

# SMART GREENHOUSE

*Precision-Grown, Fully Automated*



**Faster Growth Cycles**

**Customizable Crop Profiles**

**Real-Time Control & Monitoring**

**Fully Automated Climate Control**

**Eco-Friendly Hydroponic Farming**

## **Automated Irrigation & Fertilization**

Soil moisture sensors and environmental data drive precision water delivery. Nutrients are automatically mixed and delivered based on crop stage, weather, and soil conditions.



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## SMART GREENHOUSE

Our fully automated greenhouse integrates environment control and hydroponics-based irrigation for high-efficiency, sustainable farming. It is designed to maximize crop yield while minimizing resource consumption. The system integrates advanced automation, precision irrigation, and climate control to create the ideal growing environment. Our advanced system promotes optimal plant health, accelerates growth, and enables year-round production, making it a perfect fit for modern agriculture.



### BENEFITS of Smart GreenHouse

- ✓ Up to 3x Higher Yields
- ✓ 80% Less Water Usage
- ✓ Targeted Nutrient Delivery
- ✓ Zero Weather Dependency
- ✓ Faster Growth Cycles
- ✓ Lower Pest & Disease Pressure

## Salient Features

### Plantation System

Optimized for high-density planting to maximize space utilization. Supports a variety of hydroponic techniques, promoting quicker and healthier plant growth.

### Irrigation System

A precision-controlled water delivery system ensures optimal plant hydration, minimizing waste and supporting sustainable growth.

### Fertilization System

Intelligent water fertilizer machine is mainly used for mixing ratio of water-soluble fertilizer to realize demand based intelligent and scientific irrigation. It comes with pH /EC sensors for automatic water-soluble fertilization.



Water, nutrients, and ambient conditions are all optimized in this clever and ecological hydroponic farming method to guarantee high-yield, resource efficient and year-round crop production.

## Intelligent Control System

An intelligent AI-powered system that automatically improves performance, modifies settings, and tracks plant development.

- ✓ Maintains an ideal microclimate for plant growth.
- ✓ Prevents heat stress and improves plant respiration.
- ✓ Energy-efficient and automatic operation.
- ✓ Reduces operational costs and human intervention.
- ✓ Real-time data management and tracking for water, nutrients, and climate.



## ENVIRONMENT MONITORING EXPERTS

- Automatic Weather Stations
- Runway Visual Range (RVR)
- HydroMet Solutions
- Precision Agriculture
- Air Quality Monitoring
- Solar & Wind Resource Assessment
- Automated Weather Observing System
- Weather Surveillance Radars
- Early Warning Systems
- Calibration Services

### Visit Us

📍 **HQ:** Buraq Center, 11-D, 6th Road, Satellite Town, Rawalpindi, Pakistan.

📍 **STZ:** 1st Floor, Alpha-18, NASTP, Old Airport Road, Rawalpindi, Pakistan.



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 [info@buraq.com](mailto:info@buraq.com)