

Triac Dimmers and use with Global Tech Led Mini AC.

Our new Triac compatible Mini AC was designed to work with most leading and lagging Triac dimmers. The performance of our lamp greatly depends on the quality and size of the dimmer used.

Know the maximum wattage and minimum wattage of the triac dimmer that you are using. Many dimmers have a high minimum wattage that can affect the performance of our lamp. As a triac dimmer gets to its lower levels the performance can cause our lamp to start to flicker. Here are some tips to help increase the performance of the Mini AC lamp.

- 1) Try to max out the wattage of the triac dimmer this will help performance. Example if you have a dimmer with five 300 watt incandescent lamps or 1500w total on a 1500w dimmer and you replace with our 50w unit. With our lamp you are consuming 250w total! Most dimmers can only dim to 5% so 5% of 1500 watts is 75w. Depending on the quality of the dimmer you may only get 50% dimming on our lamp. If you replace the 1500w dimmer with a 300w dimmer, you will get a much larger dimming range and control. Another solution is to combine circuits so instead of 5 lamps per circuit you increase to 10, 15, or 20 lamps. This will help load the dimmer and give better results.
- 2) Although our Mini AC is designed to work on leading and lagging dimmers, lagging dimmers seem to work more smoothly. We suggest not using over a 1500w dimmer and like dimmers that have a lower limit adjustment. With a limit adjustment control you can adjust to a level where you are not getting any flicker at the lowest level and then have full sliding range of the dimmer switch.

Trouble shooting

- 1) If you install our bulbs and notice one lamp flickering at high setting. Remove the bulb and insert another lamp. If this lamp also flickers you possibly have a defective socket. Check the connections and see if this fixes the problem.
- 2) The mini ac is very sensitive to the quality of power being supplied to the socket. Electrical issues may be present but the old incandescent bulbs still worked. Make sure there is no corrosion on the common or neutral at the panel and insure the lugs are tightened.

- 3) Grounding is very important in dimming. Make sure that the dimmer ground is secure and that there is no potential between the ground and common. Check grounding both in the ceiling and at the switch.

Testing the Mini AC lamp

Global Tech Led recommends testing the Mini AC on an entire circuit before installing throughout. If you are happy with the performance continue with the installation. If not working as desired, see sections 1 and 2 of “Triac Dimmers and use with Global Tech Led Mini AC”.