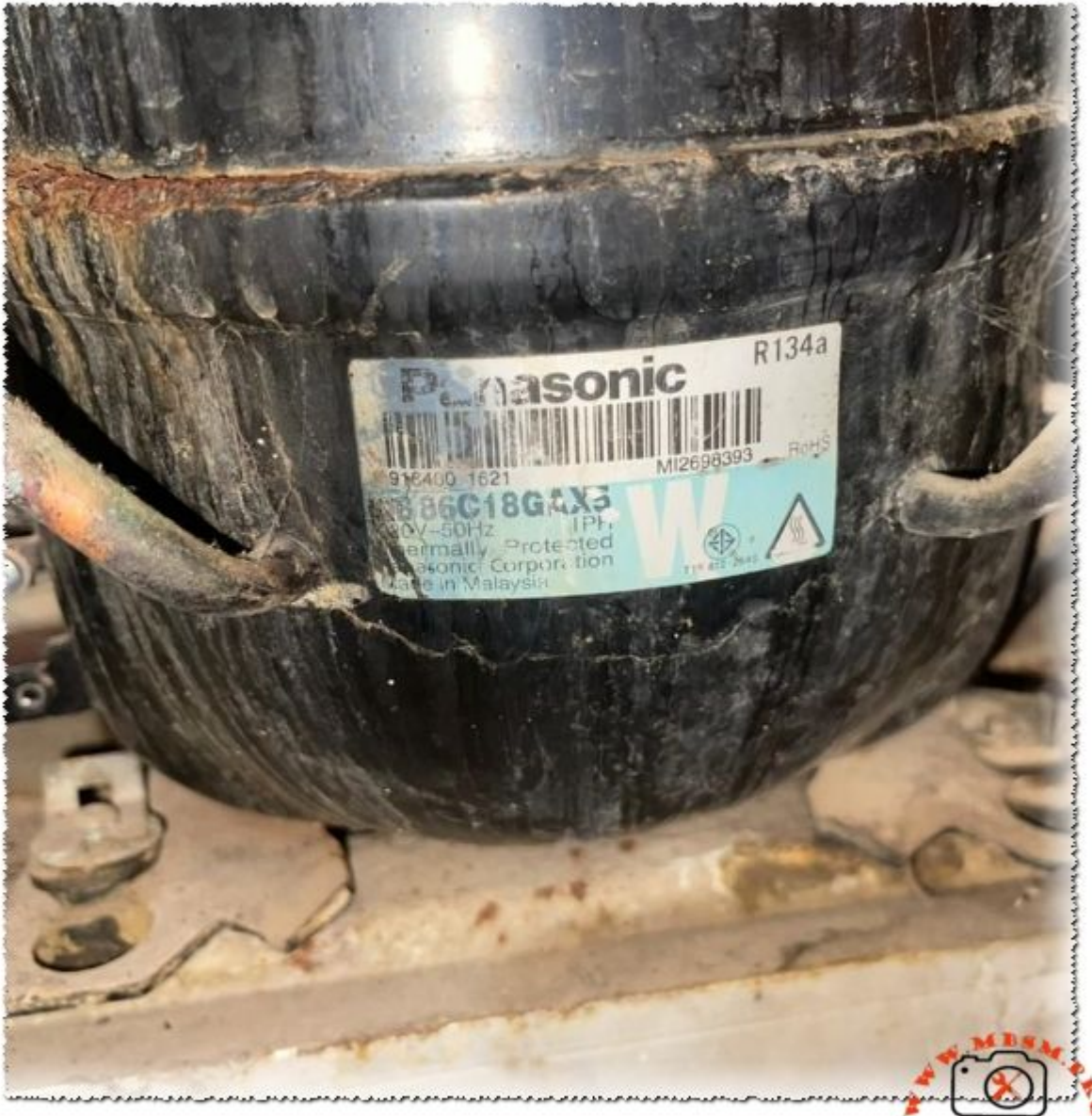


Panasonic QB86C18GAX5: The Reliable Powerhouse of Tropical Refrigeration

Category: Refrigeration

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Mbsmpro.com, Compressor, QB86C18GAX5, 1/4 hp, Panasonic, Cooling, R134a, 201 W, 1Ph, 220-240V 50Hz, LBP, RSIR, -35°C to -15°C, Freezing

Technical Specifications Table

| Feature | Details |
|------------------------------|--------------------------|
| Model | QB86C18GAX5 |
| Utilisation | LBP (Low Back Pressure) |
| Domaine | Freezing / Deep Cooling |
| Oil Type and Quantity | Ester Oil (POE) / 230 ml |

| Feature | Details |
|---------------------------------|---|
| Horsepower (HP) | 1/4 HP |
| Refrigerant Type | R134a |
| Power Supply | 220-240V / 50Hz / 1PH |
| Cooling Capacity BTU | 686 BTU/h (approx. 201W) |
| Motor Type | RSIR (Resistance Start – Induction Run) |
| Displacement | 8.6 cm ³ |
| Winding Material | Copper |
| Pressure Charge | 0.4 to 1.1 Bar (Suction Side) |
| Capillary Recommendation | 0.036" / 0.042" (Dependent on cabinet size) |
| Refrigerator Models | Large domestic side-by-side, Chest Freezers, Display Chillers |
| Temperature Function | -35°C to -15°C |
| Fan Requirement | Optional (Static cooling usually sufficient) |
| Commercial Use | Light Commercial / Domestic High-Capacity |
| Amperage (RLA) | 1.1A – 1.3A |
| LRA (Locked Rotor Amps) | 8.0A |
| Type of Relay | PTC Relay |
| Capacitor | N/A (Standard RSIR) |

Compressor Cross-Reference (Same Gas – R134a)

1. **Embraco:** EGAS80HLR / FFI8.5HAK
2. **Danfoss/Secop:** TLES8.7F / NLE8.8FT
3. **LG:** MA88LAEP
4. **Tecumseh:** THG1374YS
5. **Samsung:** SK182H-L2U

Compressor Cross-Reference (Alternative Gas – R600a)

1. **Panasonic:** QB86C18GAX5 (R134a specific, use **QB91** series for R600a equivalent)
2. **Embraco:** EM2X1121U
3. **Secop:** NLE11KK
4. **Jiaxipera:** NT1114Y
5. **Donper:** LU111CY

Panasonic QB86C18GAX5: The Reliable Powerhouse of Tropical Refrigeration

In the demanding world of refrigeration, the Panasonic QB series has established itself as a benchmark for durability and thermal resilience. The QB86C18GAX5, a 1/4 HP unit, is a staple in high-capacity domestic refrigerators and light commercial freezers. Designed to operate under Low Back Pressure (LBP) conditions, this compressor is particularly favored in regions with high ambient

temperatures due to its superior heat dissipation and robust motor design.

Performance and Efficiency

With a displacement of 8.6cc, the QB86C18GAX5 strikes a perfect balance between power consumption and cooling velocity. It provides a cooling capacity of approximately 201 Watts (686 BTU/h), which is the sweet spot for large family refrigerators or chest freezers. The RSIR (Resistance Start – Induction Run) motor ensures a simple electrical setup, reducing the points of failure compared to systems requiring complex start/run capacitors.

Comparison: Panasonic vs. Embraco & Secop

While the **Embraco EGAS80HLR** is often cited as a direct competitor, the Panasonic QB86C18GAX5 often wins on mechanical silence. Panasonic's internal damping system is specifically engineered to reduce "knocking" sounds during the start-stop cycle. Compared to the **Secop TLES8.7F**, the Panasonic unit tends to handle voltage fluctuations slightly better, a critical factor for field technicians working in areas with unstable power grids.

Professional Installation & Maintenance Tips

- **Oil Sensitivity:** This compressor uses POE (Ester) oil. This oil is extremely hygroscopic (absorbs moisture quickly). Never leave the compressor open to the atmosphere for more than 10 minutes during installation.
- **Vacuuming Protocol:** A deep vacuum is non-negotiable. Moisture mixed with POE oil creates acid that will etch the copper windings and lead to a "grounded" compressor.
- **Filter Drier Replacement:** Always use a high-quality 20g or 30g drier. Given the 1/4 HP power, a larger drier ensures a cleaner system for a longer lifespan.

Focus Keyword: Panasonic QB86C18GAX5 Compressor 1/4 HP R134a Specs

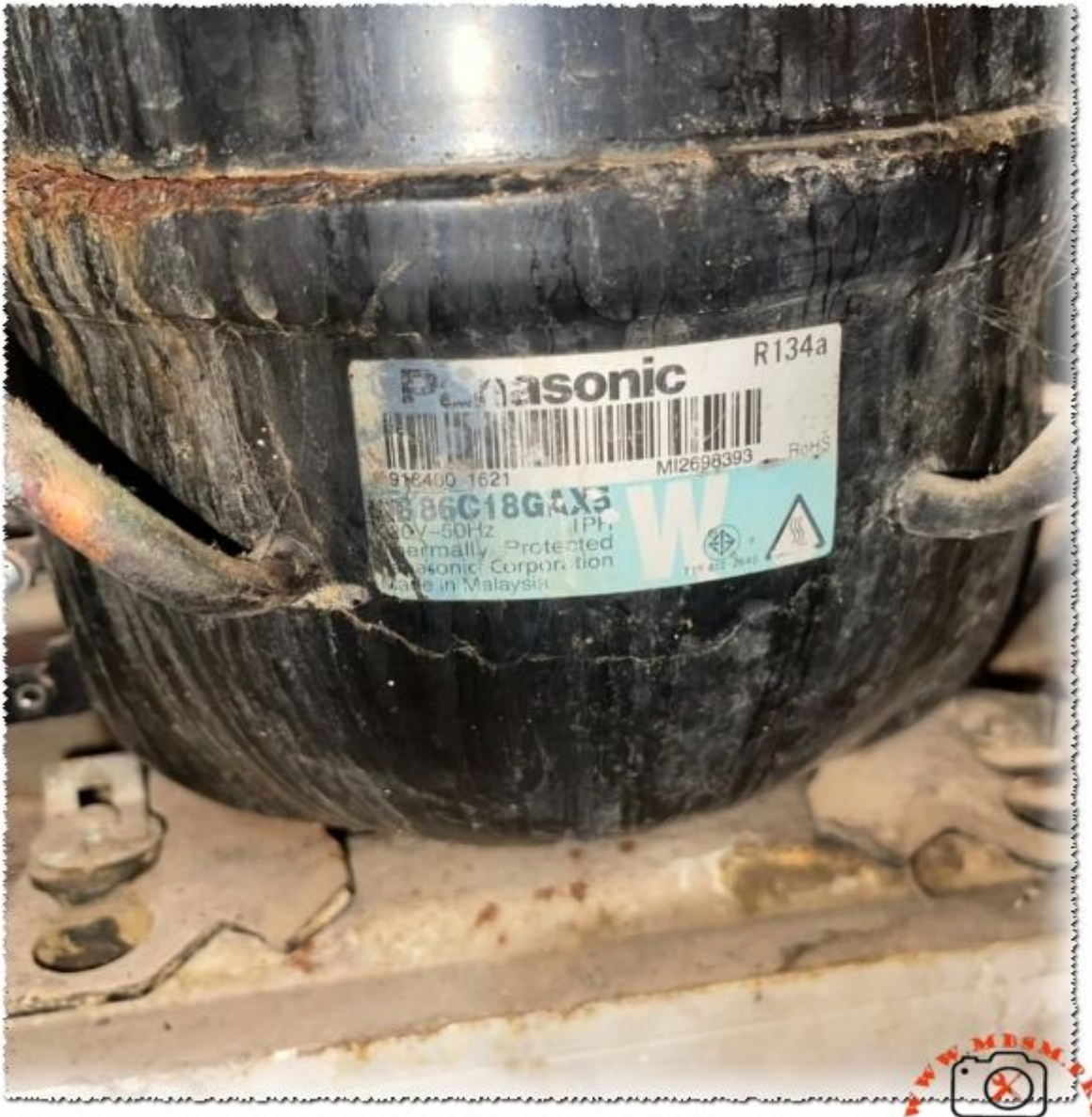
SEO Title: Mbsm.pro – Panasonic QB86C18GAX5 Compressor: 1/4 HP, R134a, Technical Data

Meta Description: Full technical review of the Panasonic QB86C18GAX5 compressor. 1/4 HP, R134a, 201W cooling capacity. Ideal for domestic refrigerators and freezers. Find equivalents and installation tips.

Slug: panasonic-qb86c18gax5-compressor-1-4hp-r134a-specifications

Tags: Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Panasonic, QB86C18GAX5, 1/4 HP, R134a, LBP, EGAS80HLR, FFI8.5HAK, TLES8.7F, MA88LAEP, THG1374YS, SK182H-L2U, Refrigeration Repair, Compressor Replacement.

Excerpt: The Panasonic QB86C18GAX5 is a 1/4 HP reciprocating compressor engineered for high-efficiency Low Back Pressure (LBP) applications. Using R134a refrigerant and a displacement of 8.6cc, it delivers a cooling capacity of 201W. This guide provides technicians with essential technical data, including amperage, displacement, and a comprehensive cross-reference list for modern repairs.



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