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

Category: Refrigeration
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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.

Mbsmpro.com, Compressor, EGM66AF, 1/6 hp, ZMC, Cooling, R134a, 150 W, 1.1 A, 1Ph

220-240V 50Hz, LBP

Feature	Specification
Model	ZMC EGM66AF
Utilization	LBP (Low Back Pressure)
Domaine	Freezing / Cooling (Domestic)
Oil Type and Quantity	POE / Ester Oil – ~180ml
Horsepower (HP)	1/6 HP
Refrigerant Type	R134a
Power Supply	220-240V ~ 50Hz
Cooling Capacity BTU	~512 BTU/h (at -23.3°C)
Motor Type	RSIR (Resistive Start – Induction Run)
Displacement	6.66 cm^3
Winding Material	High-Grade Copper
Pression Charge	Low side: 0 – 10 PSI (typical)
Capillary	0.031″ ID
Model Fridge	10 – 12 Feet (Kiriazi, Olympic, etc.)
Temperature Function	-35°C to -10°C
With Fan or No	No (Static Cooling)
Commercial or No	No (Residential/Domestic)
Amperage in Function	0.8A to 1.1A
LRA	9.0A
Type of Relay	PTC (Positive Temperature Coefficient)
Capacitor	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

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:

Feature	ZMC EGM66AF	Danfoss TLS6F	Embraco EMY65HLC
Displacement	6.66 cc	5.70 cc	5.96 cc
Cooling Power	150 W	145 W	158 W
Winding Type	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 Keyphrase:** 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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