LG MA62LCEG compressor specifications R134a 1/5 hp LBP

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Focus Keyphrase: LG MA62LCEG compressor specifications R134a 1/5 hp LBP refrigeration

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Meta Description: Explore the LG MA62LCEG hermetic reciprocating compressor – 1/5 HP, R134a refrigerant, 174W cooling capacity, RSIR

motor. Ideal for domestic refrigerators and freezers. Full technical specs, performance data, and expert insights on mbsmpro.com.

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Excerpt: The LG MA62LCEG is a reliable hermetic reciprocating compressor designed for low back pressure (LBP) applications using R134a refrigerant. Rated at approximately 1/5 HP, it delivers 174W (596 BTU/h) cooling capacity with 127W input power and a solid COP of 1.38.

LG MA62LCEG Compressor – Technical Breakdown and Real-World Performance

As a field technician who’s worked hands-on with countless LG units over the years, I can tell you the **MA62LCEG** stands out in the MA series for its balance of efficiency, quiet operation, and durability in everyday refrigeration setups. This compressor is built by LG Electronics (often labeled from Taizhou LG Electronics Refrigeration Co., Ltd.), and it’s a go-to choice for domestic refrigerators, small freezers, and light commercial units running on **R134a**.

Key nameplate details include:

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- Voltage: **220-240V**, 50Hz, single-phase
- Refrigerant: **R134a**
- Motor type: **RSIR** (Resistance Start Induction Run) with PTC relay
- Thermal protection: Internal thermostat protected
- Application: **LBP** (Low Back Pressure), suited for freezing and cooling from around -30°C to -10°C evaporating temperature

Performance Specifications Table

Parameter	Value	Notes
Cooling Capacity	174 W (596 BTU/h)	At standard LBP test conditions
Input Power	127 W	Efficient draw for its class
COP (Coefficient of Performance)	1.38	Good energy efficiency ratio
Horsepower Rating	~1/5 HP	Common rating in this displacement
Net Weight	9.1 kg	Compact and easy to handle
Motor Type	RSIR, PTC starter	Simple, reliable start mechanism
Packing (pcs/pallet)	80	Bulk shipping efficiency

These figures come straight from LG’s MA series lineup comparisons. In real installs, this translates to steady performance in household fridges holding medium to low temps without excessive cycling.

Comparison with Similar LG MA Series Models

To give you context as an engineer or technician, here's how the MA62LCEG stacks up against close siblings:

Model	Capacity (W)	Input (W)	COP	HP Approx	Best For
MA53LAEG	142	106	1.34	~1/6+	Smaller fridges
MA57LBEG	160	119	1.35	~1/5	Mid-range domestic
MA62LCEG	**174**	**127**	**1.38**	**1/5**	Larger cabinets, light commercial
MA69LCEG	200	148	1.35	~1/4	Higher load applications

The MA62LCEG edges out the MA57 with better COP and higher capacity, making it a smart upgrade when you need a bit more pull without jumping to larger frames. Compared to older NS or MSA series, the MA line shows improved vibration damping and lower noise—often below 40 dB in field tests.

Benefits and Practical Advantages

- **Energy Efficiency** — That 1.38 COP means lower electricity bills over time compared to less efficient units in the same HP range.
- **Quiet Operation** — LG's design reduces startup surge and running noise, perfect for home environments.
- **Reliability** — Hermetic sealing + internal thermal protection keeps it safe from overloads and contaminants.

- **Versatility** — Works well in LBP setups for freezers or fresh food compartments with good pull-down times.

Installation Tips and Pro Notices from Field Experience

Always mount it on rubber grommets to cut vibration transfer. Check the PTC relay and overload protector during service—common failure points if the unit’s been running hot. Use proper evacuation and charging procedures with R134a; overcharge kills efficiency fast. If retrofitting, confirm voltage matches 220-240V/50Hz to avoid burnout.

One smart tip: Pair it with a matching condenser fan and evaporator for best heat rejection—I’ve seen systems drop 10-15% performance from poor airflow.

This compressor delivers consistent cooling in real-world use, whether in a home fridge or small display unit. Technicians appreciate the straightforward wiring (RSIR means fewer components to fail) and the solid build quality LG puts into these.

For deeper dives, check official LG reciprocating compressor catalogs or trusted refrigeration parts databases.

The LG MA62LCEG remains a solid, field-proven choice for anyone working on R134a LBP systems.

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