







FOG **ENGINE**™ **Owner's Manual**



101918



	 WARNING
	<p>Read and understand operator's manual before using this machine.</p> <p>Failure to follow operating instructions could result in death or serious injury.</p>

	 WARNING
	<p>Improper use may result in fire or injury.</p> <p>Read instructions/safety manual before installing, operating or servicing.</p>

	 WARNING
	<p>Risk of electric shock.</p> <p>Avoid contact with water. This Smoke Generator is not water proof.</p>

	 WARNING
	<p>Wear respiratory protection when prolonged exposure to training smoke or exposure to dense concentrations of training smoke is likely.</p>



	 WARNING
	<p>Do not use Smoke Generators near known asthmatics or those with respiratory illness. Use only in accordance with applicable laws, codes and norms.</p>

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INTRODUCTION

Congratulations on the recent purchase of your new Fog Engine™! The Fog Engine is a professional grade, fog/smoke generator designed by actual fog/smoke generator users. It turns out that everything that we hated about other fog/smoke machines, you do too, so we addressed all those issues in this technologically advanced machine!

We have taken out the fluid pump (a common failure point) and replaced it with an air pump. We created a heat exchanger that allows for complete thermal control, which means it holds the correct temperature for ultimate fog/smoke generation, including continuous fog output as desired. The Fog Engine is made of 304 Stainless Steel which means it is water resistant and readily dissipates heat. You will control your Fog Engine through a user-friendly Bluetooth app interface that allows you to program an unlimited number of Fog Engines, all on one app.

**PROUDLY ASSEMBLED IN THE USA,
USING PRIMARILY USA-MANUFACTURED MATERIALS**



To ensure your Fog Engine™ is producing the absolute safest, most productive fog/smoke and for the longevity of your machine, always **USE SIMPLY FOG™ PROFESSIONAL GRADE FOG FORMULA** (available at www.simplyfog.com or on Amazon or call 608-563-5556).

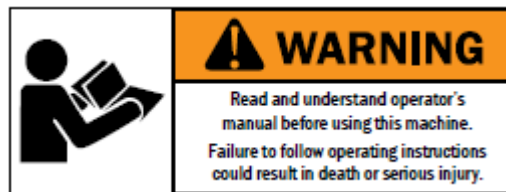
PATENT PENDING

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FOR YOUR SAFETY

1. Do NOT use the Fog Engine™ without reading the entire "User's Manual".
2. Do NOT alter this appliance in any manner.
3. Always use this appliance on a hard, level, non-combustible surface such as concrete, rock or stone.
4. Keep smoke fluid out of reach of children. If smoke fluid comes into contact with eyes, immediately rinse with water.
5. Smoke fluid is not for human consumption.
6. The outlet nozzle, face plate, back plate and outer shell of this appliance will become HOT when in operation. To avoid burns, do NOT touch appliance until it has completely cooled for at least 30 minutes.
7. This appliance should be thoroughly inspected on a regular basis by trained personnel.
8. **Serious injury or damage to property** may occur if these guidelines are not followed precisely.



SPECIAL FEATURES & TECHNICAL SPECIFICATIONS

Special Features

- Bluetooth programmable – iOS or Android format
- Ability to program burst and duration timing, or continuous fog/smoke mode
- On and off time settings
- Ability to control temperature for optimal fog/smoke generation
- Ability to switch to manual mode
- Program memory – holds most recent settings
- Control multiple machines with single app

- 304 stainless steel construction – won't rust
- No fluid pump – rids a common failure point
- No heating coil – rids a common failure point
- Unique heating element – holds temperature dictated by user
- Water resistant design – can use in extreme conditions

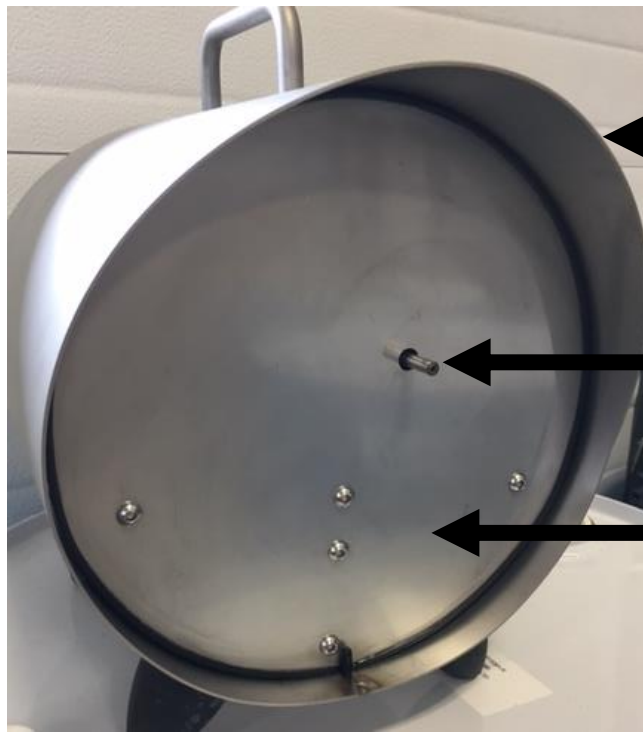
TECHNICAL SPECIFICATIONS	
Electrical Specifications	120 volts, 15 amps, 60 hertz
Dimensions	14" L X 15" H X 11" W
Weight	32 pounds
Power Cord	12 gauge
Tank Capacity	1 gallon size recommended; 5 gallon maximum container
Operating Temperatures (Internal Temp.)	350F to 550F

GETTING STARTED - OVERVIEW

You will need:

1. Fog Engine
2. iOS or Android smart phone
3. Access to the Internet (to download the Fog Engine operating app from Apple's App Store or from Google Play). Search for "Fog Engine Control".
4. Fog/Smoke Fluid – We strongly recommend **Simply Fog™ Professional Grade Fog Fluid**
5. Standard electric service

GETTING STARTED – FOG ENGINE™ SET UP



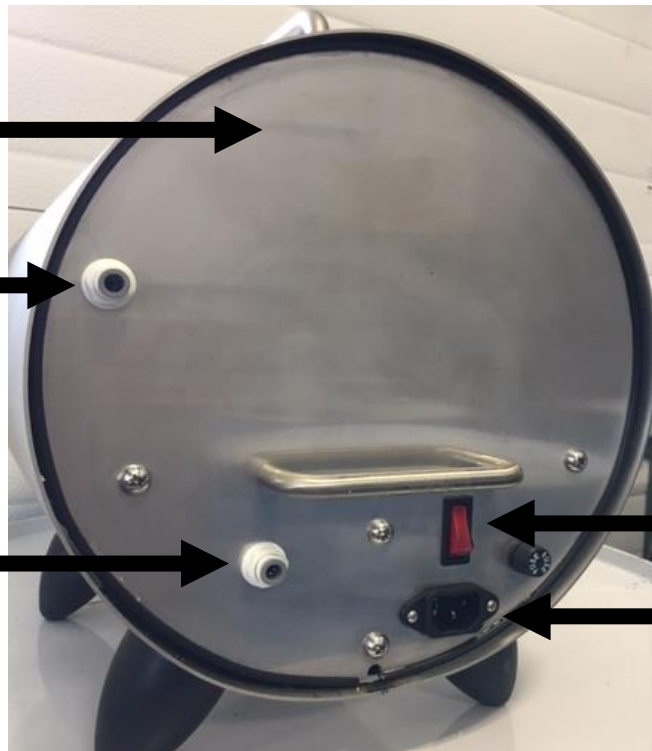
FOG ENGINE FRONT

Outer Shell

Fog Nozzle (Warning! Can Be HOT)

Face Plate

FOG ENGINE BACK



Back Plate

Fluid Intake Hose
Connector (tube with
smaller opening: .125")

Air Output Hose
Connector (tube with
larger opening: .170")

Power Switch

Power Cord
Connection



Fluid Filter (on end of fluid line – goes into container of fog/ smoke fluid)



Rubber Stopper with Air Output and Fluid Intake Hoses



Rubber Stopper attached to gallon of fog/smoke fluid.

Fluid filter on the end of the fluid line is submerged inside container.

GETTING STARTED – DOWNLOAD FOG ENGINE BLUETOOTH OPERATING APP

Android phone: Go to the Google Play Store and download SimplyFog Fog Engine app. Search for “Fog Engine Control”.

Apple iOS phone: Go to the Apple App Store and download SimplyFog Fog Engine app. Search for “Fog Engine Control”.

If you have issues or cannot find the app in these stores, please call 608-563-5555 or email support@simplysolutions.com and our staff can forward the app to you.

OPERATING YOUR FOG ENGINE

1. Find bag with rubber stopper and connector tubes.
2. Insert tubes, fluid filter and rubber stopper into a full gallon container of fog fluid. **Make sure rubber stopper is tight**, so pressure can build in the fog fluid container.
3. Identify the tube/line with the smaller opening (inner diameter .125”). This is the fluid intake line. It is the same line attached to the fluid filter. Attach that line to the top left white “fluid intake hose” connector on back of machine. Push to connect.
4. The line/tube with the larger opening (inner diameter .170”) is the air line and should be connected to the lower center white “air output hose” connector on back of machine. Push to connect.
5. Plug your Fog Engine into a grounded 120 volt outlet.
6. Turn the red toggle power switch located at the back of the Fog Engine to the "on" position (light will illuminate).
7. Turn your attention to your Fog Engine App Interface:
 - a. Open the app and wait for about two minutes. This allows the computer in the machines to boot up.
 - b. The app will automatically scan and connect with the Fog Engine. If this doesn't happen, go to the “connections” button at the top of the app and scan for nearby devices. This will show available connections.
 - c. If you are connecting more than one Fog Engine, all machines need to be connected separately. It can take up to 2 minutes for the app to connect with each machine. You can switch between machines on the app connections list.
 - d. Below the “connections” button on app control screen, move the “system power” button to “on”.

- e. It is recommended to only use **Simply Fog Professional Grade Fog Formula**. If doing so, use the “Simply Fog” setting to get the safest, most productive fog/smoke. When in this setting your Fog Engine will automatically preheat to 550 degrees, which is the optimal temperature for our NON-GLYCOL Simply Fog formula.
- f. If you are using any fog/smoke fluid **other than** Simply Fog, you must set the machine to that manufacturer's recommended temperature setting to produce their desired fog/smoke output. That temperature is usually no higher than 365F degrees; but **be sure to contact the manufacturer** for their recommendation.
*****WARNING-the operating temperature of glycol-based fog fluids is going to be lower than Simply Fog. Fluids based on any of the five glycol types have increased risk of off-gassing formaldehyde at high temperatures*****
8. Once you have set your target temperature you can either set the machine to run and pump fog/smoke continuously, or set the interval and duration according to your needs. The interval is the time between each burst of fog and the duration is the length of time that the fog will be pumping out of the Fog Engine. You can also use the “push to fog” button to manually burst fog. This overrides the interval and duration settings but does not disable them.
9. Move the app “start your engine” toggle to the “on” position. Once you do this, the Fog Engine will heat to the set temperature. **It could take up to ten minutes to reach the correct temperature.** Please note: to pump fog/smoke continuously, allow the Fog Engine to heat up for thirty minutes.
10. Note: **It might take up to two minutes for fog to be produced after you first press the “push to fog” button.**
11. The app “timer” settings can be used to automatically turn the machine on and off.
12. To manually turn off your Fog Engine, turn the app “system power” to the off position. Also turn off the red power switch on the back of the machine.
13. *****WARNING: The outlet nozzle, face plate, back plate and outer shell of this appliance will become HOT when in operation. To avoid burns, do NOT touch appliance until it has completely cooled for at least 30 minutes.*****
14. To disconnect hoses, simply push white tube connectors toward machine and pull tubes out. **BE SURE TO DISCONNECT THE AIR HOSE FIRST**, then disconnect the fluid hose.

HOW TO CARE FOR YOUR FOG ENGINE

For best results, use **Simply Fog™ Professional Fog Formula**. Purchase at www.simplyfog.com, or through Amazon, or call 608-563-5556, or email sales@simplysolutions.com.

Service

The Fog Engine had been designed to require minimal maintenance or service. If service is necessary, please call 608-563-5555 or email support@simplysolutions.com.

Annual Maintenance & Storage

If you have only used **Simply Fog™ Professional Fog Formula**, there is no need to clean the Fog Engine. Just empty a gallon container, set up the machine as normal and run the machine for three minutes or so to force air through the unit.

If you have used other fog fluids, the Fog Engine should be flushed approximately every six months. Remove any remaining fluid and run approximately one pint (or more as necessary) of cleaning solution, or a 50%/50% mixture of white vinegar and distilled water. Then empty a gallon container, set up the machine as normal and run air through the unit for approximately three minutes.

IMPORTANT POINTS

Water Resistance

The Fog Engine was designed with outdoor haunt owners and Firefighters in mind. Under normal use and with the 304 Stainless Steel and the cylinder design, the Fog Engine will not rust. All electronics have been treated for water resistance and each interior quadrant of the Fog Engine is separated by 304 Stainless Steel dividers. However, it is **NOT waterproof**, so **do not submerge the unit**.

Choose the Correct Fog Formula

The use of **Simply Fog™ Professional Grade Fog Formula** is **STRONGLY RECOMMENDED** because it is the safest, most productive fog/smoke formula you can buy. It **will not generate noxious fumes** or off-gas formaldehyde like most other fog/smoke formulas. It **will not create mineral deposits** that can damage your machine. Finally, Simply Fog™ **produces 33% MORE fog/smoke** with the same amount of fluid, saving you money.

Simply Fog™ Professional Grade Fog Formula is available at www.simplyfog.com or via Amazon. Or call 608-563-5556 or email sales@simplysolutions.com.

Thermal Control

If you are using a fog/smoke fluid **other than** Simply Fog™ Professional Grade Fog Formula, look up the manufacturer's suggested heating temperature and set the machine to that temperature. If you are using **Simply Fog**, just use the "Simply Fog" setting to get the safest, most productive fog/smoke available.

Power

Always inspect the power cord before use. Always connect your Fog Engine to a grounded power connection that is capable of supplying sufficient current. The use of an extension cord is not recommended, but if it proves necessary, only use a grounded extension cable that is a minimum 12 gauge wire.

If you are using a generator to power your Fog Engine, be sure to incorporate a DC converter, line conditioner or voltage stabilizer to protect the electronic components from power surges.

WARRANTY INFORMATION

The warranty period shall begin on the ship date and continue for one full year, unless otherwise noted in writing. Labor related to warranty repair is covered free of charge during this warranty period. Repair work, however, requires the prior approval of an authorized company official. This warranty covers labor and parts related defects. This warranty does not cover neglect, accidents, misuse, or negligence on the operator's part.

CONDITIONS & LIMITATIONS

Simply Solutions LLC warrants its products against manufacturing defects to the original purchaser only--i.e. the individual or legal entity (registered customer) whose name appears on the invoice for the Fog Engine, provided that the purchase was made through Simply Solutions LLC. or an authorized Fog Engine dealer and is subject to the following conditions and limitations:

This factory warranty is nontransferable and may not be extended whatsoever by any of our representatives.

Assembly and use must be done in accordance with the instructions included with the product.

This Limited Warranty does not cover any damage caused by misuse, accident, alterations, abuse or neglect, and parts installed by other manufacturers will nullify the warranty.

This Limited Warranty does not cover any scratches, dents, corrosion, or discoloring by heat or abrasive materials.

After the first year unless otherwise noted in writing, Simply Solutions LLC. will not be responsible for replacement part expense, installation, labor or any other costs or expenses related to the reinstallation of a replacement part, and such expenses are not covered by this warranty. Notwithstanding any provisions contained in this Limited Warranty, Simply Solutions LLC's responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages.

This warranty defines the obligations and liability of Simply Solutions LLC with respect to the Simply Solutions LLC product and any other warranties expressed or implied with respect to this product.

This limited warranty does not cover damages resulting from the use of components not supplied with the appliance, or the use of smoke/fog liquid. Any damages to the Fog Engine due to weather, long periods of dampness, condensation, damaging chemicals or cleaners will not be the responsibility of Simply Solutions LLC.

The bill of sales or copy will be required together with a serial number when making any warranty claims from Simply Solutions LLC or authorized dealer.

Simply Solutions LLC reserves the right to have its representative inspect any product or part thereof prior to honoring any warranty claim.

Simply Solutions LLC or its representatives shall not be liable for ANY transportation charges, labor charges or duties.

DISCLAIMER OF LIABILITY

Every effort has been made to ensure that the safety information on this sheet is accurate, however Simply Solutions, LLC has no control over the conditions under which the product will be used, therefore liability is limited exclusively to replacement or refund of the purchase price of this product. Except as stated herein, there are no express or implied warranties, including implied warranties of merchantability or fitness for a particular purpose. Simply Solutions LLC assumes no liability for injury or incidental or consequential damages arising out of storage, handling or use of this product.

FREQUENTLY ASKED QUESTIONS

Can I use other fog fluids other than Simply Fog in my Fog Engine?

Yes, but we strongly recommend using Simply Fog Professional Grade Fog/Smoke Formula because: 1) It will not generate noxious fumes or off-gas formaldehyde like most other fog/smoke formulas. 2) It will not create mineral deposits that can damage your machine. 3) Simply Fog™ produces 33% MORE fog/smoke with the same amount of fluid, saving you money.

I'm using Simply Fog formula; what heat setting should I use?

The app and machine are specially matched to the Simply Fog formula. Just use the "Simply Fog" setting on the app and you'll be good to go!

I'm using a fog other than Simply Fog; what heat setting should I use?

Please consult the manufacturer of the fog formula you are using for the correct temperature setting.

Can I program more than one Fog Engine on my app?

Yes! That is one of the advantages of the Fog Engine system. Just connect to each machine and name them on your app. Then program each to the settings you desire.

Does the Fog Engine have to be next to the reservoir of fog fluid?

No it doesn't. You can use longer fluid and air lines connecting the Fog Engine to the fluid reservoir, but please note it may take longer to pressurize the system.

Can I mount the Fog Engine to something?

Yes. You can use the top handle to hang the Fog Engine. Also, the feet can be unscrewed and the machine can be mounted for a custom set-up.

Can I connect using DMX controls? Or Is there another way other than the Bluetooth app to control my Fog Engine?

At this time the only way to control the Fog Engine is by using the Bluetooth app.

If I turn off the machine, will I lose my programming (temperature, burst frequency, burst duration)?

The Fog Engine will retain the last settings that were programmed as long as power remains. If all power is turned off, you will need to reprogram the settings.

TROUBLESHOOTING

My machine seems to be running but is not generating fog / smoke.

Please double check the fog/smoke fluid level and all fluid and air tube connections. Make sure the Fluid Line is connected to the Fluid Intake Hose Connector and the Air Line is connected to the Air Output Hose Connector and the lines are not switched.

I lost power to my machine and my app disconnected.

Once power is restored to the Fog Engine, restart the control app, re-select the correct machine and reprogram as desired. The Bluetooth reconnection may take 1 to 2 minutes.

My app disconnected and I'm having trouble reconnecting my Bluetooth app to my machine.

Unplug the Fog Engine(s) for 60 seconds and then restart the machine and then the app and repeat the programming settings. The Bluetooth reconnection may take 1 to 2 minutes.

My machine doesn't seem to have enough power.

We recommend against using extension cords, if possible. Be sure that all power cords are grounded and have at least 12 gauge wire. If you are using a generator to power your Fog Engine, be sure to incorporate a DC converter, line conditioner or voltage stabilizer to protect the electronic components from power drops and surges.

The machine is pushing out liquid, not fog.

Be sure the system is air-tight (rubber stopper is tightly seated in the fluid container and there is pressure built up in the system) and the machine is at the correct temperature.

For other questions or concerns, please check www.simplyfog.com, email support@simplysolutions.com or call 608-563-5555.