

Maintaining the Climate for Growth

Our EnviroSTEP and VersiSTEP integrated controls monitor and manage all aspects of climate: temperature, humidity, light level, CO₂ and watering.

Unlike staged STEP controls that group several pieces of equipment into stages, integrated controls allow each piece of equipment to have it's own parameters. These advanced controls offer more precise control. Now more than ever, the Wadsworth STEP brand name is your key to a Simple Total Environmental Program.

Advantages to using integrated controls:

Easy to Use

- Your integrated control is plug-n-play; all you need to do is connect it
- Although our settings are optimized for the typical greenhouse, customizing your control is simple
- Your shipment includes an instructional DVD
- Largest screen in the industry — includes graphic capabilities
- Interface panel is easy to use — simply push the button to select the desired option from the menu and press the GO key

Enhances Crop Quality

- Provides uniform growing conditions
- Multiple set point capability mimics nature, improves crop quality and hardiness
- Increased precision in monitoring and equipment control, each piece of equipment has its own parameters
- Highly accurate temperature and humidity control

Reduces Fuel Costs

- Maximizes energy management
- Reduce energy consumption by lowering night temperatures, this is when 80% of the heating occurs
- Ramping allows for a gentle transition between set point periods
- Solar-guarded, aspirated temperature and humidity sensors provide excellent accuracy. This counts in real-world terms; consider that for every one degree of improved accuracy, your energy consumption is reduced by 3%

Increases Productivity

- Automation allows you and your staff to focus on other aspects of running your business, such as growing plants and growing sales
- The EnviroSTEP or VersiSTEP are a great addition to your team. Your control works 24/7, with no complaints, and it will do exactly what you tell it to do. Talk about good management/labor relations!
- Add STEPsaver software (see page 14) to save even more on labor costs

Barlow Flower Farm



Wadsworth equipment:

- 2 EnviroSTEP Controls
- Weather Station
- STEPsaver

Equipment we control:

- Hot Water Boiler & Pump
- Floor & Overhead
- Hot Water Heat
- HAF Fans
- Roof & Gable Vents
- Curtain System

"The EnviroSTEP does a great job. The customer support is outstanding. I wish more companies would follow in their footsteps."

— Stephen Barlow
Barlow Flower Farm
Sea Girt, NJ
www.barlowflowerfarm.com



Ask about our training sessions that can be done **on-site** or **via the internet** (see page 21).

Integrated STEP Controls

Optional Equipment:

- Knowledge is power; maximize your integrated control with additional sensors. Read **pages 14-15** to learn more
- Weather Station enhances your control, protecting your crop and greenhouse from adverse weather conditions. It provides anticipatory control - see **page 15** for details
- CO₂ Sensor, Hot Water Sensor, Soil Temperature Probe, Light Sensor
- Save time, increase knowledge and get remote access with our STEPsaver software. It links your EnviroSTEP or VersiSTEP to a PC for more powerful data storage, reporting and remote monitoring capability. STEPsaver allows you to save crop settings for accurate, repeatable quality year after year. See **page 14** for more information
- Alarm Manager protects your crop by notifying you of dangerous conditions and power outages. See **page 22** for details

Oregon State University



“The EnviroSTEP controls everything in the greenhouse — the irrigation, propagation misting, curtains, lights, heating and cooling. The system is very intuitive. By monitoring the graphs we can see how temperature control is and how the curtain decreased our energy consumption.”

— Luigi Meneghelli
Oregon State University
Corvallis, OR

Wadsworth is proud to be a woman-owned, US manufacturer. Check in your area to see if special incentives are available for working with us.

Sun Works' Science Barge



L. Redman

Sun Works uses Wadsworth to control their Science Barge. This sustainable urban farm is powered by solar, wind, and biofuels, and irrigated by rainwater and purified riverwater. They grow fresh fruit and vegetables using recirculating hydroponics. For more information on Sun Works, visit <http://www.nysunworks.com>.

Wadsworth equipment: VersiSTEP Control, Weather Station, STEPsaver

Zone 1

- Exhaust Fans
- Pad Shutters
- Pad Pump
- Roof Vents

Zone 2

- Exhaust Fans
- Pad Shutters
- Pad Pump
- Roof Vents
- Under Bench Heat



J. Dean

“The Wadsworth VersiSTEP controller was a great match for the Science Barge. It’s user-friendly, provides all the control capabilities we need, and the technical support staff is always available.”

— Jenn Nelkin
New York Sun Works
New York, NY

EnviroSTEP™

Each year hundreds of growers install EnviroSTEP controls in their greenhouses. It's the flexible, rugged choice to integrate the climate control equipment for one zone. There's no better combination of power and value than the EnviroSTEP. Garden centers, production growers, laboratories and schools all benefit from this control. And it bears the UL mark, your assurance of regulatory approval.



Features:

- Single zone control
- 3 set point periods — day, night and DIF
- 12 relay outputs with manual override switches
- 2 analog outputs (0 to 10VDC) to control variable-speed fans and modulating valves
- 7 analog input channels for connecting light, CO₂, RH and temperature sensors
- 4 digital detector channels sense precipitation, wind speed and direction
- Records the status of all inputs and outputs in 15-minute increments
- Alarm outputs: temperature, RH and power failure
- Replaceable 10 amp DPDT relays, can operate a wide variety of equipment — these relays reduce the cost of your contactor panel

- Durable corrosion-resistant cabinet with locking door protects your control
- Cabinet measures 16" x 16" x 5"
- Largest display in the industry; has menu-driven choices and graphic functions
- Keypad for easy operation
- Ramping allows for gentle transition between set point periods and saves fuel

Includes:

- Solar-guarded aspirated temperature and humidity sensor and 100' of cable
- Solar-shielded outdoor temperature sensor with 25' of cable

Why I chose the EnviroSTEP

At Wadsworth we like to know why growers chose our products. Here are a few comments from growers who use the EnviroSTEP. Visit our website at www.WadsworthControls.com to learn why other growers chose our products. We'd like to hear about your Wadsworth experience, please contact Patricia@WadsworthControls.com.

WHY I CHOSE WADSWORTH

"Wadsworth controllers have long been respected in the industry. They continually respond to growers' needs with upgrades or new features. I wholeheartedly support Wadsworth controllers."

— Debbie Maggiulli
USDA
Corvallis, OR

"I love the EnviroSTEP controls. They're easy to use, and the DIF allows me to cut way down on growth regulators."

— Jack Weatherford
Weatherford Farms
Stafford, TX

"Because of your reliable controls, our greenhouses are working great. Your technical support team has been exceedingly helpful. The STEPsaver software has been very useful to our operation."

The advanced graphing feature and the averaging tab have been especially beneficial."

— Richard Zinn
Michigan Department of Agriculture
East Lansing, MI

Colorado State University Research Facility



Wadsworth equipment: Network of 10 EnviroSTEP Controls, Weather Station, STEPsaver



Equipment we control:

- Floor Heat Valves
- Overhead Unit Heaters & Valves
- Roof Vents
- Energy Curtains
- Corridor Vents
- Exhaust Fans
- Pad Pump
- HID Lights

"We struggled with our facilities people to get greenhouse controls, they just wanted us to use the building controls. Fortunately we were able to get the Wadsworth EnviroSTEP controls that we needed for our research. Wadsworth's system is so easy to use. Their technical support is top-notch so facilities is very pleased with the system."

—Jennifer Matsuura
Colorado State University
Ft. Collins, CO