

↘ **MAGICFX<sup>®</sup> FLAMANIAC**

PRODUCT CODE : MFX1301  
VERSIE / VERSION : 1.2  
DATUM / DATE : 01.07.2011



## CE MARKING

This machine bears the CE marking. This means that the Flamaniac meets the applicable European Directives. The accompanying Statement of Understanding indicates these guidelines.



Use the Flamaniac only under the rules and instructions from this manual. Contact MAGIC FX in case of doubts about the usage.

***We assume that you, your employees and others who use or come in contact with the machine are familiar with how the machine should be handled. This includes proper use, maintenance and repair of the machine as defined in this user guide. This also means that employees are familiar with the use of machinery through training or experience.***

Disclaimers:

MAGIC FX B.V. excludes liability for unsafe situations, accidents and damages resulting from:

- Ignoring warnings or regulations as shown on the Flamaniac or in this documentation.
- Use for other applications or circumstances other than those indicated herein.
- Changes to the Flamaniac. This includes the use of non original spare parts.
- Insufficient maintenance.
- The unauthorized removal of safety covers and/or safetys.
- The improper use of the machine.

MAGIC FX B.V. is not liable for the damages caused by failure of the Flamaniac.

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MAGIC FX reserves the right to make changes at any time to be marketed directly without the knowledge of the customer. The contents of this manual can also be altered.

Please contact the technical department or your supplier for additional information concerning e.g. maintenance and repairs. This manual has been constructed with the greatest care. MAGIC FX cannot be held responsible for errors in the publication or for the consequences.

## DECLARATION OF CONFORMITY

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**DECLARATION OF CONFORMITY**  
(according to IIA of the machinery directive)



---

On the machinery directive.  
We; MAGIC FX B.V.  
Industrieweg 16  
5281 RW Boxtel  
Nederland

Declare under our sole responsibility:  
We are the manufacturer of the product:

**MFX1301 – MAGICFX® Flamaniac**

to which this declaration relates is in conformity with the following standard(s) or other normative document(s).

- 2006/42/EG (Machinery)
- 97/23/EG (Pressure Equipment Directive)
- 98/37/EG (EU Machinery)
- 73/23/EWG (Low Voltage Directive)
- 89/336/CEE (Electromagnetic Compatibility)

The following harmonized standards were applied:

- NEN-EN-ISO 12100-1
- NEN-EN-ISO 12100-2
- NEN-EN-ISO 13850
- NEN-EN-ISO 13732-1
- NEN-EN 60204-1

City: Boxtel  
Date: 27-04-2011

Name: MAGIC FX

A handwritten signature in black ink, appearing to be 'B. Veroude', written over a horizontal line.

General Director: B. Veroude





## FOREWORD

This manual describes the MAGICFX® Flamaniac. The information in this manual is important for the proper and safe operation of the Flamaniac. If you are not familiar with the installation, operation, preventative maintenance, etc. of the Flamaniac, please read this manual from beginning till end well. MAGIC FX also calls for any new users (operators, installers, maintenance people and possibly cleaners) to get a workout, with this manual as a basis.

MAGIC FX recommends that the original of this manual and attachments in a secure central location is kept. Another copy of this manual is best kept in the working area, close to the Flamaniac.

If you are familiar with these things, you can use this guide as a reference.

To focus attention on specific issues or actions, the following conventions are highlighted in this user guide.

	<p><b>TIP:</b> <i>Gives you suggestions and advice to perform specific tasks easier or more convenient.</i></p>
	<p><b>ATTENTION:</b> <i>A note contains additional information, creates attention to possible problems.</i></p>
	<p><b>CAREFUL:</b> <i>The machine can be damaged if the procedures are not ran carefully.</i></p>
	<p><b>WARNING FOR DANGER:</b> <i>You can (seriously) hurt yourself when you don't perform the procedures carefully.</i></p>

## Index

<b>CE MARKING .....</b>	<b>1</b>
<b>DECLARATION OF CONFORMITY .....</b>	<b>2</b>
<b>FOREWORD .....</b>	<b>3</b>
<b>1. INTRODUCTION .....</b>	<b>5</b>
1.1 FLAMANIAC DESCRIPTION AND APPLICATION .....	5
1.2 FLAMANIAC IN GENERAL .....	6
1.3 SPECIFICATIONS OF THE FLAMANIAC .....	6
1.4 SAFETY MEASURES .....	6
<b>2. SAFETY .....</b>	<b>7</b>
2.1 INTRODUCTION .....	7
2.2 GENERAL SAFETY RULES .....	7
2.3 WARNING MESSAGES .....	8
<b>3. PARTS .....</b>	<b>10</b>
3.1 FLAMANIAC .....	10
3.2 FLAMANIAC REMOTE .....	11
<b>4. ACCESSORIES .....</b>	<b>12</b>
4.1 POWER EMERGENCY STOP .....	12
<b>5. PREPARATIONS; INSTALLATION .....</b>	<b>13</b>
5.1 REFILLING THE FLAMANIAC .....	13
5.2 CONTROLLING THE FLAMANIAC .....	13
5.3 FIRE ANGLES .....	14
<b>6. INSTALLING .....</b>	<b>15</b>
6.1 PROGRAMMING THE FLAMANIAC .....	15
6.2 DISPLAY SCREEN .....	15
6.3 STATUS LED'S .....	15
<b>7. MANUAL .....</b>	<b>16</b>
7.1 SAFETY PRECAUTIONS .....	16
7.2 TECHNICAL SPECIFICATIONS .....	16
7.3 WORKPLACE .....	17
7.4 BEFORE USAGE .....	17
7.5 MOUNTING .....	17
7.6 OPERATION .....	17
<b>8. WORKING WITH FLAMANIAC FLAME FLUID .....</b>	<b>18</b>
<b>9. TURN OFF THE FLAMANIAC .....</b>	<b>18</b>
<b>10. TROUBLESHOOTING AND REPAIR .....</b>	<b>19</b>
<b>11. MAINTENANCE .....</b>	<b>19</b>
<b>12. GUARANTEE .....</b>	<b>20</b>
<b>13. WARNINGS AND ADVICES .....</b>	<b>21</b>

# 1. INTRODUCTION

## 1.1 FLAMANIAC DESCRIPTION AND APPLICATION

The Flamaniac is an unique device with an abundance of creative possibilities as well as safety features for the special effects industry. The housing of the Flamaniac is made of stainless steel as well as other high-quality components enabling you to achieve a sustained safe operation.



Photo 1: MAGICFX® Flamaniac

## 1.2 FLAMANIAC IN GENERAL

The Flamaniac unit and its software, is designed for deployment in both indoor and outdoor shows. The Flamaniac is unique in its kind because there is no gas used in any form. The Flamaniac is a Plug and Play operating system, i.e., self-supporting out of the box. When using the Flamaniac - Take into account that an available height of at least 9 Meters (27 Feet) of area is available as the FLAME LENGTH is approximately 6 Meter (18 Feet), in Height. The Flamaniac nebulizes flammable liquid which could ignite when it gets in contact with other substances, even if the substance is not flammable itself. THINK OF CURTAINS, TRUSSES, ROOF LIGHTS, and any PLASTIC surface. The Flamaniac can, and should, only be used with the specifically developed fluid in the following colors: Red, Yellow, Blue and Green. These are the ONLY COLORS AVAILABLE at this time.



**WARNING FOR DANGER:**  
**Do not attempt to mix colors.**

When the Flamaniac is used outdoors please take into account that any wind can, and will affect the Flamaniacs display effect. Therefore: be certain that your Flamaniac Unit is PROTECTED FROM ANY RAIN, WIND or MOISTURE! The Flamaniac is equipped with an internal Pressure Measurement Device.

These measurements make certain that the fluid is always at the right pressure. This is done to ensure continuous quality flames at no drop formation. The pump will be turned fully automatic on and off, depending on the pressure and frequency you toggle the Flamaniac.

## 1.3 SPECIFICATIONS OF THE FLAMANIAC

On average, the Flamaniac will be able to fire for 5 seconds continuously, before the Flamaniac reaches its minimum pressure and will be temporarily disabled. Now, the system will automatically repressurize. When the Flamaniac is used in a situation where the rate between rest and fire is 50 percent you will be able to fire continuously without any interference at 5 seconds. The Flamaniac is equipped with a 2.5 Liter Tank which gives you 300 to 500 shots depending on the selected pulse time of the flame selected. If the Flamaniac is placed in a permanent arrangement it is possible to hook up an external tank with a larger capacity. The Flamaniac is designed in such a way that it can be built into a stage so that the top of the Flamaniac is at the same height as the stage. The Flamaniac is designed to be used on 230 Volt and 50 - 60 Hz. The energy consumption is not more than 200 Watts. The fuse is located below the power socket and should only be set to 1 A. The fuse ensures the maximum current running through the electronics and WILL MELT if the maximum current is exceeded.

## 1.4 SAFETY MEASURES

We have implemented the Flamaniac with several safety measurements. Such as: A tilt sensor, which will be activated if the Flamaniac is tilted more that 40° degrees in any direction. This tilt sensor will, if triggered, turn off the Flamaniac. Another safety measure we took is a Pressure Meter. If the internal pressure is not sufficient for any reason, the Flamaniac will be disabled!



**CAREFUL:**  
**The minimum and maximum rates of the pressure can NOT be changed!**

## 2. SAFETY

### 2.1 INTRODUCTION

The MAGICFX® Flamaniac must be placed and used in a preferably environment which:

- Has a fairly constant temperature between 0 and 30°C;
- Has a relative humidity of 75%;
- Is reasonably free from dust, corrosive gases and high concentrations of organic vapors;
- Is not in the vicinity of a vibration source;

The Flamaniac is designed and constructed so it can be used safely. This applies to the application, conditions and requirements as described in this document. Reading this documentation and following the instructions are necessary for anyone who is competent to work with the Flamaniac.

### 2.2 GENERAL SAFETY RULES

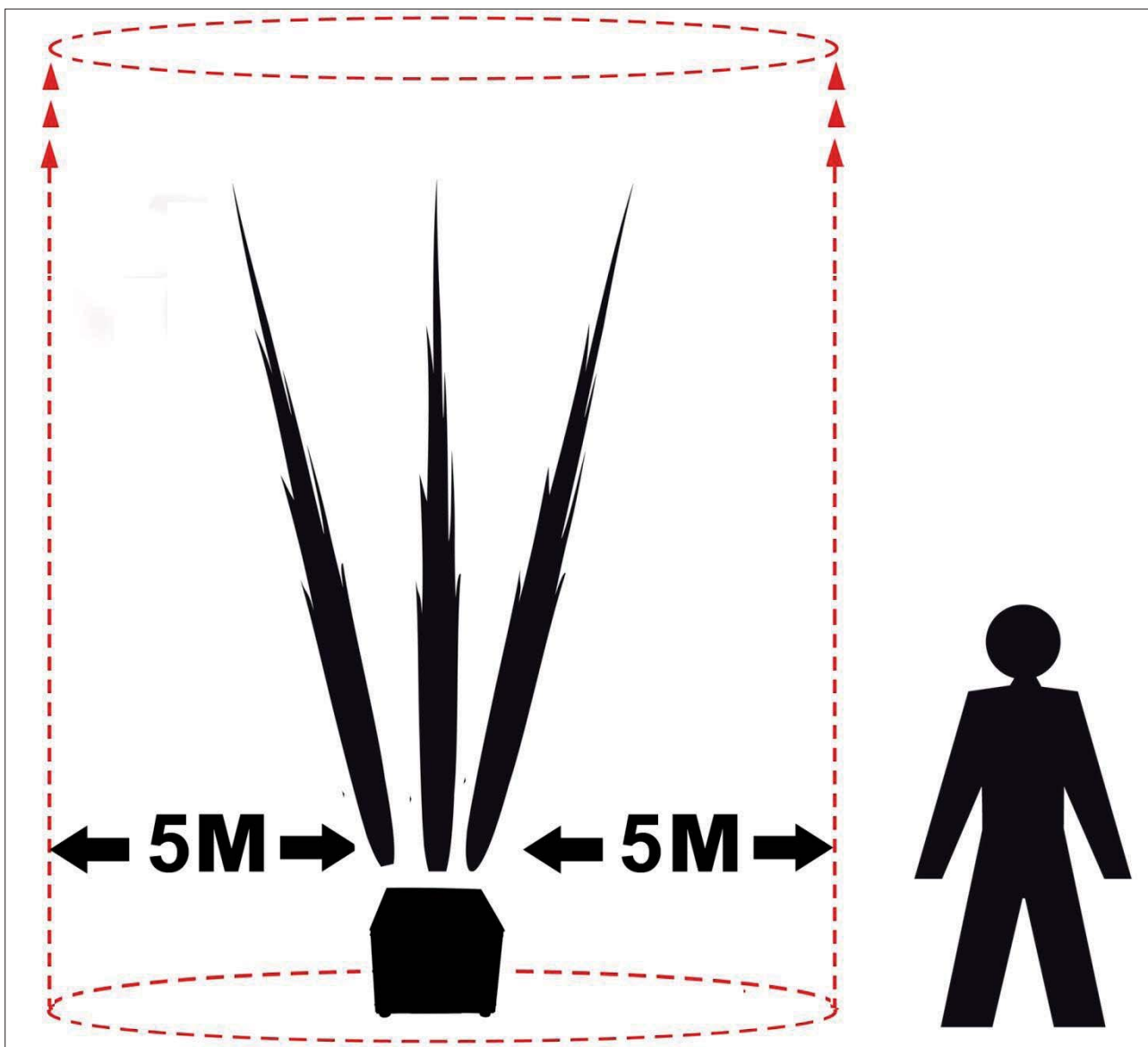


Figure 3: schematic indication danger zone

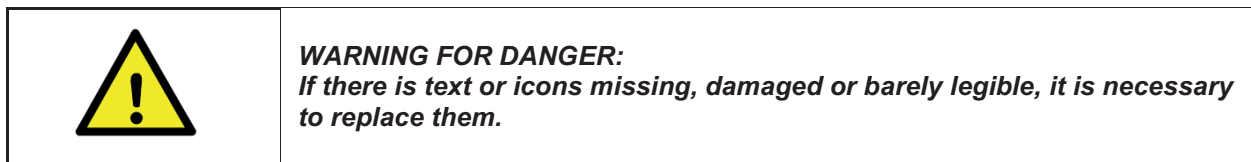


- Use the Flamaniac only if no persons, animals or flammable objects are within the danger zone. The danger zone is a cylinder with a height of at least 9 meters and a width of 5 meters. See the red shading in figure 3 (picture is not scaled).
- Ensure that children, animals and unauthorized persons don't have access to the Flamaniac!
- Do not grab in the Flamaniac while working on or off. Even if a part is not in operation, it could be in its 'on' position.
- Safety devices should not be removed or set inoperative.
- All required safety equipment should be in good condition and functioning well.
- Provide sufficient ambient light.
- Keep the workplace clean.
- Only authorized persons may perform duties of the Flamaniac.
- The storage and use of the flammable liquids near the Flamaniac is not allowed.
- Always ask for permission from the fire department to use the Flamaniac at the desired location.

### 2.3 WARNING MESSAGES

On the Flamaniac warning texts are used, the following rules are subject to it:

- These texts may not be removed or damaged. The operator needs to check this regularly.
- The operator should take care of the lyrics on the Flamaniac. They always have to be clearly visible and legible.



Below are applied icons / signs displayed:

- The present voltage is alerted by the warning icon in figure 4.



Figure 4 : PIC 307 Hazardous voltage

- The danger of open fire is alerted by the icon shown in Figure 6. This is mounted on top of the Stage Flame.



Figure 6: PIC 300 Fire hazardous substances

- The operator must be pointed out that the Stage Flame may only be served, after reading the user manual. This shall be notified by means of the command icon Figure 7.



Figure 7: PIC 616 Observe instructions

- After every time of use the system needs to be flushed with lukewarm water. Take an empty canister with lukewarm water, place it in the Flamaniac and flush the system!

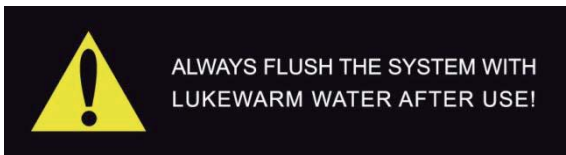


Figure 8: Cleaning after use

## 3. PARTS

### 3.1 FLAMANIAC



Item	Item Description
Ignition and Nozzles	Always keep the fire pocket free to fire. Never touch the inside when connected to the power supply.
Fluid hoses	Be sure the hoses are placed in a forward direction and that they are not bent. Bent hoses can result in an activity which does not reach the system's premium potential.
Infrared Receiver	Receiver for Flamaniac Remote
Status LED's	Show the status of the system.
Display	Information display
Fuse	Safety for over-power
Powercon in/out	Power supply in/out 230V, 50Hz and 1A.
DMX in/out	DMX in/out socket
Flame Fluid Can	Fluid is available in 4 colors; red, green, blue and yellow

### 3.2 FLAMANIAC REMOTE

Button	Function
<b>Block</b>	Block or enable any unwanted angles
<b>Channel</b>	Change the DMX Channel. Use the numeric keypad to select the desired channel.
<b>Safety</b>	Change the Safety Channel. Use the numeric keypad to select the desired channel.
<b>Status</b>	Overview of all relevant information.
<b>Backlight</b>	Toggle the backlight on-off.
<b>Flush</b>	Flushes the system.
<b>Press</b>	Pressurizes the system
<b>Numbers</b>	Use these keys after pressing: Channel or Safety; to enter the desired channel.
<b>Arrows</b>	Use these keys after pressing Block to block or engage a desired angle.
<b>F4</b>	For switching DMX mode.
<b>Save</b>	Saves the settings that you have changed. Always press this button, if you don't press it the settings will be lost.



## 4. ACCESSORIES



Figure 9: Accessories Flamaniac

The items listed can be ordered from your MAGICFX® distributor. Locate a distributor near to you by contacting;

MAGIC FX B.V.

[www.magicfx.eu](http://www.magicfx.eu)  
[info@magicfx.eu](mailto:info@magicfx.eu)

### 4.1 POWER EMERGENCY STOP

To shut off the Flamaniac in cases of emergency, you need to use a power emergency stop. (see product code MFX1204)

- This power emergency stop is clearly identified by its red color and should be applied to a quickly accessible place.
- If the power emergency stop button is pushed, the power will automatically be disconnected from the Stage Flame and shuts off the system. The power emergency stop button remains mechanically locked and cannot restart the machine.

A personal accident can now be given immediate assistance. Also other urgent actions must be executed immediately.

After the hazard is removed, the Flamaniac can be reset.

The power emergency stop can also be used in a suddenly imminent danger, such as a malfunction. To remedy this situation is less urgent action required. To intervene in this machine, it should be turned off in advance.

Depending on the nature of the work, more measures are needed. For this, see the relevant regulations.

Recommendations:

- Allow new operators several times to practice the power emergency stop button.
- Don't use the power emergency stop button to normally turn off the machine.
- Periodically test the operation.
- Don't reset the power emergency stop button as unknown by whom and why it is served.

## 5. PREPARATIONS; INSTALLATION

Unpack the Flamaniac. Remove packaging material without harming the environment. check the device for possible damage. If damages are found, you must report them to your dealer.

### 5.1 REFILLING THE FLAMANIAC

Each time you refill the Flamaniac, you need to employ the Flush Function on the supplied Remote Control. The Flush Function flushes the device to remove any air bubbles out of the circuit.

You may flush this device with water to remove any hazardous materials which aren't allowed when transporting the Flamaniac by plane. After you have used the Flush Function on the system, you will still need to pressurize the system. You can do this easily by employing the pressure button on the remote control. The Flush Function, on the remote control, sets up a minimum system pressure. This minimum pressure is necessary for the device to become ready for use and even though the system is pressurized with the minimum pressure it will NOT work! This pressure feature ensures that you are at all times protected against leaks. If a leak should occur, the pressure would automatically decrease so that the Flamaniac would be rendered inoperative. If liquid needs to be refilled, it would be wise to check for any air bubbles in the system. These bubbles may interact with the Flamaniac. You can use the Flush Function on the Remote Control to remove any air bubbles form the system.



**TIP:**

*It is always advisable to flush the Flamaniac with the specially developed liquid before changing colors. It could be possible that two liquids may react to one another, resulting in a color or activity which does not reach the systems premium potential.*



**CAREFUL:**

*The Flamaniac should only be used with liquids that are specially designed for use with the Flamaniac. ANY FOREIGN LIQUID CAN permanently damage the Flamaniac and there may be adverse effects.*

### 5.2 CONTROLLING THE FLAMANIAC

The Flamaniac can be controlled by 6 DMX channels or, when set into another DMX mode with your F4 button on the remote, with 2 DMX channels. The first channel is the Safety Channel, where that value can be set between 1 and 512. The other channels are the fire channels. These channels can also be set between 1 and 512 and are automatically programmed sequentially. Once the safety channel reaches a level between 40% and 60%, the system will be put on standby.

Once on standby, the safety timer will be activated which should take about 1 second. When the Flamaniac is released, you are ready to fire! To fire the with the Flamaniac you need to put the fire channels on 100%.

The Safety Channel should only be controlled if you are planning to use the Flamaniac in the near future. If you aren't planning on using the Flamaniac on short notice; set the safety channel value to 0. This will in turn, shut down the pump which pressurizes the system.

When set in the other DMX mode, you can control the Flamaniac with only 2 DMX channels. Channel 1 is the safety channel, channel 2 includes all 5 outputs.

### 5.3 FIRE ANGLES

The Flamaniac is equipped to fire at five basic angles: -45, -22, 0, 22 and 45 degrees. These angles correspond to the five different fire channels which can be set between DMX channel 1 and 256. The output Height is somewhat dependent of the pulse time which should be pre-set in a DMX Chase or by pushing the fire channel manually on your DMX controller.

When set in DMX mode 2 you can control all 5 angles by 1 DMX address. These angles correspond to the value that the Fire channel has. A value of 0 – 10 percent on the fire channel will not output anything. A value of 11-25 percent corresponds with 45 degrees, 26-45 percent corresponds with 22 degrees, 46-65 percent corresponds with 0 degrees, 66-85 percent corresponds with 22 degrees and 86 - 100 percent corresponds with 45 degrees.

Value:	Percentage:	Angle:
0 - 25	0%<X<10%	-
26 – 64	10%<X<25%	45° Left
65 – 115	25%<X<45%	22° Left
116 – 166	45%<X<65%	0° Up
167 – 217	65%<X<85%	22° Right
218 - 255	85%<X100%	45° Right

## 6. INSTALLING

### 6.1 PROGRAMMING THE FLAMANIAC

The Flamaniac can be programmed with the supplied remote control (universal for all Flamaniac devices). You can use this feature if the Flamaniac does not have a DMX signal. If the Flamaniac does have a DMX signal (when it is connected to a DMX controller through a DMX cable), you won't be able to program it with the remote control. We implemented this blockage to avoid any unwanted programming situations.

The programming features include: Setting the Safety- and the Fire Channels. These Channels are independently set between 1 and 512. The Fire Channels are automatically programmed sequentially. This means you only have to set your first fire channel. The other 4 channels will be programmed automatically in a row.

Besides, the programming feature also include the flushing function and the pressure function. With the remote you can separately turn the 5 outlet nozzles on and off. This feature is especially designed to prevent unwanted situations.



**WARNING FOR DANGER:**

***Always disconnect the power supply before any physical contact with this unit. The power supply/components in the nozzle area are HIGH VOLTAGE and improper usage of this supply may cause electrocution, resulting in possible DEATH!***

### 6.2 DISPLAY SCREEN

If the device is in programming mode there are some info fields to view and you can turn the backlighting of the LCD display on and off. The display will show some important things like the safety channel, the DMX channels and errors such as: Leakage, Pressure Fail, or if the CF has been tilted. This information can be very useful when a malfunction occurs. Other information will show: Visual depiction of the output nozzles, the flushing time.

### 6.3 STATUS LED'S

We have applied the Flamaniac with a green and a red LED. These LED's show the status of the Flamaniac.


The green and red LED's make it easier to read the status at a distance. Particularly useful for Stage situations where you and the Flamaniac are several yards apart. When the green LED is on, there is no DMX signal. When the green LED is on - the system has a DMX signal present and all security functions are in order. A flashing Green LED means that one of the safety features that were mentioned in chapter 1.4, kicked in and the system won't be able to fire. This is independent of the DMX signal. In other words, this function will be displayed at all times. The final error message can be viewed on the LCD screen.


The Red LED indicates the status of the safety timer and the readiness to fire again. When the red LED is on, the system is at rest and is in safe mode. When the safety channel is controlled between 40% and 60%, the Red LED will flash about 1 second, in order to show that the safety timer is running. When 1 second has elapsed, the red LED light continuously burns to indicate that you can use the system immediately.

If Both LED's flash then either the fluid level is too low or the Pressure is too low, you will need to refill the system and give the system a total reset by unplugging and re-plugging the power cord. Please read chapter 5.1 for further information on how to refill your Flamaniac.



## 7. MANUAL

	<p><b>TIP:</b>  <b>Find a place for the manual within reach of the operator of the MAGICFX® Flamaniac.</b></p>
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	<p><b>WARNING FOR DANGER:</b></p> <ul style="list-style-type: none"> <li>- <b>The MAGICFX® Flamaniac should only be used by adult and competent persons.</b></li> <li>- <b>The Flamaniac should only be used if all components are completely and correctly installed/connected.</b></li> </ul>
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### 7.1 SAFETY PRECAUTIONS

Always keep the device in a clean workspace, ensure adequate lighting and ventilation when servicing the unit. The device should not be changed and its construction should not be used for other purposes than those for which the manufacturer has designed it. Never work under the influence of concentration, tiredness, fatigue, drugs, alcohol or drugs. Keep yourself to all safety- and hazard guidelines. Keeping the User's Guide perfectly legible is an advantage! Keep children and persons that are unfamiliar with the device away from the operating area, the equipment and of course the tools. The device should not be used, repaired and maintained by those who are not familiar with the dangers. Always wear close-fitting work clothes, safety glasses, safety shoes and hearing protection. Tie long hair together. In case that a failure jeopardizes your safety and for the safety of others, switch it off IMMEDIATELY. If you notice any damages on the Flamaniac that can affect the system, do not use it! Never overload the Flamaniac with fluid! Always use the correct fluids, tools and equipment! Make sure that tools are not blunt or damaged.

### 7.2 TECHNICAL SPECIFICATIONS

<b>Product Name</b>	Flamaniac	<b>Article Number</b>	MFx1301
<b>Material Internal Hosing</b>	PTFE	<b>Material External Hosing</b>	PUR
<b>Max. Pressure</b>	25 Bar	<b>Capacity Standard Can</b>	2.5 Liter
<b>Ignition Voltage Piezo</b>	15 KV	<b>Nozzle Type</b>	Flamaniac Nylon
<b>Fitting Connection</b>	1/8 Bsp	<b>Dimensions (L*W*H)</b>	346*314*240mm.
<b>Dimensions Door (B*H)</b>	134*231mm	<b>Netto Weight</b>	17.5Kg
<b>Power Supply</b>	230V. 1A, 50-60Hz	<b>Control</b>	Standard DMX 512
<b>Flammable Liquid;</b> Specially developed Alcohol – MAGICFX flame fluid			

### 7.3 WORKPLACE

To reduce the risk of injury of property damage, fire or electric shock, make sure the work environment is: Free from damp, wet or rainy conditions. Never use the Flamaniac in an explosive environment or near flammable materials. Keep children away (never let them use tools or machines), the work area well lit, clean and tidy.

### 7.4 BEFORE USAGE

Before using the appliance check the Flamaniac for defective parts. Always make sure that the device is working properly. Be sure the compressor is stopped and the ignition is off before you leave the device. Let the flame comet always use a final test run. If a strange noise or vibration occurs irregularly, turn the machine off, unplug and let the problem by a qualified technician. Unplug the Flamaniac when you are doing maintenance on the device. The unit should always be turned off and unplugged when not in use. Keep protective equipment in place and in order.

### 7.5 MOUNTING

Only connect the power when all other cables are already installed. Always use a proper **grounded** power supply.

### 7.6 OPERATION

Never force the nozzles or components to tune the device in any way. The apparatus was designed to operate under its actual limit in order to build in extra safety measurements. It is not permitted to use the Flamaniac inappropriately. Check the device for damaged parts before you employ the Flamaniac.




**WARNING FOR DANGER:**  
*Never point the Flamaniac on humans, animals, fire hazardous substances or other sensitive items.*






**WARNING FOR DANGER:**  
*Always disconnect the power supply before any physical contact with this unit. The Power supply/components in the nozzle area are HIGH VOLTAGE and improper usage of this supply may cause electrocution, resulting in possible DEATH*

## 8. WORKING WITH FLAMANIAC FLAME FLUID

	<p><b>WARNING FOR DANGER:</b></p> <ul style="list-style-type: none"> <li>- <i>Who is working with flame fluid must be aware of the risks associated.</i></li> <li>- <i>MAGIC FX insists that the user is instructed well in advance about the risks when working with flame fluid.</i></li> </ul>
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## 9. TURN OFF THE FLAMANIAC

1. Make sure the Flamaniac is in 'safe mode'.
2. Remove the DMX cables
3. Open the door on the back of the Flamaniac and take out the can.
4. Put a can with clean liquid (water) inside the Flamaniac and flush the system.
5. Use the remote to flush the system.
6. To empty all the fluid inside the Flamaniac, just make sure the liquid hoses are no longer able to suck more liquid.
7. Do not move the Flamaniac before it has cooled.
8. Disconnect the power cable.
9. The Flamaniac is now disabled and ready to be stored.

	<p><b>TIP:</b> <i>When possible, flush the system after usage with water. To clean the nozzles from flame fluid, shoot several times with water before you storage it for a longer period</i></p>
	<p><b>CAREFUL:</b> <i>The machine can be damaged if the procedures are not followed carefully.</i></p>
	<p><b>CAREFUL:</b> <i>Never store the Flamaniac under pressure.</i></p>

## 10. TROUBLESHOOTING AND REPAIR




When the ignition does not occur in the right way, we recommend that you use the F1 key on the remote control. By pressing this button you block the pump and you will see an Arc of sparks. When the arc of sparks is not smooth, it can be that there is dirt or moisture attached to the ceramic. This can be removed by using a clean cloth and some pressurized air.

**DO NOT FORGET TO REMOVE THE POWER CORD!!!**

Another cause of bad ignition is that the nozzles are polluted. By rinsing the nozzles with warm water you can remedy this pollution..

Always contact your dealer/importer in the event that a fault occurs that is not solvable by **RESETTING** the device.

## 11. MAINTENANCE

	<p><b>WARNING:</b>  <i>Don't replace spare parts by yourself. Always contact MAGIC FX if necessary.</i></p>
	<p><b>TIP:</b>  <i>Return your Flamaniac annual to your dealer for maintenance. This keeps your products in optimal condition.</i></p>
	<p><b>ATTENTION:</b>  <i>Always ensure that the area where the Flamaniac will be used is a properly selected area. Make certain that you always have firefighting equipment nearby and a properly trained technician to handle emergencies.</i></p>

## 12. GUARANTEE

The MAGICFX® Flamaniac has a factory warranty of 1 year.

- The warranty is void if the Flamaniac is used for improper purposes or applications not listed in this manual.
- The warranty also voids when the device is used incorrectly or in violation with the rules.
- The warranty is void if the machine is changed without the consent of the supplier.

Consult your warranty card for the complete warranty conditions.













**CAREFUL:**

***Your warranty will expire by unauthorized opening of the Flamaniac***

The manufacturer excludes all possible liability resulting from improper use of this software, unit, or failure by the owner/purchaser to read the manual and its expressed and implied safety instructions. Neither the manufacturer nor the distributor give any representation or warranty to the buyer of any kind. That he or she is qualified for any repairs to the product, or that he or she is qualified to replace any parts of the product. In fact, the manufacturer and / or distributor expressly explains that all repairs and parts replacement should only be done by qualified technicians, not the buyer. The buyer takes all risk and liability arising from the repair or replacement of parts of the original bought Flamaniac on his own account.

### 13. WARNINGS AND ADVICES

	<p><b>WARNING:</b>  <i>Only use the Flamaniac if you have read and fully understood the product manual. Please make certain that you are fully aware of how this Product, Unit and its Software functions before employing its use. Do not employ the system if there are any ambiguities regarding the use of the system.</i></p>
	<p><b>WARNING:</b>  <i>Always clean the Flamaniac by flushing the system with lukewarm water after use!</i></p>
	<p><b>WARNING:</b>  <b>DO NOT ATTEMPT TO MIX COLORS</b></p>
	<p><b>WARNING:</b>  <i>This equipment should only be used by a qualified operator.</i></p>
	<p><b>CAREFUL:</b>  <i>Your warranty will expire by unauthorized opening of the Flamaniac</i></p>
	<p><b>CAREFUL:</b>  <i>The Flamaniac should only be used with liquids that are specially designed for use with the Flamaniac. ANY FOREIGN LIQUID can permanently damage the Flamaniac and there may be adverse effects.</i></p>
	<p><b>CAREFUL:</b>  <i>The minimum rates of pressure can NOT be changed.</i></p>
	<p><b>WARNING:</b>  <i>Always disconnect the power supply before any physical contact with this unit. The power supply/components in the nozzle area are HIGH VOLTAGE and improper usage of this supply may cause electrocution, resulting in possible DEATH.</i></p>
	<p><b>TIP:</b>  <i>Always ensure that the area where the Flamaniac will be used is a properly selected area. Make certain that you always have Fire Fighting Equipment nearby and a properly trained technician</i></p>
	<p><b>TIP:</b>  <i>It is always advisable to flush the Flamaniac with the specially developed liquid before changing colors! It could be possible that two liquids may react to one another, resulting in a color or activity which does not reach the systems premium.</i></p>