

Huayi HYE55YL63 and ZMC EGM60AF

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In the demanding world of domestic refrigeration, the choice of a [compressor](#) determines the longevity and efficiency of the appliance. Two of the most prominent contenders for the **14-foot Kiriazi** and similar medium-sized refrigerators are the [Huayi HYE55YL63](#) and the [ZMC EGM60AF](#). Both are engineered for Low Back Pressure (LBP) applications using [R134a](#) gas, but they offer distinct technical nuances that every field technician and engineer should understand.

The [Huayi HYE55YL63](#) is a compact powerhouse with a 5.5cc displacement, optimized for balanced energy consumption. In contrast, the [ZMC EGM60AF](#) is often viewed as a slightly more robust alternative, providing a higher cooling capacity and a larger oil reservoir, which can be advantageous in high-ambient temperature environments. Understanding the intersection of these two models is essential for achieving “first-time-right” repairs.

Comprehensive Technical Comparison Table

Feature	Huayi HYE55YL63	ZMC EGM60AF
Model	HYE55YL63	EGM60AF
Utilisation (LBP)	LBP (Low Back Pressure)	LBP (Low Back Pressure)
Horsepower (HP)	1/5 HP	1/5 HP (High Efficiency)
Refrigerant Type	R134a	R134a
Cooling Capacity (-23.3°C)	155 W (529 BTU/h)	182 W (621 BTU/h)
Displacement	5.5 cm ³	6.0 cm ³
Oil Type and Quantity	POE / 200 cm ³	Ester / 270 cm ³
Motor Type	RSCR	RSIR / RSCR
Power Supply	220-240V / 50Hz	220-240V / 50Hz
LRA (Locked Rotor Amps)	6.5 A	11.72 A
Weight	7.9 kg	8.58 kg
Winding Material	Copper	Copper

Performance Dynamics: Why the [EGM60AF](#) Packs a Punch

While both compressors are rated at [1/5 HP](#), the [ZMC EGM60AF](#) features a larger cylinder volume of **6.0cc** compared to the **5.5cc** of the [Huayi](#) model. This translates directly into a higher mass flow of refrigerant.

Key Differences in Field Performance:

- Pull-Down Time:** The [EGM60AF](#) typically achieves the set-point temperature faster in a 14-foot cabinet due to its higher BTU/h output.
- Thermal Stability:** With a **270 cm³** oil charge, the [ZMC](#) model offers superior lubrication and cooling for the internal mechanical parts, making it more resilient during long run cycles in summer.
- Efficiency:** The [Huayi HYE55YL63](#) often runs at a lower amperage (approx. 0.7A) compared to the [EGM60AF](#), making it the preferred choice for energy-sensitive applications where a lighter load is sufficient.

[Compressor](#) Cross-Reference & Replacement Guide

For professionals looking to swap these units, the following models provide compatible cooling curves and physical footprints.

Top 5 Replacements ([R134a](#) Gas)

1. **Embraco:** EMT55HLP ([1/5 HP](#) – Standard)
2. **Secop / Danfoss:** TLES5.7FT.3 (High efficiency)
3. **Jiaxipera:** N1112GZ (Standard Chinese replacement)
4. **Cubigel:** GL60AA (Direct equivalent to [EGM60AF](#))
5. **Tecumseh:** THB1350YS (Reliable performance)

Top 5 Replacements (Alternative R600a Gas)

Important: Only use these if converting the entire system including capillary and dryer.

1. **Huayi:** HYE60MT
2. **Embraco:** EMX55CLC
3. **ZMC:** EGL60AF (R600a version)
4. **Secop:** TLES5.7KK.3
5. **Donper:** S65CY

Expert Recommendations for the Field

As a field engineer who has handled hundreds of Kiriazi 14-foot units, I strongly advise the following during installation:

- **Capillary Matching:** If upgrading from a 5.5cc to a 6.0cc [compressor](#), ensure your capillary tube is not restricted. A slight increase in capacity may lead to higher discharge pressures if the condenser is not kept clean.
- **Capacitor Utility:** The [Huayi](#) model performs best with a **3µF to 5µF** run capacitor. This stabilizes the motor torque and protects the windings from “stalling” during hot restarts.
- **The Vacuum Rule:** [R134a](#) systems are highly sensitive to moisture. Always pull a vacuum below **500 microns** to prevent the POE/Ester oil from turning acidic, which will eventually eat through the copper windings.

Focus Keyphrase: [Huayi HYE55YL63](#) vs [ZMC](#) EGM60AF [Compressor](#) Review

SEO Title: [Huayi HYE55YL63](#) vs [ZMC](#) EGM60AF: [1/5 HP Compressor](#) Technical Battle

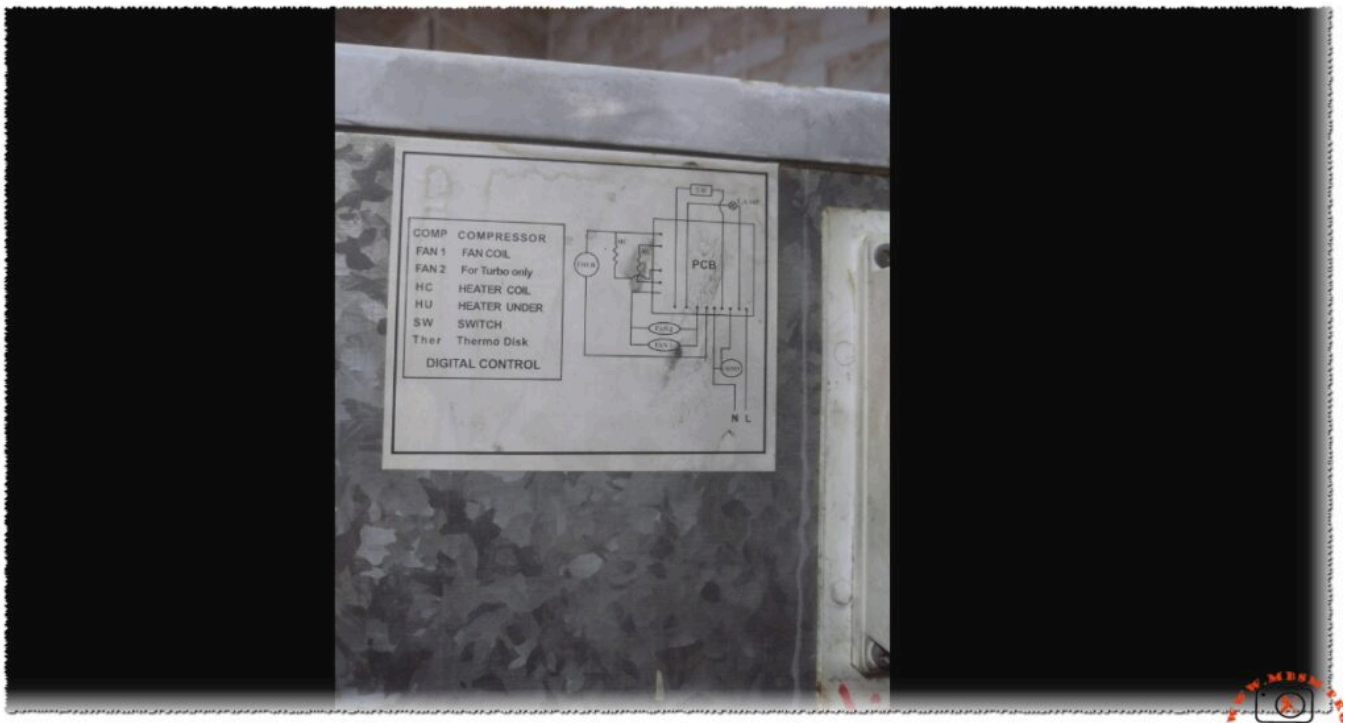
Meta Description: Compare technical specs of Huayi [HYE55YL63](#) and [ZMC](#) EGM60AF compressors. Find cooling capacity, displacement, and the best choice for Kiriazi 14-foot refrigerators.

Slug: [hye55yl63](#)-vs-egm60af-[compressor](#)-comparison

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Excerpt: The Huayi HYE55YL63 and ZMC EGM60AF are two industry-standard [1/5 HP](#) compressors used in domestic refrigerators. While both utilize [R134a](#) refrigerant, they differ in displacement and oil capacity. This technical review compares their performance curves and

cooling capacities to help technicians select the ideal replacement for Kiriazi and other 14-foot refrigerators.



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