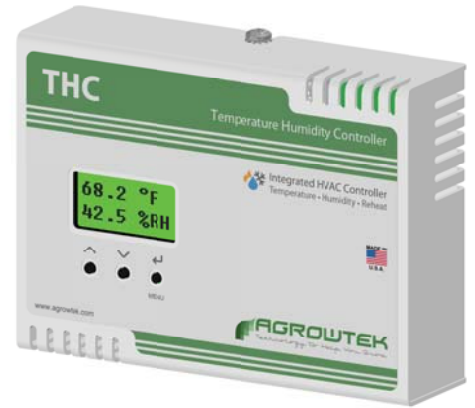


THC series Temperature and Humidity Controllers are designed for intelligent control of standard dry-contact operated HVAC systems and dehumidifiers in growing environments. Operate heating, cooling, reversing valves, reheat dehumidification and standard humidity equipment using 24VAC control.



Independent Operation

The THC controller can operate off of the HVAC system's 24VAC power source as a stand-alone controller, or as a backup to continue operating in the event that the main control system becomes disconnected. Internal sensor, clock and set points continue to operate the HVAC system seamlessly.

GCX System Integration

Connects to GrowControl™ GCX Cultivation Control Systems for operation from a central controller. Monitor, log and graph the THC's temperature and humidity data, operate from a external canopy sensors instead of the internal sensor, and schedule automatic changes to the set points.

LCD display shows local temperature and humidity, output status, time/date and more. Internal settings are configured quickly and easily via the menu display, or from a GCX control system. Easy installation with reversible mounting plate for junction box installation or flush wall mounting and bottom cable entry.

Features



Air Temperature
-20 - 60°C / 0 - 140°F



Relative Humidity
0 - 99% RH (80% RH max continuous)



HVAC & Humidity Control



Automatic Fail Safe with
Backup Power & Internal Sensors



1-Year Warranty



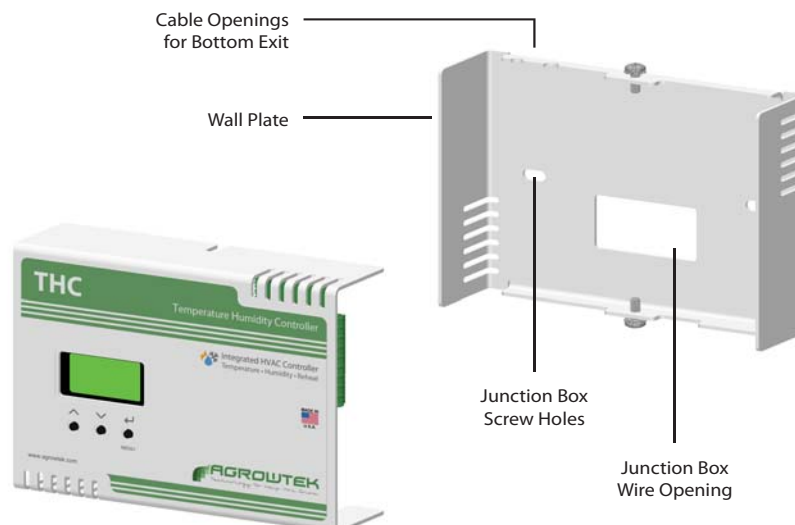
GrowNET™ Digital Communication Port
for GrowControl™ GCX Controllers



Durable & Corrosion Resistant
Powder-Coated Aluminum Enclosure



Made in USA



LCD display green backlight turns off with no button activity.

HVAC System Control with GCX and External Sensor

THC series controllers can operate fully stand-alone or integrated into a GrowControl™ GCX Cultivation Control System.

Stand-Alone Operation

When operated stand-alone, the unit reads temperature and humidity from a built in precision digital sensor chip and uses settings stored and configured through the display and button interface. Internal real-time clock allows automatic changing between day and night set points.

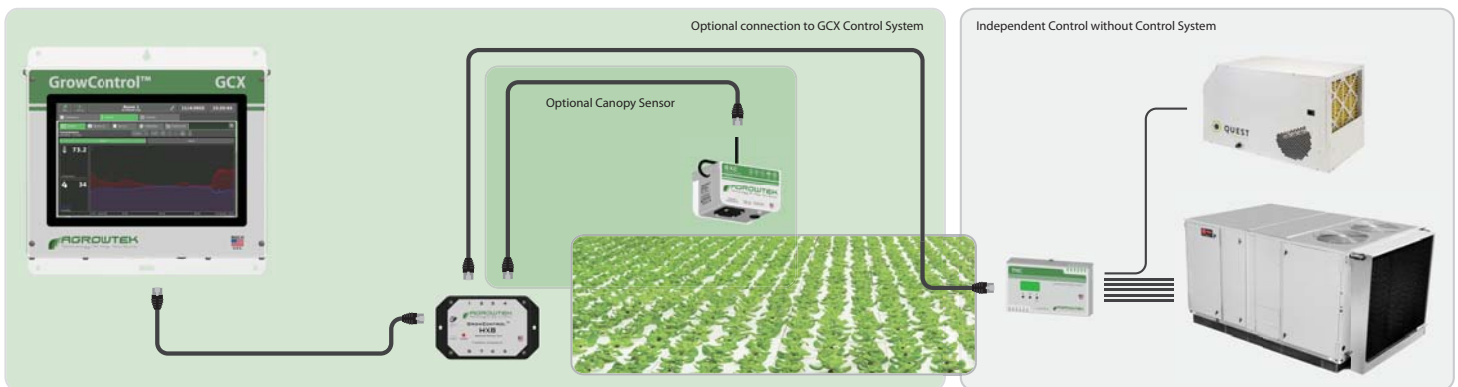


Integrated System Operation

When operated as part of a GrowControl™ system, the THC controller can:

- Report back it's on-board sensor readings for logging and alarms.
- Receive updated set-points from the main controller based on advanced scheduling.
- Operate based from external temperature & humidity readings instead of the internal sensor.

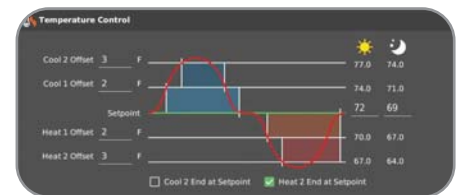
Precision canopy-based environment sensor(s) can be configured to send readings to the THC unit for more accurate control at the canopy level. Internal logic detects loss of communication or external sensor data and will operate on backup automatically.



Advanced Control Features

THC Controllers include features unique to horticultural control applications:

- Reheat Dehumidification Control
- Configurable RH output for Humidification or Dehumidification Control
- Compatible with Heat Pump Systems
- Day & Night Setpoints with Staging



Ordering Options

THC
Temperature & Humidity Controller

Optional Accessories



LX1
USB
AgrowLINK™

HX8
GrowNET™
Device Hub