

# Unionaire G+ ITWG 022 R5 Air Conditioner Specifications, 21500 BTU Cooling Capacity, Technical Manual and Installation Guide

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February 9, 2026



9, Feb 2026

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**Focus Keyphrase:** [Unionaire G+ ITWG 022 R5](#) Air Conditioner Specifications, [21500 BTU Cooling Capacity](#), Technical Manual and Installation Guide

**SEO Title:** [Mbsmpro.com](#), [Unionaire](#), [G+ ITWG 022 R5](#), [21500 BTU](#)/Hr, 6.30 KW, 12.5 Kg, Indoor Unit, 220-240V 50Hz, [Split System](#)

**Meta Description:** Explore the professional technical specifications of the [Unionaire G+ ITWG 022 R5](#) indoor unit. Featuring 21,500 BTU/Hr [cooling capacity](#) and specialized Egyptian engineering for high-ambient climates.

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#### **Excerpt:**

The [Unionaire G+ ITWG 022 R5](#) represents a robust cooling solution engineered for demanding Mediterranean and Middle Eastern climates. Delivering a potent 21,500 BTU/Hr [cooling capacity](#), this Egyptian-manufactured indoor unit balances high-volume airflow with structural durability. Designed for 220-240V/50Hz systems, it features an IPX4 rating and a compact 12.5 kg chassis for versatile wall-mounted installation.

## [Mbsmpro.com](#), [Unionaire](#), [G+ ITWG 022 R5](#), [21,500 BTU/Hr](#), [6.30 KW](#), [High-Efficiency Indoor Unit](#), [Made in Egypt](#)

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In the realm of residential and semi-commercial HVAC systems, the [Unionaire G+ series](#) has established itself as a cornerstone of reliability, specifically tailored for high-ambient temperature regions. The [G+ ITWG 022 R5](#) indoor unit is a high-capacity component designed to provide rapid thermal exchange while maintaining a compact footprint. This article provides an engineering-grade breakdown of its performance metrics, electrical requirements, and installation nuances.

### **Technical Analysis of the [G+ ITWG 022 R5](#)**

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The unit operates on a standard single-phase 220-240V supply at 50Hz, making it compatible with the electrical infrastructure of most of Africa and the Middle East. With a cooling output of **21,500 BTU/Hr (equivalent to 6.30 KW)**, this model sits comfortably in the 2.5 HP to 3.0 HP category, capable of cooling large living spaces or office environments efficiently.

## Core Specifications Table

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Feature	Specification Details
<b>Brand</b>	<a href="#">Unionaire</a>
<b>Model Number</b>	<a href="#">G+ ITWG 022 R5</a>
<b>Cooling Capacity (BTU/Hr)</b>	21,500 BTU/Hr
<b>Cooling Capacity (KW)</b>	6.30 KW
<b>Electrical Power Supply</b>	220-240V / 1 Ph / 50 Hz
<b>Net Weight</b>	12.5 Kg (Indoor Unit Only)
<b>Ingress Protection Rating</b>	IPX4 (Splash proof)
<b>Country of Origin</b>	Made in Egypt
<b>Series</b>	G+ (Ionizer/Plasma optimized series)

## Comparative Value Analysis

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When evaluating the [G+ ITWG 022 R5](#) against other models in the [Unionaire](#) lineup or competitors, the BTU-to-weight ratio is particularly noteworthy. At only 12.5 kg, the indoor unit is relatively lightweight for its cooling class, reducing stress on wall mounts while housing a large-diameter cross-flow fan for quiet operation.

## Performance Comparison: 1.5 HP vs. 2.5 HP vs. 3.0 HP

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Model Class	BTU Range	Suitable Area (Avg)	Cooling Speed
Unionaire 1.5 HP	12,000 BTU	12 – 15 m <sup>2</sup>	Standard
<b>G+ ITWG 022 R5 (2.5 HP)</b>	<b>21,500 BTU</b>	<b>22 – 30 m<sup>2</sup></b>	<b>High Velocity</b>
Unionaire 3.0 HP	24,000 – 28,000 BTU	30 – 40 m <sup>2</sup>	Ultra High

## Electrical Schematic and Wiring Overview

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The **G+ ITWG 022 R5** follows a standard control logic for split systems. For field technicians, understanding the terminal block configuration is essential for safe integration with the outdoor condenser.

- **Terminal L (Brown):** Main Power Phase.
- **Terminal N (Blue):** Neutral Return.
- **Terminal S (Signal/Communication):** Data line between indoor and outdoor units (vital for compressor cycling).
- **Terminal E (Yellow/Green):** Earth Grounding.

**Engineering Note:** Ensure that the communication cable is shielded or properly separated from high-voltage lines to prevent electromagnetic interference (EMI), which can lead to sensor errors or erratic fan speeds.

## Engineering Advice and Installation Notices

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- Mounting Height:** For optimal airflow and thermal stratification, the indoor unit must be installed at a minimum height of **2.3 meters** from the floor. This ensures that the cold air plume has sufficient distance to mix with room air before reaching occupants.
- IPX4 Compliance:** The IPX4 rating indicates protection against water splashes from any direction. However, this unit is strictly for indoor use. Avoid installation in high-humidity zones like laundry rooms without adequate ventilation.
- Condensate Management:** Given the 6.30 KW [cooling capacity](#), significant condensation will occur. Ensure the drain pipe has a minimum downward slope of 1:50 to prevent water backup and microbial growth in the pan.
- Air Filter Maintenance:** The G+ series often includes high-density filters. These should be inspected every 15 days in dusty environments to maintain the rated 21,500 BTU/Hr efficiency.

## Benefits of the G+ ITWG 022 R5 Model

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- Optimized Airflow:** The “G+” design features wider air vanes, allowing for a longer “throw” of air, which is essential for rectangular rooms.
- Tropicalized Design:** Specifically engineered to handle the high head pressures associated with Egyptian and Gulf climates.
- Serviceability:** As a widely distributed model, spare parts such as fan motors and PCB controllers are readily available throughout the region.



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