

### General Characteristics

Model number (on compressor nameplate)		<b>LLZ015T4LQ9A</b>
Code number for Singlepack*		121L9537
Code number for Industrial pack**		121L9536
Drawing number		05R7510D-2
Suction and discharge connections		Rotolock
Suction connection		1-1/4 " Rotolock
Economizer connection		1 " Rotolock
Discharge connection		1 " Rotolock
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		83.5 cm <sup>3</sup> /rev
Displacement @ Nominal speed		14.5 m <sup>3</sup> /h @ 2900 rpm - 17.5 m <sup>3</sup> /h @ 3500 rpm
Net weight		42 kg
Oil charge		1.62 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		4.54 kg
Approved refrigerants		R404A, R507, R452A, R448A, R449A

### Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	88.5 A
Motor protection	Internal overload protector

### Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

### Parts shipped with compressor

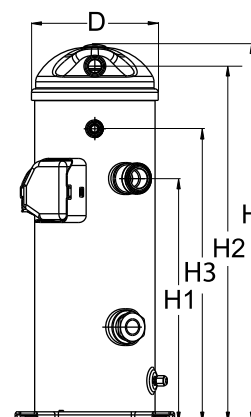
Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals :** CE certified, -, -

\*Singlepack: Compressor in cardboard box

\*\*Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

### Dimensions



D=184 mm

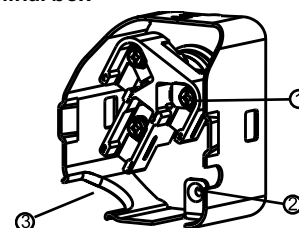
H=485.4 mm

H1=309.4 mm

H2=458.2 mm

H3=381.7 mm

### Terminal box



IP22

1: Screw connectors 10-32 UNF x 9.5

2: Earth connection

3: Power cable passage

Rotolock accessories, suction side	Code no.
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Rotolock accessories, discharge side	Code no.
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Rotolock accessories, sets	Code no.
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Oil / lubricants	Code no.
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POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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Crankcase heaters	Code no.
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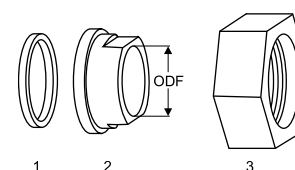
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041
Belt type crankcase heater, 70 W, 575V, CE mark, UL	120Z5042
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060

Miscellaneous accessories	Code no.
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Acoustic hood	120Z5052
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057
Magnetic discharge non return valve	120Z5046

Spare parts	Code no.
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Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, rotolock connection kit for suction, discharge and economizer fitting for 1 scroll compressor including 3 Teflon seal, 2 nuts, 3 sleeves	120Z0662
Terminal box cover	120Z5018

**Gaskets, sleeves and nuts**


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

### General Characteristics

Model number (on compressor nameplate)		<b>LLZ015T4LQ9</b>
Code number for Singlepack*		121L9513
Code number for Industrial pack**		121L9512
Drawing number		05R7510D-2
Suction and discharge connections		Rotolock
Suction connection		1-1/4 " Rotolock
Economizer connection		1 " Rotolock
Discharge connection		1 " Rotolock
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		83.5 cm3/rev
Displacement @ Nominal speed		14.5 m3/h @ 2900 rpm - 17.5 m3/h @ 3500 rpm
Net weight		42 kg
Oil charge		1.62 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		4.54 kg
Approved refrigerants		R404A, R507

### Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	340-457 V @ 50Hz - 414-506 V @ 60Hz
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	88.5 A
Motor protection	Internal overload protector

### Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

### Parts shipped with compressor

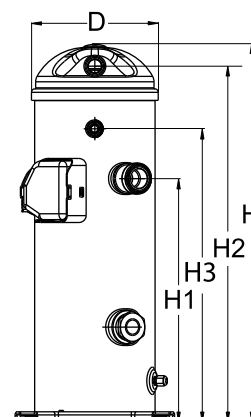
Mounting kit with grommets and sleeves
Rotolock connection kit for Suction, Economizer and Discharge fittings with seals, nuts and sleeves.
Initial oil charge
Installation instructions

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

\*Singlepack: Compressor in cardboard box

\*\*Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

### Dimensions



D=184 mm

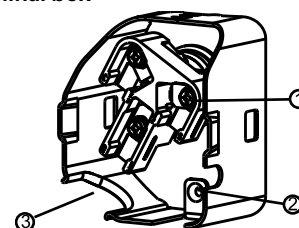
H=485.4 mm

H1=309.4 mm

H2=458.2 mm

H3=381.7 mm

### Terminal box



IP22

1: Screw connectors 10-32 UNF x 9.5

2: Earth connection

3: Power cable passage

Rotolock accessories, suction side	Code no.
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Rotolock accessories, discharge side	Code no.
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Rotolock accessories, sets	Code no.
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Oil / lubricants	Code no.
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PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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Crankcase heaters	Code no.
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Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041
Belt type crankcase heater, 70 W, 575V, CE mark, UL	120Z5042
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060

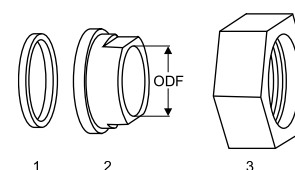
Miscellaneous accessories	Code no.
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Acoustic hood	120Z5052
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057
Magnetic discharge non return valve	120Z5046

Spare parts	Code no.
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Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, rotolock connection kit for suction, discharge and economizer fitting for 1 scroll compressor including 3 Teflon seal, 2 nuts, 3 sleeves	120Z5067
Terminal box cover	120Z5018

#### Gaskets, sleeves and nuts



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

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

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	3 697	4 687	5 941	7 483	9 337	11 527	14 074	-
10	-	3 505	4 457	5 657	7 127	8 894	10 981	13 410	-
15	-	3 312	4 223	5 365	6 762	8 439	10 420	12 729	-
20	-	3 115	3 984	5 065	6 386	7 970	9 844	12 030	-
30	-	2 706	3 480	4 435	5 595	6 988	8 638	10 572	-
40	-	2 267	2 937	3 754	4 745	5 936	7 353	9 025	-
50	-	-	2 343	3 013	3 825	4 803	5 977	7 376	-
60	-	-	-	-	-	-	4 494	5 608	-

**Power input in W**

5	-	1 711	1 842	1 944	2 004	2 011	1 954	1 820	-
10	-	1 830	1 979	2 106	2 200	2 249	2 240	2 163	-
15	-	1 941	2 106	2 257	2 382	2 469	2 508	2 485	-
20	-	2 050	2 228	2 401	2 555	2 679	2 761	2 791	-
30	-	2 282	2 480	2 688	2 893	3 083	3 248	3 375	-
40	-	2 567	2 776	3 010	3 256	3 504	3 741	3 956	-
50	-	-	3 157	3 407	3 686	3 981	4 281	4 575	-
60	-	-	-	-	-	-	4 911	5 274	-

**Current consumption in A**

5	-	5.31	5.39	5.46	5.51	5.54	5.51	5.43	-
10	-	5.40	5.50	5.60	5.69	5.75	5.77	5.74	-
15	-	5.48	5.60	5.73	5.85	5.95	6.02	6.04	-
20	-	5.56	5.70	5.86	6.01	6.15	6.26	6.32	-
30	-	5.74	5.93	6.13	6.35	6.56	6.75	6.91	-
40	-	6.01	6.23	6.48	6.76	7.04	7.31	7.56	-
50	-	-	6.66	6.96	7.29	7.64	7.99	8.33	-
60	-	-	-	-	-	-	8.85	9.28	-

**Mass flow in kg/h**

5	-	118	139	164	196	234	279	331	-
10	-	108	129	156	187	225	270	322	-
15	-	101	123	149	181	219	264	316	-
20	-	95	118	145	176	214	259	311	-
30	-	90	113	140	172	209	253	303	-
40	-	89	112	138	169	206	248	298	-
50	-	-	110	136	166	201	242	290	-
60	-	-	-	-	-	-	232	277	-

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

5	-	2.16	2.54	3.06	3.73	4.64	5.90	7.73	-
10	-	1.92	2.25	2.69	3.24	3.96	4.90	6.20	-
15	-	1.71	2.01	2.38	2.84	3.42	4.16	5.12	-
20	-	1.52	1.79	2.11	2.50	2.98	3.56	4.31	-
30	-	1.19	1.40	1.65	1.93	2.27	2.66	3.13	-
40	-	0.88	1.06	1.25	1.46	1.69	1.97	2.28	-
50	-	-	0.74	0.88	1.04	1.21	1.40	1.61	-
60	-	-	-	-	-	-	0.92	1.06	-

**Nominal performance at to = -35 °C, tc = 40 °C**

Cooling capacity	2 937	W
Power input	2 776	W
Current consumption	6.23	A
Mass flow	112	kg/h
C.O.P.	1.06	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

Sound power level	80	dB(A)
With accoustic hood	72	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, Suction temp. = 18.3 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	3 852	4 855	6 117	7 660	9 505	11 672	14 185	-
10	-	3 694	4 663	5 876	7 352	9 113	11 180	13 574	-
15	-	3 534	4 468	5 628	7 035	8 709	10 673	12 946	-
20	-	3 371	4 267	5 373	6 707	8 293	10 150	12 301	-
30	-	3 031	3 844	4 832	6 015	7 416	9 054	10 951	-
40	-	-	-	4 242	5 264	6 469	7 877	9 510	-
50	-	-	-	-	-	5 440	6 608	7 968	-
60	-	-	-	-	-	-	5 236	6 312	-

**Power input in W**

5	-	1 711	1 842	1 944	2 004	2 011	1 954	1 820	-
10	-	1 830	1 979	2 106	2 200	2 249	2 240	2 163	-
15	-	1 941	2 106	2 257	2 382	2 469	2 508	2 485	-
20	-	2 050	2 228	2 401	2 555	2 679	2 761	2 791	-
30	-	2 282	2 480	2 688	2 893	3 083	3 248	3 375	-
40	-	-	-	3 010	3 256	3 504	3 741	3 956	-
50	-	-	-	-	-	3 981	4 281	4 575	-
60	-	-	-	-	-	-	4 911	5 274	-

**Current consumption in A**

5	-	5.31	5.39	5.46	5.51	5.54	5.51	5.43	-
10	-	5.40	5.50	5.60	5.69	5.75	5.77	5.74	-
15	-	5.48	5.60	5.73	5.85	5.95	6.02	6.04	-
20	-	5.56	5.70	5.86	6.01	6.15	6.26	6.32	-
30	-	5.74	5.93	6.13	6.35	6.56	6.75	6.91	-
40	-	-	-	6.48	6.76	7.04	7.31	7.56	-
50	-	-	-	-	-	7.64	7.99	8.33	-
60	-	-	-	-	-	-	8.85	9.28	-

**Mass flow in kg/h**

5	-	96	115	139	169	205	249	302	-
10	-	88	107	131	161	198	242	294	-
15	-	82	102	126	156	192	236	288	-
20	-	78	98	122	152	188	232	283	-
30	-	74	94	118	148	183	226	277	-
40	-	-	-	117	146	181	222	272	-
50	-	-	-	-	-	177	217	265	-
60	-	-	-	-	-	-	207	253	-

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

5	-	2.25	2.63	3.15	3.82	4.73	5.97	7.80	-
10	-	2.02	2.36	2.79	3.34	4.05	4.99	6.28	-
15	-	1.82	2.12	2.49	2.95	3.53	4.26	5.21	-
20	-	1.64	1.91	2.24	2.63	3.10	3.68	4.41	-
30	-	1.33	1.55	1.80	2.08	2.41	2.79	3.24	-
40	-	-	-	1.41	1.62	1.85	2.11	2.40	-
50	-	-	-	-	-	1.37	1.54	1.74	-
60	-	-	-	-	-	-	1.07	1.20	-

**Nominal performance at to = -31.7 °C, tc = 40.6 °C**

Cooling capacity	3 898	W
Power input	2 949	W
Current consumption	6.42	A
Mass flow	108	kg/h
C.O.P.	1.32	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 18.3 °C , Subcooling = 0 K

Tolerance according EN12900

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

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	4 542	5 750	7 279	9 156	11 414	14 081	17 183	-
10	-	4 266	5 423	6 879	8 664	10 809	13 345	16 298	-
15	-	4 004	5 108	6 490	8 181	10 212	12 615	15 418	-
20	-	3 751	4 800	6 106	7 702	9 618	11 887	14 539	-
30	-	3 254	4 188	5 339	6 740	8 422	10 419	12 763	-
40	-	2 740	3 552	4 543	5 743	7 186	8 905	10 937	-
50	-	-	2 860	3 682	4 676	5 873	7 310	9 022	-
60	-	-	-	-	-	-	5 589	6 974	-

**Power input in W**

5	-	2 124	2 258	2 349	2 380	2 331	2 185	1 921	-
10	-	2 254	2 419	2 552	2 636	2 651	2 579	2 402	-
15	-	2 373	2 563	2 733	2 864	2 938	2 936	2 838	-
20	-	2 489	2 699	2 900	3 073	3 200	3 261	3 239	-
30	-	2 741	2 975	3 222	3 462	3 678	3 851	3 962	-
40	-	3 071	3 307	3 578	3 864	4 148	4 411	4 633	-
50	-	-	3 758	4 030	4 340	4 670	5 000	5 312	-
60	-	-	-	-	-	-	5 681	6 061	-

**Current consumption in A**

5	-	3.65	3.83	3.85	3.74	3.55	3.30	3.05	-
10	-	4.33	4.58	4.68	4.67	4.59	4.47	4.36	-
15	-	4.79	5.09	5.26	5.33	5.35	5.35	5.37	-
20	-	5.09	5.43	5.64	5.78	5.88	5.98	6.11	-
30	-	5.41	5.76	6.03	6.25	6.47	6.72	7.04	-
40	-	5.68	5.99	6.25	6.50	6.77	7.11	7.54	-
50	-	-	6.54	6.73	6.93	7.20	7.55	8.04	-
60	-	-	-	-	-	-	8.47	8.95	-

**Mass flow in kg/h**

5	-	133	152	179	216	261	314	376	-
10	-	126	147	175	213	258	312	375	-
15	-	120	142	172	211	257	311	373	-
20	-	116	139	170	209	255	309	371	-
30	-	110	135	168	207	253	306	367	-
40	-	108	134	166	205	251	303	361	-
50	-	-	134	166	203	247	297	352	-
60	-	-	-	-	-	-	288	340	-

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

5	-	2.14	2.55	3.10	3.85	4.90	6.45	8.94	-
10	-	1.89	2.24	2.70	3.29	4.08	5.17	6.79	-
15	-	1.69	1.99	2.37	2.86	3.48	4.30	5.43	-
20	-	1.51	1.78	2.11	2.51	3.01	3.65	4.49	-
30	-	1.19	1.41	1.66	1.95	2.29	2.71	3.22	-
40	-	0.89	1.07	1.27	1.49	1.73	2.02	2.36	-
50	-	-	0.76	0.91	1.08	1.26	1.46	1.70	-
60	-	-	-	-	-	-	0.98	1.15	-

**Nominal performance at to = -35 °C, tc = 40 °C**

Cooling capacity	3 552	W
Power input	3 307	W
Current consumption	5.99	A
Mass flow	134	kg/h
C.O.P.	1.07	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

Sound power level	83	dB(A)
With accoustic hood	75	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, Suction temp. = 18.3 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	4 732	5 956	7 494	9 373	11 618	14 258	17 319	-
10	-	4 496	5 674	7 145	8 937	11 075	13 586	16 498	-
15	-	4 273	5 404	6 808	8 511	10 540	12 921	15 681	-
20	-	4 060	5 142	6 477	8 090	10 008	12 258	14 866	-
30	-	3 645	4 626	5 817	7 246	8 938	10 921	13 220	-
40	-	-	-	5 132	6 370	7 831	9 540	11 525	-
50	-	-	-	-	-	6 652	8 082	9 746	-
60	-	-	-	-	-	-	6 511	7 848	-

**Power input in W**

5	-	2 124	2 258	2 349	2 380	2 331	2 185	1 921	-
10	-	2 254	2 419	2 552	2 636	2 651	2 579	2 402	-
15	-	2 373	2 563	2 733	2 864	2 938	2 936	2 838	-
20	-	2 489	2 699	2 900	3 073	3 200	3 261	3 239	-
30	-	2 741	2 975	3 222	3 462	3 678	3 851	3 962	-
40	-	-	-	3 578	3 864	4 148	4 411	4 633	-
50	-	-	-	-	-	4 670	5 000	5 312	-
60	-	-	-	-	-	-	5 681	6 061	-

**Current consumption in A**

5	-	3.65	3.83	3.85	3.74	3.55	3.30	3.05	-
10	-	4.33	4.58	4.68	4.67	4.59	4.47	4.36	-
15	-	4.79	5.09	5.26	5.33	5.35	5.35	5.37	-
20	-	5.09	5.43	5.64	5.78	5.88	5.98	6.11	-
30	-	5.41	5.76	6.03	6.25	6.47	6.72	7.04	-
40	-	-	-	6.25	6.50	6.77	7.11	7.54	-
50	-	-	-	-	-	7.20	7.55	8.04	-
60	-	-	-	-	-	-	8.47	8.95	-

**Mass flow in kg/h**

5	-	108	126	152	186	229	281	344	-
10	-	103	122	148	183	227	279	342	-
15	-	98	118	146	181	225	278	340	-
20	-	94	116	144	180	224	277	339	-
30	-	90	112	142	178	222	274	335	-
40	-	-	-	141	177	220	271	330	-
50	-	-	-	-	-	217	265	322	-
60	-	-	-	-	-	-	258	311	-

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

5	-	2.23	2.64	3.19	3.94	4.98	6.53	9.01	-
10	-	1.99	2.35	2.80	3.39	4.18	5.27	6.87	-
15	-	1.80	2.11	2.49	2.97	3.59	4.40	5.52	-
20	-	1.63	1.91	2.23	2.63	3.13	3.76	4.59	-
30	-	1.33	1.55	1.81	2.09	2.43	2.84	3.34	-
40	-	-	-	1.43	1.65	1.89	2.16	2.49	-
50	-	-	-	-	-	1.42	1.62	1.83	-
60	-	-	-	-	-	-	1.15	1.29	-

**Nominal performance at to = -31.7 °C, tc = 40.6 °C**

Cooling capacity	4 718	W
Power input	3 507	W
Current consumption	6.19	A
Mass flow	130	kg/h
C.O.P.	1.35	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

Sound power level	83	dB(A)
With acoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 18.3 °C , Subcooling = 0 K

Tolerance according EN12900

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

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	2 646	3 531	4 633	5 975	7 582	9 475	11 680	-
10	-	2 521	3 376	4 436	5 725	7 267	9 086	11 204	-
15	-	2 399	3 221	4 238	5 473	6 950	8 691	10 721	-
20	-	2 280	3 068	4 040	5 219	6 628	8 291	10 232	-
30	-	2 049	2 764	3 641	4 703	5 972	7 474	9 230	-
40	-	-	2 462	3 238	4 177	5 301	6 634	8 199	-
50	-	-	-	-	3 639	4 610	5 768	7 136	-
60	-	-	-	-	-	-	4 871	6 032	-

**Power input in W**

5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	1 809	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	2 082	2 239	2 420	2 613	2 800	2 968	3 101	-
40	-	-	2 642	2 806	3 004	3 221	3 442	3 652	-
50	-	-	-	-	3 550	3 768	4 013	4 271	-
60	-	-	-	-	-	-	4 750	5 027	-

**Current consumption in A**

5	-	5.32	5.24	5.21	5.18	5.11	4.93	4.61	-
10	-	5.62	5.57	5.58	5.61	5.60	5.50	5.27	-
15	-	5.83	5.80	5.85	5.93	5.98	5.95	5.80	-
20	-	5.97	5.97	6.05	6.17	6.27	6.31	6.23	-
30	-	6.17	6.19	6.31	6.49	6.68	6.83	6.89	-
40	-	-	6.44	6.58	6.80	7.06	7.29	7.46	-
50	-	-	-	-	7.31	7.60	7.90	8.15	-
60	-	-	-	-	-	-	8.86	9.17	-

**Mass flow in kg/h**

5	-	51	67	86	109	136	168	205	-
10	-	50	66	86	109	136	167	203	-
15	-	50	66	85	108	135	166	202	-
20	-	49	65	85	107	134	165	201	-
30	-	49	65	84	106	132	163	198	-
40	-	-	65	83	105	130	160	194	-
50	-	-	-	-	104	129	158	191	-
60	-	-	-	-	-	-	155	188	-

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

5	-	1.69	2.08	2.57	3.23	4.12	5.42	7.47	-
10	-	1.54	1.89	2.31	2.84	3.54	4.47	5.82	-
15	-	1.40	1.71	2.09	2.53	3.09	3.80	4.77	-
20	-	1.26	1.55	1.88	2.26	2.72	3.29	4.02	-
30	-	0.98	1.23	1.50	1.80	2.13	2.52	2.98	-
40	-	-	0.93	1.15	1.39	1.65	1.93	2.24	-
50	-	-	-	-	1.03	1.22	1.44	1.67	-
60	-	-	-	-	-	-	1.03	1.20	-

**Nominal performance at to = -35 °C, tc = 40 °C**

Cooling capacity	2 462	W
Power input	2 642	W
Current consumption	6.44	A
Mass flow	65	kg/h
C.O.P.	0.93	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 50 Hz, Suction temp. = 18.3 °C**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	2 619	3 496	4 588	5 917	7 509	9 387	11 577	-
10	-	2 513	3 363	4 417	5 697	7 227	9 031	11 136	-
15	-	2 410	3 231	4 245	5 474	6 941	8 671	10 687	-
20	-	-	3 100	4 073	5 249	6 652	8 305	10 231	-
30	-	-	-	-	4 794	6 063	7 557	9 300	-
40	-	-	-	-	-	5 459	6 789	8 339	-
50	-	-	-	-	-	-	-	7 349	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	-	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	-	-	-	2 613	2 800	2 968	3 101	-
40	-	-	-	-	-	3 221	3 442	3 652	-
50	-	-	-	-	-	-	-	4 271	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

5	-	5.32	5.24	5.21	5.18	5.11	4.93	4.61	-
10	-	5.62	5.57	5.58	5.61	5.60	5.50	5.27	-
15	-	5.83	5.80	5.85	5.93	5.98	5.95	5.80	-
20	-	-	5.97	6.05	6.17	6.27	6.31	6.23	-
30	-	-	-	-	6.49	6.68	6.83	6.89	-
40	-	-	-	-	-	7.06	7.29	7.46	-
50	-	-	-	-	-	-	-	8.15	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

5	-	41	56	73	94	120	151	188	-
10	-	41	55	73	94	120	150	187	-
15	-	41	55	72	94	119	149	186	-
20	-	-	55	72	93	118	148	184	-
30	-	-	-	-	92	117	146	181	-
40	-	-	-	-	-	115	144	178	-
50	-	-	-	-	-	-	-	175	-
60	-	-	-	-	-	-	-	-	-

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

5	-	1.67	2.06	2.55	3.20	4.08	5.37	7.40	-
10	-	1.54	1.88	2.30	2.83	3.52	4.45	5.79	-
15	-	1.41	1.72	2.09	2.53	3.08	3.79	4.75	-
20	-	-	1.57	1.90	2.28	2.73	3.30	4.02	-
30	-	-	-	-	1.83	2.17	2.55	3.00	-
40	-	-	-	-	-	1.69	1.97	2.28	-
50	-	-	-	-	-	-	-	1.72	-
60	-	-	-	-	-	-	-	-	-

**Nominal performance at to = -31.7 °C, tc = 40.6 °C**

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

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 18.3 °C , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	3 295	4 340	5 710	7 452	9 609	12 223	15 331	-
10	-	3 177	4 158	5 437	7 062	9 077	11 525	14 444	-
15	-	3 071	3 994	5 190	6 704	8 584	10 872	13 608	-
20	-	2 969	3 842	4 960	6 372	8 122	10 257	12 818	-
30	-	2 755	3 545	4 529	5 754	7 267	9 115	11 343	-
40	-	-	3 215	4 090	5 155	6 458	8 046	9 966	-
50	-	-	-	-	4 522	5 639	6 993	8 631	-
60	-	-	-	-	-	-	5 897	7 277	-

**Power input in W**

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	2 389	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	2 795	2 852	2 971	3 134	3 327	3 533	3 737	-
40	-	-	3 303	3 436	3 620	3 837	4 073	4 311	-
50	-	-	-	-	4 245	4 479	4 735	4 999	-
60	-	-	-	-	-	-	5 652	5 932	-

**Current consumption in A**

5	-	5.38	5.15	5.05	5.05	5.09	5.12	5.08	-
10	-	5.48	5.29	5.24	5.29	5.38	5.45	5.46	-
15	-	5.56	5.41	5.40	5.49	5.62	5.74	5.80	-
20	-	5.64	5.52	5.55	5.67	5.84	6.00	6.10	-
30	-	5.84	5.77	5.85	6.04	6.26	6.49	6.65	-
40	-	-	6.15	6.27	6.49	6.75	7.02	7.22	-
50	-	-	-	-	7.14	7.42	7.70	7.93	-
60	-	-	-	-	-	-	8.65	8.87	-

**Mass flow in kg/h**

5	-	63	82	106	136	173	217	270	-
10	-	63	82	105	134	169	212	263	-
15	-	64	82	104	132	166	208	256	-
20	-	64	82	104	131	164	204	251	-
30	-	66	83	104	130	161	198	242	-
40	-	-	84	105	130	159	194	236	-
50	-	-	-	-	129	158	191	231	-
60	-	-	-	-	-	-	188	226	-

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

5	-	2.12	2.80	3.59	4.47	5.45	6.58	7.90	-
10	-	1.69	2.19	2.78	3.44	4.18	5.02	6.00	-
15	-	1.42	1.83	2.29	2.82	3.41	4.08	4.85	-
20	-	1.24	1.58	1.97	2.40	2.88	3.44	4.07	-
30	-	0.99	1.24	1.52	1.84	2.18	2.58	3.04	-
40	-	-	0.97	1.19	1.42	1.68	1.98	2.31	-
50	-	-	-	-	1.07	1.26	1.48	1.73	-
60	-	-	-	-	-	-	1.04	1.23	-

**Nominal performance at to = -35 °C, tc = 40 °C**

Cooling capacity	3 215	W
Power input	3 303	W
Current consumption	6.15	A
Mass flow	84	kg/h
C.O.P.	0.97	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, Suction temp. = 18.3 °C**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	3 263	4 298	5 655	7 379	9 516	12 108	15 196	-
10	-	3 167	4 143	5 414	7 027	9 026	11 455	14 356	-
15	-	3 084	4 006	5 198	6 706	8 574	10 846	13 565	-
20	-	-	3 882	5 001	6 409	8 152	10 274	12 817	-
30	-	-	-	-	5 866	7 378	9 217	11 428	-
40	-	-	-	-	-	6 651	8 234	10 136	-
50	-	-	-	-	-	-	-	8 889	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	-	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	-	-	-	3 134	3 327	3 533	3 737	-
40	-	-	-	-	-	3 837	4 073	4 311	-
50	-	-	-	-	-	-	-	4 999	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

5	-	5.38	5.15	5.05	5.05	5.09	5.12	5.08	-
10	-	5.48	5.29	5.24	5.29	5.38	5.45	5.46	-
15	-	5.56	5.41	5.40	5.49	5.62	5.74	5.80	-
20	-	-	5.52	5.55	5.67	5.84	6.00	6.10	-
30	-	-	-	-	6.04	6.26	6.49	6.65	-
40	-	-	-	-	-	6.75	7.02	7.22	-
50	-	-	-	-	-	-	-	7.93	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

5	-	52	68	90	118	153	196	248	-
10	-	52	68	89	116	149	191	241	-
15	-	52	68	88	114	147	187	235	-
20	-	-	68	88	113	145	183	230	-
30	-	-	-	-	112	142	178	222	-
40	-	-	-	-	-	140	175	216	-
50	-	-	-	-	-	-	-	212	-
60	-	-	-	-	-	-	-	-	-

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

5	-	2.10	2.78	3.55	4.43	5.40	6.52	7.83	-
10	-	1.68	2.19	2.77	3.42	4.15	4.99	5.96	-
15	-	1.43	1.84	2.30	2.82	3.40	4.07	4.84	-
20	-	-	1.60	1.98	2.41	2.90	3.44	4.07	-
30	-	-	-	-	1.87	2.22	2.61	3.06	-
40	-	-	-	-	-	1.73	2.02	2.35	-
50	-	-	-	-	-	-	-	1.78	-
60	-	-	-	-	-	-	-	-	-

**Nominal performance at to = -31.7 °C, tc = 40.6 °C**

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

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 18.3 °C , Subcooling = 0 K

Tolerance according EN12900

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# Datasheet, performance data

# Scroll compressor. LLZ015T4

Performance data at 50 Hz, with Liquid Injection, Superheat = 10 K, Subcooling = 5 K

# R449A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	3 412	4 492	5 909	7 709	9 938	12 638	15 849	-
10	-	3 295	4 311	5 636	7 318	9 404	11 936	14 956	-
15	-	3 192	4 150	5 390	6 961	8 909	11 281	14 117	-
20	-	3 093	4 000	5 163	6 630	8 448	10 665	13 324	-
30	-	2 886	3 712	4 740	6 019	7 599	9 527	11 850	-
40	-	2 621	3 392	4 312	5 431	6 800	8 467	10 482	-
50	-	2 251	2 990	3 828	4 814	5 999	7 433	9 167	-
60	-	-	-	-	-	-	6 370	7 851	-

## Power input in W

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	2 389	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	2 795	2 852	2 971	3 134	3 327	3 533	3 737	-
40	-	3 234	3 303	3 436	3 620	3 837	4 073	4 311	-
50	-	3 838	3 909	4 050	4 245	4 479	4 735	4 999	-
60	-	-	-	-	-	-	5 652	5 932	-

## Current consumption in A

5	-	5.65	5.40	5.31	5.31	5.35	5.38	5.33	-
10	-	5.75	5.55	5.50	5.55	5.64	5.72	5.74	-
15	-	5.84	5.68	5.67	5.76	5.90	6.03	6.09	-
20	-	5.92	5.79	5.83	5.96	6.13	6.30	6.40	-
30	-	6.13	6.06	6.15	6.34	6.58	6.81	6.98	-
40	-	6.50	6.46	6.58	6.81	7.09	7.37	7.58	-
50	-	7.14	7.11	7.25	7.49	7.79	8.09	8.32	-
60	-	-	-	-	-	-	9.08	9.32	-

## Mass flow in kg/h

5	-	64	84	109	140	178	225	279	-
10	-	64	83	107	137	173	218	271	-
15	-	65	83	106	135	170	212	263	-
20	-	65	84	106	133	167	208	257	-
30	-	67	85	106	132	163	202	247	-
40	-	68	86	107	132	162	198	241	-
50	-	66	86	107	132	161	195	236	-
60	-	-	-	-	-	-	193	233	-

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

5	-	2.20	2.90	3.71	4.62	5.64	6.80	8.17	-
10	-	1.75	2.28	2.88	3.56	4.33	5.20	6.21	-
15	-	1.48	1.90	2.38	2.93	3.54	4.23	5.04	-
20	-	1.29	1.65	2.05	2.50	3.00	3.57	4.24	-
30	-	1.03	1.30	1.60	1.92	2.28	2.70	3.17	-
40	-	0.81	1.03	1.25	1.50	1.77	2.08	2.43	-
50	-	0.59	0.76	0.95	1.13	1.34	1.57	1.83	-
60	-	-	-	-	-	-	1.13	1.32	-

## Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	3 392	W
Power input	3 303	W
Current consumption	6.46	A
Mass flow	86	kg/h
C.O.P.	1.03	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	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

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# Datasheet, performance data

# Scroll compressor. LLZ015T4

Performance data at 50 Hz, with Liquid Injection, Suction temp. = 18.3 °C,  
Subcooling = 5 K

## R449A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

### Cooling capacity in W

5	-	3 365	4 433	5 833	7 613	9 818	12 494	15 683	-
10	-	3 272	4 279	5 593	7 260	9 326	11 838	14 837	-
15	-	3 191	4 145	5 379	6 939	8 873	11 227	14 043	-
20	-	3 116	4 024	5 184	6 644	8 453	10 654	13 294	-
30	-	2 961	3 794	4 827	6 108	7 683	9 601	11 907	-
40	-	2 751	3 538	4 471	5 598	6 967	8 627	10 625	-
50	-	-	-	-	-	6 253	7 682	9 397	-
60	-	-	-	-	-	-	-	-	-

### Power input in W

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	2 389	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	2 795	2 852	2 971	3 134	3 327	3 533	3 737	-
40	-	3 234	3 303	3 436	3 620	3 837	4 073	4 311	-
50	-	-	-	-	-	4 479	4 735	4 999	-
60	-	-	-	-	-	-	-	-	-

### Current consumption in A

5	-	5.65	5.40	5.31	5.31	5.35	5.38	5.33	-
10	-	5.75	5.55	5.50	5.55	5.64	5.72	5.74	-
15	-	5.84	5.68	5.67	5.76	5.90	6.03	6.09	-
20	-	5.92	5.79	5.83	5.96	6.13	6.30	6.40	-
30	-	6.13	6.06	6.15	6.34	6.58	6.81	6.98	-
40	-	6.50	6.46	6.58	6.81	7.09	7.37	7.58	-
50	-	-	-	-	-	7.79	8.09	8.32	-
60	-	-	-	-	-	-	-	-	-

### Mass flow in kg/h

5	-	53	70	93	121	157	202	257	-
10	-	53	70	91	119	153	196	248	-
15	-	53	69	90	117	150	191	241	-
20	-	54	70	90	115	147	187	236	-
30	-	55	71	90	114	144	181	227	-
40	-	56	72	91	114	143	178	221	-
50	-	-	-	-	-	142	176	217	-
60	-	-	-	-	-	-	-	-	-

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

5	-	2.17	2.86	3.67	4.57	5.57	6.72	8.08	-
10	-	1.74	2.26	2.86	3.53	4.29	5.16	6.16	-
15	-	1.48	1.90	2.38	2.92	3.52	4.21	5.01	-
20	-	1.30	1.66	2.06	2.50	3.00	3.57	4.23	-
30	-	1.06	1.33	1.62	1.95	2.31	2.72	3.19	-
40	-	0.85	1.07	1.30	1.55	1.82	2.12	2.46	-
50	-	-	-	-	-	1.40	1.62	1.88	-
60	-	-	-	-	-	-	-	-	-

### Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	4 114	W
Power input	3 416	W
Current consumption	6.56	A
Mass flow	84	kg/h
C.O.P.	1.20	

### Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

### Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	2 644	3 529	4 630	5 972	7 578	9 471	11 674	-
10	-	2 520	3 374	4 433	5 722	7 263	9 081	11 198	-
15	-	2 398	3 219	4 235	5 470	6 945	8 686	10 715	-
20	-	2 278	3 066	4 037	5 215	6 623	8 285	10 225	-
30	-	2 047	2 761	3 638	4 699	5 967	7 468	9 223	-
40	-	-	2 460	3 235	4 172	5 295	6 628	8 192	-
50	-	-	-	-	3 635	4 605	5 762	7 129	-
60	-	-	-	-	-	-	4 866	6 026	-

**Power input in W**

5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	1 809	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	2 082	2 239	2 420	2 613	2 800	2 968	3 101	-
40	-	-	2 642	2 806	3 004	3 221	3 442	3 652	-
50	-	-	-	-	3 550	3 768	4 013	4 271	-
60	-	-	-	-	-	-	4 750	5 027	-

**Current consumption in A**

5	-	5.32	5.24	5.21	5.18	5.11	4.93	4.61	-
10	-	5.62	5.57	5.58	5.61	5.60	5.50	5.27	-
15	-	5.83	5.80	5.85	5.93	5.98	5.95	5.80	-
20	-	5.97	5.97	6.05	6.17	6.27	6.31	6.23	-
30	-	6.17	6.19	6.31	6.49	6.68	6.83	6.89	-
40	-	-	6.44	6.58	6.80	7.06	7.29	7.46	-
50	-	-	-	-	7.31	7.60	7.90	8.15	-
60	-	-	-	-	-	-	8.86	9.17	-

**Mass flow in kg/h**

5	-	51	67	87	110	138	170	207	-
10	-	51	67	87	110	138	170	206	-
15	-	51	67	87	110	137	169	205	-
20	-	50	67	86	109	136	168	204	-
30	-	50	66	85	108	135	166	201	-
40	-	-	66	85	107	133	163	198	-
50	-	-	-	-	106	132	161	195	-
60	-	-	-	-	-	-	159	192	-

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

5	-	1.69	2.08	2.57	3.23	4.12	5.42	7.47	-
10	-	1.54	1.89	2.31	2.84	3.53	4.47	5.82	-
15	-	1.40	1.71	2.08	2.53	3.09	3.80	4.76	-
20	-	1.26	1.55	1.88	2.26	2.72	3.29	4.01	-
30	-	0.98	1.23	1.50	1.80	2.13	2.52	2.97	-
40	-	-	0.93	1.15	1.39	1.64	1.93	2.24	-
50	-	-	-	-	1.02	1.22	1.44	1.67	-
60	-	-	-	-	-	-	1.02	1.20	-

**Nominal performance at to = -35 °C, tc = 40 °C**

Cooling capacity	2 460	W
Power input	2 642	W
Current consumption	6.44	A
Mass flow	66	kg/h
C.O.P.	0.93	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, Suction temp. = 18.3 °C**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

5	-	2 625	3 502	4 594	5 924	7 515	9 392	11 581	-
10	-	2 519	3 369	4 423	5 703	7 233	9 037	11 139	-
15	-	2 415	3 238	4 252	5 481	6 948	8 676	10 691	-
20	-	-	3 107	4 080	5 257	6 659	8 311	10 235	-
30	-	-	-	-	4 802	6 071	7 564	9 304	-
40	-	-	-	-	-	5 468	6 796	8 345	-
50	-	-	-	-	-	-	-	7 356	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	-	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	-	-	-	2 613	2 800	2 968	3 101	-
40	-	-	-	-	-	3 221	3 442	3 652	-
50	-	-	-	-	-	-	-	4 271	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

5	-	5.32	5.24	5.21	5.18	5.11	4.93	4.61	-
10	-	5.62	5.57	5.58	5.61	5.60	5.50	5.27	-
15	-	5.83	5.80	5.85	5.93	5.98	5.95	5.80	-
20	-	-	5.97	6.05	6.17	6.27	6.31	6.23	-
30	-	-	-	-	6.49	6.68	6.83	6.89	-
40	-	-	-	-	-	7.06	7.29	7.46	-
50	-	-	-	-	-	-	-	8.15	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

5	-	42	56	74	96	122	153	190	-
10	-	42	56	74	95	121	153	189	-
15	-	42	56	74	95	121	152	188	-
20	-	-	56	73	95	120	151	187	-
30	-	-	-	-	94	119	149	185	-
40	-	-	-	-	-	118	147	182	-
50	-	-	-	-	-	-	-	179	-
60	-	-	-	-	-	-	-	-	-

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

5	-	1.67	2.06	2.55	3.20	4.09	5.37	7.41	-
10	-	1.54	1.88	2.30	2.83	3.52	4.45	5.79	-
15	-	1.41	1.72	2.09	2.54	3.09	3.80	4.75	-
20	-	-	1.57	1.90	2.28	2.74	3.30	4.02	-
30	-	-	-	-	1.84	2.17	2.55	3.00	-
40	-	-	-	-	-	1.70	1.97	2.28	-
50	-	-	-	-	-	-	-	1.72	-
60	-	-	-	-	-	-	-	-	-

**Nominal performance at to = -31.7 °C, tc = 40.6 °C**

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

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

**Sound power data**

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 18.3 °C , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

30	-	2 745	3 489	4 379	5 438	6 686	8 144	9 834	-
35	-	-	3 289	4 131	5 132	6 314	7 696	9 300	-
40	-	-	-	3 868	4 807	5 918	7 220	8 735	-
45	-	-	-	-	4 463	5 498	6 715	8 137	-
50	-	-	-	-	-	5 055	6 183	7 507	-
55	-	-	-	-	-	4 588	5 624	6 845	-
60	-	-	-	-	-	-	5 036	6 151	-

**Power input in W**

30	-	2 054	2 309	2 511	2 678	2 829	2 982	3 156	-
35	-	-	2 423	2 678	2 886	3 067	3 237	3 416	-
40	-	-	-	2 834	3 096	3 317	3 516	3 712	-
45	-	-	-	-	3 299	3 573	3 813	4 038	-
50	-	-	-	-	-	3 827	4 119	4 384	-
55	-	-	-	-	-	4 071	4 428	4 745	-
60	-	-	-	-	-	-	4 732	5 113	-

**Current consumption in A**

30	-	6.13	6.22	6.35	6.52	6.69	6.83	6.93	-
35	-	-	6.35	6.49	6.67	6.87	7.06	7.22	-
40	-	-	-	6.67	6.86	7.07	7.30	7.51	-
45	-	-	-	-	7.11	7.33	7.59	7.84	-
50	-	-	-	-	-	7.67	7.93	8.22	-
55	-	-	-	-	-	8.10	8.37	8.67	-
60	-	-	-	-	-	-	8.91	9.22	-

**Mass flow in kg/h**

30	-	66	84	106	132	163	200	243	-
35	-	-	83	105	131	162	199	242	-
40	-	-	-	104	130	161	197	241	-
45	-	-	-	-	128	159	195	239	-
50	-	-	-	-	-	157	193	236	-
55	-	-	-	-	-	154	190	233	-
60	-	-	-	-	-	-	187	230	-

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

30	-	1.34	1.51	1.74	2.03	2.36	2.73	3.12	-
35	-	-	1.36	1.54	1.78	2.06	2.38	2.72	-
40	-	-	-	1.36	1.55	1.78	2.05	2.35	-
45	-	-	-	-	1.35	1.54	1.76	2.02	-
50	-	-	-	-	-	1.32	1.50	1.71	-
55	-	-	-	-	-	1.13	1.27	1.44	-
60	-	-	-	-	-	-	1.06	1.20	-

**Nominal performance at to = -35 °C, tc = 40 °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	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

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

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

30	-	2 482	3 192	4 055	5 095	6 335	7 801	9 518	-
35	-	2 293	2 959	3 769	4 746	5 916	7 304	8 935	-
40	-	2 097	2 715	3 468	4 379	5 474	6 779	8 320	-
45	-	1 895	2 461	3 152	3 993	5 009	6 226	7 672	-
50	-	-	2 197	2 822	3 588	4 520	5 645	6 992	-
55	-	-	-	2 477	3 164	4 008	5 036	6 277	-
60	-	-	-	-	-	3 469	4 394	5 526	-

**Power input in W**

30	-	2 054	2 309	2 511	2 678	2 829	2 982	3 156	-
35	-	2 103	2 423	2 678	2 886	3 067	3 237	3 416	-
40	-	2 116	2 514	2 834	3 096	3 317	3 516	3 712	-
45	-	2 089	2 575	2 972	3 299	3 573	3 813	4 038	-
50	-	-	2 599	3 085	3 488	3 827	4 119	4 384	-
55	-	-	-	3 165	3 656	4 071	4 428	4 745	-
60	-	-	-	-	-	4 300	4 732	5 113	-

**Current consumption in A**

30	-	6.13	6.22	6.35	6.52	6.69	6.83	6.93	-
35	-	6.29	6.35	6.49	6.67	6.87	7.06	7.22	-
40	-	6.52	6.55	6.67	6.86	7.07	7.30	7.51	-
45	-	6.84	6.84	6.93	7.11	7.33	7.59	7.84	-
50	-	-	7.23	7.29	7.44	7.67	7.93	8.22	-
55	-	-	-	7.77	7.89	8.10	8.37	8.67	-
60	-	-	-	-	-	8.65	8.91	9.22	-

**Mass flow in kg/h**

30	-	81	101	125	153	186	224	267	-
35	-	80	101	124	152	185	223	266	-
40	-	79	99	123	151	184	221	265	-
45	-	78	98	121	149	182	219	263	-
50	-	-	96	119	147	179	217	260	-
55	-	-	-	117	144	176	214	257	-
60	-	-	-	-	-	173	210	253	-

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

30	-	1.21	1.38	1.62	1.90	2.24	2.62	3.02	-
35	-	1.09	1.22	1.41	1.64	1.93	2.26	2.62	-
40	-	0.99	1.08	1.22	1.41	1.65	1.93	2.24	-
45	-	0.91	0.96	1.06	1.21	1.40	1.63	1.90	-
50	-	-	0.85	0.91	1.03	1.18	1.37	1.59	-
55	-	-	-	0.78	0.87	0.98	1.14	1.32	-
60	-	-	-	-	-	0.81	0.93	1.08	-

**Nominal performance at to = -35 °C, tc = 40 °C**

Cooling capacity	2 715	W
Power input	2 514	W
Current consumption	6.55	A
Mass flow	99	kg/h
C.O.P.	1.08	

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	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

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

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

30	-	3 315	4 237	5 350	6 680	8 253	10 096	12 232	-
35	-	-	3 978	5 029	6 284	7 769	9 510	11 532	-
40	-	-	-	4 705	5 883	7 277	8 915	10 823	-
45	-	-	-	-	5 474	6 776	8 310	10 101	-
50	-	-	-	-	-	6 264	7 692	9 366	-
55	-	-	-	-	-	5 738	7 060	8 617	-
60	-	-	-	-	-	-	6 415	7 855	-

**Power input in W**

30	-	2 621	2 832	3 065	3 304	3 533	3 738	3 902	-
35	-	-	3 044	3 286	3 541	3 794	4 028	4 230	-
40	-	-	-	3 528	3 796	4 068	4 329	4 564	-
45	-	-	-	-	4 071	4 359	4 643	4 908	-
50	-	-	-	-	-	4 673	4 977	5 268	-
55	-	-	-	-	-	5 015	5 334	5 648	-
60	-	-	-	-	-	-	5 720	6 053	-

**Current consumption in A**

30	-	5.67	5.91	6.10	6.27	6.43	6.61	6.83	-
35	-	-	6.09	6.30	6.50	6.69	6.90	7.15	-
40	-	-	-	6.49	6.72	6.96	7.21	7.51	-
45	-	-	-	-	6.95	7.23	7.54	7.89	-
50	-	-	-	-	-	7.52	7.89	8.30	-
55	-	-	-	-	-	7.81	8.25	8.74	-
60	-	-	-	-	-	-	8.62	9.20	-

**Mass flow in kg/h**

30	-	80	102	129	161	201	247	302	-
35	-	-	101	127	160	199	245	300	-
40	-	-	-	126	158	197	244	299	-
45	-	-	-	-	157	196	242	297	-
50	-	-	-	-	-	194	241	296	-
55	-	-	-	-	-	193	239	294	-
60	-	-	-	-	-	-	238	293	-

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

30	-	1.26	1.50	1.75	2.02	2.34	2.70	3.13	-
35	-	-	1.31	1.53	1.77	2.05	2.36	2.73	-
40	-	-	-	1.33	1.55	1.79	2.06	2.37	-
45	-	-	-	-	1.34	1.55	1.79	2.06	-
50	-	-	-	-	-	1.34	1.55	1.78	-
55	-	-	-	-	-	1.14	1.32	1.53	-
60	-	-	-	-	-	-	1.12	1.30	-

**Nominal performance at to = -35 °C, tc = 40 °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	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

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

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

**Cooling capacity in W**

30	-	2 997	3 877	4 954	6 258	7 821	9 671	11 840	-
35	-	2 753	3 579	4 588	5 811	7 280	9 026	11 080	-
40	-	2 509	3 279	4 218	5 358	6 732	8 371	10 309	-
45	-	2 262	2 973	3 841	4 897	6 173	7 704	9 524	-
50	-	-	2 660	3 455	4 424	5 602	7 023	8 723	-
55	-	-	-	3 055	3 936	5 013	6 322	7 902	-
60	-	-	-	-	-	4 401	5 597	7 057	-

**Power input in W**

30	-	2 621	2 832	3 065	3 304	3 533	3 738	3 902	-
35	-	2 831	3 044	3 286	3 541	3 794	4 028	4 230	-
40	-	3 069	3 281	3 528	3 796	4 068	4 329	4 564	-
45	-	3 339	3 546	3 795	4 071	4 359	4 643	4 908	-
50	-	-	3 844	4 092	4 373	4 673	4 977	5 268	-
55	-	-	-	4 423	4 706	5 015	5 334	5 648	-
60	-	-	-	-	-	5 389	5 720	6 053	-

**Current consumption in A**

30	-	5.67	5.91	6.10	6.27	6.43	6.61	6.83	-
35	-	5.83	6.09	6.30	6.50	6.69	6.90	7.15	-
40	-	5.96	6.25	6.49	6.72	6.96	7.21	7.51	-
45	-	6.06	6.38	6.68	6.95	7.23	7.54	7.89	-
50	-	-	6.50	6.85	7.18	7.52	7.89	8.30	-
55	-	-	-	7.01	7.40	7.81	8.25	8.74	-
60	-	-	-	-	-	8.10	8.62	9.20	-

**Mass flow in kg/h**

30	-	98	123	153	188	229	277	332	-
35	-	96	122	151	186	227	275	330	-
40	-	95	120	150	184	226	274	329	-
45	-	94	118	148	183	224	272	327	-
50	-	-	117	146	181	222	270	325	-
55	-	-	-	145	180	221	269	324	-
60	-	-	-	-	-	219	267	323	-

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

30	-	1.14	1.37	1.62	1.89	2.21	2.59	3.03	-
35	-	0.97	1.18	1.40	1.64	1.92	2.24	2.62	-
40	-	0.82	1.00	1.20	1.41	1.66	1.93	2.26	-
45	-	0.68	0.84	1.01	1.20	1.42	1.66	1.94	-
50	-	-	0.69	0.84	1.01	1.20	1.41	1.66	-
55	-	-	-	0.69	0.84	1.00	1.19	1.40	-
60	-	-	-	-	-	0.82	0.98	1.17	-

**Nominal performance at to = -35 °C, tc = 40 °C**

Cooling capacity	3 279	W
Power input	3 281	W
Current consumption	6.25	A
Mass flow	120	kg/h
C.O.P.	1.00	

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	0.15	bar(g)
LP pump down setting	0.15	bar(g)

**Sound power data**

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

Tolerance according EN12900

**Performance data at 50 Hz, with Economizer cycle, Superheat = 10 K, Subcooling = 5 K**

## R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
		-40	-35	-30	-25	-20	-15	-10	

## Cooling capacity in W

5	-	6 441	7 385	-	-	-	-	-
10	-	5 616	6 565	7 717	9 085	-	-	-
15	-	5 008	5 959	7 100	8 445	10 009	-	-
20	-	4 579	5 529	6 655	7 974	9 500	11 250	13 236
30	-	4 113	5 049	6 139	7 396	8 838	10 480	12 341
40	-	3 931	4 840	5 880	7 064	8 409	9 932	11 654
50	-	-	4 619	5 595	6 694	7 930	9 323	10 892
60	-	-	-	-	-	-	8 376	9 779

## Power input in W

Power input in W									
5	-	219	359	-	-	-	-	-	-
10	-	1 042	1 176	1 312	1 435	-	-	-	-
15	-	1 653	1 783	1 918	2 042	2 140	-	-	-
20	-	2 128	2 258	2 395	2 525	2 630	2 697	2 709	-
30	-	2 803	2 946	3 100	3 251	3 382	3 479	3 527	-
40	-	3 339	3 511	3 699	3 886	4 058	4 199	4 296	-
50	-	-	4 235	4 470	4 709	4 935	5 134	5 293	-
60	-	-	-	-	-	-	6 573	6 804	-

**Current consumption in A**

[illegible]

**Mass flow in kg/h**

Mass flow in kg/h									
5	-	118	139	-	-	-	-	-	-
10	-	108	129	156	187	-	-	-	-
15	-	101	123	149	181	219	-	-	-
20	-	95	118	145	176	214	259	311	-
30	-	90	113	140	172	209	253	303	-
40	-	89	112	138	169	206	248	298	-
50	-	-	110	136	166	201	242	290	-
60	-	-	-	-	-	-	232	277	-

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

Coefficient of performance (COP)									
5	-	29.43	20.59	-	-	-	-	-	-
10	-	5.39	5.58	5.88	6.33	-	-	-	-
15	-	3.03	3.34	3.70	4.14	4.68	-	-	-
20	-	2.15	2.45	2.78	3.16	3.61	4.17	4.89	-
30	-	1.47	1.71	1.98	2.28	2.61	3.01	3.50	-
40	-	1.18	1.38	1.59	1.82	2.07	2.37	2.71	-
50	-	-	1.09	1.25	1.42	1.61	1.82	2.06	-
60	-	-	-	-	-	-	1.27	1.44	-

**Nominal performance at  $t_o = -35\text{ }^{\circ}\text{C}$ ,  $t_c = 40\text{ }^{\circ}\text{C}$**

Nominal performance at $t_c = -35^\circ\text{C}$ , $t_e = 45^\circ\text{C}$		
Cooling capacity	4 840	W
Power input	3 511	W
Current consumption	6.81	A
Mass flow	112	kg/h
C.O.P.	1.38	

### Pressure switch settings

Pressure Switch Settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

### Sound power data

Sound power data		
Sound power level	80	dB(A)
With acoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

**Rating conditions:** Superb = 10, Ks = 9, Subcooling = 8. Logos, brochures and other printed material. Danfoss **Tolerance according to EN12900** products without notice. This also applies to products already on order provided that such alternations can be made without subsequent changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Performance data at 50 Hz, with Economizer cycle, Suction temp. = 18.3 °C,  
Subcooling = 5 K**

## R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
		-40	-35	-30	-25	-20	-15	-10	

## Cooling capacity in W

[illegible]

## Power input in W

Power input in W									
5	-	253	392	-	-	-	-	-	-
10	-	1 030	1 169	1 310	1 437	-	-	-	-
15	-	1 629	1 768	1 910	2 042	2 146	-	-	-
20	-	2 089	2 231	2 380	2 519	2 633	2 706	2 720	-
30	-	2 730	2 891	3 062	3 228	3 373	3 480	3 535	-
40	-	3 228	3 422	3 631	3 838	4 028	4 185	4 293	-
50	-	-	4 099	4 360	4 623	4 874	5 095	5 272	-
60	-	-	-	-	-	-	6 489	6 749	-

**Current consumption in A**

[illegible]

**Mass flow in kg/h**

[illegible]

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

Coefficient of performance (COP)									
5	-	25.80	19.10	-	-	-	-	-	-
10	-	5.53	5.72	6.00	6.44	-	-	-	-
15	-	3.13	3.44	3.80	4.23	4.76	-	-	-
20	-	2.24	2.54	2.87	3.24	3.69	4.24	4.94	-
30	-	1.55	1.80	2.07	2.36	2.70	3.09	3.57	-
40	-	1.26	1.47	1.68	1.91	2.16	2.45	2.79	-
50	-	-	1.18	1.35	1.52	1.70	1.91	2.14	-
60	-	-	-	-	-	-	1.36	1.51	-

**Nominal performance at  $t_o = -31.7\text{ }^{\circ}\text{C}$ ,  $t_c = 40.6\text{ }^{\circ}\text{C}$**

Nominal performance at 25 °C	37 °C	45 °C
Cooling capacity	5 713	W
Power input	3 595	W
Current consumption	7.00	A
Mass flow	108	kg/h
C.O.P.	1.59	

### Pressure switch settings

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

### Sound power data

Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

**Rating conditions:** Suction gas temperature 18 °C, Subcooling = 5 K. **Tolerance according EN 12900:** 10% without notice. This also applies to products already on order provided that such alternations can be made without subsequent changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.



# Datasheet, performance data

# Scroll compressor. LLZ015T4-Eco.

Performance data at 60 Hz, with Economizer cycle, Suction temp. = 18.3 °C,  
Subcooling = 5 K

# R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	6 425	7 369	-	-	-	-	-
10	-	6 042	7 032	8 356	9 996	-	-	-
15	-	5 728	6 755	8 098	9 739	11 660	-	-
20	-	5 475	6 531	7 883	9 516	11 412	13 554	15 920
30	-	5 120	6 207	7 554	9 144	10 961	12 988	15 208
40	-	4 911	5 995	7 302	8 816	10 519	12 395	14 428
50	-	-	5 832	7 065	8 467	10 021	11 712	13 522
60	-	-	-	-	-	-	10 873	12 426

## Power input in W

5	-	1 939	2 129	-	-	-	-	-
10	-	2 257	2 451	2 596	2 696	-	-	-
15	-	2 504	2 704	2 860	2 977	3 060	-	-
20	-	2 739	2 948	3 119	3 254	3 361	3 445	3 509
30	-	3 217	3 453	3 660	3 842	4 005	4 154	4 296
40	-	3 778	4 053	4 307	4 547	4 777	5 004	5 232
50	-	-	4 835	5 149	5 457	5 766	6 081	6 408
60	-	-	-	-	-	-	7 478	7 915

## Current consumption in A

5	-	5.33	5.62	-	-	-	-	-
10	-	5.56	5.83	6.03	6.16	-	-	-
15	-	5.77	6.02	6.22	6.37	6.45	-	-
20	-	5.97	6.22	6.43	6.59	6.70	6.75	6.76
30	-	6.41	6.67	6.90	7.10	7.28	7.43	7.55
40	-	6.99	7.27	7.55	7.82	8.09	8.35	8.60
50	-	-	8.14	8.49	8.85	9.22	9.61	10.02
60	-	-	-	-	-	-	11.34	11.91

## Mass flow in kg/h

5	-	108	126	-	-	-	-	-
10	-	103	122	148	183	-	-	-
15	-	98	118	146	181	225	-	-
20	-	94	116	144	180	224	277	339
30	-	90	112	142	178	222	274	335
40	-	88	111	141	177	220	271	330
50	-	-	111	140	175	217	265	322
60	-	-	-	-	-	-	258	311

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

5	-	3.31	3.46	-	-	-	-	-
10	-	2.68	2.87	3.22	3.71	-	-	-
15	-	2.29	2.50	2.83	3.27	3.81	-	-
20	-	2.00	2.21	2.53	2.92	3.40	3.93	4.54
30	-	1.59	1.80	2.06	2.38	2.74	3.13	3.54
40	-	1.30	1.48	1.70	1.94	2.20	2.48	2.76
50	-	-	1.21	1.37	1.55	1.74	1.93	2.11
60	-	-	-	-	-	-	1.45	1.57

## Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	6 821	W
Power input	4 266	W
Current consumption	7.50	A
Mass flow	130	kg/h
C.O.P.	1.60	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	0.15	bar(g)

## Sound power data

Sound power level	83	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions: Suction gas temp. = 18.3 °C, Subcooling = 5 K  
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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 50 Hz, with Liquid Injection, Superheat = 10 K, Subcooling = 5 K

# R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	3 760	4 842	6 168	7 763	9 658	11 880	14 458	-
10	-	3 557	4 603	5 880	7 417	9 242	11 383	13 870	-
15	-	3 352	4 356	5 582	7 056	8 808	10 864	13 255	-
20	-	3 145	4 104	5 274	6 681	8 355	10 323	12 613	-
30	-	2 729	3 586	4 632	5 894	7 400	9 177	11 254	-
40	-	2 317	3 055	3 962	5 062	6 384	7 955	9 801	-
50	-	1 914	2 519	3 270	4 193	5 315	6 662	8 261	-
60	-	1 520	-	-	3 290	4 195	5 301	6 634	-

## Power input in W

5	-	1 664	1 787	1 889	1 954	1 967	1 914	1 778	-
10	-	1 770	1 910	2 037	2 136	2 191	2 188	2 111	-
15	-	1 879	2 032	2 180	2 308	2 401	2 443	2 419	-
20	-	1 996	2 157	2 322	2 475	2 601	2 684	2 709	-
30	-	2 278	2 443	2 628	2 816	2 994	3 146	3 256	-
40	-	2 661	2 811	2 998	3 205	3 417	3 619	3 797	-
50	-	3 189	3 307	3 477	3 684	3 913	4 148	4 374	-
60	-	3 906	-	-	4 300	4 527	4 777	5 034	-

## Current consumption in A

5	-	5.32	5.42	5.52	5.60	5.62	5.56	5.39	-
10	-	5.37	5.50	5.64	5.76	5.85	5.85	5.76	-
15	-	5.46	5.61	5.78	5.95	6.08	6.16	6.14	-
20	-	5.58	5.74	5.94	6.15	6.33	6.47	6.52	-
30	-	5.93	6.12	6.36	6.63	6.90	7.13	7.32	-
40	-	6.46	6.65	6.91	7.22	7.56	7.88	8.17	-
50	-	7.19	7.36	7.62	7.96	8.34	8.73	9.11	-
60	-	8.13	-	-	8.86	9.26	9.70	10.15	-

## Mass flow in kg/h

5	-	89	113	141	173	212	255	306	-
10	-	88	112	140	173	212	256	306	-
15	-	88	111	140	173	211	255	306	-
20	-	87	111	139	172	210	255	306	-
30	-	85	109	137	170	208	252	303	-
40	-	84	107	134	167	205	248	299	-
50	-	83	105	132	163	200	244	293	-
60	-	83	-	-	160	196	238	287	-

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

5	-	2.26	2.71	3.27	3.97	4.91	6.21	8.13	-
10	-	2.01	2.41	2.89	3.47	4.22	5.20	6.57	-
15	-	1.78	2.14	2.56	3.06	3.67	4.45	5.48	-
20	-	1.58	1.90	2.27	2.70	3.21	3.85	4.66	-
30	-	1.20	1.47	1.76	2.09	2.47	2.92	3.46	-
40	-	0.87	1.09	1.32	1.58	1.87	2.20	2.58	-
50	-	0.60	0.76	0.94	1.14	1.36	1.61	1.89	-
60	-	0.39	-	-	0.77	0.93	1.11	1.32	-

## Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	3 055	W
Power input	2 811	W
Current consumption	6.65	A
Mass flow	107	kg/h
C.O.P.	1.09	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

## Sound power data

Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 50 Hz, with Liquid Injection, Suction temp. = 18.3 °C, Subcooling = 5 K

# R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	3 879	4 971	6 300	7 892	9 773	11 971	14 516	-
10	-	3 707	4 767	6 054	7 593	9 408	11 527	13 980	-
15	-	3 532	4 557	5 798	7 279	9 024	11 061	13 417	-
20	-	3 356	4 342	5 532	6 951	8 623	10 573	12 828	-
30	-	3 002	3 897	4 975	6 258	7 771	9 536	11 577	-
40	-	2 653	3 440	4 389	5 522	6 859	8 422	10 233	-
50	-	-	2 980	3 784	4 748	5 894	7 240	8 804	-
60	-	-	-	-	-	-	5 994	7 294	-

## Power input in W

5	-	1 664	1 787	1 889	1 954	1 967	1 914	1 778	-
10	-	1 770	1 910	2 037	2 136	2 191	2 188	2 111	-
15	-	1 879	2 032	2 180	2 308	2 401	2 443	2 419	-
20	-	1 996	2 157	2 322	2 475	2 601	2 684	2 709	-
30	-	2 278	2 443	2 628	2 816	2 994	3 146	3 256	-
40	-	2 661	2 811	2 998	3 205	3 417	3 619	3 797	-
50	-	-	3 307	3 477	3 684	3 913	4 148	4 374	-
60	-	-	-	-	-	-	4 777	5 034	-

## Current consumption in A

5	-	5.32	5.42	5.52	5.60	5.62	5.56	5.39	-
10	-	5.37	5.50	5.64	5.76	5.85	5.85	5.76	-
15	-	5.46	5.61	5.78	5.95	6.08	6.16	6.14	-
20	-	5.58	5.74	5.94	6.15	6.33	6.47	6.52	-
30	-	5.93	6.12	6.36	6.63	6.90	7.13	7.32	-
40	-	6.46	6.65	6.91	7.22	7.56	7.88	8.17	-
50	-	-	7.36	7.62	7.96	8.34	8.73	9.11	-
60	-	-	-	-	-	-	9.70	10.15	-

## Mass flow in kg/h

5	-	72	93	119	149	186	228	279	-
10	-	72	93	119	149	186	229	279	-
15	-	71	92	118	149	185	228	279	-
20	-	71	92	117	148	185	228	279	-
30	-	69	90	116	146	182	226	277	-
40	-	68	89	113	144	180	222	273	-
50	-	-	87	111	141	176	218	268	-
60	-	-	-	-	-	-	213	262	-

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

5	-	2.33	2.78	3.34	4.04	4.97	6.25	8.16	-
10	-	2.09	2.50	2.97	3.55	4.29	5.27	6.62	-
15	-	1.88	2.24	2.66	3.15	3.76	4.53	5.55	-
20	-	1.68	2.01	2.38	2.81	3.32	3.94	4.74	-
30	-	1.32	1.60	1.89	2.22	2.60	3.03	3.56	-
40	-	1.00	1.22	1.46	1.72	2.01	2.33	2.70	-
50	-	-	0.90	1.09	1.29	1.51	1.75	2.01	-
60	-	-	-	-	-	-	1.25	1.45	-

## Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	4 014	W
Power input	2 957	W
Current consumption	6.85	A
Mass flow	104	kg/h
C.O.P.	1.36	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

## Sound power data

Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 60 Hz, with Liquid Injection, Superheat = 10 K, Subcooling = 5 K

# R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	4 528	5 831	7 429	9 356	11 645	14 332	17 452	-
10	-	4 289	5 548	7 089	8 947	11 154	13 746	16 758	-
15	-	4 045	5 255	6 735	8 518	10 638	13 129	16 027	-
20	-	3 800	4 955	6 367	8 071	10 098	12 483	15 262	-
30	-	3 305	4 336	5 598	7 126	8 952	11 109	13 633	-
40	-	2 815	3 700	4 792	6 124	7 727	9 635	11 881	-
50	-	2 336	3 056	3 958	5 073	6 433	8 070	10 017	-
60	-	1 868	-	-	3 978	5 073	6 417	8 040	-

## Power input in W

5	-	1 976	2 114	2 241	2 348	2 426	2 466	2 459	-
10	-	2 107	2 260	2 406	2 535	2 639	2 709	2 736	-
15	-	2 244	2 410	2 573	2 723	2 851	2 949	3 008	-
20	-	2 390	2 568	2 746	2 915	3 067	3 192	3 281	-
30	-	2 725	2 922	3 127	3 331	3 524	3 698	3 844	-
40	-	3 144	3 355	3 581	3 813	4 042	4 259	4 456	-
50	-	3 680	3 899	4 140	4 394	4 653	4 908	5 150	-
60	-	4 364	-	-	5 106	5 389	5 676	5 957	-

## Current consumption in A

5	-	4.83	5.02	5.18	5.30	5.36	5.35	5.26	-
10	-	4.96	5.15	5.33	5.47	5.57	5.61	5.57	-
15	-	5.10	5.30	5.49	5.66	5.79	5.87	5.90	-
20	-	5.25	5.45	5.66	5.85	6.02	6.15	6.23	-
30	-	5.64	5.84	6.07	6.31	6.54	6.76	6.95	-
40	-	6.13	6.33	6.58	6.86	7.16	7.47	7.77	-
50	-	6.77	6.97	7.23	7.55	7.91	8.30	8.70	-
60	-	7.59	-	-	8.41	8.83	9.29	9.79	-

## Mass flow in kg/h

5	-	107	136	169	209	255	308	369	-
10	-	106	135	169	209	255	309	370	-
15	-	106	134	169	209	255	309	370	-
20	-	105	134	168	208	254	308	370	-
30	-	103	132	165	205	252	305	367	-
40	-	102	129	162	202	248	301	362	-
50	-	101	127	159	198	243	295	356	-
60	-	101	-	-	193	237	288	348	-

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

5	-	2.29	2.76	3.31	3.98	4.80	5.81	7.10	-
10	-	2.04	2.45	2.95	3.53	4.23	5.07	6.13	-
15	-	1.80	2.18	2.62	3.13	3.73	4.45	5.33	-
20	-	1.59	1.93	2.32	2.77	3.29	3.91	4.65	-
30	-	1.21	1.48	1.79	2.14	2.54	3.00	3.55	-
40	-	0.90	1.10	1.34	1.61	1.91	2.26	2.67	-
50	-	0.63	0.78	0.96	1.15	1.38	1.64	1.95	-
60	-	0.43	-	-	0.78	0.94	1.13	1.35	-

## Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	3 700	W
Power input	3 355	W
Current consumption	6.33	A
Mass flow	129	kg/h
C.O.P.	1.10	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

## Sound power data

Sound power level	83	dB(A)
With acoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 60 Hz, with Liquid Injection, Suction temp. = 18.3 °C, Subcooling = 5 K

# R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	4 671	5 985	7 588	9 511	11 784	14 442	17 522	-
10	-	4 469	5 746	7 299	9 158	11 354	13 920	16 890	-
15	-	4 263	5 498	6 996	8 786	10 900	13 367	16 223	-
20	-	4 055	5 242	6 679	8 396	10 422	12 786	15 523	-
30	-	3 635	4 712	6 013	7 567	9 401	11 544	14 024	-
40	-	3 222	4 166	5 309	6 679	8 301	10 201	12 405	-
50	-	-	3 616	4 580	5 744	7 133	8 769	10 675	-
60	-	-	-	-	-	-	7 256	8 840	-

## Power input in W

5	-	1 976	2 114	2 241	2 348	2 426	2 466	2 459	-
10	-	2 107	2 260	2 406	2 535	2 639	2 709	2 736	-
15	-	2 244	2 410	2 573	2 723	2 851	2 949	3 008	-
20	-	2 390	2 568	2 746	2 915	3 067	3 192	3 281	-
30	-	2 725	2 922	3 127	3 331	3 524	3 698	3 844	-
40	-	3 144	3 355	3 581	3 813	4 042	4 259	4 456	-
50	-	-	3 899	4 140	4 394	4 653	4 908	5 150	-
60	-	-	-	-	-	-	5 676	5 957	-

## Current consumption in A

5	-	4.83	5.02	5.18	5.30	5.36	5.35	5.26	-
10	-	4.96	5.15	5.33	5.47	5.57	5.61	5.57	-
15	-	5.10	5.30	5.49	5.66	5.79	5.87	5.90	-
20	-	5.25	5.45	5.66	5.85	6.02	6.15	6.23	-
30	-	5.64	5.84	6.07	6.31	6.54	6.76	6.95	-
40	-	6.13	6.33	6.58	6.86	7.16	7.47	7.77	-
50	-	-	6.97	7.23	7.55	7.91	8.30	8.70	-
60	-	-	-	-	-	-	9.29	9.79	-

## Mass flow in kg/h

5	-	87	113	143	180	224	276	337	-
10	-	87	112	143	180	224	276	338	-
15	-	86	112	142	180	224	276	338	-
20	-	85	111	142	179	223	276	338	-
30	-	84	109	140	177	221	273	335	-
40	-	83	107	137	174	217	269	331	-
50	-	-	106	135	170	213	264	325	-
60	-	-	-	-	-	-	258	317	-

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

5	-	2.36	2.83	3.39	4.05	4.86	5.86	7.12	-
10	-	2.12	2.54	3.03	3.61	4.30	5.14	6.17	-
15	-	1.90	2.28	2.72	3.23	3.82	4.53	5.39	-
20	-	1.70	2.04	2.43	2.88	3.40	4.01	4.73	-
30	-	1.33	1.61	1.92	2.27	2.67	3.12	3.65	-
40	-	1.02	1.24	1.48	1.75	2.05	2.40	2.78	-
50	-	-	0.93	1.11	1.31	1.53	1.79	2.07	-
60	-	-	-	-	-	-	1.28	1.48	-

## Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	4 857	W
Power input	3 533	W
Current consumption	6.53	A
Mass flow	126	kg/h
C.O.P.	1.37	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

## Sound power data

Sound power level	83	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Tolerance according to EN12900

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 50 Hz, with Liquid Injection, Superheat = 10 K, Subcooling = 5 K

# R448A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	2 744	3 660	4 800	6 187	7 846	9 802	12 077	-
10	-	2 620	3 506	4 604	5 939	7 534	9 415	11 604	-
15	-	2 499	3 353	4 408	5 689	7 219	9 023	11 124	-
20	-	2 380	3 201	4 211	5 436	6 900	8 626	10 638	-
30	-	2 152	2 900	3 817	4 926	6 251	7 816	9 646	-
40	-	1 934	2 605	3 421	4 408	5 588	6 987	8 627	-
50	-	1 728	2 314	3 025	3 882	4 912	6 137	7 582	-
60	-	-	-	-	-	-	5 268	6 511	-

## Power input in W

5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	1 809	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	2 082	2 239	2 420	2 613	2 800	2 968	3 101	-
40	-	2 527	2 642	2 806	3 004	3 221	3 442	3 652	-
50	-	3 211	3 257	3 375	3 550	3 768	4 013	4 271	-
60	-	-	-	-	-	-	4 750	5 027	-

## Current consumption in A

5	-	5.32	5.24	5.21	5.18	5.11	4.93	4.61	-
10	-	5.62	5.57	5.58	5.61	5.60	5.50	5.27	-
15	-	5.83	5.80	5.85	5.93	5.98	5.95	5.80	-
20	-	5.97	5.97	6.05	6.17	6.27	6.31	6.23	-
30	-	6.17	6.19	6.31	6.49	6.68	6.83	6.89	-
40	-	6.43	6.44	6.58	6.80	7.06	7.29	7.46	-
50	-	6.97	6.94	7.07	7.31	7.60	7.90	8.15	-
60	-	-	-	-	-	-	8.86	9.17	-

## Mass flow in kg/h

5	-	51	67	86	109	136	168	205	-
10	-	50	66	86	109	136	167	203	-
15	-	50	66	85	108	135	166	202	-
20	-	49	65	85	107	134	165	201	-
30	-	49	65	84	106	132	163	198	-
40	-	49	65	83	105	130	160	194	-
50	-	50	65	83	104	129	158	191	-
60	-	-	-	-	-	-	155	188	-

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

5	-	1.75	2.15	2.67	3.34	4.27	5.61	7.72	-
10	-	1.60	1.96	2.40	2.95	3.67	4.64	6.03	-
15	-	1.46	1.78	2.17	2.63	3.21	3.95	4.95	-
20	-	1.32	1.62	1.96	2.36	2.83	3.42	4.17	-
30	-	1.03	1.30	1.58	1.89	2.23	2.63	3.11	-
40	-	0.77	0.99	1.22	1.47	1.73	2.03	2.36	-
50	-	0.54	0.71	0.90	1.09	1.30	1.53	1.78	-
60	-	-	-	-	-	-	1.11	1.30	-

## Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	2 605	W
Power input	2 642	W
Current consumption	6.44	A
Mass flow	65	kg/h
C.O.P.	0.99	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	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

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 50 Hz, with Liquid Injection, Suction temp. = 18.3 °C, Subcooling = 5 K

# R448A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	2 700	3 604	4 730	6 101	7 742	9 680	11 941	-
10	-	2 594	3 472	4 560	5 882	7 462	9 327	11 502	-
15	-	2 491	3 341	4 389	5 661	7 179	8 969	11 057	-
20	-	2 391	3 211	4 219	5 438	6 892	8 606	10 605	-
30	-	2 200	2 956	3 877	4 987	6 309	7 866	9 681	-
40	-	2 021	2 707	3 536	4 531	5 713	7 106	8 732	-
50	-	-	-	-	-	5 106	6 329	7 759	-
60	-	-	-	-	-	-	-	-	-

## Power input in W

5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	1 809	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	2 082	2 239	2 420	2 613	2 800	2 968	3 101	-
40	-	2 527	2 642	2 806	3 004	3 221	3 442	3 652	-
50	-	-	-	-	-	3 768	4 013	4 271	-
60	-	-	-	-	-	-	-	-	-

## Current consumption in A

5	-	5.32	5.24	5.21	5.18	5.11	4.93	4.61	-
10	-	5.62	5.57	5.58	5.61	5.60	5.50	5.27	-
15	-	5.83	5.80	5.85	5.93	5.98	5.95	5.80	-
20	-	5.97	5.97	6.05	6.17	6.27	6.31	6.23	-
30	-	6.17	6.19	6.31	6.49	6.68	6.83	6.89	-
40	-	6.43	6.44	6.58	6.80	7.06	7.29	7.46	-
50	-	-	-	-	-	7.60	7.90	8.15	-
60	-	-	-	-	-	-	-	-	-

## Mass flow in kg/h

5	-	41	56	73	94	120	151	188	-
10	-	41	55	73	94	120	150	187	-
15	-	41	55	72	94	119	149	186	-
20	-	40	55	72	93	118	148	184	-
30	-	40	54	71	92	117	146	181	-
40	-	40	54	71	91	115	144	178	-
50	-	-	-	-	-	114	142	175	-
60	-	-	-	-	-	-	-	-	-

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

5	-	1.72	2.12	2.63	3.30	4.21	5.54	7.64	-
10	-	1.58	1.94	2.38	2.92	3.63	4.59	5.98	-
15	-	1.45	1.78	2.16	2.62	3.19	3.93	4.92	-
20	-	1.32	1.62	1.96	2.36	2.83	3.41	4.16	-
30	-	1.06	1.32	1.60	1.91	2.25	2.65	3.12	-
40	-	0.80	1.02	1.26	1.51	1.77	2.06	2.39	-
50	-	-	-	-	-	1.36	1.58	1.82	-
60	-	-	-	-	-	-	-	-	-

## Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	3 218	W
Power input	2 774	W
Current consumption	6.54	A
Mass flow	65	kg/h
C.O.P.	1.16	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	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

Tolerance according to EN12900

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 60 Hz, with Liquid Injection, Superheat = 10 K, Subcooling = 5 K

# R448A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	3 418	4 499	5 916	7 716	9 944	12 643	15 852	-
10	-	3 302	4 318	5 644	7 326	9 410	11 942	14 959	-
15	-	3 198	4 157	5 398	6 968	8 916	11 286	14 120	-
20	-	3 100	4 008	5 171	6 638	8 456	10 671	13 327	-
30	-	2 894	3 720	4 748	6 027	7 606	9 533	11 854	-
40	-	2 630	3 401	4 321	5 441	6 808	8 474	10 486	-
50	-	2 261	3 000	3 838	4 824	6 008	7 440	9 171	-
60	-	-	-	-	-	-	6 378	7 856	-

## Power input in W

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	2 389	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	2 795	2 852	2 971	3 134	3 327	3 533	3 737	-
40	-	3 234	3 303	3 436	3 620	3 837	4 073	4 311	-
50	-	3 838	3 909	4 050	4 245	4 479	4 735	4 999	-
60	-	-	-	-	-	-	5 652	5 932	-

## Current consumption in A

5	-	5.38	5.15	5.05	5.05	5.09	5.12	5.08	-
10	-	5.48	5.29	5.24	5.29	5.38	5.45	5.46	-
15	-	5.56	5.41	5.40	5.49	5.62	5.74	5.80	-
20	-	5.64	5.52	5.55	5.67	5.84	6.00	6.10	-
30	-	5.84	5.77	5.85	6.04	6.26	6.49	6.65	-
40	-	6.19	6.15	6.27	6.49	6.75	7.02	7.22	-
50	-	6.80	6.77	6.90	7.14	7.42	7.70	7.93	-
60	-	-	-	-	-	-	8.65	8.87	-

## Mass flow in kg/h

5	-	63	82	106	136	173	217	270	-
10	-	63	82	105	134	169	212	263	-
15	-	64	82	104	132	166	208	256	-
20	-	64	82	104	131	164	204	251	-
30	-	66	83	104	130	161	198	242	-
40	-	66	84	105	130	159	194	236	-
50	-	65	84	105	129	158	191	231	-
60	-	-	-	-	-	-	188	226	-

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

5	-	2.20	2.91	3.72	4.63	5.65	6.81	8.17	-
10	-	1.75	2.28	2.88	3.56	4.33	5.20	6.22	-
15	-	1.48	1.90	2.39	2.93	3.54	4.23	5.04	-
20	-	1.30	1.65	2.05	2.50	3.00	3.58	4.24	-
30	-	1.04	1.30	1.60	1.92	2.29	2.70	3.17	-
40	-	0.81	1.03	1.26	1.50	1.77	2.08	2.43	-
50	-	0.59	0.77	0.95	1.14	1.34	1.57	1.83	-
60	-	-	-	-	-	-	1.13	1.32	-

## Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	3 401	W
Power input	3 303	W
Current consumption	6.15	A
Mass flow	84	kg/h
C.O.P.	1.03	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	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

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 60 Hz, with Liquid Injection, Suction temp. = 18.3 °C,  
Subcooling = 5 K

# R448A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	3 363	4 430	5 829	7 608	9 812	12 487	15 674	-
10	-	3 269	4 276	5 589	7 255	9 320	11 830	14 828	-
15	-	3 189	4 142	5 375	6 934	8 867	11 219	14 034	-
20	-	3 114	4 021	5 180	6 640	8 447	10 647	13 285	-
30	-	2 958	3 791	4 823	6 102	7 677	9 593	11 897	-
40	-	2 748	3 534	4 466	5 592	6 960	8 619	10 614	-
50	-	-	-	-	-	6 245	7 672	9 385	-
60	-	-	-	-	-	-	-	-	-

## Power input in W

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	2 389	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	2 795	2 852	2 971	3 134	3 327	3 533	3 737	-
40	-	3 234	3 303	3 436	3 620	3 837	4 073	4 311	-
50	-	-	-	-	-	4 479	4 735	4 999	-
60	-	-	-	-	-	-	-	-	-

## Current consumption in A

5	-	5.38	5.15	5.05	5.05	5.09	5.12	5.08	-
10	-	5.48	5.29	5.24	5.29	5.38	5.45	5.46	-
15	-	5.56	5.41	5.40	5.49	5.62	5.74	5.80	-
20	-	5.64	5.52	5.55	5.67	5.84	6.00	6.10	-
30	-	5.84	5.77	5.85	6.04	6.26	6.49	6.65	-
40	-	6.19	6.15	6.27	6.49	6.75	7.02	7.22	-
50	-	-	-	-	-	7.42	7.70	7.93	-
60	-	-	-	-	-	-	-	-	-

## Mass flow in kg/h

5	-	52	68	90	118	153	196	248	-
10	-	52	68	89	116	149	191	241	-
15	-	52	68	88	114	147	187	235	-
20	-	53	68	88	113	145	183	230	-
30	-	54	69	89	112	142	178	222	-
40	-	54	70	89	112	140	175	216	-
50	-	-	-	-	-	139	172	212	-
60	-	-	-	-	-	-	-	-	-

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

5	-	2.16	2.86	3.66	4.56	5.57	6.72	8.08	-
10	-	1.74	2.26	2.86	3.53	4.29	5.15	6.16	-
15	-	1.48	1.90	2.38	2.91	3.52	4.21	5.01	-
20	-	1.30	1.66	2.05	2.50	3.00	3.57	4.22	-
30	-	1.06	1.33	1.62	1.95	2.31	2.72	3.18	-
40	-	0.85	1.07	1.30	1.54	1.81	2.12	2.46	-
50	-	-	-	-	-	1.39	1.62	1.88	-
60	-	-	-	-	-	-	-	-	-

## Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	4 110	W
Power input	3 416	W
Current consumption	6.25	A
Mass flow	82	kg/h
C.O.P.	1.20	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	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

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**Performance data at 50 Hz, with Liquid Injection, Superheat = 10 K, Subcooling = 5 K**

## R449A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
		-40	-35	-30	-25	-20	-15	-10	

## Cooling capacity in W

[illegible]

## Power input in W

Power input in W									
5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	1 809	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	2 082	2 239	2 420	2 613	2 800	2 968	3 101	-
40	-	2 527	2 642	2 806	3 004	3 221	3 442	3 652	-
50	-	3 211	3 257	3 375	3 550	3 768	4 013	4 271	-
60	-	-	-	-	-	-	4 750	5 027	-

**Current consumption in A**

[illegible]

**Mass flow in kg/h**

Mass flow in kg/h									
5	-	51	67	87	110	138	170	207	-
10	-	51	67	87	110	138	170	206	-
15	-	51	67	87	110	137	169	205	-
20	-	50	67	86	109	136	168	204	-
30	-	50	66	85	108	135	166	201	-
40	-	50	66	85	107	133	163	198	-
50	-	51	66	85	106	132	161	195	-
60	-	-	-	-	-	-	159	192	-

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

Coefficient of performance (COP <sub>h</sub> )									
5	-	1.75	2.15	2.67	3.34	4.27	5.61	7.72	-
10	-	1.60	1.96	2.40	2.95	3.67	4.64	6.03	-
15	-	1.46	1.78	2.17	2.63	3.21	3.95	4.95	-
20	-	1.32	1.62	1.96	2.36	2.83	3.42	4.17	-
30	-	1.03	1.30	1.58	1.89	2.23	2.63	3.11	-
40	-	0.77	0.99	1.22	1.47	1.73	2.03	2.36	-
50	-	0.54	0.71	0.90	1.09	1.30	1.53	1.78	-
60	-	-	-	-	-	-	1.11	1.30	-

**Nominal performance at  $t_o = -35\text{ }^{\circ}\text{C}$ ,  $t_c = 40\text{ }^{\circ}\text{C}$**

Nominal performance at $t_c = -35^\circ\text{C}$ , $t_e = 45^\circ\text{C}$		
Cooling capacity	2 605	W
Power input	2 642	W
Current consumption	6.44	A
Mass flow	66	kg/h
C.O.P.	0.99	

### Pressure switch settings

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	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:** Superb = 10, Ks = 9, Subcooling = 8. Logos, brochures and other printed material. Danfoss **Tolerance according to EN12900** products without notice. This also applies to products already on order provided that such alternations can be made without subsequent changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 50 Hz, with Liquid Injection, Suction temp. = 18.3 °C,  
Subcooling = 5 K

# R449A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	2 706	3 612	4 738	6 110	7 752	9 690	11 950	-
10	-	2 601	3 480	4 569	5 891	7 472	9 337	11 512	-
15	-	2 498	3 349	4 399	5 671	7 189	8 979	11 066	-
20	-	2 398	3 219	4 228	5 448	6 903	8 617	10 615	-
30	-	2 208	2 965	3 888	4 999	6 321	7 877	9 692	-
40	-	2 030	2 717	3 547	4 543	5 726	7 119	8 744	-
50	-	-	-	-	-	5 120	6 343	7 772	-
60	-	-	-	-	-	-	-	-	-

## Power input in W

5	-	1 567	1 700	1 800	1 851	1 839	1 748	1 564	-
10	-	1 637	1 789	1 919	2 013	2 055	2 030	1 924	-
15	-	1 715	1 879	2 033	2 162	2 251	2 285	2 249	-
20	-	1 809	1 978	2 148	2 305	2 434	2 520	2 548	-
30	-	2 082	2 239	2 420	2 613	2 800	2 968	3 101	-
40	-	2 527	2 642	2 806	3 004	3 221	3 442	3 652	-
50	-	-	-	-	-	3 768	4 013	4 271	-
60	-	-	-	-	-	-	-	-	-

## Current consumption in A

5	-	5.32	5.24	5.21	5.18	5.11	4.93	4.61	-
10	-	5.62	5.57	5.58	5.61	5.60	5.50	5.27	-
15	-	5.83	5.80	5.85	5.93	5.98	5.95	5.80	-
20	-	5.97	5.97	6.05	6.17	6.27	6.31	6.23	-
30	-	6.17	6.19	6.31	6.49	6.68	6.83	6.89	-
40	-	6.43	6.44	6.58	6.80	7.06	7.29	7.46	-
50	-	-	-	-	-	7.60	7.90	8.15	-
60	-	-	-	-	-	-	-	-	-

## Mass flow in kg/h

5	-	42	56	74	96	122	153	190	-
10	-	42	56	74	95	121	153	189	-
15	-	42	56	74	95	121	152	188	-
20	-	41	56	73	95	120	151	187	-
30	-	41	55	73	94	119	149	185	-
40	-	41	55	72	93	118	147	182	-
50	-	-	-	-	-	116	145	179	-
60	-	-	-	-	-	-	-	-	-

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

5	-	1.73	2.12	2.63	3.30	4.22	5.54	7.64	-
10	-	1.59	1.95	2.38	2.93	3.64	4.60	5.98	-
15	-	1.46	1.78	2.16	2.62	3.19	3.93	4.92	-
20	-	1.33	1.63	1.97	2.36	2.84	3.42	4.17	-
30	-	1.06	1.32	1.61	1.91	2.26	2.65	3.13	-
40	-	0.80	1.03	1.26	1.51	1.78	2.07	2.39	-
50	-	-	-	-	-	1.36	1.58	1.82	-
60	-	-	-	-	-	-	-	-	-

## Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	3 230	W
Power input	2 774	W
Current consumption	6.54	A
Mass flow	66	kg/h
C.O.P.	1.16	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

## Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Tolerance according to EN12900

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 60 Hz, with Liquid Injection, Superheat = 10 K, Subcooling = 5 K

# R449A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	3 412	4 492	5 909	7 709	9 938	12 638	15 849	-
10	-	3 295	4 311	5 636	7 318	9 404	11 936	14 956	-
15	-	3 192	4 150	5 390	6 961	8 909	11 281	14 117	-
20	-	3 093	4 000	5 163	6 630	8 448	10 665	13 324	-
30	-	2 886	3 712	4 740	6 019	7 599	9 527	11 850	-
40	-	2 621	3 392	4 312	5 431	6 800	8 467	10 482	-
50	-	2 251	2 990	3 828	4 814	5 999	7 433	9 167	-
60	-	-	-	-	-	-	6 370	7 851	-

## Power input in W

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	2 389	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	2 795	2 852	2 971	3 134	3 327	3 533	3 737	-
40	-	3 234	3 303	3 436	3 620	3 837	4 073	4 311	-
50	-	3 838	3 909	4 050	4 245	4 479	4 735	4 999	-
60	-	-	-	-	-	-	5 652	5 932	-

## Current consumption in A

5	-	5.38	5.15	5.05	5.05	5.09	5.12	5.08	-
10	-	5.48	5.29	5.24	5.29	5.38	5.45	5.46	-
15	-	5.56	5.41	5.40	5.49	5.62	5.74	5.80	-
20	-	5.64	5.52	5.55	5.67	5.84	6.00	6.10	-
30	-	5.84	5.77	5.85	6.04	6.26	6.49	6.65	-
40	-	6.19	6.15	6.27	6.49	6.75	7.02	7.22	-
50	-	6.80	6.77	6.90	7.14	7.42	7.70	7.93	-
60	-	-	-	-	-	-	8.65	8.87	-

## Mass flow in kg/h

5	-	64	84	109	140	178	225	279	-
10	-	64	83	107	137	173	218	271	-
15	-	65	83	106	135	170	212	263	-
20	-	65	84	106	133	167	208	257	-
30	-	67	85	106	132	163	202	247	-
40	-	68	86	107	132	162	198	241	-
50	-	66	86	107	132	161	195	236	-
60	-	-	-	-	-	-	193	233	-

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

5	-	2.20	2.90	3.71	4.62	5.64	6.80	8.17	-
10	-	1.75	2.28	2.88	3.56	4.33	5.20	6.21	-
15	-	1.48	1.90	2.38	2.93	3.54	4.23	5.04	-
20	-	1.29	1.65	2.05	2.50	3.00	3.57	4.24	-
30	-	1.03	1.30	1.60	1.92	2.28	2.70	3.17	-
40	-	0.81	1.03	1.25	1.50	1.77	2.08	2.43	-
50	-	0.59	0.76	0.95	1.13	1.34	1.57	1.83	-
60	-	-	-	-	-	-	1.13	1.32	-

## Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	3 392	W
Power input	3 303	W
Current consumption	6.15	A
Mass flow	86	kg/h
C.O.P.	1.03	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

## Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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# Datasheet, performance data

Scroll compressor. LLZ015T4-LI.

Performance data at 60 Hz, with Liquid Injection, Suction temp. = 18.3 °C,  
Subcooling = 5 K

# R449A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
		-40	-35	-30	-25	-20	-15	-10

## Cooling capacity in W

5	-	3 365	4 433	5 833	7 613	9 818	12 494	15 683	-
10	-	3 272	4 279	5 593	7 260	9 326	11 838	14 837	-
15	-	3 191	4 145	5 379	6 939	8 873	11 227	14 043	-
20	-	3 116	4 024	5 184	6 644	8 453	10 654	13 294	-
30	-	2 961	3 794	4 827	6 108	7 683	9 601	11 907	-
40	-	2 751	3 538	4 471	5 598	6 967	8 627	10 625	-
50	-	-	-	-	-	6 253	7 682	9 397	-
60	-	-	-	-	-	-	-	-	-

## Power input in W

5	-	1 554	1 548	1 591	1 667	1 762	1 858	1 940	-
10	-	1 884	1 895	1 957	2 055	2 173	2 296	2 407	-
15	-	2 157	2 182	2 262	2 379	2 519	2 666	2 803	-
20	-	2 389	2 427	2 521	2 656	2 816	2 984	3 146	-
30	-	2 795	2 852	2 971	3 134	3 327	3 533	3 737	-
40	-	3 234	3 303	3 436	3 620	3 837	4 073	4 311	-
50	-	-	-	-	-	4 479	4 735	4 999	-
60	-	-	-	-	-	-	-	-	-

## Current consumption in A

5	-	5.38	5.15	5.05	5.05	5.09	5.12	5.08	-
10	-	5.48	5.29	5.24	5.29	5.38	5.45	5.46	-
15	-	5.56	5.41	5.40	5.49	5.62	5.74	5.80	-
20	-	5.64	5.52	5.55	5.67	5.84	6.00	6.10	-
30	-	5.84	5.77	5.85	6.04	6.26	6.49	6.65	-
40	-	6.19	6.15	6.27	6.49	6.75	7.02	7.22	-
50	-	-	-	-	-	7.42	7.70	7.93	-
60	-	-	-	-	-	-	-	-	-

## Mass flow in kg/h

5	-	53	70	93	121	157	202	257	-
10	-	53	70	91	119	153	196	248	-
15	-	53	69	90	117	150	191	241	-
20	-	54	70	90	115	147	187	236	-
30	-	55	71	90	114	144	181	227	-
40	-	56	72	91	114	143	178	221	-
50	-	-	-	-	-	142	176	217	-
60	-	-	-	-	-	-	-	-	-

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

5	-	2.17	2.86	3.67	4.57	5.57	6.72	8.08	-
10	-	1.74	2.26	2.86	3.53	4.29	5.16	6.16	-
15	-	1.48	1.90	2.38	2.92	3.52	4.21	5.01	-
20	-	1.30	1.66	2.06	2.50	3.00	3.57	4.23	-
30	-	1.06	1.33	1.62	1.95	2.31	2.72	3.19	-
40	-	0.85	1.07	1.30	1.55	1.82	2.12	2.46	-
50	-	-	-	-	-	1.40	1.62	1.88	-
60	-	-	-	-	-	-	-	-	-

## Nominal performance at to = -31.7 °C, tc = 40.6 °C

Cooling capacity	4 114	W
Power input	3 416	W
Current consumption	6.25	A
Mass flow	84	kg/h
C.O.P.	1.20	

## Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	0.15	bar(g)
LP pump down setting	1.015	bar(g)

## Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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