

# Frequently Asked Questions About



## Small and Large Scale Smokers

### **My model is almost completely air tight, will my smoke unit work?**

The smoke unit does require airflow into the model through stacks, vents, louvers, or holes greater than the size of the fan on the smoke unit. Intakes in the FRONT of the model, or above the fan will be the most effective.

### **Can my smoke unit run off a car battery?**

A car battery can generate well over 12 Volts and high current well in excess of 875 Amps. All of our smoke units operate on a maximum of either 6 Volts or 12 Volts, and under 3 Amps. A smaller battery that is under 12 Volts, and between 4 Amps and 8 Amps should be used.

### **How do I know if my battery or power supply will work?**

Take a volt meter beforehand, to ensure that it isn't over 6 Volts, 7.2V, or 12 Volts (depending on which model smoke unit you are running). Many batteries put off between 12.8 and 13.2 Volts when fully charged which is too much voltage for the smoke units, therefore a voltage regulator or variable power supply or step-down transformer that would put out the correct voltage is required.

### **How can I run my smoke unit if I only have a large car battery in my model?**

A smaller battery coupled with a 3 Amp voltage regulator or a variable power supply that can handle at least 3 Amps is a viable solution.

### **How do I connect the smoke unit to the rest of my exhaust system?**

Vinyl tubing is the best way to connect to the fittings and it is recommended that the end of the vinyl tubing gets soaked in warm water beforehand to make it more flexible. For dual exhaust, a "Y" Fitting is always preferred over a "T" fitting, that will restrict the output. For the XS, do not force the Fitting into the plastic lid, Small and Large, Do not force the tubing over the brass fitting, or shove anything inside the brass, or it can become dislodged, voiding the Warranty.

### **Can I create black smoke?**

Scale Smokers are designed to put out light grey smoke by means of vaporizing the smoke fluid. The production of black smoke would indicate combustion.

### **Does polarity matter with respect to wiring?**

For the fan, polarity does matter as our fans are not designed to run in reverse. For the heating element, polarity can be reversed as the heating element is designed to work in forward or reverse.

### **What type of fluid does the smoke unit use and how do I know when the unit is full?**

Scale Smoker Fluid is preferred. The top of the black mark on the included dip stick indicates that the unit is full. Never fill the unit with water, or any type of flammable fluid.

### **How do I wire the unit?**

There are detailed wiring diagrams for most applications on our Facebook page: Small and Large Scale Smokers.

### **My Smoke Unit isn't working, what can I do to get it working?**

Double check the Voltage of the Battery, it should be under the Voltage stated on the case of the Smoker, check with a voltmeter, and check the polarity and hook up of the wiring, Check the Fuse if fitted, Check the Fluid Level. You will need to be within 3 Volts of the voltage stated on the side of the case for the smoke to start, check the power into the unit with a Voltmeter. For the XS Unit, gently blow into the tubing to ensure it isn't clogged with fluid.

### **What is the Warranty on the Scale Smokers?**

Small and Large Scale Smokers offers a 1 Year Limited Warranty as long as all of the directions are followed, which includes but is not limited to: Correct voltage being applied, the unit receiving adequate airflow, and the correct type and amount of fluid. If all of the following are applied the unit should run as designed, providing years of enjoyment for the modeler.

### **SCALE SMOKERS ARE PROUDLY DESIGNED, ENGINEERED, TESTED, AND ASSEMBLED IN THE USA!**

Please visit our Facebook page: [www.facebook.com/smallandlargescalesmokers](http://www.facebook.com/smallandlargescalesmokers) for Videos, Wiring Diagrams, and additional information. Any questions that aren't answered here, the Instructions, or on the Wiring Diagrams can be emailed to [scalesmokers@gmail.com](mailto:scalesmokers@gmail.com)