

## CALIBRATION PROCEDURE

The internal temperature and humidity sensors installed in the controller have been calibrated and should not require further adjustment. The humidity sensor is very precise and sensitive and user calibration is not advised. The thermostat may be calibrated with trim screw thru hole provided on dial face under the setpoint knob. Avoid undue pressure on trim screw. Adjustments are very slight and 1/8 turn either way is usually adequate. Place thermometer next to controller and let it stabilize to ambient temperature. Unplug fans or CO2 equipment from controller during this procedure. The controller should remain plugged in with switch "on". Outlet lights will indicate switch points. Turn thermostat knob to the left until exhaust outlet indicator light comes "on". Slowly turn knob back to the right until light switches back to the equipment outlet side. This point should match the temperature reading on the thermometer. If not, turn knob back to the left, adjust trim screw very slightly and turn knob right again to re-check switchpoint temperature. When switchpoint temperature matches that of thermometer calibration is complete. During adjustment, pressure on trim screw will cause incidental switching. This is normal and has no affect on adjustment procedure.

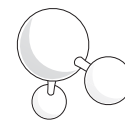
### TWO YEAR LIMITED WARRANTY

Green Air Products guarantees that this equipment will perform as implied for the purpose it is intended. Green Air Products warrants the original purchaser of this equipment against defects in mechanical parts and workmanship for 2 years and electrical parts for 90 days. At our option we will repair or replace defective equipment. Warranty service is only performed at the factory or authorized service center. Any usage contrary to proper application or alterations of original construction will void warranty obligations. For further warranty information contact your dealer or Green Air Products service department.

WARRANTY INFORMATION  
1-503-663-2000

**GREEN AIR PRODUCTS INC.**  
P.O. BOX 1318 GRESHAM, OREGON  
97030 U.S.A. 503-663-2000

050314



**GREEN AIR PRODUCTS INC.**  
PROFESSIONAL GREENHOUSE EQUIPMENT

## ATMOSPHERIC CONTROLLER

# CT-DH-2



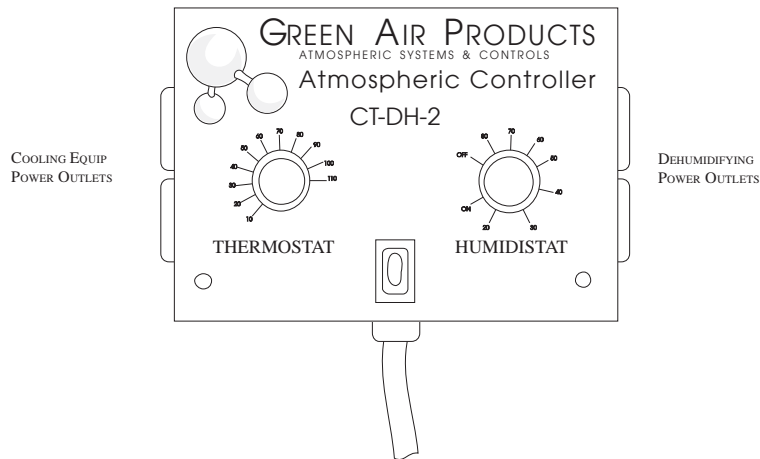
## COOLING THERMOSTAT DEHUMIDIFYING HUMIDISTAT

# Instruction Manual

# COOLING AND DEHUMIDIFYING

## CT-DH-2

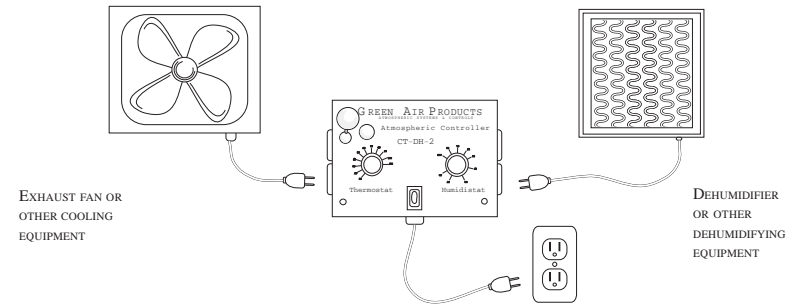
This controller is designed to give you independent outlets for humidity and temperature equipment. Set the temperature and humidity dials to the desired settings. If the temperature rises beyond the set limits, the left outlet comes "On" and if the humidity increases, the right outlet comes "On". When temperature and / or humidity fall below the set limits, left and right outlets turn "Off" independently. This allows you to use a dehumidifier to control humidity and an exhaust fan to control temperature and neither side will defeat the other when they initialize. Internal sensor will allow a 7° temperature or 7% humidity differential between the time equipment comes "On" and goes back "Off" again. Small amber lights indicate when the outlet has power. Operates on 115VAC 12 Amps Max.



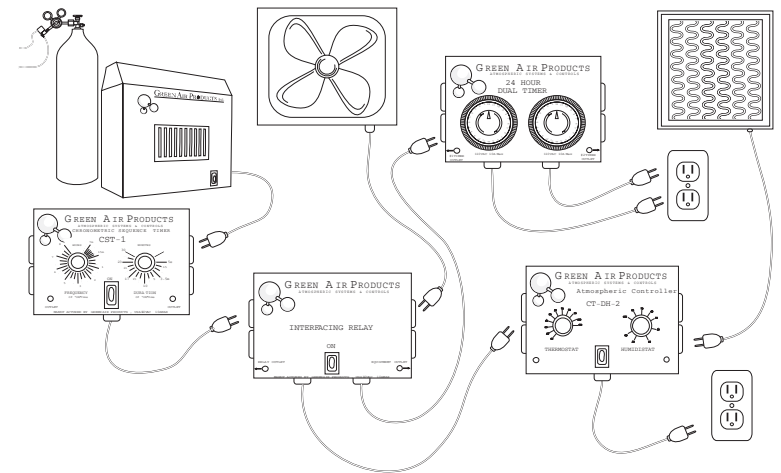
## HOW TO OPERATE

Plug controller power cord into 115V outlet. Plug cooling equipment into left side outlet and set thermostat dial to maximum allowable temperature. Plug dehumidifying equipment into right side outlets and set humidistat to maximum allowable humidity. Do not exceed power handling capacity of your wall outlet. Approved for indoor use only.

## ILLUSTRATION EXAMPLE



This example shows the basic independent function of the CT-DH-2 for the purpose of operating equipment intended to cool and dehumidify.



The CT-DH-2 may be used to operate fans or any other cooling or de-humidifying equipment. Use with the IR-1 to defeat CO2 when exhaust fans are used for cooling. The diagram above shows how to install the CT-DH-2 to operate with CO2 enrichment. When temperature increases above the predetermined setting an exhaust fan is used for cooling purposes. Excess humidity is resolved with a dehumidifier. If a condition arises where both temperature and humidity are high, both the exhaust fan and dehumidifier would run concurrently. One side of the 24 Hour Dual timer controls lighting while the other side controls the CST-1 which in turn controls CO2 generation.