



# AIR-1 Temperature & Humidity Control

*CAP offers a full range of equipment for the growing enthusiasts. The AIR-1 controls the humidity and temperature within the growing area. A thermostat and humistat are combined to activate the exhaust fan(s) when the temperature or humidity rises to the set point. The AIR-1... C.A.P.'s simplest device for temperature & humidity control.*

## OVERVIEW

*The AIR-1 controls (lowers) temperature and humidity by turning on an exhaust fan.*

*The external temperature probe is highly accurate & reliable.*

*The indicator light verifies the ventilation equipment is running.*

*The AIR-1 has two receptacles to connect your cooling device(s).*

*The AIR-1 is extremely affordable way to control the temperature and humidity in your growing environment.*

## CONNECTIONS & OPERATION

*There are certain steps which should be taken to ensure a successful installation of your AIR-1.*

- 1) Determine the desired location for the AIR-1. It should be at plant height and near a 120 volt power supply
  - 2) The external remote temperature probe can be uncoiled to place the probe up to 30" from the unit.
- \* NOTE: Do not bend tightly or kink the silver capillary tube!**
- 3) Mount the AIR-1 to a wall or other vertical surface. The ventilation slots must be positioned on the top and bottom of the unit.
  - 4) Plug the exhaust fan or air conditioner into one of the two receptacles. **(Maximum 15 amps @ 120 volts)**
  - 5) Plug your dehumidifier into the lower right side receptacle. (optional)
  - 6) Keep the AIR-1 far from any CO<sub>2</sub> generator or other sources of high heat to eliminate faulty temperature readings.
  - 7) Adjust the thermostat and humistat to the desired highest level you want to maintain.
  - 8) Connect the power cord to a source of 120 volt power.

**\* NOTE: The AIR-1 requires free air movement to maintain temperature and humidity accuracy. The top and bottom of the enclosure has ventilation slots to provide airflow for the internal humistat. We recommend using an oscillating fan or similar air movement device to provide fresh air for the plants, and the sensors.**

## PRECAUTIONS

**Do not expose the AIR-1 to water. Electrical shock may occur.**

**Do not disable the fuse or put in a fuse that is not rated for 15 amps at 120 volts.**

**Do not kink the capillary tubing! Your temperature will not read correctly.**

**Do not open the AIR-1. There are no user serviceable parts inside.**



## TROUBLESHOOTING

If you are having problems with this unit, refer to these troubleshooting hints.

### *Problem*

### *Suggested Action*

***There are no lights and no function at all.***

Check fuse or main power. Check the main power plug and replace the fuse if required with a 15 amp rated fuse.

If the fuse blows repeatedly, verify that the devices connected to the unit are working properly and that they do not exceed a combined 15 amps.

***The exhaust fans rarely turn off.***

You may have too much heat building up in your area or too small of an exhaust fan. Reduce the heat sources or increase your fan size.

Air Cooled lighting may solve the problem. Heat from lighting is the number one problem with indoor growing.

## WARRANTY

***The AIR-1 is warranted against defects in workmanship and parts for Three Years.***

## SPECIFICATIONS

Main power voltage:	120 volts	Maximum amperage:	15 amps
Temperature control range:	50-115° F	Temperature operating range:	32-120° F
Humidity control range:	20 - 80% with a 5% differential	Humidity operating range:	0-99%
Relay operating life:	100,000 electrical		

***Published by R & M Supply, Inc.  
Copyright 2002-2005 All Rights Reserved***

***R & M Supply, Inc. and their retailers and distributors are not responsible for any damage or injuries, consequential or otherwise arising from the use of this product. The purchaser assumes all responsibility for the use and proper installation of this device.***

***[www.capcontrollers.com](http://www.capcontrollers.com)***