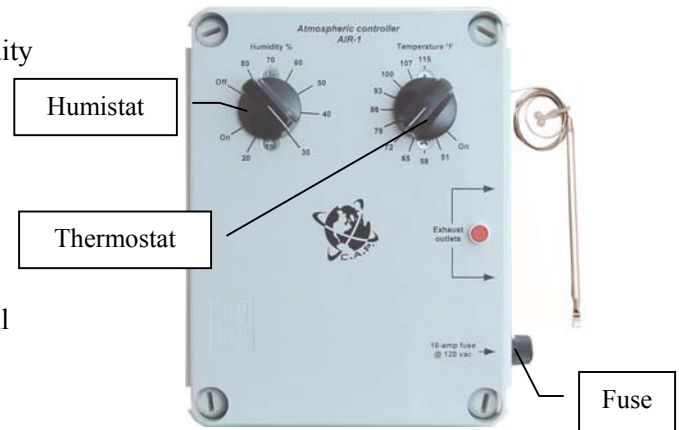




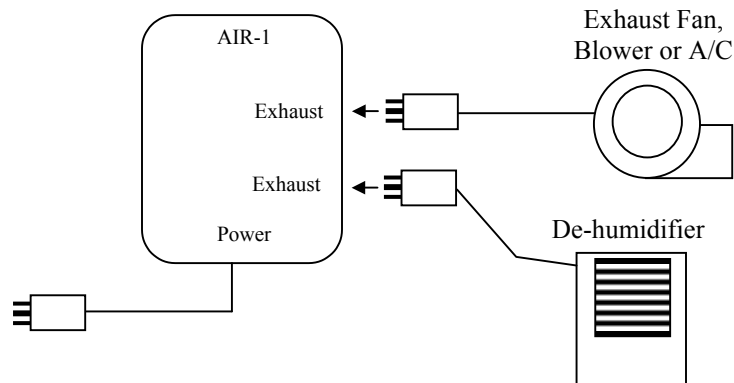
## AIR-1 Atmosphere Controller

*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... CAP's simplest device for temperature & humidity control.*

- ✓ The AIR-1 controls (lowers) temperature and humidity by turning on an exhaust fan.
- ✓ External temperature probe is highly accurate & reliable.
- ✓ The AIR-1's indicator light verifies the ventilation equipment is running.
- ✓ The AIR-1 has two receptacles to connect to your cooling device(s).
- ✓ The AIR-1 is extremely affordable, lowest cost of all CAP's Atmosphere controllers.



### CONNECTION DIAGRAM



### 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 120vac 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 into one of the two receptacles. (Maximum 10-amps @ 120vac)
- 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-vac power. \* Maximum COMBINED load = 10 amps.

**\* 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 air-flow 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.*

## TROUBLESHOOTING

If you are having problems with this unit, refer to these troubleshooting hints. Also, refer to the connection diagram to ensure your devices are connected properly.

<u>Problem</u>	<u>Suggested Action</u>
◆ I have no lights and no function at all.	◆ Check fuse or main power. Check the main power plug and replace the fuse if required with the correct rated fuse. ◆ If the fuse blows repeatedly, verify the devices connected to the unit are working properly and that they are not too large for the AIR-1 to safely control.
◆ The exhaust fans rarely turns 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. ◆ You may also consider using a "closed-loop" air conditioner to keep the temperature and humidity below the set points.

## PRECAUTIONS

- 1) DO NOT expose the AIR-1 to water. The plastic enclosure is corrosion-proof, it is not water-proof.
- 2) DO connect the AIR-1 to a source of dedicated 10-amp / 120 vac power.

## WARRANTY

The AIR-1 is warranted against defects in workmanship for THREE years.

## SPECIFICATIONS

Main power voltage	120vac
Maximum amperage	10-Amps @ 120vac
Temperature control range	External bulb, 7 degree F differential, adjustable 50-115°F
Humidity control range	20 - 80% RH with a 5% differential, +/- 7%
Operating temperature range	32-120° F
Operating humidity range	0-99% RH (non-condensing)
Relay operations (minimum)	100,000 electrical / 1,000,000 mechanical
Weight	Less than 4 lbs
Dimensions	8" X 6" X 3.5"

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