

# Sap Steady Junior UV Treatment for Maple Sap Unpacking and Installation Instructions



## The Equipment

The Sap Steady requires a standard 110 VAC receptacle and draws less than 2 amps. The unit has 2 high power UV lamps with a life of 6,000 hours. The unit can process 4-8 GPM depending on sap clarity. Pump is not included. A typical installation filters the sap at 20 microns prior to treatment. Sap should be treated as soon as possible after collection.

## Unpacking

The Sap Steady unit is shipped without the UV lamps installed to reduce the risk of damage caused by vibration and shock during shipping. The UV lamps are contained in the round shipping tube supported in the foam blocks that also support the Sap Steady unit. Open the carton on the long side by cutting the tape, do not cut the cardboard. Carefully remove the foam block at one end. Grasp the unit by the stainless tubes near the ballast and lift both the unit and the tube containing the lamps out of the box and set it down on a flat surface at comfortable working height, like a table. Orient the unit so that the ballast is on top. Remove the tube containing the lamps by sliding it out of one end and then the other. Remove the foam blocks from the unit so that it rests on the table.

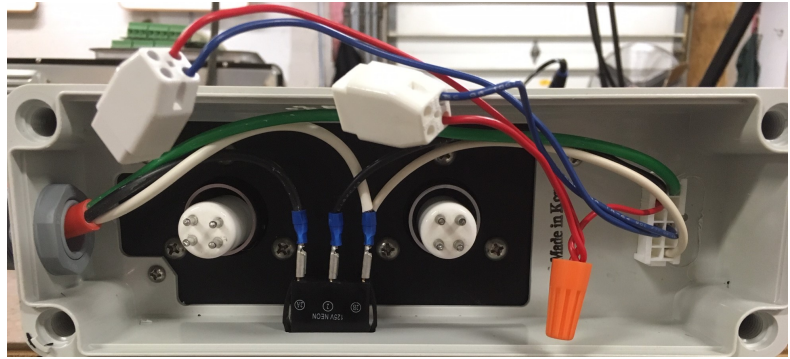
## Installing the Lamps

The first step in installing the lamps is preparing the Sap Steady unit to receive them. Orient the unit so the top of the box at the top of the unit is facing and near the edge of the table. Remove the top of the box by loosening the four screws in the corners. Remove the foam insert from one end of the cardboard tube. This will expose an additional insert that is supporting one end of the lamps. Remove this insert also allowing the lamps to rest on the tube. Grasp one of the lamps by the white ceramic end cap and pull it free of the tube.

**CAUTION: DO NOT touch the glass of the lamp with your bare hands or, in any other way, let it come in contact with anything that may leave trace contamination on the glass surface.**

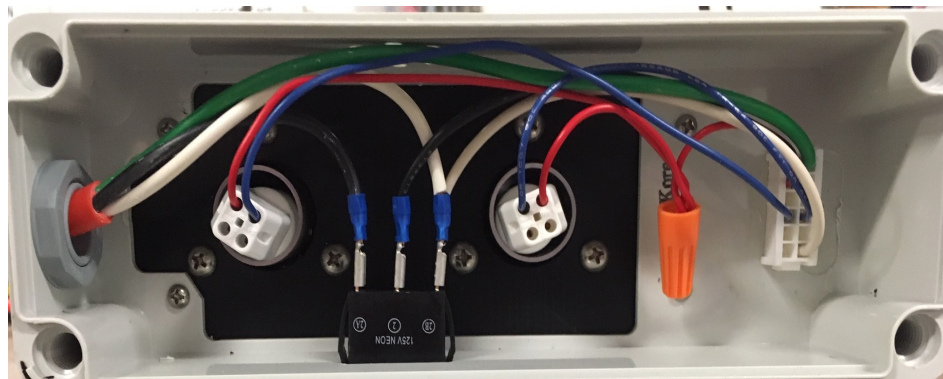
Carefully insert the non-pin end into one of the glass tubes visible inside the open junction box. Repeat this process with the other lamp.

The view into the junction box should be as seen in the picture here.



Grasp the pin end of the lamp by the ceramic cap and install the connector so that it is completely seated on the lamp. Be careful not to exert excessive side force, as this may damage the lamp. Gently slide the lamps into the glass cylinders until they reach the bottom. Do not exert excessive force as this will damage the screens on the bottom of the unit.

View with connectors installed



Reinstall the box cover. The unit is now ready to be mounted and put into service.

### **Mounting and Connecting the Unit.**

The unit should be mounted vertically on a wall or similar structure that is convenient to the point of use. It is intended to be fastened with screws appropriate to the mounting surface using the holes in the metal straps at the top and bottom of the unit. The unit is equipped with straight hose barb fittings for 3/4" flexible tubing. The Sap Steady is furnished with 1/2" NPT female threads and the supplied fittings may be replaced with other fittings if desired. Do not overtighten the fittings as this may damage the plastic endcap. Once the unit is plumbed into your system, as you intend, plug it in to a 115 VAC outlet, that is on a ground fault breaker and it is ready for use. It is turned on by a rocker switch on the junction box that will illuminate when powered on. Do not leave the unit on without fluid running through it as the unit may overheat and damage the components. Do not let the unit sit idel with sap iit After evety use, rinse thoroughly with clean water and drain.

You are now ready to begin treating your sap.

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