

Growth Chamber Contact Information

NAME _____

EMERGENCY PHONE # _____

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Dates (MM/DD/YY): Starting on _____ **; Ending on** _____

Plant Sciences Growth Chambers FAQ

Q. What do I do when the light bulbs burn out?

A. **Fluorescent lights:** These bulbs work in pairs; if one bulb in the pair burns out, both bulbs will turn off. The easiest way to find the burned out bulb of a pair is to look at the ends of the bulbs, the burned out one will usually have a black burned spot on one end. If both bulbs appear black at the end, replace both. Be aware that not replacing burned out bulbs causes excessive heating and leads to damage of the ballast. If you don't need to replace the bulb, e.g. there is still enough light, just remove the bulb. Do not put burned out bulbs in the regular trash. Place burned out bulbs in the designated garbage can (Forbes 233). If the can is full, call Facilities at 621-3000 to come pick up the used bulbs. Replacement bulbs are available from Valerie Teetor (621-2817).

Incandescent lights: These bulbs do not work in pairs. If you find one burned out, simply remove it and replace it with a new bulb. These bulbs can be thrown out in the glass waste in your lab. Replacement bulbs are available from Valerie Teetor (621-2817).

Be sure to use the correct type of fluorescent or incandescent lamps. If you have any questions please contact Valerie Teetor (621-2817).

Q. What should I do if my plants become infested with insects?

A. The easiest way to get rid of insects is to dispose of the plants, followed by cleaning/baking the chamber. If this is not an option, there are a few chemicals that are approved for indoor use that are somewhat effective. For further information, the following people may be able to help:

Arturo Baez (abaez@ag.arizona.edu)
Dr. Mary Olsen (molsen@ag.arizona.edu)
Dr. Judy Brown (jbrown@ag.arizona.edu)

Q. What should I do if the alarm is sounding?

- A.
1. Open the chamber door.
 2. Turn off the chamber with the on/off switch on the front.
 3. Contact the chamber user to let them know. If you are the chamber user, contact (in order) the following people to arrange for repair:

Valerie Teetor at 621-2817
Carl Schmalzel at 850-6306
Ken Feldmann (feldmann@cals.arizona.edu) or Dennis Ray (dtray@email.arizona.edu)

Q. How do I change the temperature and lighting conditions inside the chamber?

- A.
1. Locate the key pad on the left side of the chamber and push the 'hold' button.
 2. Push the 'prog' button.
 3. Push the 'enter' button until the number under the indicator icon is flashing.
 4. Key in a number for the light type and desired light intensity or temperature. The higher the number, the greater the light intensity.

5. Push the 'enter' key as needed until the time of day is flashing.
 6. Push the 'run' button. Your changes will take effect immediately.
- To look at the different time points in the program, follow steps one and two above then push the 'exam' button to cycle through the time points. There are typically two time points in the program, day and night.

If you need assistance with programming, call Valerie Teetor at 621-2817.

Q. How do I know the light level and temperature achieved?

A. A quick calibration package (handheld sensors to read air temperature, humidity, and photosynthetic photon flux) is available. The accuracy of the sensors in the package will be maintained by the growth chamber committee (Kubota). Contact Valerie Teetor (621-2817) to use the sensors.

Q. How do I clean the chamber when it's time to move out?

- A.
1. Wash the walls down with 10% bleach solution.
 2. Take the metal grates on the shelves out of the chamber and vacuum all soil and debris off of the grates.
 3. Replace any burned out bulbs.
 4. Turn lighting off, increase temperature to 45°C, and bake for 3-5 days. Place a sign on the outside of the chamber indicating the scheduled duration of the baking period. Then ramp temperature back down to 20°C and shut the chamber off.

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