Compressor, Embraco, PW 5.5 K11W, 1/6 hp

Site: Mbsmpro

Date: January 5, 2026 | **Author:** www.mbsmpro.com

URL: https://mbsmpro.com/compressor-embraco-pw-5-5-k11w-1-6-hp/

Mbsm.pro, Compressor, Embraco, PW 5.5 K11W, 1/6 hp, LBP, R12, 1Ph, 220-240V 50/60Hz, 133 W, Made in Brazil

The **Embraco PW 5.5 K11W** stands as a testament to the enduring engineering of the Brazilian manufacturing era. Designed as a Low Back Pressure (LBP) hermetic reciprocating compressor, this model has long been a staple in domestic refrigeration systems, specifically those engineered for the **R12 refrigerant** cycle. While the industry has shifted toward R134a and R600a, the PW series remains a critical component for technicians maintaining vintage systems or specific industrial cooling setups that require high-torque reliability in a compact frame.

Technical Specifications and Performance

The PW 5.5 K11W is characterized by its robust electrical profile, capable of operating across both 50Hz and 60Hz frequencies. This versatility makes it unique compared to many modern compressors that are locked into a single frequency. With a displacement that typically aligns with **1/6 horsepower (HP)** performance, it provides a cooling capacity of approximately **133 Watts (454 Btu/h)** under standard ASHRAE conditions.

Feature	Specification Details
Model	Embraco PW 5.5 K11W
Refrigerant	R12
Horsepower	1/6 HP
Voltage/Frequency	220-240V / 50/60Hz
Cooling Capacity	133 W (at -23.3°C)
Application	LBP (Low Back Pressure)
Locked Rotor Amps (LRA)	11.5 / 10.4 A

Feature	Specification Details
Motor Type	RSIR (Resistive Start – Induction Run)
Origin	Joinville – SC, Made in Brazil

Operational Comparisons: PW 5.5 vs. Modern Alternatives

When comparing the **Embraco PW 5.5 K11W** to modern equivalents like the **EMR 40HLR** or the **ZMC GM70AZ**, we see a significant evolution in energy efficiency. However, the PW series is often preferred by specialists for its thermal protection resilience. The internal “Thermally Protected” mechanism in the PW 5.5 is designed to handle the higher heat loads associated with older R12 systems without premature failure.

Compressor Model	Power (HP)	Refrigerant	Cooling Type	Cooling Cap (W)
Embraco PW 5.5 K11W	1/6	R12	LBP	133
Embraco EMT45HDR	1/6	R134a	HBP/LBP	155
Danfoss PL35F	1/10	R134a	LBP	85
Tecumseh THB1340YS	1/8	R134a	LBP	105

The Role of the PW 5.5 in Maintenance and Retrofitting

Finding a direct replacement for an R12 compressor requires attention to displacement and oil type. The PW 5.5 K11W utilizes **Mineral Oil**, which is compatible with CFC refrigerants. If a technician is attempting to retrofit a system using this compressor to R134a, a complete oil flush and replacement with POE (Polyolester) oil are mandatory. However, for those seeking to maintain original system integrity, the PW 5.5 remains the gold standard for 1/6 HP LBP requirements.

Troubleshooting and Electrical Data

The **LRA (Locked Rotor Amps)** values of 11.5 and 10.4 are critical for identifying starting issues. If the compressor hums but fails to start, checking the starting relay and capacitor (if applicable) is the first step. Because this is an RSIR motor, it relies on a high-resistance start winding to initiate rotation, making it sensitive to voltage drops in the power supply.

SEO Metadata

- **Focus Keyphrase:** Embraco PW 5.5 K11W Compressor
- **SEO Title:** Embraco PW 5.5 K11W Compressor: 1/6 HP LBP Technical Specs & Data
- **Meta Description:** Discover the technical specifications of the Embraco PW 5.5 K11W compressor. 1/6 HP, R12 refrigerant, 220V 50/60Hz. Perfect for LBP cooling and refrigeration repairs.
- **Slug:** embraco-pw-5-5-k11w-compressor-specs
- **Tags:** Embraco, PW 5.5 K11W, 1/6 HP, R12, LBP Compressor, Refrigeration, Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Compressor Brazil, HVAC Parts.

- **Excerpt:** The Embraco PW 5.5 K11W is a 1/6 HP Low Back Pressure (LBP) compressor designed for R12 refrigeration systems. Known for its reliability and dual-frequency 50/60Hz operation, this Brazilian-made unit delivers 133W of cooling capacity. Explore our deep dive into its electrical specifications, performance tables, and comparison with modern HVAC cooling alternatives.

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