



*Designers and Manufacturers of Mobile Health Clinics*

# ADI Technical Bulletin #11

## Freeze Protection Operating Procedures

### **ADI Mobile Clinic w/ Freeze Protection or All Weather Package**

1. Find an adequate building outlet that will support a 15-20 amp draw, and plug in the 120v battery charging extension cord with an adapter to the 50-amp line cord.
2. Turn on:
  - A. The 50-amp main circuit breaker.
  - B. The battery charger converter (**only one – circuit breaker #2**).
  - C. The freeze protection circuit breaker for basement heat bulbs. Visually check to be sure that the heat bulbs are lit. If not, replace the heat bulbs with **100 watt, Rough Duty, Incandescent light bulbs**. Not CFLs.
  - D. The tank pad heat switch (12 VDC).
  - E. The thermostat (12 VDC) breaker.
  - F. Check that the LPG tank is full (if equipped). Turn the tank valve on two (2) full turns, and set the LPG heat thermostat to 50° F (10° C).
  - G. Open the sink cabinet doors.
  - H. Run one cup of **RV anti-freeze** through each unit's HVE vacuum hose(s) and sink drain(s).
  - I. **If the forecast is for below 25° F (-4° C), follow the instructions below, even if you have freeze protection!!**

### **ADI Mobile Clinic w/ NO Freeze Protection (32° F / 0° C or below)**

1. Drain:
  - A. The dental unit water bottle(s)
  - B. The Statim / autoclave and ultrasonic cleaners
  - C. All water tanks, holding tank(s) and pump
  - D. The hot water heater
2. Remove distilled water, drink containers and cans, and other misc. liquids from the clinic.
3. With an air compressor, blow out:
  - A. All dental unit systems, hand piece/purge valves and three-way syringes.
  - B. The water systems, including tanks and water lines, with an air hose adapter, blow-out plug or ADI blow-out system.
  - C. The vacuum system by running one cup of RV anti-freeze through each unit's HVE vacuum hose(s) and sink drain(s).
4. Use **ALL** the freeze protection procedures above to help prevent damage to water pumps, water tanks and lines, drain vales, vacuum pumps, and hand piece control blocks.

#### **ADI Mobile Health - FACTORY**

19425 SW 89th Avenue  
Tualatin, OR 97062 USA  
[www.adi-mobilehealth.com](http://www.adi-mobilehealth.com)

Phone: +1-503-885-0886  
Fax: +1-503-885-0417  
[tech@adi-mobilehealth.com](mailto:tech@adi-mobilehealth.com)  
[sales@adi-mobilehealth.com](mailto:sales@adi-mobilehealth.com)

### **ADI Mobile Clinic w/ LPG Heat (extended periods of < 32° F / 0° C or below)**

1. Make sure the batteries are fully charged and check the water level.
2. Fill the LPG tank.
3. Open the LPG tank valve with two (2) full turns (do not open all the way).
4. Turn off the refrigerators to conserve power.
5. Turn on the 12VDC power to the Thermostats.
6. Set all thermostats to “Heat” or “Gas Heat”, and set the temperature to 50° F (10° C).
7. Open the sink cabinet doors.
8. Check the battery charge level every other day.
9. Run the generator to charge the batteries if needed.

### **ADI Mobile Clinic w/ NO LPG Heat (extended periods of < 32° F / 0° C or below)**

If parked outside in severe weather conditions, with a full gasoline tank:

1. Operate the generator to power the electric heat.
2. Set the temperature to 50° F (10° C).
3. Assure that you have adequate ventilation.
4. Check the dash fuel gauge, generator oil & anti-freeze levels.