



Mr. RC Sound Smoke Machine

BREAK-IN/OPERATING INSTRUCTIONS

The Mr. RC Sound Smoke Machine is a tankless system that uses distilled water and glycerin to make smoke for your electric airplane. The unit is best suited to planes with a wingspan of at least 1300mm. The smoke can be piped out of a rear exit air hole or out to the wingtips. 2 minutes and 15 seconds of run time is what can be safely achieved without harming the unit. We recommend a warm up on the ground for 15 seconds and then a 2 minute run in the air.

For the break in process you will be running the unit at different intervals for three cycles worth of the smoke juice. In flight we are using two 3s 1100mah lipo packs in series. You will need either a handful of 3s batteries at the ready for the break in or you can use a large 6s pack to provide power through the whole break in process. There is no low voltage cutoff. Keep an eye on your voltage. When LiPo voltage is low, you will see less smoke and your batteries will begin to get warm. **CAUTION** – be sure to break in your Smoke System in a well-ventilated area.

Mixing the “Smoke Juice”

- The unit includes a bottle with markings that makes it easy to get the correct mixture of solution every time.
- Make sure you use DISTILLED WATER to mix with the glycerin.
 - 1) Fill the include bottle up to the line marked “glycerin” with glycerin
 - 2) Next add water up to the “full” line on the bottle
 - 3) Mix the distilled water and glycerin by shaking it in the included mixing bottle.

Break in:

- 1) Add 1/6 of the mixture to the unit. The mixture is squirted in a circular motion through the fan on top of the unit every time. Let the mixture soak in for about 1 minute.
- 2) Run unit for 2 seconds (make sure the fan comes on)
- 3) Add 1/6 of the mixture to the unit.
- 4) Run unit for 6 seconds
- 5) Rest 5 seconds
- 6) Run unit for 10 seconds
- 7) Rest 5 seconds
- 8) Run unit for 10 seconds
- 9) Add 1/3 of the mixture. This should leave 1/3 of the solution in the bottle
- 10) Run unit for 30 seconds
- 11) Add last 1/3 of the mixture to the unit after letting it cool for 15 seconds
- 12) Run for 1minute
- 13) Let the system cool for about 30 seconds and add 1/3 bottle of smoke juice
- 14) Run the system for 2 minutes



15) repeat steps 13 and 14

Operating Notes:

- You should be seeing smoke by step 6 of the break in process.
- If your batteries are weak or depleted it will seem as if you have over filled the unit. Don't worry, this is not a problem. Get some fresh 3s packs in series or a large 6 s pack and continue the process.
- Do not run the system dry as damage will result.
- If there is too much smoke juice in the machine, simply add another 15 second run when needed to burn off any excess.
- Each bottle of the smoke juice mixture will yield three flights worth of smoke. The recommended 1100 3s lipo packs in series will yield one run of 2 minutes and 15 seconds (we recommend 15 seconds on the ground and 2 minutes in the air). You must change the smoke system batteries after each flight to produce another 2:15 of smoke.
- The smoke system does generate a fair amount of heat, so it is recommended to let the unit rest a few minutes in between flights. Also, make sure your airplane has plenty of airflow in and around the smoke system (we tested the unit in a FMS 1450mm warbird without issue). This helps dissipate heat created by the smoke system unit itself. You may also want to protect the surrounding foam to prevent any damage from the heat; we placed a thin sheet of plywood between the smoke system and the foam fuselage.
- Make sure the fan is always running. While fan speed is adjustable, it is normally not necessary to change it.

We hope you enjoy what we feel is one of the coolest and most innovative products in the RC Industry. Enjoy and be safe.