



Intertek

D I G I T A L

ENVIRONMENTAL CONTROLLER

BAC-1

READ AND SAVE THESE INSTRUCTIONS

Specifications

Volts: 120
 Max. Amp Load: 14.5
 Hertz: 60
 Temp Setting Range: 40–122°F
 Temp Deadband: 2/4/6°F
 Temp Accuracy: $\pm 2^\circ\text{F}$
 Adjustable Low Temp: 40–70°F
 Humidity Setting Range: 5–95% RH
 Humidity Deadband: 5% RH
 Humidity Accuracy: $\pm 3\%$ RH
 Recycle Timer Mode: Day/Night/24-hour
 Recycle Timer On/Off Range: 0 seconds–96 hours
 Operating Temp Range: 41–104°F
 Max. Relative Humidity: 80%
 Remote Sensor Cable: 15' NDIR
 Power Cord: 6.5'
 Dimensions: 8" x 7.5" x 3.3"
 Indoor use only.

Factory Settings

Day Temp:
 Cool 80°F/26°C
 Heat 55°F/13°C
 Night Temp:
 Cool 70°F/21°C
 Heat 55°F/13°C
 Temp Deadband: 4°F
 Humidity: 50% RH
 Humidity Mode: Dehumidify
 Humidity Deadband: 5% RH
 Day On Time: 1 min
 Day Off Time: 1 hour
 Night On Time: 1 min
 Night Off Time: 2 hours
 Power Loss Mode: Continue
 Low Temp Limit: 50°F/10°C



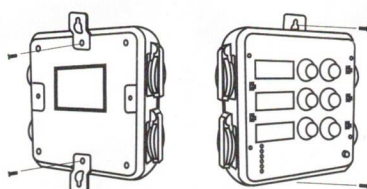
Warning

- Ensure the device connected to the controller has the correct voltage and will not exceed the maximum amperage rating of the unit.
- Install the controller at least 8 feet away from any devices that produce large amounts of electronic noise, such as electronic ballasts and ozone generators.
- Do not operate the controller with a damaged plug or sensor cable.
- Do not install the unit near a heat source.
- Do not attempt to repair the unit. Removal of the product housing will void the warranty.
- Do not expose the unit to water.
- This controller has a three-prong plug that must be inserted into a matching properly grounded outlet. Do not attempt to remove the ground prong.
- Turn the controller off and cover or remove the remote sensor before using a sulfur vaporizer. Failure to protect the sensor from sulfur use will result in damage to the sensor and void the warranty.

Attention

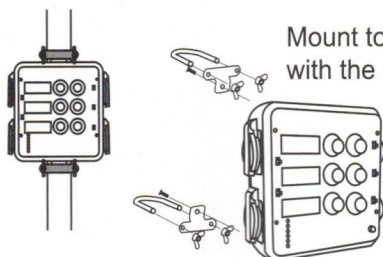
- Assurer que l'appareil connecté au contrôleur a la tension correcte et ne dépassera pas la note maximale de ampérage de l'appareil.
- Installez le contrôleur au moins 8 pieds de tous les appareils qui produisent de grandes quantités de bruit électronique, tels que les ballasts électroniques et des générateurs d'ozone.
- Ne utilisez pas le contrôleur avec un cordon d'alimentation ou une fiche endommagés.
- Ne pas installer l'appareil près d'une source de chaleur.
- Ne essayez pas de réparer l'appareil. Retrait du boîtier du produit annule la garantie.
- Ne pas exposer l'appareil à l'eau.
- Ce ventilateur a une fiche à trois broches qui doit être insérée dans une prise correspondant à la terre. Ne essayez pas de retirer la broche de terre.
- Éteignez le contrôleur et recouvrez ou retirez le capteur de télécommande avant d'utiliser un vaporisateur de soufre. Si vous ne protégez pas le capteur contre l'utilisation du soufre, vous endommagerez le capteur et annulez la garantie.

Installation

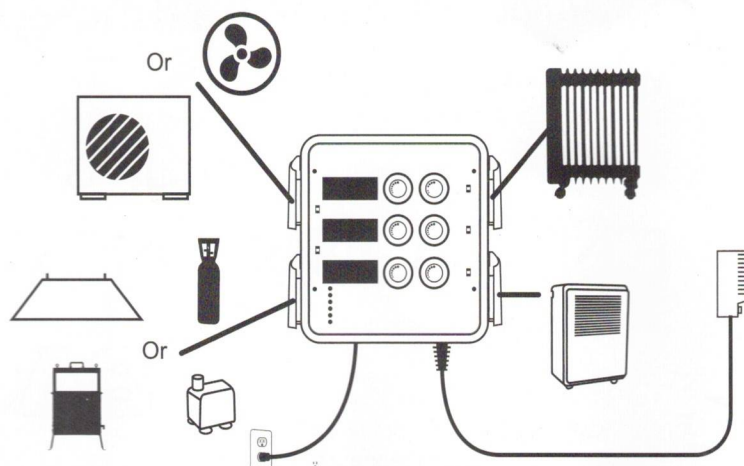


Wall mount using the included brackets.

Or



Mount to a grow tent tube with the included U-bolts.



Plug the unit into a 120V outlet. Position the remote sensor at plant level. The unit will take about 5 minutes to warm up.

Temperature Setting

Click the DAY TEMPERATURE knob to set the daytime cooling and heating set points. First, "COOL" will display on the screen. Turn the knob to set desired temperature at which the cooling device will activate. Press the knob again to set the temperature at which the heating device ("HEAT") will activate. Press to save the settings.

Repeat with the NIGHT TEMP knob to set the nighttime set points.

Temp Max/Min Recall

Press both knobs to recall the maximum and minimum recorded temperatures.

Temperature Scale

Press both knobs for 3 seconds, then turn the DAY TEMP knob to switch between Fahrenheit and Celsius display. Press both knobs again to save the setting.

Recycle Timer Setting

Click the ON TIME knob to set the ON duration. Turn the knob to set the hour; press and turn again to set minutes and seconds. Press to save the setting. Repeat with the OFF TIME knob to set the OFF duration.

Note: The display will count down by seconds in the last minute.

Restart Cycle

Press the recycle ON TIME knob for 3 seconds to test or restart the timer cycle.

Timer Mode

Day Mode: The timer only operates while the photocell senses light.

24 Hour Mode: The timer operates during both day and night. To set different daytime and nighttime cycles:

1. Set on/off times with the timer in day mode, then set on/off times with the timer in night mode.
2. Move the switch to the 24 Hours setting.

For example:

Day mode: On time 30 minutes, off time 1 hour

Night mode: On time 30 minutes, off time 2 hours

Night Mode: The timer only operates while the photocell does not detect light.

Temperature & Humidity Lock

Lock: Choose if using only ventilation fans for cooling and removing humidity. The fan(s) will turn on when the sensor detects a rise above either the temperature or humidity set point.

Unlock: Choose if using a ventilation fan or A/C unit for cooling and a separate dehumidifier or humidifier to maintain humidity. Each device is controlled and activated independently.

Mode LEDs and Error LEDs

Error LED flashes when an error occurs.

5.54

Check the sensor connection.

Humidity Setting

Click and turn the DAY HUMIDITY knob to set the daytime humidity set point. Press to save the settings. Repeat with the NIGHT HUMIDITY knob to set the nighttime humidity set point.

Humidity Max/Min Recall

Press both knobs to recall the maximum and minimum recorded humidity levels.

Temperature Deadband

Humidity Mode

Low Temperature Limit

If the environmental temperature is lower than this set point, the controller will deactivate the humidity output until the temperature rises to 10°F above the set point. To set the daytime low temp, press the DAY TEMP knob for 3 seconds until the display reads "L 16." Turn the knob to adjust the value, then press to save the setting. Repeat with the NIGHT TEMP knob to set the nighttime low temp.

Blueprint Controllers® Digital Environmental Controller Limited Warranty

What This Warranty Covers

This warranty covers defects in materials and workmanship under normal use, with the exceptions stated below.

Who This Warranty Covers

This warranty applies to the original purchaser of this product with the original proof of purchase.

How Long Warranty Coverage Lasts

This warranty is in effect for a period of two years from the original date of purchase.

What This Warranty Does Not Cover

This warranty does not cover damage or defects resulting from the improper installation, alteration, abuse, accidental damage, unauthorized repair or misuse of this product. Misuse includes but is not limited to outdoor use. This warranty does not apply to cosmetic defects or other defects that do not affect the functionality of the product, and is void if the product has been damaged as a result of fire, flood, or other natural disaster. Blueprint Controllers shall not be responsible for any incidental or consequential damages of any nature, including damage or injury caused to other products, machinery, buildings or property; loss of profits, time or product; or inconvenience. The original proof of purchase **MUST** accompany the Blueprint product for this warranty to be valid. This warranty is given in lieu of all other warranties, express or implied, including without limitation merchantability and fitness for a particular purpose. ***Some states do not allow the exclusion or limitation of incidental and consequential damages, or limitations on how long an implied warranty lasts, so the above limitation(s) may not apply to you.***

What Blueprint Controllers Will Do

If Blueprint Controllers determines the warranted product is defective in materials or workmanship during the warranty period, then Blueprint Controllers, at its option, will either repair or replace the product. In no event shall the cost of repair or replacement exceed the original purchase price.

How to Obtain Warranty Service

Return this product along with the original proof of purchase to the place of purchase in accordance with store policy.

How State Law Applies

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For technical support and warranty information, email info@blueprintcontrollers.com.