

# ZMC GL60AF Compressor Specs and Replacements

Category: Refrigeration

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**Danfoss** R134a



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R134a, refrigerant, compressor  
GL60AF, 200-220V~50Hz, LBP, 1/6 hp

## Description

Mbsm.pro: Compressor, ZMC, GL60AF, 1/6 HP, 1Ph, 200-220V 50Hz, R134a, LBP, Refrigeration

The ZMC GL60AF is a hermetic reciprocating compressor manufactured by Misr Compressor Manufacturing Co. (ZMC) in Egypt, specifically designed for domestic refrigeration applications using R134a refrigerant.

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## Technical Specifications Table

Feature	Details
Model	GL60AF
Brand	ZMC (Misr Compressor Manufacturing Co.)

Feature	Details
Origin	Made in Egypt
Utilisation	LBP (Low Back Pressure)
Domaine	Domestic Refrigerators & Freezers
Refrigerant Type	R134a
Horsepower (HP)	1/6 HP
Power Supply	200-220V/220-230V ~ 50/60Hz / 1Ph
Voltage Range	170-242V
Displacement	5.99 cm <sup>3</sup>
Cylinder Diameter	20.88 mm
Stroke	17.48 mm
Cooling Capacity (ASHRAE)	132W at -23.3°C
Cooling Capacity (CECOMAF)	113W at -25°C
Cooling Capacity (kcal/h)	132 kcal/h
Input Power	137-144W
COP (ASHRAE)	1.07 W/W
COP (CECOMAF)	0.82 W/W
EER	0.70-0.91 kcal/Wh
Oil Type	ISO VG 19 ESTER
Oil Charge	270 cm <sup>3</sup> (ml)
Motor Type	RSIR (Resistance Start Induction Run)
Net Weight	9.1 kg
Running Current	1.19-1.21A
Locked Rotor Current (LRA)	12.2A
Main Winding Resistance	8.67Ω at 25°C
Start Winding Resistance	18.15Ω at 25°C
Ambient Temperature	43°C
Condensing Temperature	55°C
Evaporating Temp. Range	-25°C to +10°C
Compressor Cooling	Static (Natural)
Application	Household refrigerators, freezers

## Test Conditions

### Cycle A (CECOMAF):

- Evaporating Temperature: -25°C
- Condensing Temperature: 55°C
- Liquid Temperature entering expansion valve: 55°C
- Ambient Temperature: 32°C

### Cycle B (ASHRAE):

- Evaporating Temperature: -23.3°C
- Condensing Temperature: 55°C
- Liquid Temperature entering expansion valve: 32°C
- Ambient Temperature: 32°C

# Efficiency Metrics (COP) Table

Performance varies based on operating conditions. Here is how the GL60AF performs:

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-25	113	137	0.82
-23.3	132	124	1.07
-20	145	130	1.12
-15	165	138	1.20
-10	190	148	1.28

## Replacement Models

### Same Brand (ZMC) Equivalent Models:

Model	HP	Application	Refrigerant	Notes
GL60AA	1/6	LBP	R134a	Higher efficiency variant
GL60AH	1/6	LBP	R134a	Enhanced performance model
GL60AN	1/6	LBP	R134a	50Hz optimized version
GL70AA	1/5	LBP	R134a	Slightly larger capacity

### Cross-Brand Replacements (R134a):

Brand	Model	HP	Voltage	Notes
Cubigel/ZEM	GL60AA	1/6	220-240V	Direct replacement <a href="http://frigopartners.com">frigopartners.com</a>
Cubigel	GL60AF	1/6	200-230V	Same specifications <a href="http://iglotech.pl">iglotech.pl</a>
Electrolux	EGL60AF	1/6	220V	OEM equivalent <a href="http://www.mbsm.pro">www.mbsm.pro</a>
Embraco	EMI60HER	1/6	120/220V	Alternative option <a href="http://www.supplyhouse.com">www.supplyhouse.com</a>
Danfoss/Secop	SC6CL	1/6	220V	Premium alternative
Tecumseh	CAJ4519Z	1/6	220V	Reliable substitute

## Alternative Refrigerant Replacements:

**Note:** Requires complete system flush and expansion device adjustment.

Brand	Model	Refrigerant	HP	Notes
ZMC	HL80AH	R600a	1/7	More efficient, eco-friendly
ZMC	HL90AH	R600a	1/7	Propane-based alternative
Danfoss	SC6CLX	R290	1/6	Natural refrigerant option

## Compatible Appliances

The ZMC GL60AF compressor is commonly used in:

- Single-door refrigerators (150-250 liters)
- Double-door refrigerators (280-350 liters) [www.mbsm.pro](http://www.mbsm.pro)
- Chest freezers
- Beverage coolers
- Small commercial refrigeration units

# Installation Notes

1. **Oil Compatibility:** Uses POE (Polyolester) oil – ISO VG 19 grade. Ensure system is clean and dry.
  2. **Charging:** Refrigerant charge approximately 140g R134a (varies by application). [www.mbsm.pro](http://www.mbsm.pro)
  3. **Starting Device:** Requires appropriate RSIR starting relay and capacitor.
  4. **Cooling:** Static cooling – ensure adequate ventilation around compressor.
  5. **Mounting:** Use original rubber mounts to minimize vibration.
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## Focus Keyphrase

ZMC GL60AF Compressor Specs and Replacements

## SEO Title

Mbsm.pro – ZMC GL60AF Compressor: 1/6 HP R134a Technical Guide

## Meta Description

Looking for ZMC GL60AF specs? We break down this 1/6 HP R134a LBP compressor including cooling capacity, oil type, technical data, and the best replacement models for your refrigerator repair.

## Slug

[zmc-gl60af-compressor-1-6-hp-r134a-specs](#)

## Tags

Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, ZMC, GL60AF, R134a, 1/6 HP, LBP, Egypt Compressor, Refrigeration, GL60AA, GL60AH, Cubigel, ZEM, Electrolux, Embraco, EMI60HER, Compressor Replacement, HVAC, Refrigerator Repair, Hermetic Compressor

## Excerpt

The ZMC GL60AF is a reliable 1/6 HP hermetic compressor designed for R134a LBP applications, widely used in domestic refrigerators and freezers. This comprehensive guide provides complete technical specifications including 5.99 cm<sup>3</sup> displacement, ISO VG 19 ester oil requirements, 132W cooling capacity, and detailed performance data. Find the best replacement options including Cubigel GL60AA, ZEM equivalents, and modern alternatives for your refrigeration repair needs.

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1/6 HP, Compressor Replacement, Cubigel, Egypt Compressor, Electrolux, Embraco, EMI60HER, GL60AA, GL60AF, GL60AH, HVAC, LBP, mbsm, mbsm.pro, mbsmgroup, mbsmpro.com, R134a, refrigeration, Refrigerator Repair, ZEM, ZMC