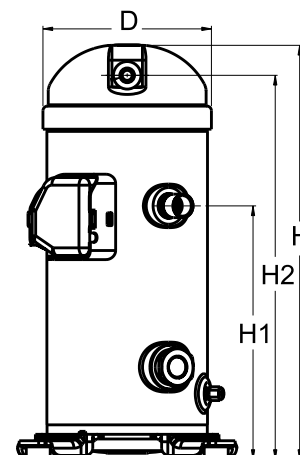


General Characteristics

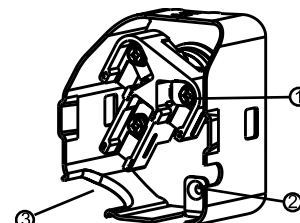
Model number (on compressor nameplate)	MLZ045T4LC9	MLZ045T4LC9
Code number for Singlepack*	121U8014	120U8014
Code number for Industrial pack**	121U8013	120U8013
Drawing number	0XR6025B-2	0XR6025B-2
Suction and discharge connections	Brazed	Brazed
Suction connection	7/8 " ODF	7/8 " ODF
Discharge connection	1/2 " ODF	1/2 " ODF
Oil sight glass	Threaded	Threaded
Oil equalization connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	464 psi	464 psi
Swept volume	6.01 in ³ /rev	
Displacement @ Nominal speed	606 cfh @ 2900 rpm - 731 cfh @ 3500 rpm	
Net weight	90 lbs	
Oil charge	53 oz, PVE - -	
Maximum system test pressure Low Side / High side	- psi / - psi	
Maximum differential test pressure	- psi	
Maximum number of starts per hour	12	
Refrigerant charge limit	12 lbs	
Approved refrigerants	R404A, R507, R134a, R407A, R407C, R407F, R22	

Dimensions


D=7.2 inch, H=17.9 inch,
H1=11 inch, H2=16.6 inch, H3=- inch

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 77°F	1.869 Ω
Winding resistance between phases 1-3 +/- 7% at 77°F	1.88 Ω
Winding resistance between phases 2-3 +/- 7% at 77°F	1.8 Ω
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	82 A
Motor protection	Internal overload protector

Terminal box


IP22

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

Recommended Installation torques

Suction Rotolock nut or valve	0 ft.lbs
Discharge Rotolock nut or valve	0 ft.lbs
Oil sight glass	39 ft.lbs
Power connections / Earth connection	2 ft.lbs / 1 ft.lbs

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

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

*Singlepack: Compressor in cardboard box. 121U... for Europe, 120U... for USA

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

Rotolock accessories, suction side
Code no.

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

Rotolock accessories, discharge side
Code no.

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

Rotolock accessories, sets
Code no.

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

Oil / lubricants
Code no.

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

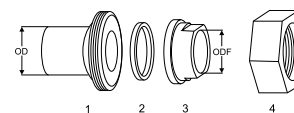
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 460 V, UL	120Z5012

Miscellaneous accessories
Code no.

Acoustic hood	120Z5044
Discharge thermostat kit	7750009

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
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Solder sleeve adapter set


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

Datasheet, performance data
Scroll compressor MLZ045T4
Performance data at 60 Hz, ARI rating conditions
R134a

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	5	10	15	20	25	30	40	50	60

Cooling capacity in Btu/h

70	25 332	28 856	32 757	37 042	41 717	46 786	58 134	-	-
80	24 090	27 501	31 279	35 431	39 962	44 878	55 890	68 512	-
90	22 636	25 916	29 554	33 556	37 926	42 672	53 312	65 523	79 353
100	21 023	24 155	27 636	31 469	35 662	40 220	50 454	62 219	75 562
120	17 531	20 316	23 428	26 874	30 659	34 788	44 107	54 876	67 142
140	-	-	-	22 068	25 375	29 008	37 271	46 905	57 956
160	-	-	-	-	-	23 300	30 369	38 729	48 426

Power input in W

70	2 009	2 033	2 056	2 078	2 102	2 129	2 198	-	-
80	2 243	2 269	2 293	2 315	2 336	2 360	2 419	2 504	-
90	2 509	2 539	2 564	2 587	2 608	2 630	2 682	2 754	2 861
100	2 808	2 843	2 872	2 897	2 920	2 941	2 988	3 051	3 142
120	3 515	3 565	3 605	3 639	3 668	3 693	3 739	3 791	3 861
140	-	-	-	4 555	4 596	4 631	4 688	4 740	4 800
160	-	-	-	-	-	5 769	5 849	5 913	5 974

Current consumption in A

70	3.15	3.19	3.23	3.26	3.30	3.34	3.45	-	-
80	3.52	3.56	3.60	3.63	3.67	3.70	3.80	3.93	-
90	3.94	3.98	4.02	4.06	4.09	4.13	4.21	4.32	4.49
100	4.41	4.46	4.51	4.55	4.58	4.61	4.69	4.79	4.93
120	5.52	5.59	5.66	5.71	5.75	5.79	5.87	5.95	6.06
140	-	-	-	7.15	7.21	7.27	7.36	7.44	7.53
160	-	-	-	-	-	9.05	9.18	9.28	9.37

Mass flow in lbs/h

70	347	390	438	491	548	610	745	-	-
80	348	391	438	491	549	611	748	900	-
90	347	389	436	489	547	609	747	901	1 067
100	344	385	432	485	542	605	744	899	1 068
120	334	373	419	470	527	589	729	886	1 059
140	-	-	-	450	506	567	706	864	1 040
160	-	-	-	-	-	541	678	836	1 013

Energy Efficiency Ratio (E.E.R.)

70	12.61	14.19	15.93	17.82	19.85	21.98	26.45	-	-
80	10.74	12.12	13.64	15.31	17.10	19.02	23.10	27.36	-
90	9.02	10.21	11.52	12.97	14.54	16.22	19.88	23.79	27.73
100	7.49	8.50	9.62	10.86	12.21	13.67	16.89	20.40	24.05
120	4.99	5.70	6.50	7.38	8.36	9.42	11.80	14.48	17.39
140	-	-	-	4.84	5.52	6.26	7.95	9.90	12.08
160	-	-	-	-	-	4.04	5.19	6.55	8.11

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	26 874	Btu/h	Current consumption	5.71	A
Power input	3 639	W	Mass flow	470	lbs/h
E.E.R.	7.38				

Pressure switch settings

Maximum HP switch setting	342	psi(g)
Minimum LP switch setting	7	psi(g)
LP pump down setting	12	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

All performance data +/- 5%

Sound power data

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

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Performance data at 60 Hz, ARI rating conditions
R404A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

50	29 174	37 557	47 745	59 891	-	-	-	-	-
60	27 333	35 220	44 803	56 237	69 668	-	-	-	-
70	25 493	32 886	41 864	52 590	65 216	79 873	-	-	-
80	23 617	30 518	38 893	48 912	60 735	74 505	90 335	-	-
100	19 624	25 538	32 711	41 319	51 538	63 540	77 475	85 205	93 455
120	-	20 022	25 983	33 173	41 785	52 018	64 066	70 830	78 114
140	-	-	-	24 185	31 164	39 617	49 795	55 617	61 977

Power input in W

50	2 493	2 560	2 594	2 607	-	-	-	-	-
60	2 828	2 902	2 941	2 957	2 963	-	-	-	-
70	3 196	3 277	3 320	3 339	3 346	3 354	-	-	-
80	3 609	3 696	3 744	3 765	3 772	3 778	3 796	-	-
100	4 620	4 718	4 774	4 798	4 805	4 806	4 815	4 826	4 843
120	-	6 067	6 128	6 154	6 159	6 154	6 152	6 156	6 166
140	-	-	-	7 930	7 931	7 918	7 905	7 901	7 903

Current consumption in A

50	3.91	4.02	4.07	4.09	-	-	-	-	-
60	4.44	4.55	4.61	4.64	4.65	-	-	-	-
70	5.01	5.14	5.21	5.24	5.25	5.26	-	-	-
80	5.66	5.80	5.87	5.91	5.92	5.93	5.95	-	-
100	7.25	7.40	7.49	7.53	7.54	7.54	7.55	7.57	7.60
120	-	9.52	9.61	9.66	9.66	9.65	9.65	9.66	9.67
140	-	-	-	12.44	12.44	12.42	12.40	12.40	12.40

Mass flow in lbs/h

50	417	564	722	896	-	-	-	-	-
60	431	570	721	890	1 080	-	-	-	-
70	440	573	719	882	1 069	1 281	-	-	-
80	446	573	714	874	1 057	1 266	1 503	-	-
100	442	562	696	851	1 030	1 236	1 472	1 600	1 735
120	-	533	665	818	997	1 205	1 442	1 571	1 707
140	-	-	-	773	955	1 168	1 410	1 543	1 682

Energy Efficiency Ratio (E.E.R.)

50	11.70	14.67	18.41	22.97	-	-	-	-	-
60	9.66	12.14	15.24	19.02	23.51	-	-	-	-
70	7.98	10.04	12.61	15.75	19.49	23.82	-	-	-
80	6.54	8.26	10.39	12.99	16.10	19.72	23.80	-	-
100	4.25	5.41	6.85	8.61	10.73	13.22	16.09	17.66	19.30
120	-	3.30	4.24	5.39	6.78	8.45	10.41	11.51	12.67
140	-	-	-	3.05	3.93	5.00	6.30	7.04	7.84

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	41 785	Btu/h	Current consumption	9.66	A
Power input	6 159	W	Mass flow	997	lbs/h
E.E.R.	6.78				

Pressure switch settings

Maximum HP switch setting	431	psi(g)
Minimum LP switch setting	20	psi(g)
LP pump down setting	29	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

All performance data +/- 5%

Sound power data

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

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