

ENGLISH

CO2JET II.







DISCLAIMER

▲ WARNING

Read this manual carefully before installing and/or using this product. Failure to read the manual and to follow the printed instructions may lead to personal injury and/or damage to the product.

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TRADEMARKS

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LIABILITY

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Refer further to the General Conditions. These are available on request, free of charge.

Although considerable care has been taken to ensure a correct and suitably comprehensive description of all relevant components, the manual may nonetheless contain errors and inaccuracies.

Should you detect any errors or inaccuracies in the manual, we would be grateful if you would inform us. This helps us to further improve our documentation.

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FOREWORD

Congratulations! You have bought a great new product from MAGIC FX.

This manual contains all information required for the intended use of the equipment. Deviation from the described intended use can result in a hazardous situation and/or property damage.

This manual includes notes and warnings on safe operation of the equipment. These notes and warnings are accompanied by the following icons. Read them attentively!

A DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.
A WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
A CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates information considered important, but not hazard-related (e.g. messages relating to property damage).

LANGUAGE

This document contains the original instructions in English. In case you require other languages please contact MAGIC FX.

REVISION TABLE

Document nr	Revision	Date	Description	Authored by	Checked by
PART01184	01-00	1-6-2018	Initial release	\$dO	TvA

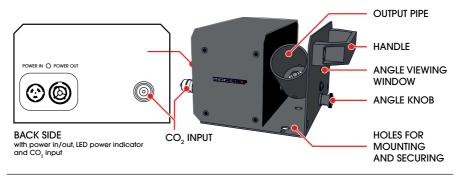
1 MEET THE MAGICFX® CO2JET II!

The MAGICFX® CO2JET II is a special effects machine that blasts CO, into the air.

The MAGICFX® CO2JET II is equipped with a CO $_2$ powered rotating nozzle. A solenoid valve controls the supply of liquid CO $_2$ to the nozzle. From the nozzle, the CO $_2$ escapes through the output pipe. A blast of escaping CO $_2$ is accompanied by a strong hissing sound and a white plume of fog will be visible from the output pipe. The output pipe with nozzle can be set in an angle.

The MAGICFX® CO2JET II is equipped with several holes for mounting of the unit to a stage or to a truss with a truss clamp and for attaching safety cables. Furthermore the MAGICFX® CO2JET II is suited for simultaneous activation of multiple units by creating a power link.

1.1 MAIN PARTS



Main parts

1.2 TECHNICAL DATA

Product	Product Name	MAGICFX® CO2JET II	
	Product Code	MFX1118	
	Product Type	CO ₂ FX	
Main	Length (mm/in.)	232	9,1
Dimensions	Width (mm/in.)	196	7,7
	Height (mm/in.)	124,5	4,9
Weight	Empty weight (kg/lb.)	3,7	8,2
Package	Length (mm/in.)	289	11,4
	Width (mm/in.)	289	11,4
	Height (mm/in.)	201	7,9
	Packaged weight (kg/lb.)	4,2	9,3
Environment	Minimum Temperature (°C/°F)	-20	-4
	Maximum Temperature (°C/°F)	70	158
	Humidity (Relative)	20% to 90% (non conder	nsing)
Electrical	Voltage Input (Vac)	220 - 240 Vac	
	Voltage Frequency	50 - 60 Hz	
	Power Consumption (Vac)	20 W	
	Power Connector (Vac)	Neutrik® powerCON TRUE1 (in & out)	
Controlling	Control Options	Direct output	
Usage	Propellant	Liquid CO ₂	
	Propellant Connector	CO₂ Quick Connector 3/	8"
	Propellant Consumption	0,5 L/s	

Technical data

1.3 PRODUCT IDENTIFICATION



Type plate

1.4 ACCESSORIES

Code	Product
MFX0305	MAGICFX® BASEPLATE II
MFX1114	CO ₂ High Pressure Hose 3/8 Male - Female, 1.25M
MFX1105	CO ₂ High Pressure Hose 3/8 Male - Female, 2M
MFX1106	CO ₂ High Pressure Hose 3/8 Male - Female, 3M
MFX1108	CO ₂ High Pressure Hose 3/8 Male - Female, 10M
MFX1109	CO ₂ High Pressure Hose 3/8 Male - Female, 15M
MFX1122	CO ₂ High Pressure Hose 3/8 Male - Female, 20M
MFX1110	CO ₂ 90 Degrees Connector 3/8
MFX1103	CO ₂ Bottle to Hose Connector
MFX1115	CO ₂ Bottle to Hose Connector 90 Degrees
MFX3103	Twenty Clamp (20kg) M10
SPR00119	Safety Steel
SPR00972	Standard Nozzle
SPR01236	Low Noise Spray Nozzle CO ₂

Accessories

Please contact MAGIC FX for additional possibilities.

2 SHOOT SAFELY!

The MAGICFX® CO2JET II 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 MAGICFX® CO2JET II.

The MAGICFX® CO2JET II must be used in surroundings that preferably:

- Have a reasonably stable temperature of between -20 and 70°C.
- Have a relative humidity degree of no more than 90% (non condensing).
- Are reasonably free of dust, corrosive gases and high concentrations of organic vapours.
- Are not situated in the vicinity of a source of vibration.

2.1 GENERAL SAFETY RULES

- Only authorised persons may carry out work with the MAGICFX® CO2JET II.
- Do not use the MAGICFX® CO2JET II if there are people or animals in the direct output.
- Make sure that children, unauthorised people and animals do not obtain access to the MAGICFX® CO2JET II.
- Make sure there are no freestanding objects or objects that can be damaged by the MAGICFX® CO2JET II within the output distance.
- Do not connect more units to a single electrical circuit than the installed fuse is able to handle. (Calculate the summed load with the electrical data from Chapter 1)
- Do not remove any safeguards, safety caps and safety symbols.
- All required safety devices must be in good condition and function properly.
- Ensure sufficient lighting of the surroundings.
- · Keep the workplace clean.

2.2 CO₂

The MAGICFX® CO2JET II uses liquid CO $_2$ as input. The application of CO $_2$ involves serious risks. Make sure that you are well informed on these risks before installation and/or operation. Always use approved CO $_2$ cylinders, hoses and connections. Always consult your CO $_2$ supplier for regulations and instructions on safe installation and use.

MAGIC FX is not liable for unsafe situations, accidents and damage that are the result of incorrect working with CO₂ and CO₂ cylinders.

A WARNING

Inadequate installation and/or operation of a $\rm CO_2$ powered machine and $\rm CO_2$ cylinders can lead to death or serious injury. Always follow the instructions from this manual, from your $\rm CO_2$ supplier and from local authorities.

2.3 INDOOR USE

The MAGICFX® CO2JET II is designed for outdoor use and use in well-ventilated indoor spaces. When used indoors, make sure you take the necessary preparations. These preparations could include, but are not limited to:

- Consulting your CO₂ supplier.
- Calculating the reduction of oxygen for the indoor space.
- Checking the location for spots where CO₂ could accumulate and taking preventive actions.
- Installing CO₂ monitoring devices that will warn for hazardous CO₂ levels.

A DANGER

Do not use the MAGICFX $^{\circ}$ CO2JET II in poor ventilated confined spaces. Exposure to high levels of CO $_{2}$ can cause symptoms like headache, nausea, loss of consciousness or even death.

2.4 RIGGING

Please follow the European and national guidelines for safe rigging and trussing.

2.5 NOISE LEVEL

The environmental noise level measured at 100 cm (39,37 in) from the product is 90 dB(A). This level of noise is only reached during the short shooting instances. Therefore hearing protection is not necessary.



Do not operate the MAGICFX® CO2JET II close to yourself or to others for a long period of time. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit.

2.6 SAFETY SYMBOLS

Symbol

Meaning



Read the manual carefully before use!

Safety symbols

2.7 PRECAUTIONS FOR OPERATION

A WARNING

Using a damaged or an improper installed machine can lead to death, serious injury or property damage. Always inspect the machine thoroughly before operation.

A WARNING

A poorly mounted machine will come loose when the machine blasts CO_2 . This can lead to death, serious injury and/or property damage. Always inspect if the machine is mounted firmly and correctly as according to the instructions in this manual.

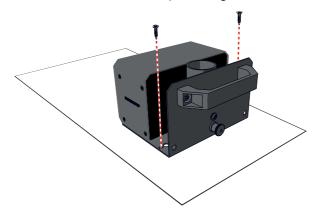
A WARNING

Missing or obscured safety symbols on the machine can lead to death or serious injury. Make sure all safety symbols are correctly in place, see section 2.6.

3 LET'S SHOOT!

3.1 MOUNT ON A STAGE

1 Mount the MAGICFX® CO2JET II firmly on a stage.



NOTICE

Optionally use a MAGICFX® BASEPLATE II for stage mounting.

- 2 Inspect if the MAGICFX® CO2JET II is mounted firmly.
- Pull the angle knob and set the output pipe to the desired shooting angle. Release the angle knob to fasten the output pipe. Check if you hear a clicking sound and whether the output pipe is fastened correctly.



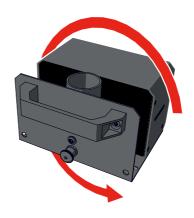
▲ CAUTION	Make sure that the direct output will be free from persons and animals.

▲ CAUTION

Make sure there are no freestanding objects or objects that can be damaged by the MAGICFX® CO2JET II within the output distance.

3.2 MOUNT ON A TRUSS

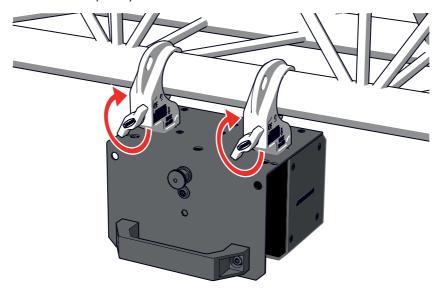
Flip the MAGICFX® CO2JET II upside down.



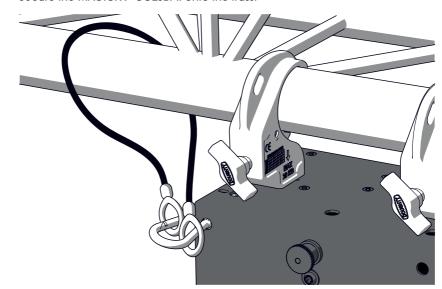
Screw a M10 twenty clamp for truss mounting (product code MFX3103) into both threaded holes.



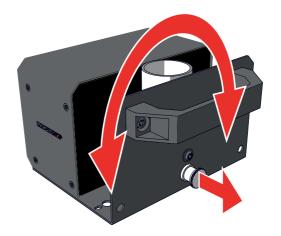
3 Mount the clamp firmly on a truss.



4 Secure the MAGICFX® CO2JET II onto the truss.



- 5 Inspect if the MAGICFX® CO2JET II is mounted firmly and secured correctly.
- 6 Pull the angle knob and set the output pipe to the desired shooting angle.



A CAUTION

Make sure that the direct output will be free from persons and animals.

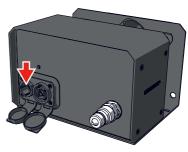
A CAUTION

Make sure there are no freestanding objects or objects that can be damaged by the MAGICFX® CO2JET II within the output distance.

3.3 CONNECT POWER

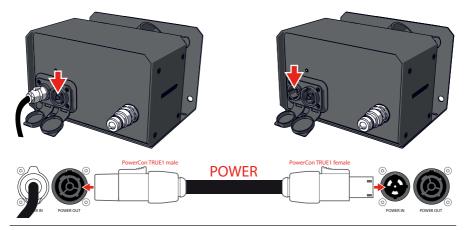
1 Make sure that the power output on your controller or power switch is disabled.

2 Connect a power cable to the power input.





- 3 Connect the other end to your controller or power switch.
- 4 Optionally connect another machine to the power output with a power link cable.



▲ CAUTION

Do not connect more units to a single electrical circuit than the installed fuse is able to handle. (Calculate the summed load with the electrical data from Chapter 1)

Switch the power on and check if the LED power indicator lights up. Check if you hear a clicking sound. If so, then the machine is working correctly.

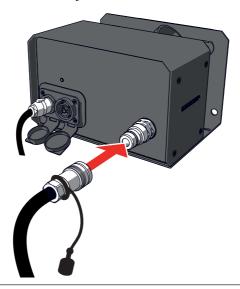
▲ CAUTION

Make sure that the CO_2 is not connected when testing the power.

6 Switch off the power.

3.4 CONNECT CO,

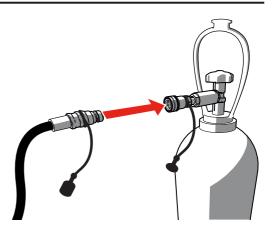
- 1 Make sure that the power is switched off (LED power indicator is off).
- 2 Connect the CO₂ hose to the CO₂ quick connector.



3 Connect a CO₂ bottle-tohose connector to a CO₂ cylinder.



Connect the CO₂ hose to the CO₂ bottle-to-hose connector on the CO₂ cylinder.



Open the CO₂ cylinder.



6 In case of multiple machines: Repeat steps 1-5 for each machine.

3.6 LET'S BLAST!

- 1 Make sure that the direct output is free from persons, animals and objects.
- 2 When it's time to shoot, switch the power on.

A CAUTION

Do not use the machine if the ${\rm CO_2}$ valve is not opening and closing correctly.

3 Enjoy the view!



4 Switch off the power.

3.7 CLEAN UP

Close the CO₂ cylinder.

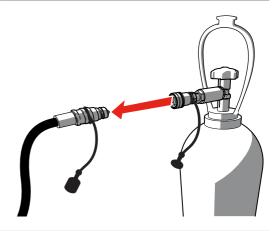


- 2 Switch the power on to release the remaining pressure.
- 3 Switch the power off and disconnect the power cable(s).

Disconnect the CO₂ hose from the CO₂ quick connector.



Disconnect the CO₂ hose from the CO₂ bottle-to-hose connector on the CO₂ cylinder.



6 Remove the CO₂ bottle-tohose connector from the cylinder.



7 Dismount the machine.

4 MAINTENANCE

To achieve the maximum service life of the MAGICFX® CO2JET II you must regularly clean the MAGICFX® CO2JET II and test if it is functioning correctly.

Contact MAGIC FX if the MAGICFX® CO2JET II is not functioning correctly.

▲ DANGER

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

5 TROUBLESHOOTING

Always contact MAGIC FX if any malfunctions or errors occur that cannot be solved with the instructions as described in this manual.

6 CORRECT DISPOSAL



This symbol on the product and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product to designated collection points where it will be accepted free of charge.



Alternatively, in some countries you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

7 EC DECLARATION OF CONFORMITY

According to Annex III A Low Voltage Directive 2014/35/EU

MAGIC FX B.V. declares as manufacturer and composer of the technical construction file that the product with the following specifications:

Name machine : MAGICFX® CO2JET II

Type : MFX1118

Voltage : 220 – 240Vac 50-60Hz

Serial number : on product Year of construction : on product

Is in conformity with the minimal safety regulations as stated in the following directive(s):

• LVD (2014/35/EU) Low Voltage Directive

• EMC (2014/30/EC) ElectroMagnetic Compatibility

RoHS (2011/65/EU) Restriction of the use of certain Hazardous Substances

• WEEE (2012/19/EU) Waste Electrical & Electronic Equipment

The following harmonized standards were applied:

 NEN-EN-ISO 12100:2010, Safety of machinery - General principles for design - Risk assessment and risk reduction

 NEN-EN-IEC 60204:2010, Safety of machinery - Electrical equipment of machines - Part 1: General requirements.

 NEN-EN-IEC 61000-6-3:2007/A1:2011, Electromagnetic compatibility (EMC) - Part 6-3: Generic standards -Emission standard for residential, commercial and light-industrial environments.

January 1

 NEN-EN-ISO 13732-3:2008, Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 3: Cold surfaces

☐ Original declaration of conformity

☑ Translation of the original declaration of conformity

Name manufacturer : MAGIC FX BV

Address : Schouwrooij 27, 5281 RE BOXTEL

Country : The Netherlands

CEO: B. Veroude

Date : 31-5-2018

Signature :



WWW.MAGICFX.EU