

# Compressor, ZMC EGM66AF, is an excellent fit for a 10-foot refrigerator

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Yes, this compressor (**ZMC EGM66AF**) is an excellent fit for a **10-foot refrigerator**. It is rated at approximately **1/6 HP**, which is the industry standard for domestic fridges in the 10 to 12-foot range.

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**Mbsmpro.com, Compressor, EGM66AF, 1/6 hp, ZMC, Cooling, R134a, 150 W, 1.1 A, 1Ph 220-240V 50Hz, LBP**

**Feature**

**Specification**

<b>Model</b>	ZMC EGM66AF
<b>Utilization</b>	LBP (Low Back Pressure)
<b>Domaine</b>	Freezing / Cooling (Domestic)
<b>Oil Type and Quantity</b>	POE / Ester Oil - ~180ml
<b>Horsepower (HP)</b>	1/6 HP
<b>Refrigerant Type</b>	R134a
<b>Power Supply</b>	220-240V ~ 50Hz
<b>Cooling Capacity BTU</b>	~512 BTU/h (at -23.3°C)
<b>Motor Type</b>	RSIR (Resistive Start - Induction Run)
<b>Displacement</b>	6.66 cm <sup>3</sup>
<b>Winding Material</b>	High-Grade Copper
<b>Pression Charge</b>	Low side: 0 - 10 PSI (typical)
<b>Capillary</b>	0.031" ID
<b>Model Fridge</b>	10 - 12 Feet (Kiriazi, Olympic, etc.)
<b>Temperature Function</b>	-35°C to -10°C
<b>With Fan or No</b>	No (Static Cooling)
<b>Commercial or No</b>	No (Residential/Domestic)
<b>Amperage in Function</b>	0.8A to 1.1A
<b>LRA</b>	9.0A
<b>Type of Relay</b>	PTC (Positive Temperature Coefficient)
<b>Capacitor</b>	Generally not required (None)

## Compressor Replacement Options

**5 Replacements (Same Gas - R134a):**

1. **Embraco:** EMY65HLC / EMI 70HER
2. **Danfoss/Secop:** TLS6F
3. **Panasonic:** QB66C13GAX5
4. **Tecumseh:** THG1352YGS
5. **Huayi:** HYE69MTU

## **5 Replacements (Other Gas - R600a):**

*Note: Requires full system flush and oil change consideration.*

1. **ZMC:** EGM66AA
  2. **Embraco:** EMX55CLC
  3. **Secop:** TLES6.5KK.3
  4. **Donper:** L72CZ1
  5. **Jiaxipera:** T1114Y
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## **The Engineering Guide to ZMC EGM66AF Performance**

In the demanding world of residential cooling, the compressor serves as the mechanical heart of the appliance. The **ZMC EGM66AF** stands out as a robust 1/6 HP unit, specifically engineered for **Low Back Pressure (LBP)** applications. This model is a favorite among field engineers due to its Egyptian-made reliability, combining European design standards with local durability.

### **Technical Efficiency & Motor Design**

The EGM66AF utilizes an **RSIR motor** (Resistive Start, Induction Run). Unlike many modern low-power compressors that use aluminum windings to shave weight, ZMC continues to utilize high-purity copper. This ensures

better heat dissipation and reduces the risk of winding burnout during high-ambient-temperature summers.

## Comparative Value Analysis

When compared to its peers, the EGM66AF offers a balanced displacement-to-power ratio:

<b>Feature</b>	<b>ZMC EGM66AF</b>	<b>Danfoss TLS6F</b>	<b>Embraco EMY65HLC</b>
<b>Displacement</b>	6.66 cc	5.70 cc	5.96 cc
<b>Cooling Power</b>	150 W	145 W	158 W
<b>Winding Type</b>	Copper	Mixed/Copper	Copper

## Professional Field Advice & Benefits

- **Optimal Environment:** This compressor is designed for static cooling. Do not install it in commercial cabinets that require forced-air fan cooling unless the airflow is specifically directed at the compressor body to prevent overheating.
- **Vacuum Protocol:** R134a systems use POE oil, which is highly sensitive to moisture. A minimum vacuum of 500 microns is essential to prevent “acid” formation inside the capillary tube.
- **Filter Drier:** Always replace the filter drier when installing a new EGM66AF. A 15g or 20g drier is sufficient for a 10-foot refrigerator setup.

## SEO Metadata

- **Focus Keyword:** ZMC EGM66AF Refrigerator Compressor 1/6 HP
- **SEO Title:** Mbsmpro.com | ZMC EGM66AF Compressor Specs | 1/6 HP R134a Technical Data
- **Meta Description:** Detailed technical specifications for the ZMC EGM66AF compressor. Ideal for 10-12 feet refrigerators using R134a. Find HP, cooling capacity, and 10 cross-replacement models.
- **Slug:** zmc-egm66af-1-6-hp-compressor-specs
- **Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, ZMC, EGM66AF, R134a, 1/6 HP, Refrigerator Repair, Compressor Replacement, Danfoss TLS6F, Embraco EMY65HLC, Panasonic QB66C, Cooling Technology.

## Excerpt

The ZMC EGM66AF is a high-reliability 1/6 HP compressor designed for Low Back Pressure (LBP) applications in domestic refrigerators ranging from 10 to 12 feet. Utilizing R134a refrigerant and a 6.66cc displacement, this unit features durable copper windings and an RSIR motor, making it a preferred choice for technicians seeking longevity and efficiency.



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