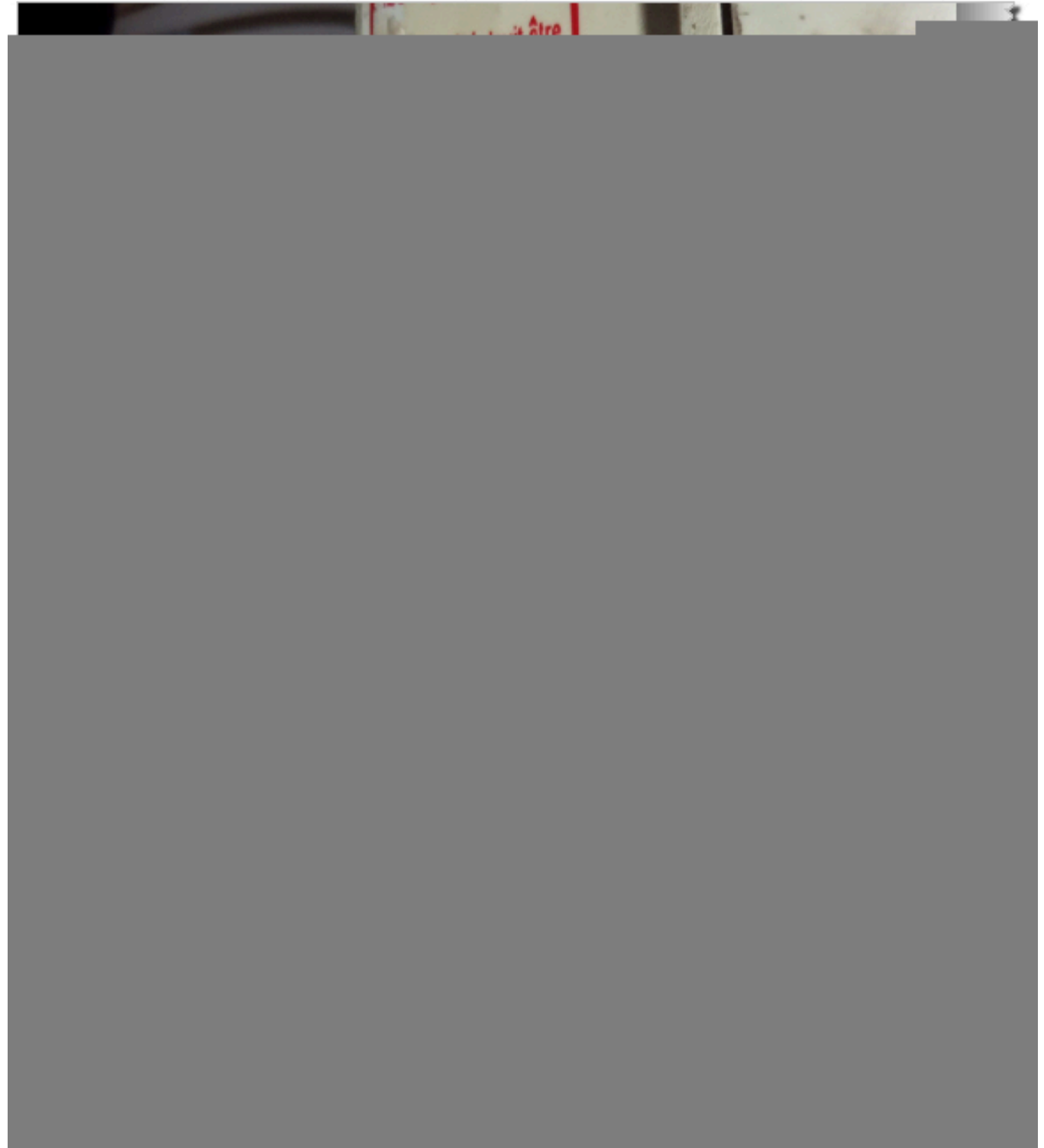


Unionaire G+ ITWG 022 R5 Air Conditioner Specifications, 21500 BTU Cooling Capacity, Technical Manual and Installation Guide

 [mbsmpro.com/unionaire-g-plus-itwg-022-r5-technical-specs](https://www.mbsmpro.com/unionaire-g-plus-itwg-022-r5-technical-specs)

www.mbsmpro.com

February 9, 2026



9, Feb 2026

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

and Installation Guide

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.

Slug: [unionaire-g-plus-itwg-022-r5-technical-specs](#)

Tags: [Unionaire](#), [G+ ITWG 022 R5](#), [Air Conditioning](#), [21500 BTU](#), [HVAC Egypt](#), [Cooling Capacity](#), [Split System](#), [Mbsmgroup](#), [Mbsm.pro](#), [mbsmpro.com](#), [mbsm](#)

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

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](#)

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

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

Comparative Value Analysis

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

Model Class	BTU Range	Suitable Area (Avg)	Cooling Speed
Unionaire 1.5 HP	12,000 BTU	12 – 15 m²	Standard
G+ ITWG 022 R5 (2.5 HP)	21,500 BTU	22 – 30 m²	High Velocity
Unionaire 3.0 HP	24,000 – 28,000 BTU	30 – 40 m²	Ultra High

Electrical Schematic and Wiring Overview

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.

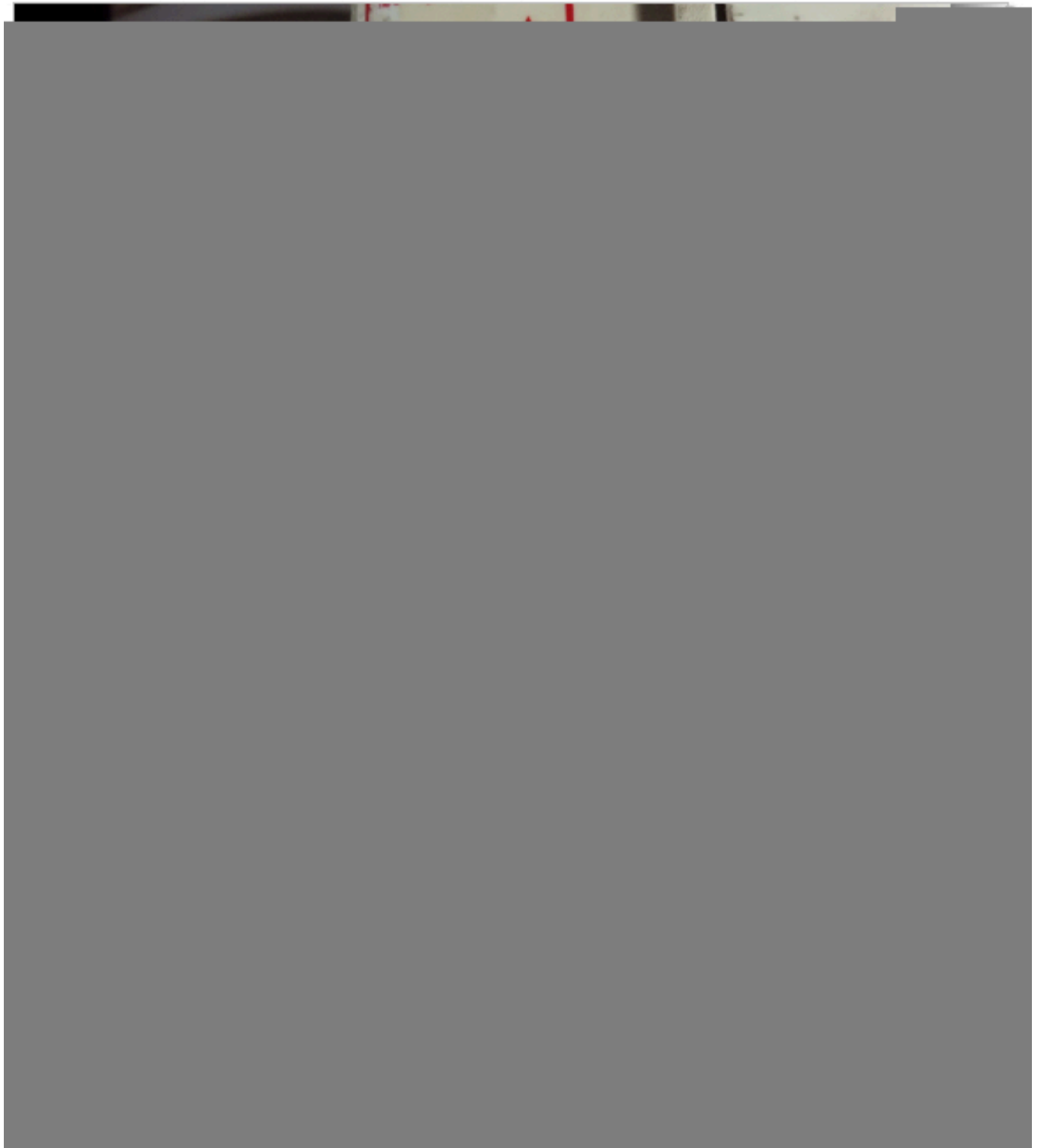
Engineering Note: Ensure that the communication cable is shielded or properly separated from high-voltage lines to prevent electromagnetic interference (EMI), which can lead to sensor errors or erratic fan speeds.

Engineering Advice and Installation Notices

1. **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.
2. **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.
3. **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.
4. **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

- **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.



 [Open Static HTML \(Offline Version\)](#)

Mbsmpro Google link tools

- [Google: this title](#)
- [Google: all site pages](#)
- [Google: domain mentions](#)
- [RSS Feed](#)
- [Sitemap](#)
- [Sitemap Html](#)
- [Html Page](#)

- [Upload Page](#)
- [Sitemap Media](#)

Tags: [21500 BTU](#), [2HP Compressor](#), [Air Conditioning](#), [cooling capacity](#), [Egypt HVAC](#), [G.+ITWG 022 R5](#), [G+ ITWG 022 R5](#), [GMCC PH330](#), [Highly BSA645DT](#), [HVAC Egypt](#), [mbsm](#), [mbsm.pro](#), [mbsmgroup](#), [mbsmpro.com](#), [Panasonic 2K32C225A](#), [R22](#), [Rotary Compressor](#), [Split System](#), [Trillionaire](#), [Unionaire](#)