

# Mastering the LG KX69LBEG: The Heart of Modern Domestic Refrigeration

Category: Refrigeration

written by [www.mbsmpro.com](http://www.mbsmpro.com) | January 30, 2026



The LG KX69LBEG is a high-performance 1/5 HP reciprocating compressor designed for Low Back Pressure (LBP) domestic refrigeration. Operating on R134a refrigerant at 220-240V/50Hz, this thermally protected unit is the standard for LG's cooling reliability. In this guide, we break down its displacement, amperage, and provide a comprehensive list of equivalent replacement models.

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## Engineering Overview: The S118CY1 Architecture

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The Donper S118CY1 compressor is a cornerstone of modern domestic refrigeration, engineered for high efficiency in Low Back Pressure (LBP) environments. Utilizing R600a refrigerant, this 1/4 HP unit provides reliable cooling for large household refrigerators and freezers. This guide explores its technical parameters, electrical requirements, and the best cross-reference alternatives for field technicians.

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# WPMR91S, the refrigerator requires exactly 13 grams of R600a refrigerant.

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The White Point WPMR91S is a high-efficiency 91-liter refrigerator utilizing a specialized 13-gram R600a refrigerant charge. Operating at 0.50A, this Turkish-made unit is designed for optimal LBP performance. This guide provides comprehensive technical specifications, compressor cross-references, and engineering insights for professional technicians and hobbyists looking for reliable maintenance data and replacement parts.

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# EVCIS-24K-MD, The gas r410a charge weight is approximately 1.80 kg

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The Evvoli EVCIS-24K-MD is a robust 2.5 HP rotary compressor designed for 24,000 BTU split-type air conditioners. Running on R410A refrigerant with a 20.0A rated current, it offers high-efficiency cooling and heating (26,000 BTU). This technical guide explores its pressure limits, electrical requirements, and the best replacement compressors for HVAC professionals and field workers.

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

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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.

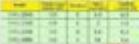
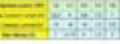
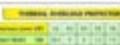
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## Role of Current Relays in Compressor Ignition

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CHARACTERISTIC TABLES OF  
VARIOUS START AND PROTECTION SYSTEMS

CURRENT RELAYS		THERMAL OVERLOAD PROTECTORS	
			
			
			

Selecting the right electrical components is the heartbeat of refrigeration maintenance. When a compressor fails to start or constantly trips, the culprit is often a mismatched Current Relay or a fatigued Thermal Overload Protector. Ensuring these parts align perfectly with the compressor's horsepower (HP) and amperage rating is vital for long-term system reliability.

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# [MAQ QD168H, Can this compressor be installed in a 1.5-meter two-door refrigerator?](#)

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The MAQ QD168H is a high-performance 1/4 HP hermetic compressor designed for R134a refrigerant systems. Ideal for domestic refrigerators and freezers, it offers a cooling capacity of approximately 195W. This article provides a deep dive into its electrical characteristics, displacement, and compatible replacements to ensure a professional and efficient cooling system repair or build.

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# [The Technician's Take on the Matsushita QA77C17GAX5](#)

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The Matsushita QA77C17GAX5 is a workhorse in the refrigeration world. This 1/4 HP R134a compressor is a go-to for many household fridges and freezers. In this guide, we break down the technical specs, electrical wiring, and the most reliable replacement options to help you get your cooling system back up and running fast.

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# [Technical Deep Dive: The LG FMA102NAMA Inverter Compressor](#)

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The LG FMA102NAMA is a sophisticated inverter compressor engineered for modern energy-efficient refrigeration systems. Utilizing R600a refrigerant and a variable frequency BLDC motor, this unit provides precise cooling for Low Back Pressure (LBP) applications. Manufactured by Taizhou LG Electronics in China, it features advanced thermal protection and a robust 0-220V 60Hz operating range.

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# [Working with the Samsung MSV4A1A-L1B: A Field Tech's Guide](#)

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The Samsung MSV4A1A-L1B is a high-efficiency inverter compressor specifically engineered for R600a residential refrigeration systems. Operating between 54Hz and 216Hz, this 1/4 HP BLDC unit provides variable cooling capacity for premium side-by-side refrigerators. This professional guide covers essential technical specifications, diagnostic resistance checks, and critical installation protocols for modern refrigeration artisans.