MAC:CEX®

MAGICFX[®] CO2 JET



PRODUCT CODE : MFX1101 CE VERSION : 1.0	VERSION
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MANUAL

1. CONGRATULATIONS!

You have bought a great new product from MAGICFX®.

MAGIC FX is a Dutch manufacturer of professional special effects machines and equipment. We have been experts in special effects since our establishment in 1995. All our products are made under the brand name MAGICFX® which by now has acquired a great reputation on account of its quality and reliability. All products are made in accordance with the European Machinery Directive. MAGIC FX manages the entire production process in-house, from the design stages and prototyping to production. In short, we cover everything from concept to ready-to-use product.

Moreover, MAGIC FX is Europe's largest supplier of high-quality and fireproof confetti products and streamers. Thanks to our very large stock levels, we can deliver quickly and at low prices.

MAGICFX® is used by special effects professionals all over the world and our products are distributed through a dealer network which covers more than 80 countries.

Congratulations and enjoy your purchase!

MAC:CFX®

2. CE MARKING

⋓	PLEASE NOTE: We presume that you, your employees and others who use or come into contact with the machine are familiar with how the machine must be dealt with. This includes the correct use, maintenance and repair of the machine as described in this user manual. This also means that the employees are familiar with the use of machines through training or experience.			
\triangle	DANGER WARNING: Only use the CO2 Jet in accordance with the regulations and instructions in this manual. Consult MAGIC FX in case of doubt.			

Disclaimers:

MAGIC FX B.V. excludes liability for unsafe situations, accidents and damage that are the result of:

- Disregard for the warnings or regulations as set out on the CO2 Jet or in this documentation.
- Use for other purposes or under other circumstances than those set out in this documentation.
- Alterations to the CO2 Jet. This also includes the use of replacement parts other than the original ones.
- Insufficient maintenance.
- Unauthorised removal of safety caps and/or safeguards.
- Incompetent operation of the machine.

MAGIC FX B.V. is not liable for any consequential loss in the event of a CO2 Jet breakdown.

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MAGIC FX at all times retains the right to make alterations without the direct knowledge of the client. The contents of this user manual can also be changed.

Please contact the technical department of your supplier for extra information with regard to, for example, maintenance and repair. This user manual has been drawn up with the utmost care. MAGIC FX cannot be held responsible for any mistakes made in this publication or for any consequences thereof.

3. DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

(according to Annex II.1.A of the Machinery Directive)

CE

Concerning the Machinery Directive. We; MAGIC FX B.V. Schouwrooij 27 5281 RE Boxtel The Netherlands

State under personal responsibility: We are the manufacturer of the product:

MFX1101 - MAGICFX[®] CO2 Jet

to which this statement relates and which is in accordance with the provisions of the following Directive(s):

- Machinery Directive 2006/42/EC
- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EG
- Pressure Equipment Directive 97/23/EC

The following harmonising standards have been applied:

- NEN-EN-ISO 12100
- NEN-EN-ISO 60204-1

Place : Boxtel Date : 18-10-2012

Name: MAGIC FX

Director: B. Veroude

4. FOREWORD

This manual describes the MAGICFX® CO2 Jet. The information in this manual is important for the proper and safe functioning of the CO2 Jet. If you are not familiar with the installation, operation, preventative maintenance etc. of the CO2 Jet then please read this user manual carefully from beginning to end. MAGIC FX also insists that all new users (operators, installers, maintenance workers and cleaners) receive a training course in which this user manual can serve as a starting point.

MAGIC FX advises that the original of this user manual, including appendices, is kept at a safe and central place. It is best that another original or copy is kept close to the CO2 Jet at the workplace.

If you are familiar with these matters, then you can use this manual as a work of reference.

The following standard markings are used in this manual for drawing attention to certain subjects or actions.

	TIP: Gives you suggestions and advice regarding easier or more convenient ways to carry out certain tasks.
Ŵ	PLEASE NOTE: A comment with additional information: alerts you to certain problems.
*	CAUTION: The machine can be damaged if you do not follow the procedures carefully.
	DANGER WARNING: You can get (seriously) hurt if you do not carefully carry out the procedures.

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5. INTRODUCTION

5.1 DESCRIPTION AND APPLICATION OF THE CO2 JET

The CO2 Jet is intended to electronically blow white smoke plumes of CO2 from a distance. As soon as the CO2 leaves the cylinder through the CO2 Jet's secured high-pressure hoses, it converts into gas. This formation of gas is accompanied by a strong hissing sound and a solid white plume of smoke will be visible. The length of this plume is on average 8 metres. This depends on the air humidity: in case of a high degree of air humidity, the smoke plume will be larger and in case of a low degree of air humidity.

The CO2 Jet must be connected to a carbon dioxide (CO_2) bottle with dip pipe. The CO2 Jet is not suitable for other gases than those described above. Any use other than that described above will exclude your supplier from any liability.

5.2 NECESSARY ACCESSORIES

The following parts belong to the CO2 Jet:



Table 5.1

6. SAFETY

6.1 INTRODUCTION

The CO2 Jet has been designed and constructed in such a manner that it can be used safely. This applies to the use, the circumstances and the regulations as described in this documentation. Reading this documentation and following the instructions are therefore necessary for everyone who is authorised to work with the CO2 Jet.

The CO2 Jet must be placed and used in surroundings that preferably:

- Have a reasonably stable temperature of between 0 and 30°C.
- Have a relative humidity degree of no more than 75%.
- Are reasonably free of dust, corrosive gases and high concentrations of organic vapours.
- Are not situated in the vicinity of a source of vibration.

6.2 GENERAL SAFETY RULES

- Only use the CO2 Jet if there are no people, animals or other objects in the direction of the output within the output distance. The shooting direction is the direction in which the output pipe on the CO2 Jet is pointed. The output distance depends on the humidity in the air.
- Make sure that children, unauthorised people and animals do not obtain access to the CO2 Jet!
- Safety devices may not be removed or disabled.
- All required safety devices must be in good condition and function properly.
- Ensure sufficient lighting of the surroundings.
- Keep the workplace clean.
- Only authorised persons may carry out work with the CO2 Jet.

6.3 WARNINGS

Warning texts have been attached to the CO2 Jet. With regard to these the following rules apply:

- These texts may not be removed or damaged. The operator must regularly check if this is the case.
- The operator must ensure that the texts are and remain clearly visible and legible.

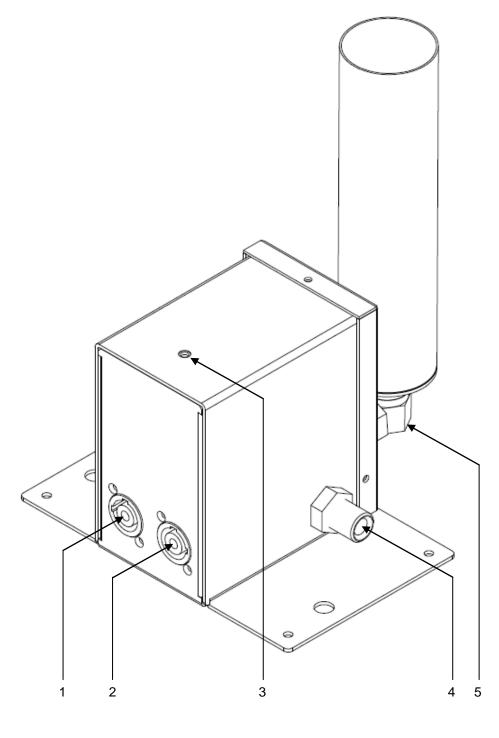


DANGER WARNING: One must replace texts or signs if these are absent, damaged or illegible.





7. PARTS



- powerCON input
 powerCON output
 LED indicator
 CO₂ input
 CO₂ output

8. ACCESSORIES



You can order these parts and accessories from:



9. PREPARATIONS

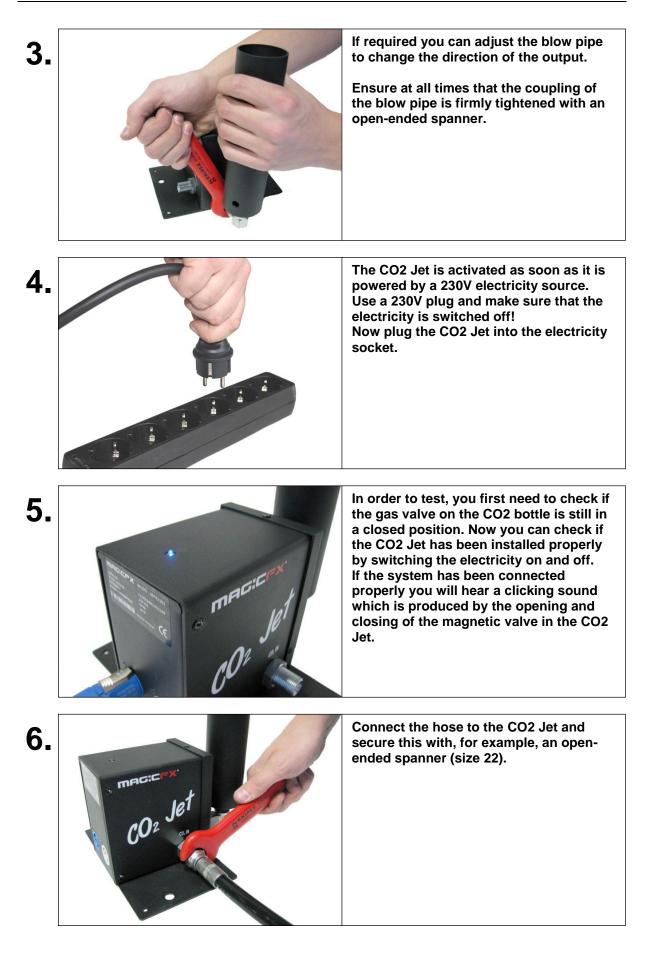
Unpack the CO2 Jet. Dispose of the packaging material without harming the environment. Inspect the machine for any damage. If damage is noticed this must be reported to MAGIC FX.

10. INSTALLATION

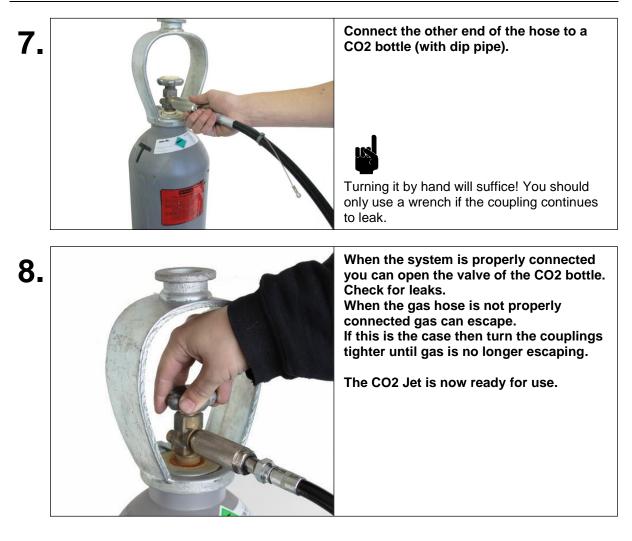
×	CAUTION: The machine can be damaged if you do not follow the procedures carefully.
$\overline{\mathbb{N}}$	DANGER WARNING: The MAGICFX® CO2 Jet may only be installed by adults and authorised persons.
\bigwedge	 DANGER WARNING: MAGIC FX is not liable for working with CO2 gas and CO2 bottles or for the correct use thereof. Exclusively use approved CO2 bottles (liquid carbon dioxide with dip pipe) and consult your gas supplier about the installation, instructions, guidelines and regulations for the safe use of the CO2 bottles.

For installing the CO2 Jet work in the following manner:

1.	 Place the CO2 Bottle on a stable and even surface and secure it by means of an approved strap or bottle clamp. Place the bottle in such a position that the valve opening does not point in the direction of the public. Place the CO2 bottle preferably outdoors or in a properly ventilated space with a CO2 detection system. The maximum temperature in the surrounding area should be 30°C! Consult your gas supplier for full instructions with regard to CO2 gas use.
2.	Place the CO2 Jet on a solid and even surface and screw it down (there are 4 screw holes in the base plate). Use 4 screws of a length of at least 5cm and screw them in the holes intended for this in the base plate of the CO2 Jet.



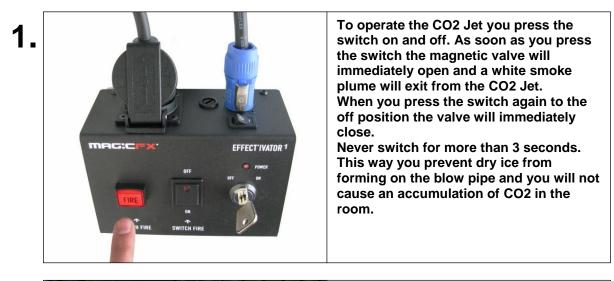
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11. USAGE

2U	TIP: Gives you suggestions and advice regarding easier or more convenient ways to carry out certain tasks.
×	CAUTION: The machine can be damaged, if you do not follow these procedures carefully.
\triangle	DANGER WARNING: The MAGICFX® CO2 Jet may only be installed by adults and authorised persons. The CO2 Jet may only be operated if all parts are completely and correctly installed/connected.

For using the CO2 Jet take the following steps:





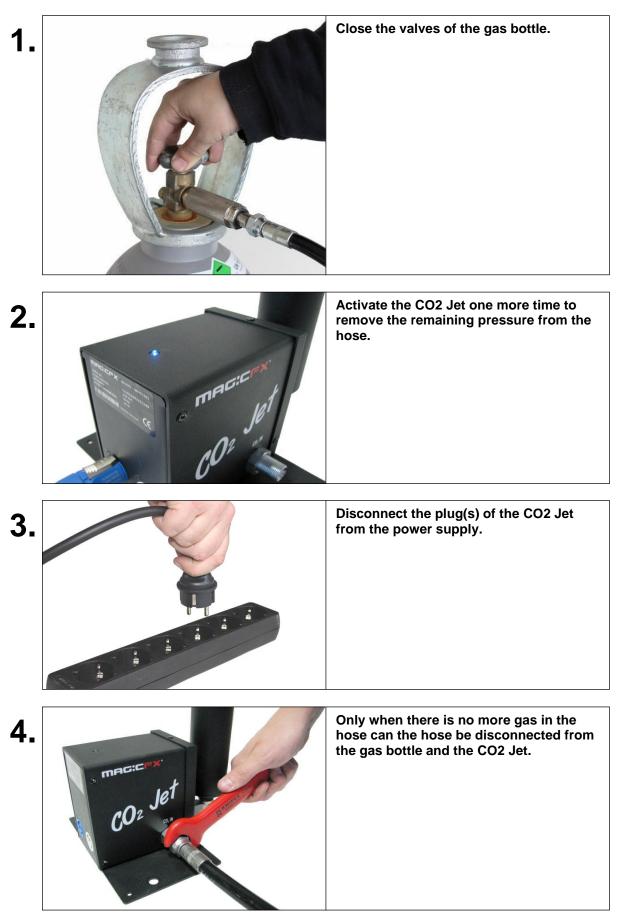
The CO2 Jet can be operated by means of DMX. To this end use a DMX FX Switchpack.



Ensure that you always have the CO2 Jet in clear sight.

12. SWITCHING OFF

To switch off the CO2 Jet, take the following steps:



13. TROUBLESHOOTING

The CO2 Jet is leaking

Check if the coupling of the gas hose is connected properly to the coupling of the CO2 Jet. If it is not entirely secured then press it firmly. This is only possible when there is no pressure on the hose. If the problem persists, then consult the technical service of MAGIC FX.

- Only a small smoke plume is visible when the CO2 gas exits the CO2 Jet.

Visibility can vary due to air humidity. The output will be more visible when there is high absolute air humidity.

- There is no white smoke plume visible when the CO2 gas exits the CO2 Jet.

You may not have the right carbon dioxide cylinders. Connect bottles with liquid carbon dioxide and a dip pipe to the CO2 Jet.

In some cases the dip pipe may be broken. In that case replace the carbon dioxide bottle with another and inform your gas supplier about the cylinder with the defective dip pipe.

- The CO2 Jet is still malfunctioning after troubleshooting

Always contact your dealer or the technical service of MAGIC FX first in case of uncertainties, questions about the CO2 Jet works or other issues with regard to the CO2 Jet.

	Length:	195mm (12.2")
Measurements and weight	Width:	150mm (14.96")
	Height:	130mm (11.61")
	Weight:	2.85 Kg (21.5lbs.)
Power	Input:	AC 230V~50-60Hz
	Usage:	AC 230V~50-60Hz
	Fuse:	20W
	Input:	Liquid CO ₂
CO ₂	Output:	CO ₂ Gas
	Usage:	0.5 Kg/s (1.1 lbs./s)
	Quick Connector:	RU 1 (W21.8x1/14") – 3/8" BSP

14. TECHNISCHE SPECIFICATIES

Design and product specifications can be changed without prior notification.

15. MAINTENANCE

To achieve the maximum service life of the CO2 Jet you must regularly clean the CO2 Jet and test if it is working correctly.

Should the CO2 Jet not work for some reason then please contact MAGIC FX.



DANGER WARNING:

Do not replace parts yourself; always consult MAGIC FX if necessary.

16. GUARANTEE

A manufacturer's guarantee of 3 years applies to the MAGIC FX CO2 Jet.

- The guarantee expires if the CO2 Jet is used for improper purposes and for applications which are not stated in this manual.
- The guarantee also expires if the machine is used incorrectly or in violation of the regulations.
- The guarantee expires if the machine is altered without permission from the supplier.

17. NOTES

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