102	121	-	-
30	35	44	55	68	83	100	120	142	167
40	-	-	53	66	80	98	117	140	165
50	-	-	-	61	76	93	113	136	161
60	-	-	-	-	71	88	107	130	155

Coefficient of performance (C.O.P.)

10	2.54	3.16	3.88	4.73	5.76	-	-	-	-
20	1.83	2.34	2.92	3.58	4.34	5.22	6.25	-	-
30	1.24	1.64	2.10	2.63	3.22	3.88	4.64	5.51	6.51
40	-	-	1.42	1.82	2.27	2.78	3.36	4.01	4.74
50	-	-	-	1.17	1.50	1.87	2.31	2.79	3.34
60	-	-	-	-	0.91	1.18	1.48	1.84	2.24

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

Cooling capacity	3 132	W
Power input	1 684	W
Current consumption	3.35	A
Mass flow	79	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		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900