

Panasonic QB66C13GAX5 Compressor Specs and Replacements

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R134a, refrigerant, compressor QB66C13GAX5, 220V 50Hz, LBP,
1/5 hp

Description

Mbsm.pro: Compressor, Panasonic, QB66C13GAX5, 1/5 HP, 1Ph, 220-240V 50Hz, R134a, LBP, Refrigeration & Freezing

Technical Specifications Table

Feature	Details
Model	QB66C13GAX5
Manufacturer	Panasonic (Matsushita Electric Industrial Co., Ltd.)
Manufactured by	Panasonic Refrigeration Devices Malaysia Sdn. Bhd.
Origin	Malaysia
Utilisation	LBP (Low Back Pressure)
Domaine	Domestic Refrigerators / Freezers
Cooling Wattage at - 23.3°C	165 W (ASHRAE)
Power Consumption	142 W
Cubic Feet Capacity	8 to 12 cu. ft. (Depending on insulation)
Litres Capacity	200 to 250 Liters (Freezer capacity ~64L)
Kcal/h	142 Kcal/h
TON	~0.047 Tons
Oil Type and Quantity	Mineral Oil or POE, 280-320 ml
Horsepower (HP)	1/5 HP (0.20 HP)
Refrigerant Type	R134a

Feature	Details
Power Supply	220-240V / 50Hz / 1Ph
Cooling Capacity BTU	563 BTU/h
Motor Type	RSIR (Resistance Start Induction Run)
Displacement	6.6 cm ³
Winding Material	Copper
Pression Charge	8-12 Bar (High Side)
Capillary	0.028" or 0.031" (Length varies by application)
Recommendation	
Compatible Appliances	Domestic refrigerators, small freezers, beverage coolers
Temperature Function	-35°C to -5°C
With Fan or No	Yes (Fan cooling required for compressor)
Commercial or No	Domestic Grade
Amperage (FLA)	1.1 A
LRA (Locked Rotor Amps)	5.5-6.5 A
Type of Relay	PTC Relay
COP	1.16-1.23 W/W
Evaporating Temperature	-23.3°C
Condensing Temperature	54.4°C
Thermal Protection	Yes (Internal Thermal Protector)

Feature	Details
Net Weight	6.5-7.5 kg

Efficiency Metrics (COP) Table

Performance varies based on operating conditions. Here is how the QB66C13GAX5 performs across the temperature spectrum:

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-25	145	138	1.05
-20	185	148	1.25
-15	230	158	1.46
-10	280	168	1.67
-5	335	178	1.88
0	395	188	2.10
5	460	198	2.32

Replacement Models

Brand	Model Number
Panasonic	QB66C13GAX5, QB66C13GPX5
Matsushita	QB66C13GAX5
Panasonic	QB66 series variants

5 Replacements (Same R134a Gas)

1. **Embraco NEK6196Z** (Strong alternative, 1/5 HP, 6.5cc)
2. **Tecumseh TH261MS** (Classic reliable swap, 1/5 HP)
3. **Danfoss SC10G** (Similar capacity, 10cc displacement)
4. **Cubigel GL80AA** (Excellent domestic equivalent, 7.8cc)
5. **Huayi HYE11YG** (Budget-friendly alternative, 1/6 HP)

5 Replacements (Other Gas - R600a/R404A)

Note: Requires complete system flush and expansion valve/capillary adjustment.

1. **Embraco EGU80HLP** (R600a - Isobutane, very efficient, 1/6 HP)
2. **Danfoss SC10CNX** (R290 - Propane, high efficiency)
3. **Tecumseh CAJ9480Z** (R404A - Higher capacity)
4. **Secop NL9FK** (R600a compatible variant)
5. **Cubigel HM80AA** (R600a - Energy efficient)

Key Features

- Thermally protected compressor www.mbsm.pro
 - Designed for Low Back Pressure (LBP) applications okmarts.com
 - Suitable for domestic refrigerators up to 250L capacity
www.mbsm.pro
 - RSIR motor type with PTC relay starting okmarts.com
 - Evaporating temperature range: -35°C to -5°C www.aspneumatic.com
 - Manufactured in Malaysia with Panasonic quality standards
 - Energy efficient with COP of 1.19-1.23 www.scribd.com
 - Low noise and vibration operation
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Focus Keyphrase: Panasonic QB66C13GAX5 Compressor Specs and Replacements

SEO Title: Mbsm.pro – Panasonic QB66C13GAX5 Compressor: 1/5 HP R134a Technical Guide

Meta Description: Looking for QB66C13GAX5 specs? We break down this 1/5 HP R134a Panasonic compressor including cooling capacity (165W), wiring, oil type, and the top replacement models for domestic refrigeration.

Slug: panasonic-qb66c13gax5-compressor-1-5-hp-r134a-specs

Tags: Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Panasonic, QB66C13GAX5, QB66, Matsushita, R134a, 1/5 HP, LBP, Low Back Pressure, NEK6196Z, TH261MS, SC10G, GL80AA, Compressor Replacement, HVAC, Refrigeration Repair, Domestic Refrigerator, Malaysia

Excerpt: The Panasonic QB66C13GAX5 is a reliable 1/5 HP compressor designed for R134a LBP systems, commonly found in domestic refrigerators and freezers up to 250L capacity. This guide provides the full technical data sheet, including cooling capacity (165W at ASHRAE), oil requirements (280-320ml), and a comprehensive list of compatible replacements for both R134a and modern alternative refrigerants to ensure your repair is successful.



1/5 hp, Compressor Replacement, Domestic Refrigerator, GL80AA, HVAC, LBP, low back pressure, Matsushita, mbsm, mbsm.pro, mbsmgroup, mbsmpro.com, NEK6196Z, Panasonic, QB66, QB66C13GAX5, R134a, Refrigeration Repair, SC10G, TH261MS

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