ARGUS®
CONTROLS

Control Systems for Floriculture

Why Argus?

GROWER-FOCUSED DESIGN

For the expert grower with complex operations, we customize a system so you can manage your facility exactly the way you want – not the way we tell you.

PLANT-CENTRIC TECHNOLOGY

Our technology is designed for harsh growing environments and uses proprietary control algorithms that automate growing processes and react to the needs of the plants - anticipating specific requirements, such as lighting, watering or feeding cycles.

SHOULDER-TO-SHOULDER SUPPORT

We're with you every step of the way. Shoulder-to-shoulder, we work with you to develop a solution that fits exactly what you need.

FUTURE-READY PLATFORM

For over 40 years, Argus has been at the leading edge of development of tools and applications for growers. Using cloud-technology, machine learning and artificial intelligence we are increasing the connectivity of systems and driving your productivity and profitability. We are your platform for the future.

Control everything.

- Heating
- Cooling
- Lighting
- H_2O
- Fertigation
- Humidity
- Airflow
- CO_2
- Other variables

Our growers are GROWING.

3,000+
SITES WITH ARGUS

12,000+
GROWERS

18,000+
CONTROLLED ZONES

It has just a different level of architecture in the manufacturing so that it's super durable under greenhouse conditions.

– Kube Pak

We utilize energy-efficient heaters, boilers, infrared poly, twin-wall polycarbonate, and an Argus environmental control computer system for our greenhouses to maximize efficiencies.

– CEO, Woodburn Nursery & Azaleas

Your service support is great! I also really appreciate the whole outlook your company has in working with growers.

– Green Valley Floral

When we needed to control many different climates, we chose Argus. Argus makes it simple to adjust settings and is always reliable.

– Westcan Greenhouses

EQUIPMENT OPTIMIZATION

- Monitored activity of devices: on/off cycles, total running times, maintenance reminders
- Monitored usage of energy and water relative to targets

CONSTANT CONTACT

- 24/7 alarm monitoring of all critical conditions with quick detection of any deviations
- Automatic voice and email alerts
- Multiple alarm conditions and custom intelligent alarm models
- Custom monitoring solutions

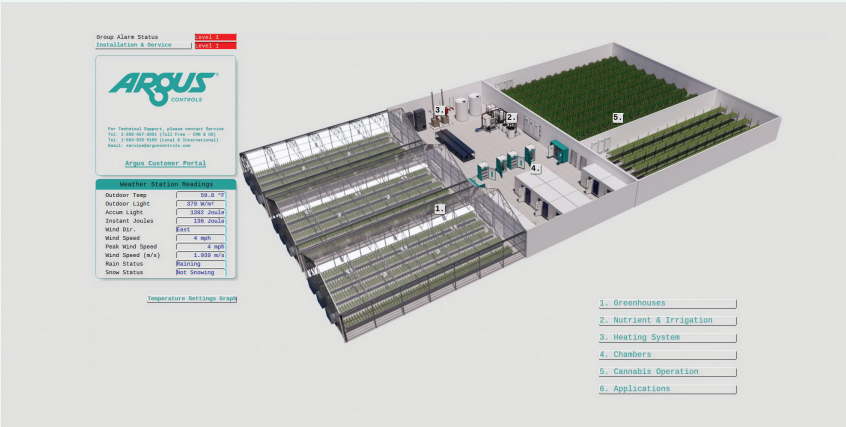## COMPREHENSIVE DATA ACQUISITION

- Extensive data logging and graphing capabilities
- Data channels can be recorded at high resolutions with prefiltering options
- Quickly review and analyze your data with integrated multi-overlay graphing tools

CONTROL & AUTOMATE

- Precision climate control
- Intelligent lighting control
- Tracking for system security and audits
- Advanced irrigation and fertigation
- Argus hardware and software has GMP approval
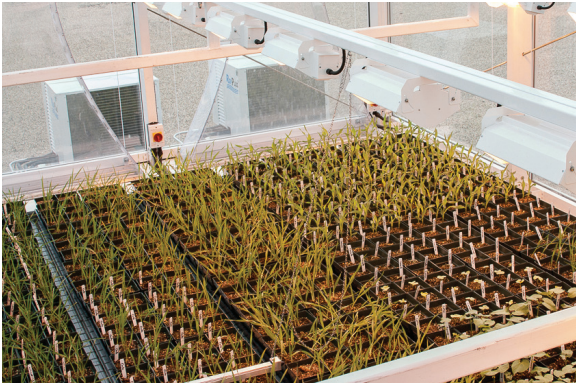
TITAN 900 SOFTWARE

The Titan 900 software offers an enhanced user experience with innovative visual controls and value added features - such as enhanced graphs, API, and smart reporting. The refreshed user interface uses colour and layout strategies that can be customized to suit individuals' need for style and information. Our software is designed to de-clutter the interface, optimize visualization of your facility's data, and focus your attention on what is important to you.
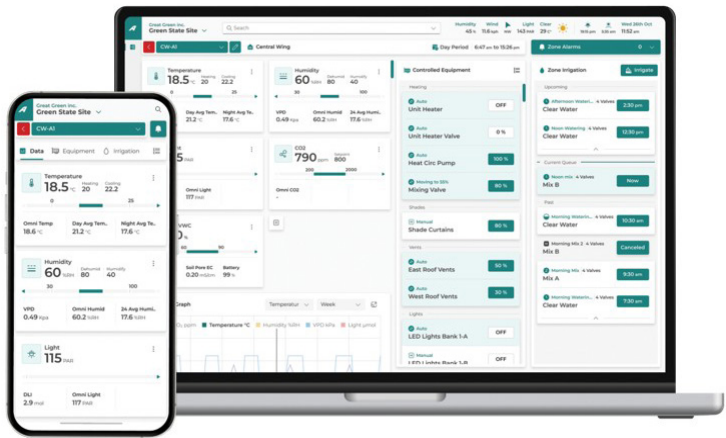

TITAN 900's fully customizable screens provide a detailed view of your facility

OPTIMAL LIGHTING

- Photoperiod start/end time settings can be absolute (time of day) or relative (tied to dawn or dusk)
- Cyclical lighting settings for energy efficient photoperiod control
- Time windowed supplementary light control
- Light sensor-based operation
- Light level and light duration proving times
- Light accumulation override features to reduce energy costs and extend lamp life
- Minimum cycle on times to prevent short cycling of lighting equipment
- Additional overrides, limits, and operating logic as required

Greenhouse lighting optimization

TITAN ENVOY

TITAN Envoy is an easy-to-use, cloud-based user interface for desktop and mobile access to your TITAN system. Ease your day with real-time monitoring and on-the-go access to the features of your TITAN system you use every day:

- Monitor your environment
- Schedule irrigation
- Activate equipment
- Respond to alarms

DAILY LIGHT INTEGRAL PROGRAM

- One of the many programs available on the Argus system
- Measures the Daily Light Integral (DLI) at the crop level
- Algorithmically predicts the available natural light as the basis for supplementary lighting control
- Delivers a standard DLI despite daily and seasonal weather variations
- Optimizes energy consumption and lamp usage

Target 35 DLI	35 DLI	Lights on 15 DLI
		20 DLI

The Argus DLI program supplements the exact amount of artificial light required

ARGUS LIVE

With a live view of your operation, you can monitor, analyze, and run your facility in real time, giving you full control whether you're at your desk or on the move. It is a safe, secure, and powerful enhancement to the most advanced environmental control system on the market.

SMART & INTERACTIVE DASHBOARD
Customize your Argus Live dashboard to ensure you can access the most essential information of your operation.

PERSONALIZED SETTINGS
Completely customize Argus Live to suit the needs of your operation, from personalizing the interface to controlling your facility's settings to keep your operation running smoothly.

CUSTOMIZABLE DISPLAY
Configure each section to prioritize the information you want to see and select how you want your data to be displayed through visual tools like graphs, tables, dials, and gauges.

Argus Live can be used on tablets, phones, and PC
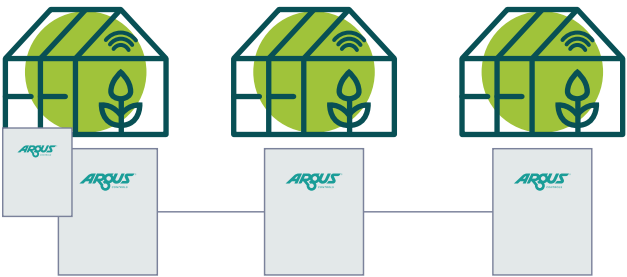
CUSTOM & PRECONFIGURED SOLUTIONS

TITAN provides a powerful, integrated controls platform for managing your entire horticultural facility.

Choose fully custom TITAN solution or TITAN Atom – a preconfigured solution to get you growing fast.
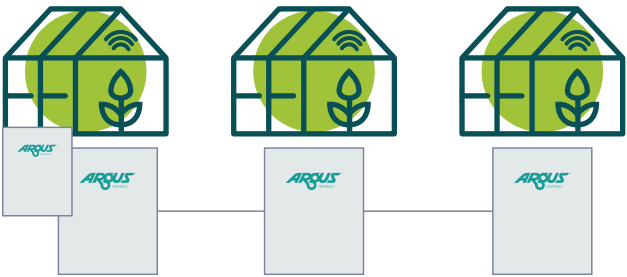
Simple solution gets you growing:

And is easily expandable in the future:

" TITAN Atom is ideal for growers that want an effective, out-of-the-box controls solution. "

Full Facility Control
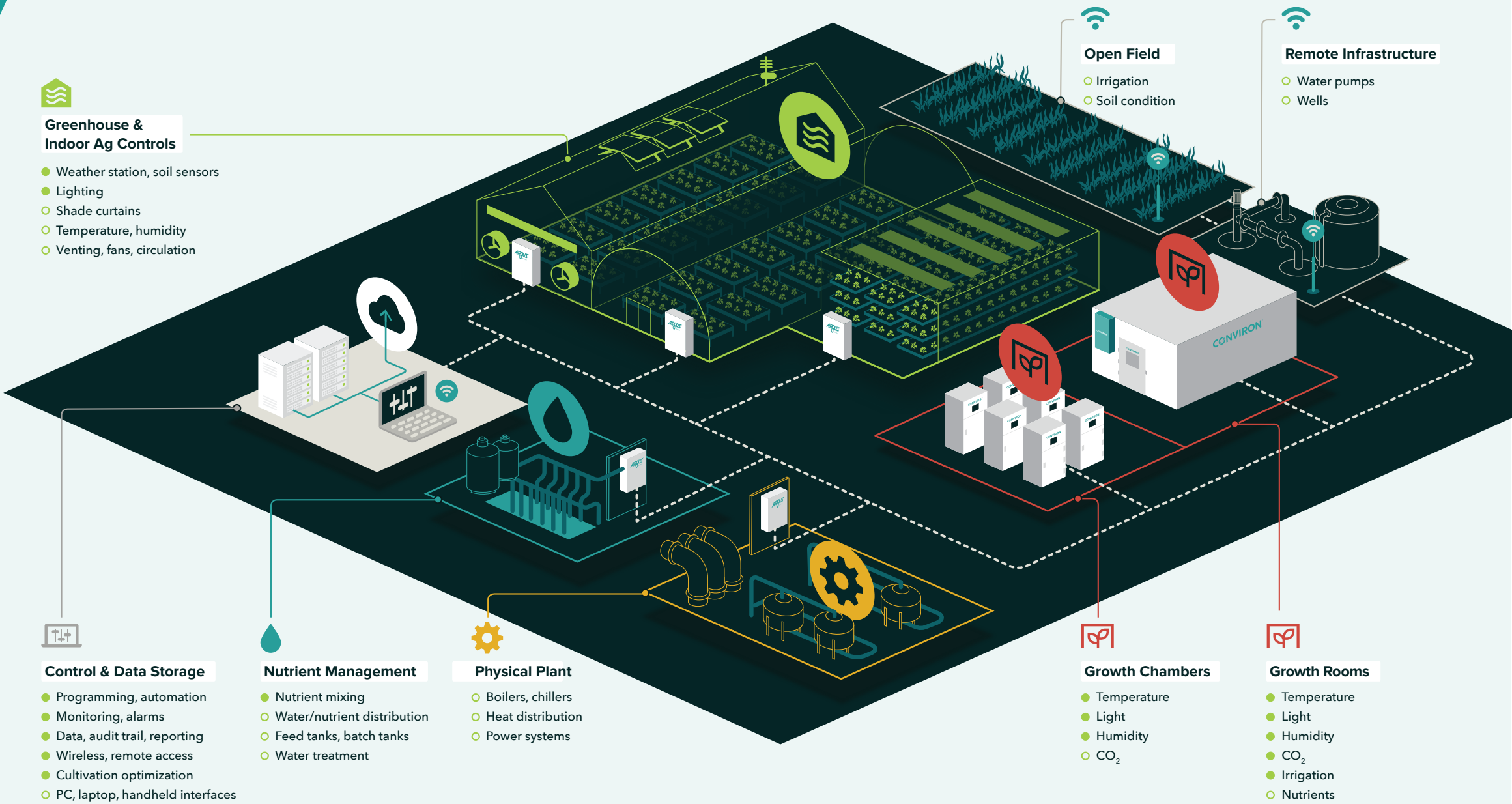
ARGUS® CONTROLS × CONVIRON®

Argus Controls' software and hardware provide a powerful, integrated solution for managing your entire horticultural facility – all from your central command center, networked PC, or mobile devices. Argus Controls can act as the main control system in your operation, fully integrate into your existing Building Management System and control/monitor your plant growth chambers or growth rooms.

Argus systems are widely used for facilities ranging in size from high-tech 'mom and pop' greenhouses to some of the largest floriculture operations in the world.

Argus nutrient injection system or control third party equipment for optimal plant growth and operational efficiency.

Greenhouse & Indoor Ag Controls
- Weather station, soil sensors
- Lighting
- Shade curtains
- Temperature, humidity
- Venting, fans, circulation

Open Field
- Irrigation
- Soil condition

Remote Infrastructure
- Water pumps
- Wells

Control & Data Storage
- Programming, automation
- Monitoring, alarms
- Data, audit trail, reporting
- Wireless, remote access
- Cultivation optimization
- PC, laptop, handheld interfaces

Nutrient Management
- Nutrient mixing
- Water/nutrient distribution
- Feed tanks, batch tanks
- Water treatment

Physical Plant
- Boilers, chillers
- Heat distribution
- Power systems

Growth Chambers
- Temperature
- Light
- Humidity
- CO_2

Growth Rooms
- Temperature
- Light
- Humidity
- CO_2
- Irrigation
- Nutrients

Argus just has a different level of architecture in the manufacturing making it super durable under greenhouse conditions.

– Bill Swanekamp, General Manager & President, Kube Pak, USA

Conviron chambers and rooms for tight environmental conditions – ideal for plant propagation or R&D.

Legend
- Supply, monitoring and control
- Monitoring and control only

Grow with Argus and Conviron.
Grow beyond.

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