

# UNIVERSAL FOGGER MKIII



**JEM**

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## ***USER MANUAL***

*Version 2.0*

FOR OPTIMUM PERFORMANCE AND SAFETY  
PLEASE READ THIS MANUAL THOROUGHLY

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*Note: JEM reserve the right to make changes to specifications without prior notice.*

## ● Introduction

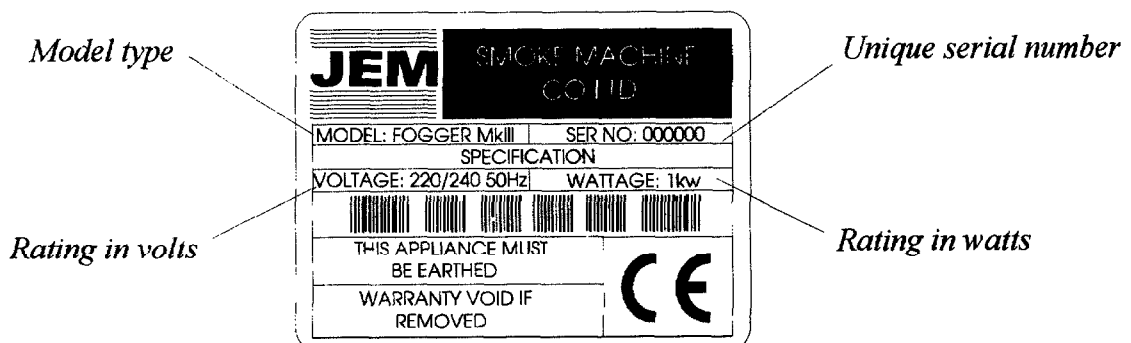
The *JEM UNIVERSAL FOGGER MkIII* is a high powered portable smoke generator, capable of producing smoke effects for many different applications. The robust chassis and hand built quality ensure the *FOGGER's* reliability, this backed with the *JEM* five year warranty make the *FOGGER* one of the best choices around.

With the flexibility of the *JEM* fluid range and various ducting pieces you can create the effect you need. The sophisticated electronics and heat sensor device allow full control over the output including a comprehensive timer function. Even the aluminum heating chamber is made in-house by *JEM*.

Unlike most manufacturing environments *JEM* ensures quality by assigning one person to build the finished machine, this person has the responsibility of ensuring every component is correct and fitted properly, this produces a pride in their work which cannot be achieved by mass production.

## ● Machine information

Your machine comes with a unique serial label. This tells you the serial number the model number and the most important thing the voltage requirements. Before using your machine please check this to ensure you have the correct power supply for the machine. If you do not have the correct power supply or are unsure please contact the company where you purchased the machine and ask for advice.

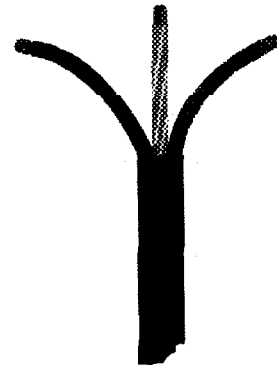


## ● Safety

- *Always read these instructions thoroughly*
- *Always use the correct JEM fluid*
- *Never use this machine above peoples heads*
- *Always Use in well ventilated areas*
- *Always clean up fluid spills immediately*
- *Always connect to the correct mains supply*
- *Never spill fluid over the machine*
- *In the event of a fault contact an authorized dealer*
- *Never touch the pipe at the front of the machine*
- *Do not use the machine if you suspect a fault*
- *Never operate the machine without fluid*

### ● **CONNECTING THE MAINS PLUG**

BROWN WIRE.....LIVE (L)  
BLUE WIRE.....NEUTRAL (N)  
GREEN/YELLOW WIRE.....EARTH (E)



● **NOTE! THIS APPLIANCE MUST BE EARTHED**

## ● UNIVERSAL FOGGER MkII FEATURES

- *High power 1kw heating chamber*
- *1 litre fluid container*
- *Comprehensive remote control*
- *Precession platinum sensing device*
- *Thermal protection device*
- *High specification CE electronics*
- *High powered oscillating piston pump*
- *External fuse and mains switch*
- *Electronic output ramping feature*
- *Robust powder coated chassis*
- *JEM five year warranty*

## ● GETTING STARTED

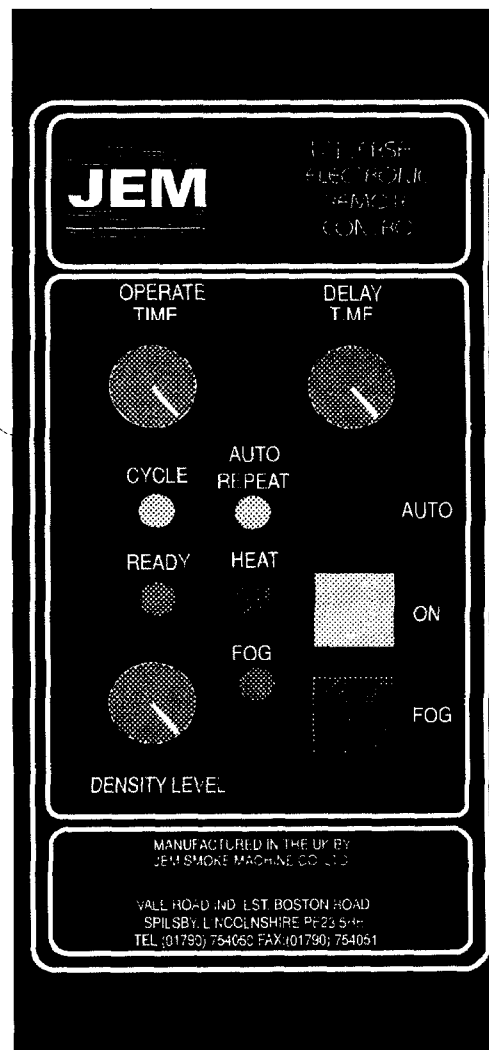
Please follow this guide when operating the UNIVERSAL FOGGER MkIII. If you do not follow these instructions carefully your machine may not work correctly and you could cause damage to some components. If you have followed this guide and the machine is not working correctly see the section Appendix A in this manual.

1. Check the mains power supply and ensure this is suitable for this machine.
2. Check to make sure the plug fitted to the mains lead is correct for the mains socket and is of suitable power requirements.
3. Connect a container of *JEM* smoke fluid by removing the cap off a new *JEM* fluid container and connecting the fluid pipe and cap to the new container, ensuring the clear fluid pipe is submerged in fluid.
4. Connect the *JEM UNIVERSAL REMOTE CONTROL* to the 5 pin *DIN* connector which is fastened to the chassis of the machine.
5. Connect the mains plug to the power supply and switch on at the power supply.
6. Switch the mains switch on at the rear of the machine (this will illuminate when power is connected and switched on).
7. Press the “**ON**” button which is on the remote control.
8. Check that the red “**HEATING**” LED is lit on the remote control.
9. Wait a few minutes while the machine reaches the correct temperature until the green “**READY**” LED is lit on the remote control.
10. Check the position of the “**DENSITY LEVEL**” knob. This should be set to the maximum clockwise position.
11. Position the machine to the required position.
12. By pressing and holding down the red “**FOG**” button the pump will operate. If no smoke is generated wait a few seconds until the clear fluid pipe has fluid passing through and then smoke will be produced.
13. Once smoke is produced you may set the output level to the desired setting by turning the “**DENSITY LEVEL**” knob to the required position.
14. Once enough smoke has been produced release the “**FOG**” button and the effect will stop. You can now set the timer or use the “**FOG**” button to create smoke. For a more detailed guide on using the remote control see the section in this manual “*using the remote control*”.
15. If the fluid runs out you must stop using the machine and add more fluid failure to do so could damage some components in the machine.
16. Once you have finished using the machine simply switch of the “**AUTO**” button if you have been using the timer, then depress the “**ON**” button and then switch off the machine with the mains switch.

## ● USING THE REMOTE CONTROL

The UNIVERSAL REMOTE CONTROL is a comprehensive controller for your smoke machine. You can control every aspect from the density level to the amount of time the machine runs for. Listed below are the various functions and how to use them.

### *JEM UNIVERSAL REMOTE CONTROL*



### Remote control functions:-

1. **OPERATE TIME:** This determines the length of time the machine operates for when the "AUTO" button is engaged, turning the knob clockwise increases the amount of time the machine will create smoke. Turning anticlockwise will decrease the time. The operate time can be set from 5 seconds to 45 seconds.
2. **DELAY TIME:** This determines the length of time the machine delays when the "AUTO" button is engaged. Turning the knob clockwise increases the delay time from 10 seconds to 120 seconds. Turning the knob anticlockwise will decrease the length of time.
3. **CYCLE LED:** This LED is yellow and will light when the machine is producing smoke when in "AUTO" mode. If the LED is not lit the machine is either not in auto mode or the machine is delayed and will operate shortly.

## ● USING THE REMOTE CONTROL

4. **AUTO REPEAT LED:** This LED is green and lights when the “AUTO” button is engaged, depressing the “AUTO” button will turn the LED off.
5. **AUTO BUTTON:** The “AUTO” button is used to engage the timer function, when this is used the machine will operate automatically depending on how the “OPERATE” and “DELAY” time knobs are set. When this mode is used the user still has control of the density level. To stop the machine operating in the auto mode depress the “AUTO” button.
6. **READY LED:** This LED is green and is lit only when the machine has reached the correct operating temperature. When this LED is lit you can operate the machine and create smoke, if the LED is not lit the “AUTO” mode and the “FOG” button will not be operational.
7. **HEATING LED:** This LED is red and is lit when ever the machine is heating, the machine has to be at the correct temperature in able to create smoke. This LED may be on at the same time as the “READY” LED this means the machine is heating but able to operate.
8. **ON BUTTON:** This is the main button on the remote control, this should be depressed when you need to use the machine. Even if the machine is turned on at the mains switch you will not be able to operate it if this button is not engaged. When you have finished using the machine simply depress the “ON” button and the machine will go into stand-by.
9. **FOG LED:** This LED is green and will light when you hold down the red “FOG” button, this indicates the machine is been operated and is creating smoke. (If at any time you are depressing the “FOG” button and the “FOG” led is lit but no smoke is produced try turning the “DENSITY LEVEL” knob clockwise to maximum).
10. **FOG BUTTON:** This button is used to create the smoke, when the machine is at the correct Temperature and the button is held down smoke will be produced. This button is still operational when the remote is in “AUTO” mode.
11. **DENSITY LEVEL:** This knob is used to vary the amount of smoke produced, turning fully clockwise will give maximum output turning anticlockwise will decrease the amount of smoke that is produced. Please note if the knob is turned fully anticlockwise no smoke may be produced, if this happens turn clockwise until smoke is produced.



## ● APPENDIX A

### ● *Trouble shooting*

This is a quick guide to simple faults that could occur on your machine. This guide presumes that the machine is connected to the correct power supply and has sufficient fluid in the container.

<i>Symptom</i>	<i>Possible Causes</i>	<i>Cure</i>
The mains switch does not light when I switch the machine on.	Power is not connected from mains supply / the mains fuse is faulty.	Check to make sure the mains power is connected / check and replace mains fuse if faulty.
No "HEAT" LED on the remote.	The remote control is not connected to the machine / the "ON" button has not been engaged.	Check and connect the remote control is plugged into the machine / depress the "ON" button.
No "READY" LED on remote.	The machine has not reached the correct temperature yet / the machine has at some time overheated and caused a thermal trip to activate.	Wait a few more minutes to see if the "READY" LED lights / contact your supplier to ask advice on resetting the thermal trip.
No smoke is produced when I press the "FOG" button even though the "READY" LED is lit.	The clear fluid pipe is not submerged in fluid / the "DENSITY LEVEL" knob is not at correct setting.	Check to make sure the end of the clear fluid pipe is submerged in fluid / turn the "DENSITY LEVEL" knob fully clockwise.
No smoke is produced when I engage the "AUTO" button.	Machine not up to temperature / "ON" button not engaged / Timer settings not set correctly.	Check that "READY" LED is lit / check that the "ON" button is engaged / adjust the "DELAY TIME" knob to fully anticlockwise.
Very low amounts of smoke produced.	Low fluid level in container / "DENSITY LEVEL" knob set incorrectly.	Check that the fluid level is sufficient / turn "DENSITY LEVEL" knob fully clockwise.

If you have a fault not described in this table or you cannot fix a fault described here contact the company where you purchased the machine from or alternately call JEM for advice. Do not attempt to fix problems yourself, you must seek advice from an authorized JEM dealer.

## ● APPENDIX B

### ● *General Maintenance*

The JEM UNIVERSAL FOGGER is a well built robust machine but care should be taken when using and transporting the machine. Any equipment that uses a fluid may be prone to spills. If fluid is spilt on the chassis it must be cleaned off immediately using a cloth and clean water, if fluid is spilt inside the machine do not use it., Contact an authorized JEM dealer for advice.

Under certain conditions smoke machines may cause condensation to form, if you notice condensation forming around the front output of the machine clean with water. Do not touch the nozzle or cowling if the machine has been used within the past twelve hours, it could still be very hot.

If the mains lead becomes worn or damaged do not use the machine, you must have the lead replaced by a professional. Using the machine in this condition could be dangerous.

Whenever possible it is best to transport the machine in the original box. This will help prevent damage to the chassis and other components.

## ● CONTACTING JEM

### ● ADDRESS

**JEM SMOKE MACHINE COMPANY LIMITED  
VALE ROAD INDUSTRIAL ESTATE,  
BOSTON ROAD, SPILSBY,  
LINCOLNSHIRE,  
PE23 5HE,  
ENGLAND.**

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**FAX: (+44) (0) 1790 754051**

### ● E-MAIL ADDRESS

***fogger@jem.prestel.co.uk***

**● Please contact JEM if you require any further information regarding the UNIVERSAL FOGGER or any JEM product.**