Climate Control Systems

a nebula group company

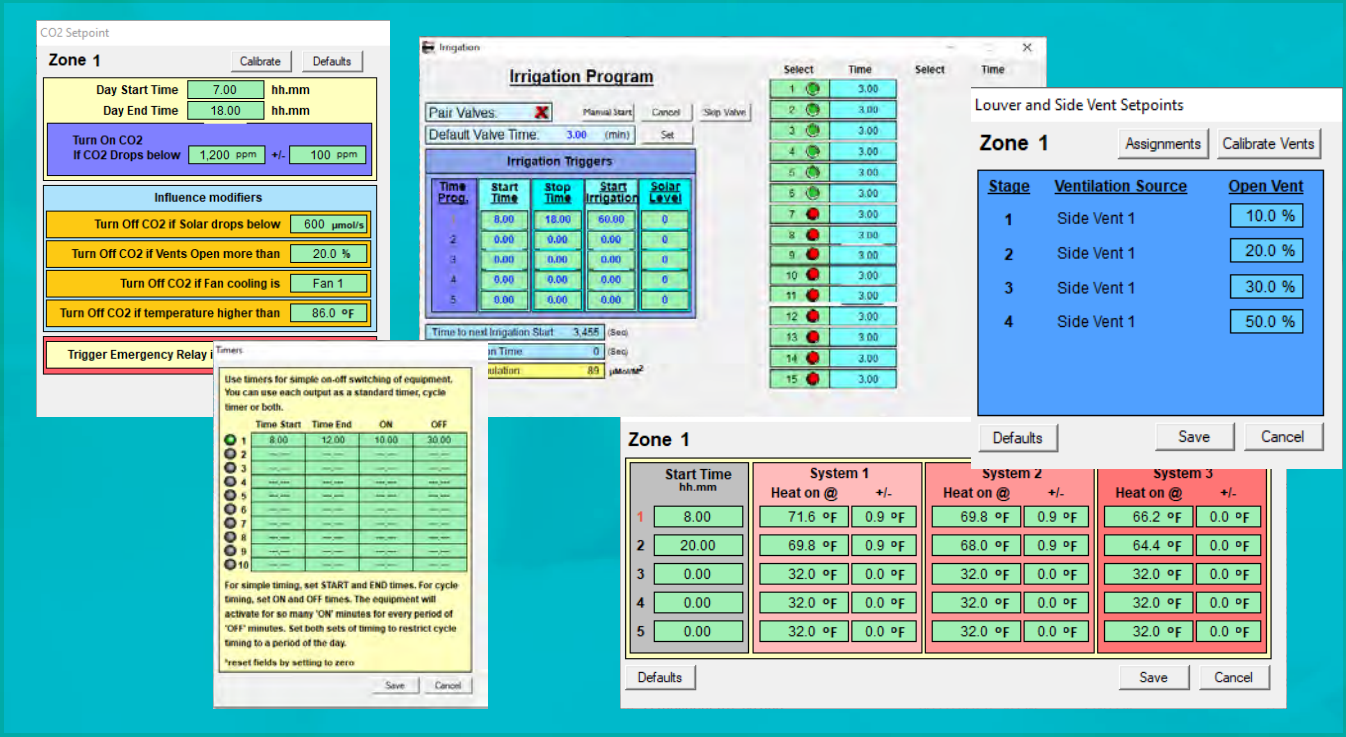
CLIMATE MANAGER

Be in control of your grow operation from **anywhere.**

CLIMATE MANAGER™

The Climate Manager™ is a wireless process control system capable of controlling and monitoring multiple indoor operations. It gives the grower the ability to access data and control equipment over the Internet through any computer or mobile device.

The Climate Manager™ works around the clock to optimize the indoor climate, to increase crop yields, reduce energy costs and protect the indoor environment against harsh weather conditions.



VALUE PROPOSITION

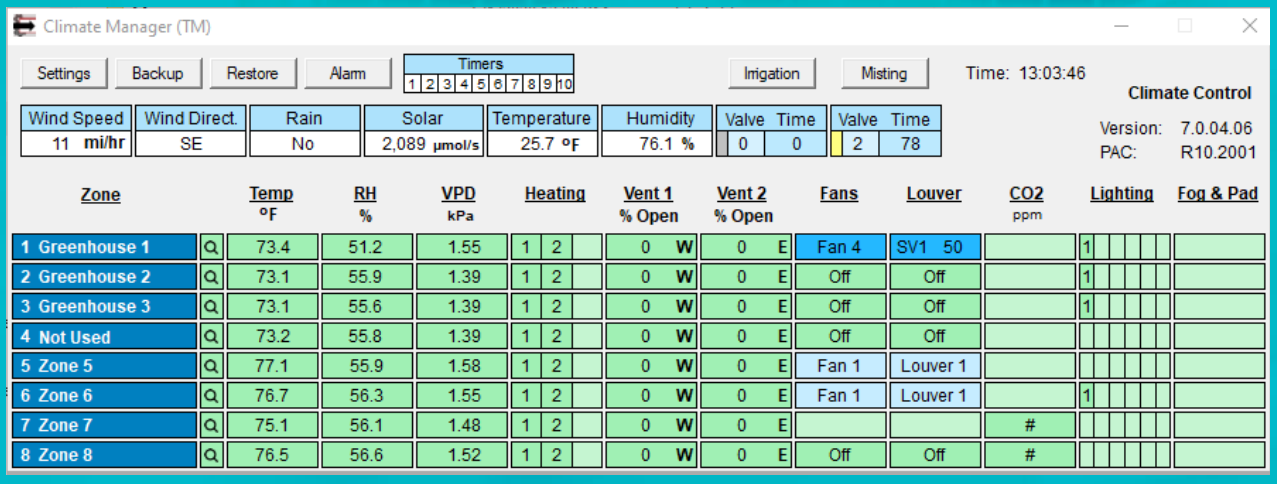
Mold is one of every growers' biggest concerns. Mold is caused by the moisture in the air condensing on plant leaves. This can cause complete crop failure and decrease crop value.

The Climate Manager™ allows the grower to control the environment by vapour pressure deficit. By using this feature the grower can keep the crop in the best growing zone, and out of the mold zone.

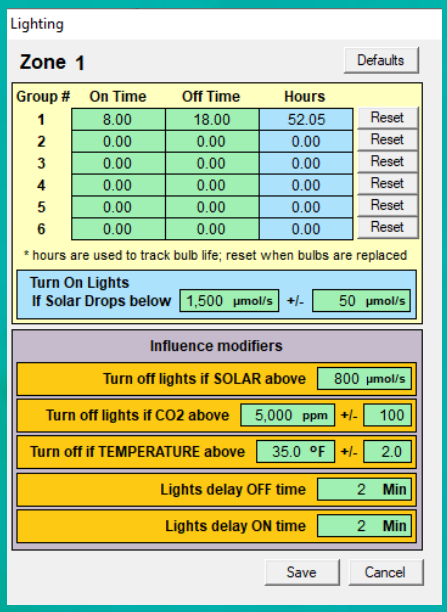
MAIN SCREEN DISPLAY

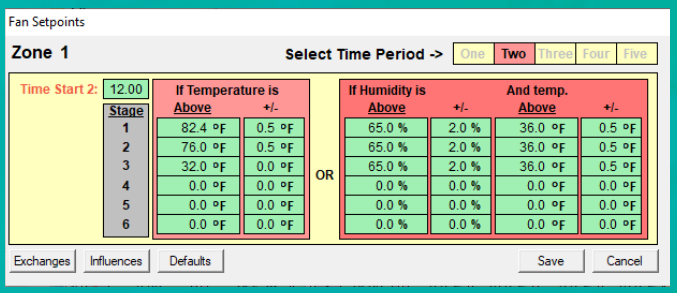
The Main Screen Display outlines the overall climate conditions within all growing compartments which allows growers a quick glance of accurate and real-time data for the following conditions:

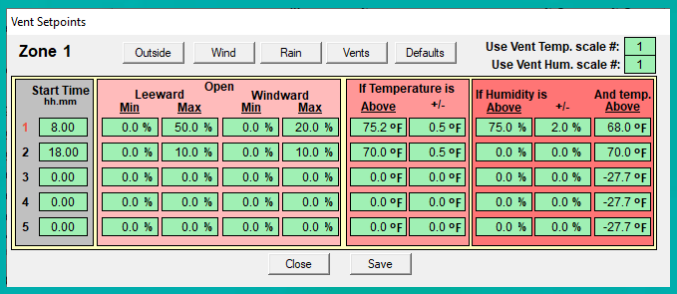
- Displays moisture levels in substrate growing medium for irrigation starts
- Temperature and humidity conditions in all growing compartments
- Irrigation and fertigation schedule E.C., pH and water flow readings
- Displays all vent positions, louver positions and cooling fan activity
- Displays solar levels for irrigation triggers and solar E.C. corrections
- Additional zones can be displayed on subsequent pages
- CO2 levels in each growing compartment
- Displays up to 16 zones



HEATING, COOLING AND CO_2 PROGRAMS



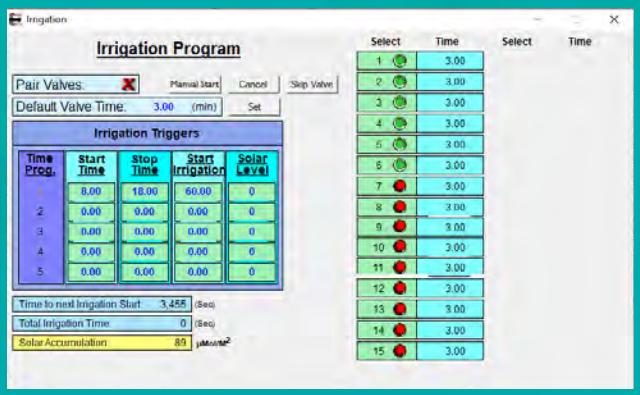




- Simple and easy to use software programs for raising vegetable/flower crops
- CO2 programs for gas burners, CO2 boiler recovery or liquid CO2 systems
- Heating and cooling programs for hot water, steam or hot air heater
- Ethernet/Internet access from a computer or mobile device
- Weather station, solar, rain, wind and temperature programs
- Day and night temperature and humidity programs
- Temperature ramping with solar temperature programs
- Lighting and shading programs

IRRIGATION SOFTWARE PROGRAMS

- Irrigation management and drain water recycling programs
- Solar, rain, wind, temperature weather programs
- Time and solar irrigation start programs
- Multiple irrigation programs
- Multi-zone misting programs
- Solar radiation program



EPIC CONTROLLER

COMING FALL 2023

EXPANDABLE • CUSTOMIZABLE • ACCESSIBLE

The groov EPIC gives input/output, a flexible Linux-based controller with gateway functions, a high-resolution touchscreen display, two independent network interfaces, USB and HDMI ports. The software includes control programming for device-independent HMI, simple data flows, OPC-UA drivers, communications and more.

Powering a web-based app, the EPIC controller provides **instant access, anywhere** to the Climate Manager.™ With more power, comes more possibilities... The EPIC controller serves as the ideal platform for expandability, so your Climate Manager can be truly customized to supply you with the data you need to optimize your growth.

COMPLETE GREENHOUSE CONTROL

CONTROLLER

- Powerful Ethernet/Internet industrial computer
- Optically isolated circuits (protect in power outages)
- All output modules are fused with manual override
- Switches and LEDs on each output modules
- No proprietary motherboards to source
- Memory backed non-volatile-memory
- Simple to use programs

ASPIRATED TEMPERATURE AND HUMIDITY SENSORS

- Aspirated temperature and humidity sensors
- Made from high impact durable plastics
- Solid state sensors for trouble-free operation
- Watertight connector on each sensor
- Colour coded temperature and humidity sensors

CO_2 METER

- Digital CO_2 meter computer interface
- Read CO_2 levels on a computer screen
- Scale 0-2000 PPM or 0-5000 PPM
- CO_2 meters have NO/NC relay contact for alarms
- Control CO_2 valves and burners

UNIQUE WEATHER STATION

- Weather station measures and logs weather conditions
- Solar radiation, wind speed, direction and wind chill
- Temperature and rain sensors
- Outside humidity sensors

CLIMATE MANAGER™ ACCESSORIES

VENT MOTORS

Various vent motor gearboxes available for venting, shading and side louvers for glass and poly houses. Motors are available for 120 volts, 220 volts, 208 volts 3 phase, 575 volts 3 phase.

CONTROL PANELS

The vent control boxes are available to control two vent motors and are built to accommodate single-phase or three-phase motors.

The control panels are also available to control one motor per box. Each box is equipped with 24-volt relays to control the high voltage interlocked contactors.

HOT WATER SENSOR

The hot water temperature sensor is a stainless-steel probe with 3/4-inch NPT thread with a weatherproof cap. The terminal is provided on top of the sensor to connect wiring to the Climate Manager™ control panel.

Creating consistent growing environments for **healthy crop growth and quality control.**

Climate Control Systems

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Climate Control Systems Inc. has been manufacturing greenhouse automation systems around the globe since 1985.

Our greenhouse automation software and solutions work around the clock to optimize greenhouse climate, increase crop yields and reduce water, energy and fertilizer costs.

We provide complete solutions for your growing operations. Our solutions help achieve a better crop while saving you precious time and overhead costs.

nebula group

Nebula Group's primary mission is to profitably expand leadership in food production and safety in a localized manner through the decentralization of the food supply chain via sustainable resources, modernized technology systems, and self-sufficient processes.

CONTACT US TODAY FOR A CUSTOM QUOTE

DEALERSHIP AND AGENT INQUIRIES ARE WELCOME

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