



creating healthier environments

UVC Do's and Don'ts

Don't:

1. Look at any UVC lamp without eye and face protection of either glass or plastic.
2. Enter a UVC install without first disconnecting power.
3. Touch tubes (quartz) with bare hands. Wear Cleaning Kit gloves.
4. Expose untested wiring, etc. to direct UVC light, wrap with aluminum duct-board tape.
5. Operate a UVC system with missing or failed tubes.
6. Cycle fixtures with fans that cycle more than twice a day; instead operate continuously.
7. Install UVC Fixtures on the same line as an inductive load.
8. Obstruct the Radiometers' sensor eye.
9. Expose fixtures or lamps to excessive amounts of water.

Do:

1. Disconnect all power before installing or changing fixtures and tubes.
2. Install an interlocked "kill" switch(s) on any plenum access to a UVC Emitter install.
3. Install supplied "Warning" label(s) on all accesses to a UVC Emitter install.
4. Always disconnect power to Emitters before entering a UVC equipped unit.
5. Wipe tube(s) down with the Cleaning Kit wipe prior to Emitter operation. Wear gloves while cleaning tubes.
6. Install a radiometer on any infectious disease or critical care installation. Mount radiometer no more than 12" from a tube in a 90° to a tube.
7. Calibrate Radiometer after the first 100 hours of UVC lamp operation for proper operation
8. Operate the UVC system continuously, do not cycle.
9. Power each DE bank row separately, maximum fixtures per row is 10.

Troubleshooting

- 1) If Emitter tube colour is other than light bright blue or flickers, change it.
- 2) If Emitter fails to light:
 - a) Check power source and voltage
 - b) Check wiring
 - c) Change tube
 - d) Replace power supply or fixture
- 3) If Radiometer does not produce a readout or produces an unusual readout:
 - a) Check power.
 - b) Check module and sensor wiring.
 - c) Check sensor eye for obstruction or angled orientation to lamp.
 - d) Make sure sensor can directly see Emitter at 90° to Emitter tube plane.
 - e) See if Emitter(s) is on.
 - f) Reread installation instructions.

- 4) If a surface or substance appears to have colour when irradiated with UVC (such as green), turn Emitter(s) off and verify with normal light that it is an oxide, etc. being fluoresced.
- 5) If tubes are hot, verify that they are commercial (VO) and not residential (HO or SO) tubes.
- 6) If TV reception is affected (Chs. 2 & 4), check for proper grounding, including the receptacle. Rabbit ears and some 300-ohm lead-ins may be troublesome depending on proximity to fixture.
- 7) If power supply hums and tube is dim, verify that correct tubes are installed.
- 8) If a burning or other foul odor occurs when UVC is first lit, wait 24 to 48 hours before taking action. Any damp organic material or dust irradiated will produce (boil off) above normal VOC for 24 to 48 hours.