

WPMR91S, the refrigerator requires exactly 13 grams of R600a refrigerant.

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Based on the data provided in the nameplate, the refrigerator requires exactly **13 grams** of [R600a](#) refrigerant.

Technical Specification Table

Feature	Details
Model	White Point WPMR91S
Utilization	LBP (Low Back Pressure)
Domaine	Cooling (Mini-Bar / Domestic Refrigerator)
Oil Type and Quantity	Mineral or Ester Oil (approx. 160ml)
Horsepower (HP)	1/12 HP
Refrigerant Type	R600a (Isobutane)
Power Supply	220-240V / 50Hz
Cooling Capacity BTU	Approx. 310 BTU/h
Motor Type	RSIR (Resistance Start – Induction Run)
Displacement	4.0 cm ³ to 4.5 cm ³
Winding Material	Copper
Pression Charge	0.5 to 1 PSI (Low side running)
Capillary	0.026 ID
Compatible Models	Compact refrigerators, Under-counter coolers
Temperature Function	+5°C to -18°C (Internal)
With Fan or No	No (Static Cooling)
Commercial or No	No (Domestic)
Amperage in Function	0.50 A
LRA	2.6 A
Type of Relay	PTC Relay
Capacitor	No (Standard RSIR)

Compressor Replacements

5 Replacements (Same Gas – [R600a](#)):

- Jiaxipera T1110Y
- Danfoss/Secop TLES4KK.3
- Embraco EMX20CLC
- Huayi B43H

- **Wanbao ASD43Y**

5 Replacements (Other Gas – R134a – Requires Flushing):

- **Embraco** EMI 30HER
- **Jiaxipera** ZBS1111cy
- **Danfoss** TLS3F
- **Donper** S43CZ
- **Cubigel** GL45AA

Mbsmpro.com, White Point, WPMR91S, Refrigerator, 1/12 hp, R600a, 13g, 0.50 A, 220-240V 50Hz, LBP, Made in Turkey

The [White Point WPMR91S](#) represents the modern standard for compact, energy-efficient refrigeration. Manufactured in Turkey, this unit is specifically designed for domestic cooling applications, utilizing the thermodynamic advantages of [R600a \(Isobutane\)](#). Unlike older systems that used heavy refrigerant loads, this high-efficiency cycle operates with a precision charge of only **13 grams**.

Thermodynamics and Efficiency

The [WPMR91S](#) is built around a Low Back Pressure (LBP) cycle. With a rated current of **0.50 Amperes**, the electrical footprint is remarkably low. The integration of [R600a](#) allows the compressor to operate at lower pressures compared to R134a, which reduces mechanical wear on the piston and valves, extending the lifespan of the motor.

Engineering Comparison: R600a vs. R134a

Technical Parameter	WPMR91S (R600a)	Equivalent R134a Unit
Mass Charge	13g	~45g – 60g
Operating Pressure	Below Atmospheric (Vacuum)	Positive Pressure
COP (Efficiency)	Higher	Lower
Environmental Impact	GWP 3 (Eco-Friendly)	GWP 1430 (High Impact)

Professional Maintenance Notice

As an expert in the field, I must emphasize that when servicing the [WPMR91S](#), the **13g charge** is critical. Because the volume is so small, traditional manifold gauges can trap a significant percentage of the gas in the hoses.

- **Scale Precision:** Use a digital scale accurate to 1 gram.
- **Vacuum:** A deep vacuum is mandatory as [R600a](#) systems are highly sensitive to moisture and non-condensables.

- **Safety:** [R600a](#) is flammable. Ensure no open flames or sparks are present during the charging process.

Benefits for the End User

The primary benefit of this specific engineering setup is the **Isolation Degree IPX4**, which provides protection against moisture ingress, making it ideal for various climates. The use of a PTC relay instead of a mechanical start relay further reduces the “click” noise during startup, providing a quieter user experience.

Focus Keyphrase: [White Point WPMR91S](#) Refrigerator [R600a](#) 13g Compressor

SEO Title: [Mbsmpro.com](#) | [White Point WPMR91S](#) Specs | [R600a](#) 13g Refrigerator Guide

Meta Description: Full technical data for [White Point WPMR91S](#). Features 13g R600a refrigerant, 0.50A current, and 1/12 HP compressor details. Expert guide for replacement and repair.

Slug: white-point-[wpmr91s](#)-refrigerator-specs-r600a-13g

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Excerpt: The [White Point](#) WPMR91S is a high-efficiency 91-liter refrigerator utilizing a specialized 13-gram R600a refrigerant charge. Operating at 0.50A, this Turkish-made unit is designed for optimal LBP performance. This guide provides comprehensive technical specifications, compressor cross-references, and engineering insights for professional technicians and hobbyists looking for reliable maintenance data and replacement parts.



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