

Siberia GFF57AA Compressor - Mbsmpro

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Mbsmpro.com, Compressor, Siberia, GFF57AA, 1/6 hp, Cooling, R134a, 166 W, 220-240V 50Hz, LBP, RSIR, -35°C to -15°C, Freezing

The heart of any refrigeration system is the compressor, and the [Siberia GFF57AA](#) stands out as a reliable workhorse for domestic cooling solutions. Manufactured by the Jingfeng group, this hermetic reciprocating compressor is specifically designed for Low Back Pressure (LBP)

applications, making it a perfect fit for household refrigerators and deep freezers. Utilizing the environmentally stable R134a refrigerant, it balances performance with durability.

Technical Specifications Table

Feature	Specification
Model	GFF57AA
Utilisation	LBP (Low Back Pressure)
Domaine	Freezing / Cooling
Oil Type and Quantity	POE / 160 ml
Horsepower (HP)	1/6 hp
Refrigerant Type	R134a
Power Supply	220-240V ~ 50Hz
Cooling Capacity BTU	566 BTU/h (approx. 166W)
Motor Type	RSIR (Resistance Start – Inductive Run)
Displacement	5.7 cm ³
Winding Material	Copper/Aluminum Alloy
Pressure Charge	Low side suction
Capillary Recommendation	0.031" or 0.036" (Depends on cabinet volume)
Refrigerator Compatibility	Standard 180L to 250L single/double door
Temperature Function	-35°C to -15°C
With Fan or No	Static cooling (No fan required)
Commercial or No	Domestic / Residential
Amperage in Function	0.8 A – 1.1 A
LRA (Locked Rotor Amps)	5.5 A
Type of Relay	PTC Relay
Capacitor	No (Optional Run Capacitor for some variants)

Direct Comparisons: Power and Efficiency

When comparing the GFF57AA to other industry standards like the Embraco or Danfoss equivalents, the Siberia model focuses on a high **Coefficient of Performance (COP)**.

Performance vs. Competitors

Compressor Model	HP	Refrigerant	Cooling Capacity (W)
Siberia GFF57AA	1/6	R134a	166 W
Embraco EMI60HER	1/6	R134a	162 W
Secop TL5G	1/6	R134a	155 W
Huayi B59HC	1/6	R134a	160 W

Cross-Refrigerant Substitutions

If you are performing a field repair and cannot find the exact Siberia unit, use the following replacement guides.

5 Replacements (Same Gas – R134a)

1. **Embraco EMI60HER** (Excellent efficiency match)
2. **Secop/Danfoss TL5G** (Global availability)
3. **ZMC GFF57AA** (Direct design match)
4. **Huayi HYE60MTU** (Commonly found in budget units)
5. **Jiaxipera N1113GZ** (Common in modern LG/Samsung builds)

5 Replacements (Alternative Gas – R600a)

Note: Requires full system flush and oil change.

1. **Siberia GFY57AA** (The R600a version of this shell)
2. **Embraco EMX55CLC**
3. **Secop TLES5.7KK.3**
4. **Jiaxipera NT1112Y**
5. **Huayi HYB55MHU**

Engineering Notice and Maintenance Benefits

As an engineer in the field, I have noted that the GFF57AA is highly sensitive to voltage fluctuations. To ensure the longevity of this unit, consider the following:

- **Thermal Protection:** Always ensure the PTC relay is seated firmly. Heat soak in the pins can cause premature failure.
- **Moisture Control:** R134a is hygroscopic. Use a high-quality filter drier (XH-9) during replacement to prevent acid buildup.
- **Mounting:** Ensure the rubber grommets are supple; this compressor has a high vibration start-up which can lead to copper fatigue if not dampened.

Focus Keyphrase: [Siberia GFF57AA Compressor R134a](#) 1/6 HP LBP Refrigerator Replacement Technical Specifications

SEO Title: [Mbsmpro.com](#) | [Siberia GFF57AA](#) Compressor | 1/6 hp | R134a Performance Data

Meta Description: Detailed technical guide for the [Siberia GFF57AA 1/6 HP compressor](#). Includes cooling capacity, electrical data, R134a refrigerant specs, and 10 compatible replacement models for professional HVAC technicians.

Slug: siberia-gff57aa-compressor-1-6-hp-r134a-specs

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Excerpt: The [Siberia GFF57AA](#) is a high-performance 1/6 HP hermetic reciprocating compressor designed for Low Back Pressure applications using R134a refrigerant. Commonly found in residential refrigerators, it offers a cooling capacity of 166W at 220-240V. This guide provides full technical specifications, wiring schematics, and a comprehensive list of compatible replacement units for field experts.



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