

# Compressors ZMC, EGL70AT, 1/5Hp, 1Ph, GL70AT, R-134a, standard Efficiency, 220-240V 50Hz, Cubigel Compressor, Cubigel, RSIR, LBP – LST – S, no Starting capacitor

written by Lilianne | 19 December 2020



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**G L Y 60 R A a**

Indicates refrigerant.

**G** = R134a      **N** = R290  
**M** = R404A/R507    **H** = R600a

Indicates compressor range (overall design).

**L** = 4.5 - 10.7cm<sup>3</sup>    **X** = 16.0 - 23.0cm<sup>3</sup>  
**U** = 4.5 - 8.9cm<sup>3</sup>    **P** = 12.0 - 18.0cm<sup>3</sup>    **S** = 18.0 - 38.0cm<sup>3</sup>

Indicates energy efficiency level. Not appearing in case of Standard efficiency.

**Blank** = Standard Efficiency      **T** = Top Efficiency - Run Capacitor  
**C** = Enhance Efficiency          **RSCR** or **CSR**  
**M** = Medium                          **S** = Super Efficiency - Run Capacitor  
**Y** = High Efficiency - Run Capacitor    Optional **RSIR/RSCR** or **CSIR/CSR**  
Optional **RSIR/RSCR** or **CSIR/CSR**

Indicates approximate compressor displacement under the following rule:

**U / L** ranges 10 times the approx. displacement in cm<sup>3</sup>/rev (GL90TB -> approx 9 cm<sup>3</sup>/rev)  
**P / X / S** ranges The approx. displacement in cm<sup>3</sup>/rev (MX21TG -> approx 21 cm<sup>3</sup>/rev)

Indicates the starting torque, application type and compressor cooling:

**A** = LBP - LST - S      **L** = LBP - HST - Fan (Current Relay)      **R** = HMBP - HST - FAN  
**C** = LBP - LST - FAN    **M** = HMBP - LST/HST - S/FAN      (CSR versions with Current Relay)  
**D** = LBP - HST - S      **N** = LMBP - LST/HST - S/FAN      **T** = HMBP - HST - FAN  
**F** = LBP - HST -FAN    **P** = HMBP - LST - FAN      (CSR versions with Potential Relay)

Indicates the rated voltage:

**A** = 220-240V 50Hz      **G** = 200-220V 50Hz / 220-230V 60Hz  
**B** = 220-240V 50Hz (standard efficiency)    **J** = 100V 50/60Hz  
**C** = 200-220V 50Hz (standard efficiency)    **N** = 200-220V 50Hz or 200-240V 50Hz /

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Model	Capacity	Efficiency	Compressor	Refrigerant	Voltage	Phase	Control	Starting Torque	Running Torque	Current	Power	Capacity	Efficiency	Compressor	Refrigerant	Voltage	Phase	Control	Starting Torque	Running Torque	Current	Power	Capacity	Efficiency	Compressor	Refrigerant	Voltage	Phase	Control	Starting Torque	Running Torque	Current	Power
GD40AA	4.06	1/10	LBP	S	220-240V 50Hz -1	RSIR	P	C	34	50	70	0.77	155	82	1.00	6.1	Dd																
GD40AF	4.06	1/10	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	31	47	66	0.67	147	78	0.88	6.8	Dd																
GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz -1	RSIR	P	C	47	65	89	1.01	192	104	1.30	8.7	Lb																
GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz -1	RSCR	P	C	48	66	90	1.05	193	105	1.36	8.7	Lb																
GL45AAa	4.56	1/8	LBP	S	220-240V 50Hz -1	RSIR	P	C	37	57	81	0.81	184	96	1.06	7.9	Lb																
GL45AAb	4.56	1/8	LBP	S	220-240V 50Hz -1	CSIR	R	C-V	37	57	81	0.81	184	96	1.06	7.9	Lb																
GL45AF	4.56	1/8	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	36	56	80	0.74	184	95	0.97	8.4	Lb																
GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz -1	RSIR	P	C	36	56	80	0.78	184	95	1.03	8.4	Lb																
GLY55AAa	5.46	1/7	LBP	S	220-240V 50Hz -1	RSIR	P	C	53	78	108	1.03	238	127	1.33	8.7	Lb																
GLY55AAb	5.46	1/7	LBP	S	220-240V 50Hz -1	RSCR	P	C	54	78	109	1.09	239	128	1.40	8.7	Lb																
GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz -1	RSIR	P	C	58	85	119	1.03	255	139	1.34	8.7	Lb																
GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz -1	RSCR	P	C	58	86	120	1.10	256	140	1.42	8.7	Lb																
GL60AAa	5.98	1/6	LBP	S	220-240V 50Hz -1	RSIR	P	C	50	75	107	0.85	239	126	1.10	8.4	Lb																
GL60AAb	5.98	1/6	LBP	S	220-240V 50Hz -1	CSIR	R	C-V	50	75	107	0.85	239	126	1.10	8.4	Lb																
GL60AF	5.98	1/6	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	57	81	113	0.82	245	132	1.07	9.1	Lb																
GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz -1	RSIR	P	C	57	82	114	0.83	244	133	1.09	9.1	Lc																
GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz -1	CSIR	R	C-V	57	82	114	0.83	244	133	1.09	9.1	Lc																
GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz -1	CSIR	R	C-V	57	82	114	0.83	244	133	1.09	9.1	Lc																
GL60ANd	5.98	1/6	LBP	OC	200-240/220-230V 50/60Hz -1	RSIR	P	C	57	82	114	0.83	244	133	1.09	9.2	Lc																
GLY70AAa	6.65	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	70	96	132	1.05	288	154	1.36	9.7	Lb																
GLY70AAb	6.65	1/5	LBP	S	220-240V 50Hz -1	RSCR	P	C	71	97	133	1.12	289	155	1.44	9.7	Lb																
GL70AA	6.65	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	58	86	121	0.87	268	142	1.12	8.8	Lc																
GL70ANa	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	70	95	129	0.83	278	151	1.08	9.4	Lc																
GL70ANb	6.65	1/5	LBP	F	200-220/220-230V 50/60Hz -1	CSIR	R	C-V	70	95	129	0.83	278	151	1.08	9.4	Lc																
GL70ANc	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz -1	CSIR	R	C-V	70	95	129	0.83	278	151	1.08	9.4	Lc																
GL70ANd	6.65	1/5	LBP	OC	200-220/220-230V 50/60Hz -1	RSIR	P	C	70	96	129	0.83	278	151	1.08	9.5	Ld																
GLY75AAa	7.38	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	74	107	147	1.06	311	172	1.36	9.9	Lc																
GLY75AAb	7.38	1/5	LBP	S	220-240V 50Hz -1	RSCR	P	C	76	108	147	1.12	312	172	1.44	9.9	Lc																
GL75AA	7.38	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	68	95	132	0.91	296	155	1.18	9.0	Lc																
GLY90AAa	8.10	1/5	LBP	S	220-240V 50Hz -1	RSCR	P	C	99	139	184	1.07	348	184	1.37	10.0	Lc																

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## Model: GL70AA

### General data

Refrigerant:	R134a
Discharge element:	C
Cooling:	S
Maximum ambient temperature [°C]:	43

### Compressor's data

Cylinder capacity [cm <sup>3</sup> ]:	6,7
Displacement [m <sup>3</sup> /h]:	1,1
Weight [kg]:	9,6
Oil charge [cm <sup>3</sup> ]:	345
Oil type:	ISO VG 19 ESTER

### Engine's data

Engine type:	RSIR
Power [KM]:	1/5
Starting element:	LST
Power supply:	220V 50Hz
Voltage range:	187-264
Locked rotor current [A]:	10,9
Running winding resistance (25°C) [Ω]:	12,59
Starting winding resistance (25°C) [Ω]:	22,02

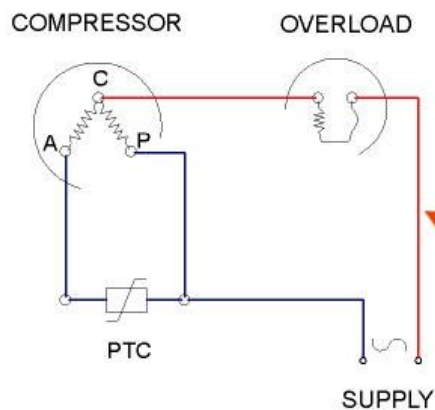
### Electrical data

Relays:	3003
Shielding element:	MRA38028, T0508, AF18FU
Starting capacitor volume [μF]:	



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## RSIR



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■ R134a

Model	Refr.	HP	Ambient Temp C	Rated Voltage	Cooling Capacity		COP without RC		COP with RC	
					ASHRAE -23.3°C kcal/h	CECOMAF -25°C W	ASHRAE -23.3°C W/W	CECOMAF -25°C W/W	ASHRAE -23.3°C W/W	CECOMAF -25°C W/W
▶ <input type="checkbox"/> GL45AA	LBP-R134a	1.8	43	A	96	82	1.06	0.82		
▶ <input type="checkbox"/> GL45AH	LBP-R134a	1.8	50	C	96	81	1.05	0.8		
▶ <input type="checkbox"/> GL60AA	LBP-R134a	1.6	43	A	122	114	1.14	0.89		
▶ <input type="checkbox"/> GL60AF	LBP-R134a	1.6	43	D	122	113	1.07	0.82		
▶ <input type="checkbox"/> GL60AH	LBP-R134a	1.6	43	A	133	114	1.31	1.01		
▶ <input type="checkbox"/> GL60AN	LBP-R134a	1.6	50	C	122	114	1.07	0.83		
▶ <input type="checkbox"/> GL70AA	LBP-R134a	1.5	43	A	140	128	1.18	0.92		
▶ <input type="checkbox"/> GL70AN	LBP-R134a	1.5	50	D	150	129	1.08	0.83		
▶ <input type="checkbox"/> GL70AT	LBP-R134a	1.5	43	E	144	122	1.09	0.84		
▶ <input type="checkbox"/> GL75AA	LBP-R134a	1.5	43	A	155	133	1.18	0.92		
▶ <input type="checkbox"/> GL80AA	LBP-R134a	1.5	43	A	173	148	1.19	0.93		
▶ <input type="checkbox"/> GL80AF	LBP-R134a	1.5	43	D	166	141	1.14	0.88		
▶ <input type="checkbox"/> GL80AH	LBP-R134a	1.5	43	A	175	150	1.35	1.09		
▶ <input type="checkbox"/> GL80AN	LBP-R134a	1.4	43	A	190	168	1.36	1.09		
▶ <input type="checkbox"/> GL90AA	LBP-R134a	1.4	43	A	195	167	1.19	0.93		
▶ <input type="checkbox"/> GL90AH	LBP-R134a	1.4	43	A	215	182	1.39	1.08		
▶ <input type="checkbox"/> GL90AN	LBP-R134a	1.4	50	D	190	165	1.1	0.85		
▶ <input type="checkbox"/> GL90AT	LBP-R134a	1.4	43	E	190	161	1.19	0.92		
▶ <input type="checkbox"/> GL99AA	LBP-R134a	1.4	43	A	214	182	1.24	0.98		
▶ <input type="checkbox"/> GL99AH	LBP-R134a	1.4	43	A	215	182	1.39	1.08		
▶ <input type="checkbox"/> GL80AD	LBP-R134a	1.5	43	W	0	0	0	0		
▶ <input type="checkbox"/> GL90AD	LBP-R134a	1.4	43	W	0	0	0	0		

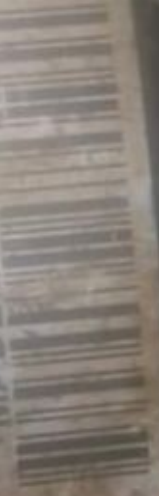


**ZMC** **EGL70AT** 0707

200-220V-50HZ

**R 134 a**

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