MAGICFX® PSYCO2JET

USER AND INSTALLATION MANUAL

CO₂ FX

DMX with RDM capability

CE

DISCLAIMER

TRADEMARKS

Any brand names mentioned in this manual are registered trademarks of their respective owners.

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.

TABLE OF CONTENTS

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!

⚠ 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.
⚠ WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
⚠ 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 MAGIX FX.

REVISION TABLE

Document nr	Revision	Date	Description	Authored by	Checked by
PART01127	01-00	13-02-2017	Initial release	TFR	TVA

1 MEET THE MAGICFX® PSYCO2JET!

The MAGICFX® PSYCO2JET is a special effects machine that blasts CO_2 into the air.
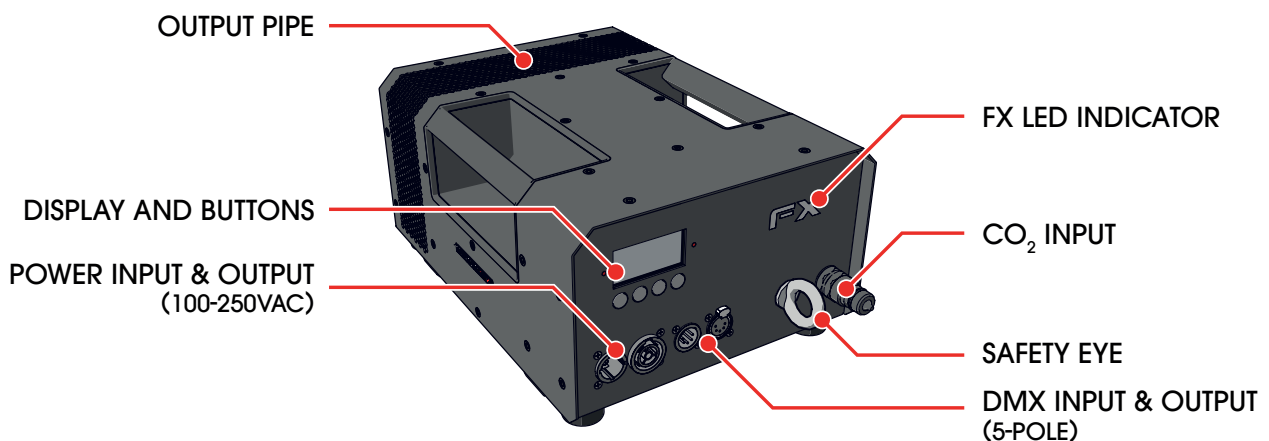
The MAGICFX® PSYCO2JET is equipped with a CO_2 powered rotating nozzle. A solenoid valve controls the supply of liquid CO_2 to the nozzle. From the nozzle, the CO_2 escapes through the output pipe. A blast of escaping CO_2 is accompanied by a strong hissing sound and a white plume of smoke will be visible from the output pipe. The nozzle with output pipe is mounted on a 180° rotatable pipe, driven by an electric motor. By blasting and varying the output direction the MAGICFX® PSYCO2JET delivers spectacular effects.

The MAGICFX® PSYCO2JET is outfitted for operation:

- with DMX and optionally RDM;
- in RAW mode or in PRESET mode;
- in sequence with multiple machines.

The MAGICFX® PSYCO2JET is mounted on a truss or on stage.

1.1 MAIN PARTS

OUTPUT PIPE

FX LED INDICATOR

DISPLAY AND BUTTONS

CO_2 INPUT

POWER INPUT & OUTPUT
(100-250VAC)

SAFETY EYE

DMX INPUT & OUTPUT
(5-POLE)

FRONT SIDE
as seen by the audience in most cases
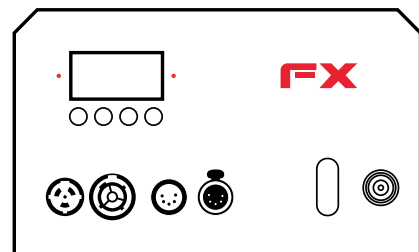
BACK SIDE
with display, buttons and connections

Main parts in backside view

All operational tasks and software presets are oriented as if one is facing the front side of the unit.

1.2 TECHNICAL DATA

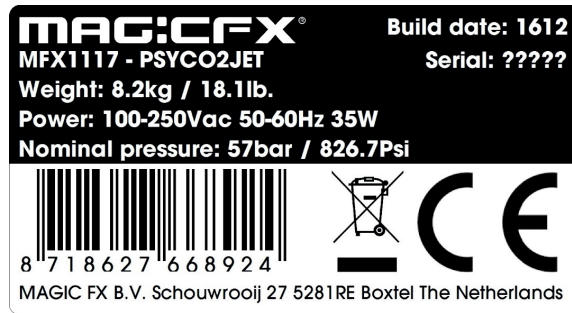| Product	Product Name	MAGICFX® PsyCO$_2$Jet	
	Product Code	MFX1117	
	Product Type	CO$_2$ FX	
Main Dimensions	Length (mm/in.)	330	13
	Width (mm/in.)	250	9,8
	Height (mm/in.)	165	6,5
Weight	Empty weight (kg/lb.)	8,2	18,1
Package	Length (mm/in.)	480	18,9
	Width (mm/in.)	350	13,8
	Height (mm/in.)	270	10,6
	Packaged weight (kg/lb.)	9	19,8
Environment	Minimum Temperature (°C/°F)	-10	14
	Maximum Temperature (°C/°F)	50	122
	Humidity (Relative)	20% to 90% (non condensing)	
	IEC 60529 (IP) Rating	IP23	
Electrical	Voltage Input (Vac)	100 – 250 Vac	
	Voltage Frequency	50 – 60 Hz	
	Power Consumption (Vac)	35 W	
	Power Connector (Vac)	Neutrik® powerCON TRUE1 (in & out)	
	Voltage Input (Vdc)	-	
	Power Consumption (Vdc)	-	
	Power Connector (Vdc)	-	
	Battery	-	
Controlling	Control Options	DMX	
	Control Protocols	DMX512-A (ANSI E1.11) / RDM (ANSI E1.20)	
	Control Connectors	Neutrik® 5 pole male / female XLR	
Configuring	Configure Options	On Device & RDM	
Usage	Consumable(s)	-	
	Consumable Consumption	-	
	Propellant	Liquid CO$_2$	
	Propellant Connector	CO$_2$ Quick Connector 3/8”	
	Propellant Consumption	0,5 L/s	

Technical data

1.3   PRODUCT IDENTIFICATION

MAG:CFX®
MFX1117 - PSYCO2JET
Weight: 8.2kg / 18.1lb.
Power: 100-250Vac 50-60Hz 35W
Nominal pressure: 57bar / 826.7Psi
Build date: 1612
Serial: ?????

8 718627 668924

CE

MAGIC FX B.V. Schouwrooij 27 5281RE Boxtel The Netherlands

Type plate

1.4   ACCESSORIES

Code	Product
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
MFX1107	CO_2 High Pressure Hose 3/8 Male - Female, 6M
MFX1108	CO_2 High Pressure Hose 3/8 Male - Female, 10M
MFX1109	CO_2 High Pressure Hose 3/8 Male - Female, 15M
MFX1110	CO_2 90 Degrees Connector 3/8
MFX1103	CO_2 Bottle to Hose Connector
MFX1115	CO_2 Bottle to Hose Connector 90 Degrees

Accessories

Please contact MAGIC FX for additional possibilities.

1.5   DISPLAY PANEL

```
          MAIN MENU

DMX
 ⇒  ✕  ✕  ⓘ
RDM

     DMX/RDM SETTINGS ▶
 BACK | PREV | NEXT | SELECT
```
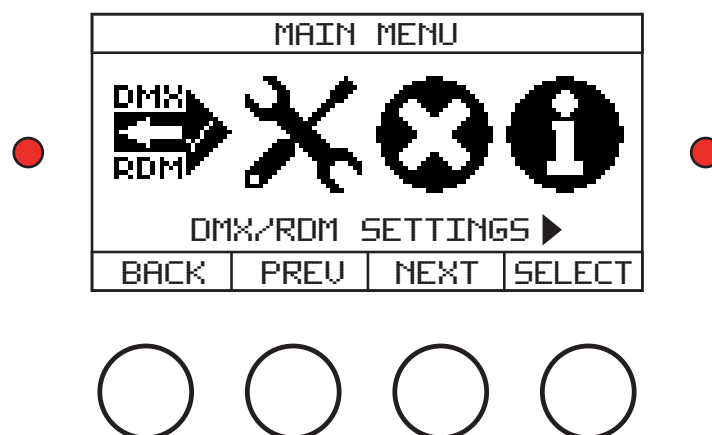
Display panel

The display panel is located on the backside of the MAGICFX® PSYCO2JET. Check the following menu structure for all options in the menu. Use the buttons for navigation and selection. The left-hand LED blinks red when DMX is active. The right-hand LED blinks red when an error has occurred.

Idle Display	**Lock/Unlock Controller**	
	Reset Errors	
		DMX Start Address (1-512)
		DMX Safety Address (1-512)
	DMX/RDM Settings	**Control Mode (RAW/PRESET)**
		DMX Footprint (1-511)
		RDM (On/Off)
		Nozzle Mirror Function (On/Off)
		Nozzle Block Left (140-255)
Main Menu		**Nozzle Block Right (0-116)**
		Nozzle Calibration (-5-5)
	Configuration	**Output When Blocked (On/Off)**
		Display Dimmer (On/Off)
		Display Flip (On/Off)
		Factory Defaults (Yes/No)
	Error History	**Type (Alarm/Error)**
		Serial Number (DDDDD)
		Unique ID (HHHHHHHHHHHH)
	Information	**Software Version**
		Software CRC
		Bootloader CRC
		Build Date

Menu structure

1.6   RAW MODE

In RAW mode, the operator controls the output of the MAGICFX® PSYCO2JET directly. With DMX the operator controls the following variables:

- The angle of the rotating nozzle and output pipe, see figure
- The speed of rotation
- The output (CO_2 valve open or closed)

RAW mode is selected from the operator menu. Check Section 1.5 for the menu structure.
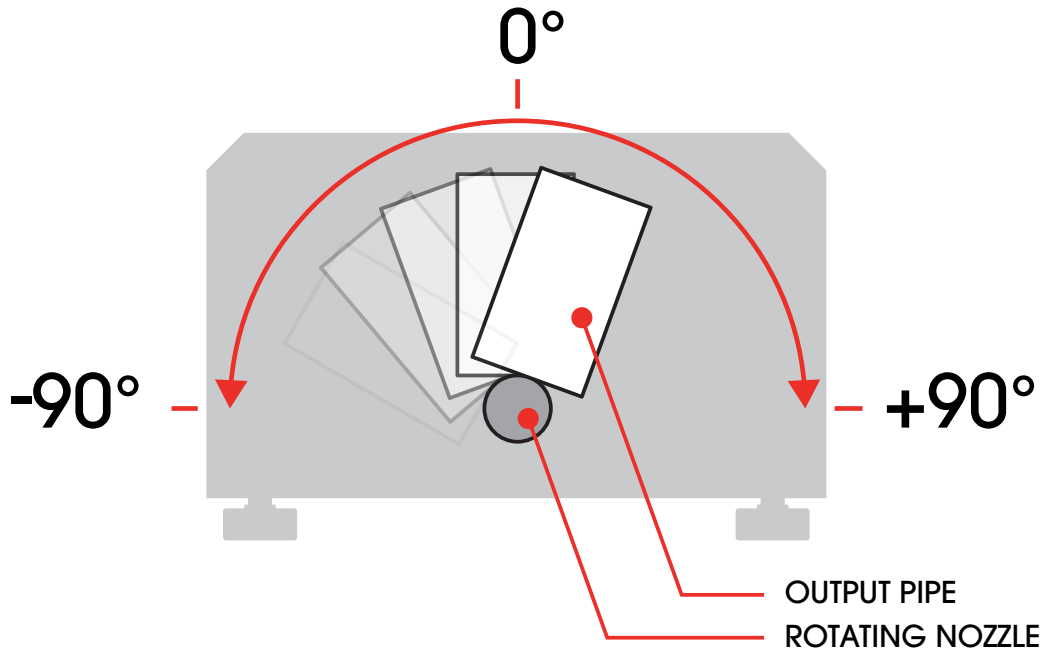
Output angle when facing the front side of the unit

In RAW mode the MAGICFX® PSYCO2JET is controlled with 1 safety address and 3 operational addresses.

DMX Address	Address range
Safety address	1 - 512
Start address (Angle)	1 - 512
Start address + 1 (Speed)	1 - 512
Start address + 2 (Output)	1 - 512

DMX addresses

The Safety address cannot be the same as one of the operational addresses.

Operating of the addresses in RAW mode results in the following:

DMX Address	DMX Value (Decimal)		Result
Safety address	0	99	Device disabled
	100	155	Device enabled
	156	255	Device test mode (CO_2 output is disabled)
Start address (Angle)	0	126	-90° to -0,7°
	127	128	Center position
	129	255	+0,7° to +90°
Start address + 1 (Speed)	0	255	Minimal speed -> Full speed
Start address + 2 (Output)	0	199	Valve off
	200	255	Valve on

Operation of the DMX addresses

When you link multiple machines with DMX, we advise you to use the same Safety address for all machines.

⚠ CAUTION   Always plug in a DMX Terminator into the DMX output of the final unit in the control sequence. Using a DMX Terminator improves signal reliability.

1.7   PRESET MODE

In PRESET mode, the operator controls the output of the MAGICFX® PSYCO2JET with the help of one of the preprogrammed presets. With DMX the operator controls the following variables:

- The selected preset
- The speed of rotation of the output pipe
- The directions of the output pipe
- The ´Go´ mode:
  - OFF   (No movement)
  - Continuous   (The preset is repeated continuously)
  - Step in preset   (Step by step)

PRESET mode is selected from the operator menu. Check Section 1.5 for the menu structure.

The MAGICFX® PSYCO2JET is programmed with 10 presets. Each preset is a unique sequence of pulses and/or sweeps of CO_2, see figure.

❶
0°
-45°   +45°
1
-90°   +90°

❷
0°
-45°   +45°
1   2
-90°   +90°

❸
0°
-45°   +45°
2
1   3
-90°   +90°

❹
0°
-45°   +45°
2   3
1   4
-90°   +90°

❺
0°
-45°   +45°
3
2   4
1   5
-90°   +90°

❻
0°
-45° RANDOM +45°
-90°   +90°

❼
0°
4
-45°   +45°
2   3
1
-90°   +90°

❽
0°
-45°   +45°
2
1   3
-90°   +90°

❾
0°
7
-45°   +45°
5   6
3   4
1   2
-90°   +90°

❿
0°
-45°   +45°
-90°   +90°
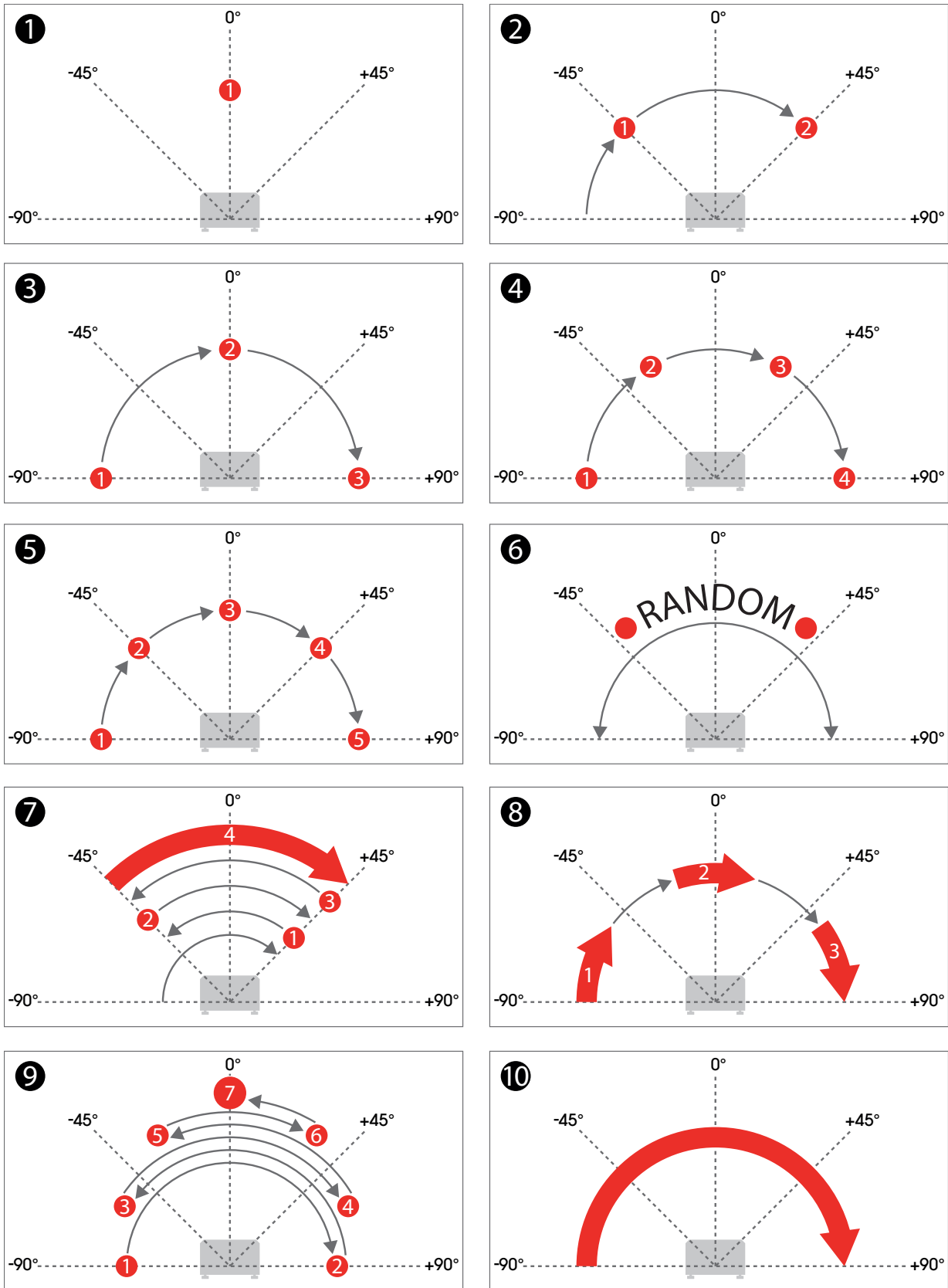
| ❽ | PRESET NUMBER | ● | PULSE | ➡ | SWEEP |
| ③ | SEQUENCE NUMBER (LEFT DIRECTION) | ● | LONG PULSE | ↗ | MOVEMENT OF NOZZLE |

Presets sequences when facing the front side of the unit

In PRESET mode the MAGICFX® PSYCO2JET is controlled with 1 safety address and 4 operational addresses.

DMX Address	Address range
Safety address	1 - 512
Start address (Preset)	1 - 512
Start address + 1 (Speed)	1 - 512
Start address + 2 (Direction)	1 - 512
Start address + 3 (Go)	1 - 512

DMX addresses

The Safety address cannot be the same as one of the operational addresses. Operating of the addresses in PRESET mode results in the following:

DMX Address	DMX Value (Decimal)		Function	
Safety address	0	99	Device disabled	
	100	155	Device enabled	
	156	255	Device test mode (CO2 output is disabled)	
Start address (Preset)	0	24	#1: Single pulse straight up (0°)	
	25	49	#2: 2 pulses distributed over 180° (-45° +45°)	
	50	74	#3: 3 pulses distributed over 180° (-90°, 0°, +90°)	
	75	99	#4: 4 pulses distributed over 180° (-90°, -30°, +30°, +90°)	
	100	124	#5: 5 pulses distributed over 180° (-90°, -45°, 0°, +45°, +90°)	
	125	149	#6: Random pulses over 180°	
	150	174	#7: Pulse at +45°, pulse at -45°, pulse at +45°, sweep from -45° back to +45°	
	175	199	#8: Three sweeps over 180° (-90° to -54°, -18° to +18° and +54° to +90°)	
	200	224	#9: Pulse at -90°, pulse at +90°, pulse at -60°, pulse at +60°, pulse at -30°, pulse at +30°, long pulse at 0°	
	225	255	#10: Sweep over 180°	
Start address + 1 (Speed)	0	255	Minimal speed -> Full speed	
Start address + 2 (Direction)	0	63	Left	Preset repeatedly starts from the left
	64	127	Left Bounce	Preset repeatedly starts from the left and returns mirrored from the right
	128	191	Right Bounce	Preset repeatedly starts mirrored from the right and returns from the left
	192	255	Right	Preset repeatedly starts from the right
Start address + 3 (Go)	0	199	Off	
	200	249	Continuous mode	
	250	255	Step in preset	

Operation of the DMX addresses

When you link multiple machines with DMX, we advise you to use the same Safety address for all machines.

⚠ CAUTION Always plug in a DMX Terminator into the DMX output of the final unit in the control sequence. Using a DMX Terminator improves signal reliability.

1.8 RDM CAPABILITY

Remote Device Management Protocol (RDM) is an enhancement of the DMX512 communication protocol. RDM can be used for configuration and status monitoring while DMX512 takes care of the default DMX controlling.

For RDM you will need a RDM compatible controller, cables and a RDM responder like the MAGICFX® PSYCO2JET. You can activate or deactivate RDM in the menu, see Section 1.5.

The following RDM parameters are supported by the MAGICFX® PSYCO2JET.

Parameter ID	Discovery	GET	SET
DISC_UNIQUE_BRANCH	X		
DISC_MUTE	X		
DISC_UN_MUTE	X		
DEVICE_INFO		X	
SUPPORTED_PARAMETERS		X	
SOFTWARE_VERSION_LABEL		X	
DEVICE_MODEL_DESCRIPTION		X	
MANUFACTURER_LABEL		X	
SLOT_DESCRIPTION		X	
DMX_PERSONALITY_DESCRIPTION		X	
DMX_START_ADDRESS		X	X
IDENTIFY_DEVICE		X	X
DEVICE_LABEL		X	X
FACTORY_DEFAULTS		X	X
DMX_PERSONALITY		X	X
DISPLAY_INVERT		X	X
PAN_INVERT		X	X
RESET_DEVICE			X

RDM parameters

RDM parameters are subject of change due to software updates. Contact MAGIC FX for the latest information and updates.

2 BLAST SAFELY!

The MAGICFX® PSYCO2JET 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® PSYCO2JET.

The MAGICFX® PSYCO2JET must be placed and used in surroundings that preferably:

- Have a reasonably stable temperature of between -10 and 50°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® PSYCO2JET.
- Do not use the MAGICFX® PSYCO2JET 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® PSYCO2JET.
- Make sure there are no freestanding objects or objects that can be damaged by the MAGICFX® PSYCO2JET within the output distance.
- Do not use the MAGICFX® PSYCO2JET without a Controller, Dimmer or DMX Pack.
- 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 Section 1.2)
- 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 CO$_2$

The MAGICFX® PSYCO2JET 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 CO_2 gas and CO_2 cylinders.

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

2.3 INDOOR USE

The MAGICFX® PSYCO2JET 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 CO_2 supplier.
- Calculating the reduction of oxygen for the indoor space.

- Checking the location for spots where CO_2 could accumulate and taking preventive actions.
- Installing CO_2 monitoring devices that will warn for hazardous CO_2 levels.

⚠ DANGER   Do not use the MAGICFX® PSYCO2JET in poor ventilated confined spaces. Exposure to high levels of CO_2 gas 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 as measured from the product is 118 dB(A). This level of noise is only reached during the short instances that the CO_2 output is active. Therefore hearing protection is not necessary.

⚠ WARNING   Do not operate the MAGICFX® PSYCO2JET 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

The following safety symbols are present on the MAGICFX® PSYCO2JET.

Symbol	Meaning
	Read the manual carefully before use!

Safety symbols

2.7   PRECAUTIONS FOR OPERATION

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

⚠ 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.

⚠ 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.

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3 LET'S BLAST!

3.1 MOUNT ON A STAGE

1 Flip the MAGICFX® PSYCO2JET upside down.
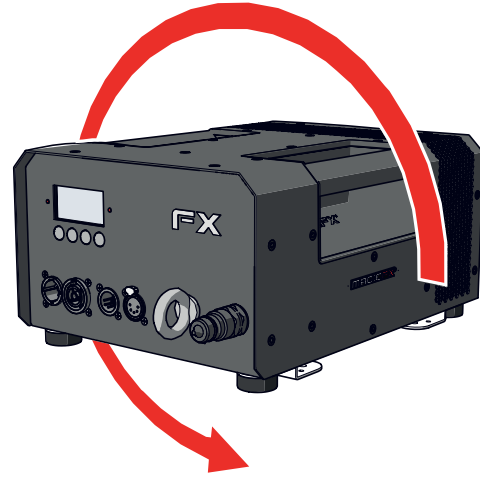
2 Loosen the rubber foots and rotate each stage bracket outwards.
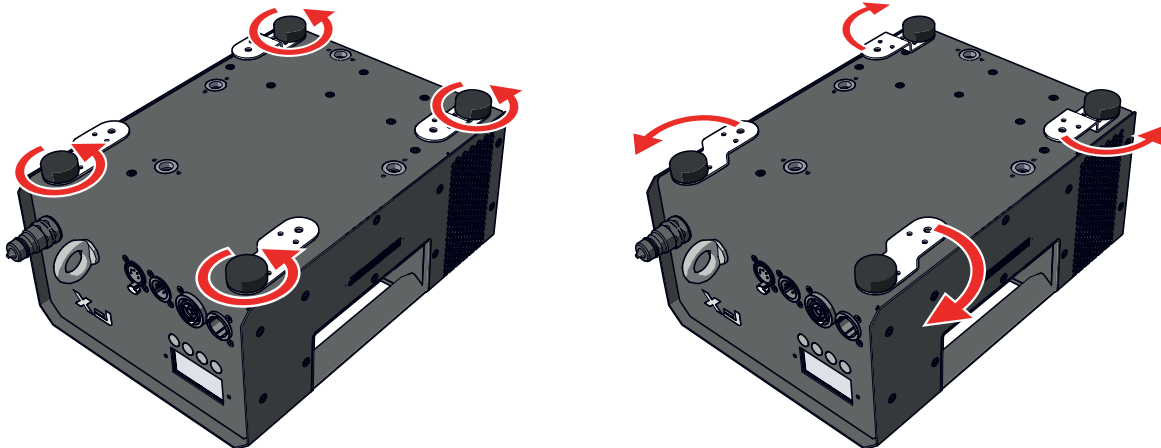
3 Firmly fasten the rubber foots.
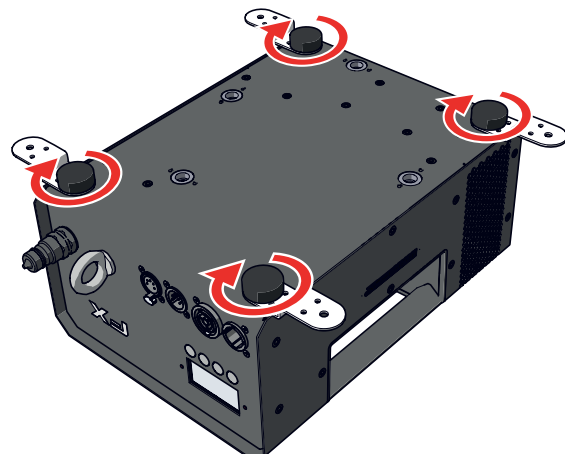
4   Flip the MAGICFX® PSYCO2JET back.
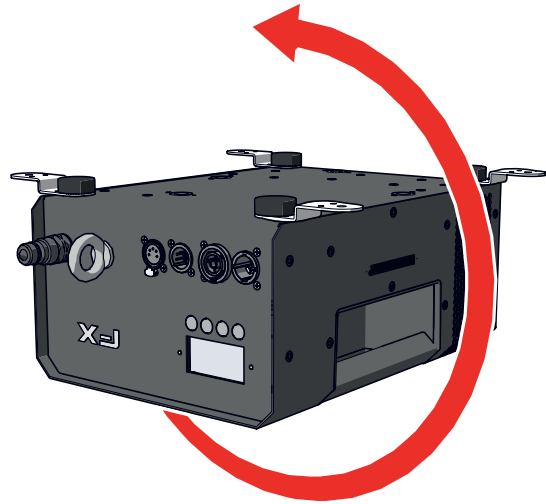

5   Mount the MAGICFX® PSYCO2JET firmly on a stage.
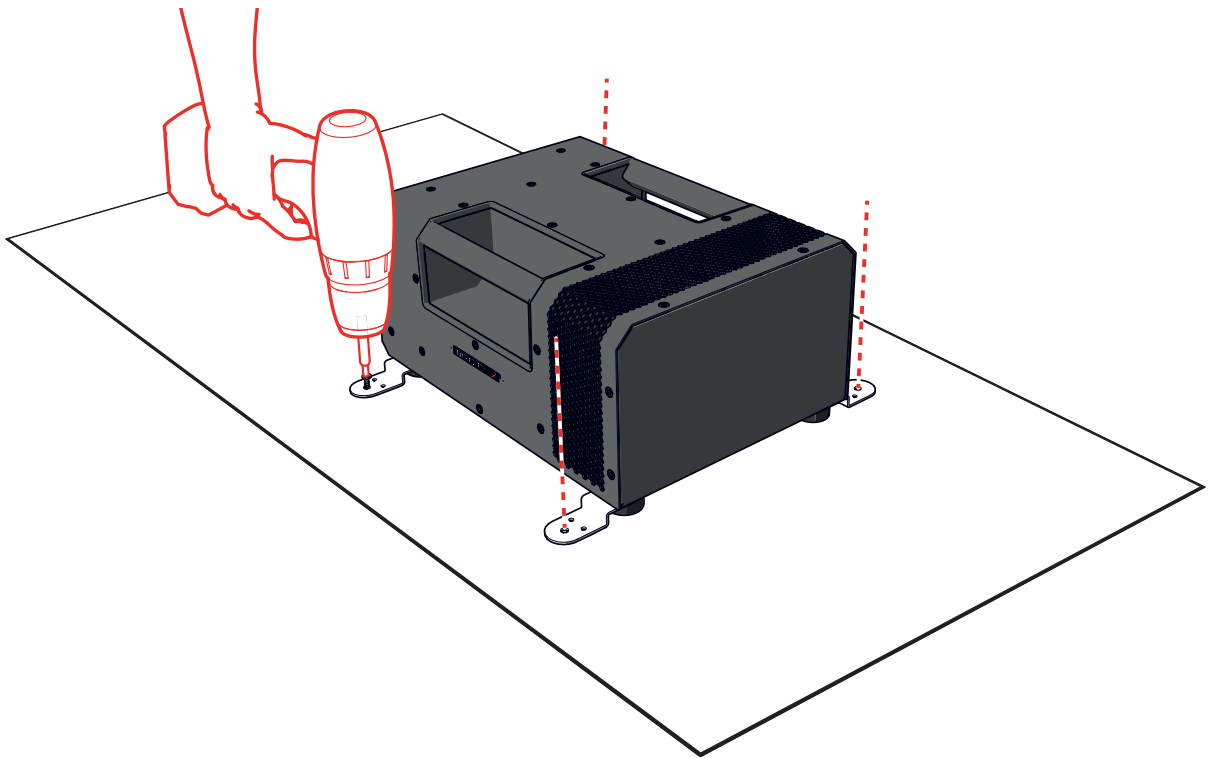
6   Inspect if the MAGICFX® PSYCO2JET is mounted firmly.

7 a) Create a safety zone in the direction of the output of the MAGICFX® PSYCO2JET as shown in the following figure.

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

   c) Make sure there are no freestanding objects or objects that can be damaged by the MAGICFX® PSYCO2JET within the output distance.
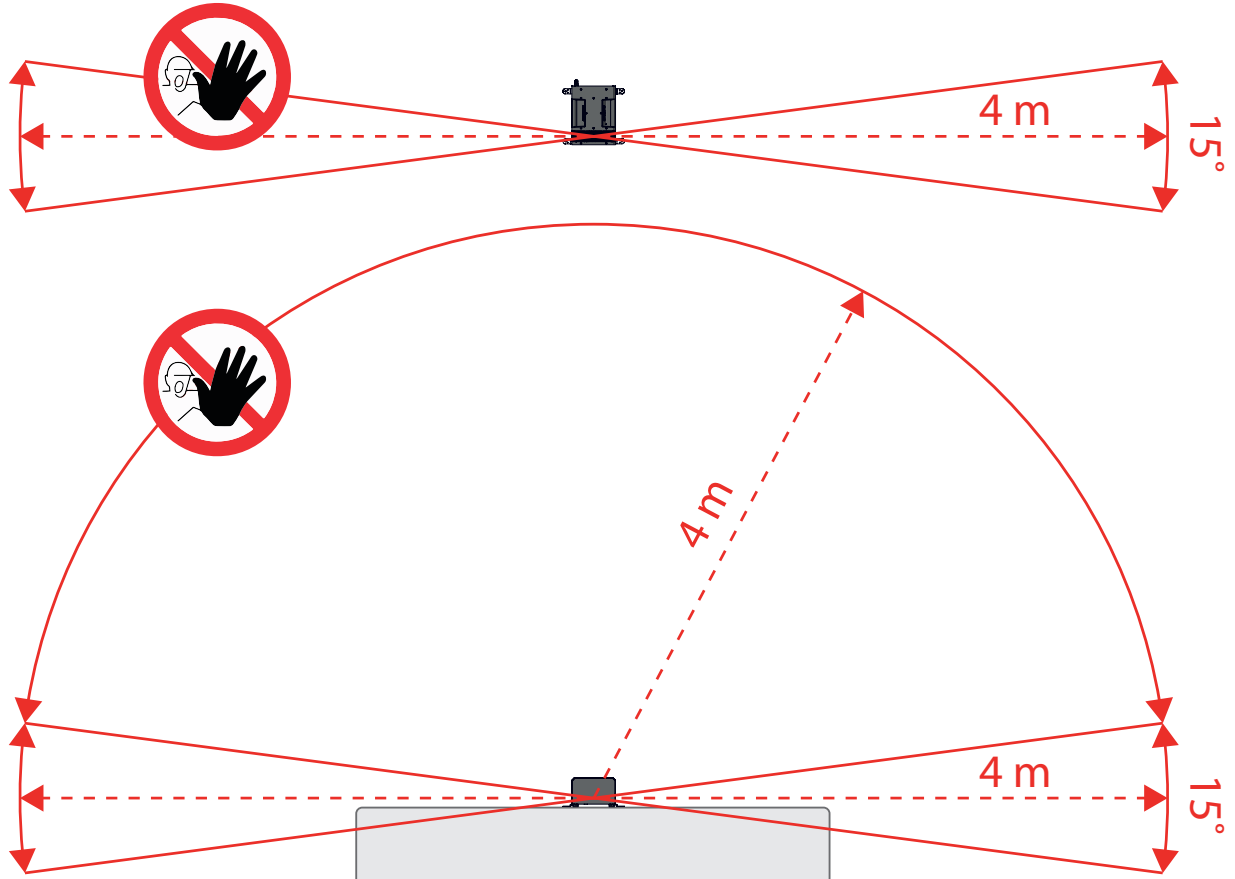

3.2   MOUNT ON A TRUSS

1 Flip the MAGICFX® PSYCO2JET upside down.

2   Optionally you can remove the rubber foots and stage brackets.
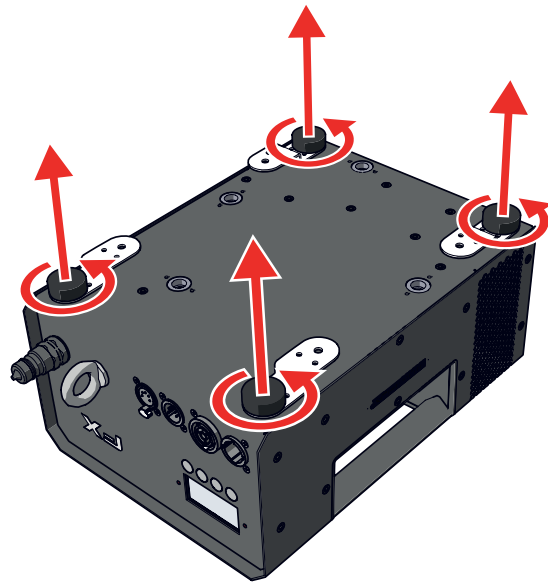
3   Screw clamps into a pair of holes in x or in y direction. Use two M10 twenty clamps for truss mounting (product code MFX3103).
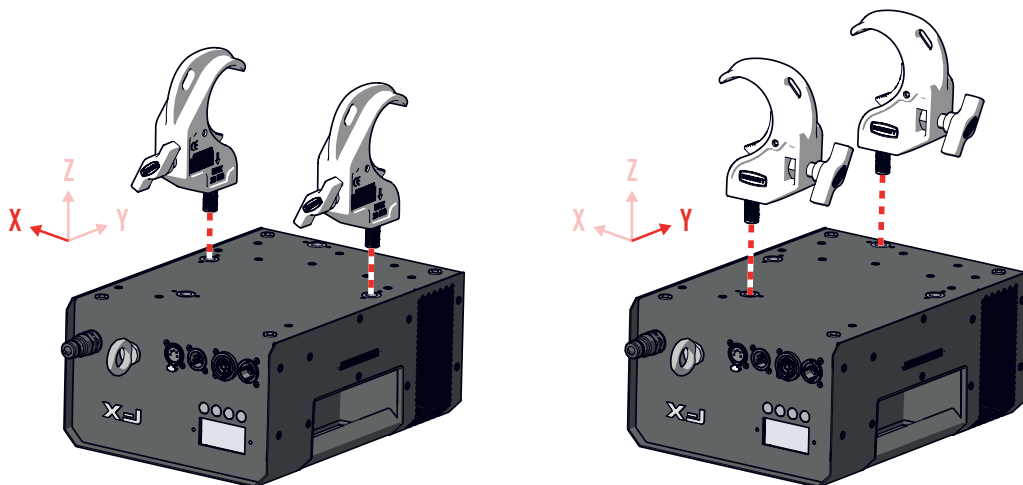
4   Mount the clamps firmly on a truss.
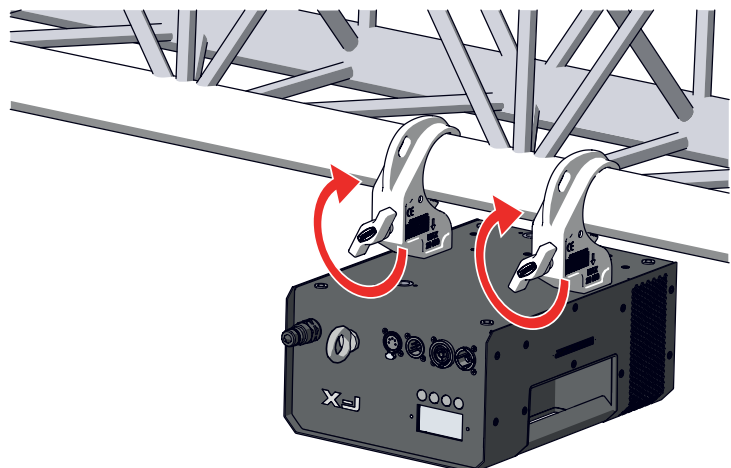
5   Secure the MAGICFX® PSYCO2JET onto the truss with use of the safety eye.
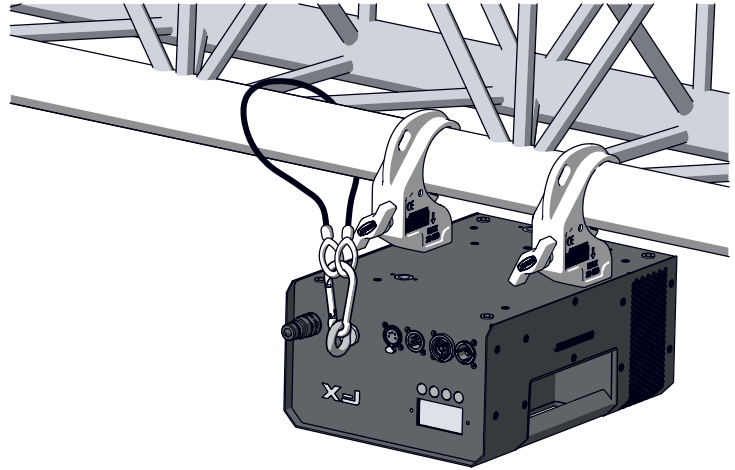
6   Inspect if the MAGICFX® PSYCO2JET is mounted firmly and secured correctly.

7   a) Create a safety zone in the direction of the output of the MAGICFX® PSYCO2JET as shown in the following figure.

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

     c) Make sure there are no freestanding objects or objects that can be damaged by the MAGICFX® PSYCO2JET within the output distance.
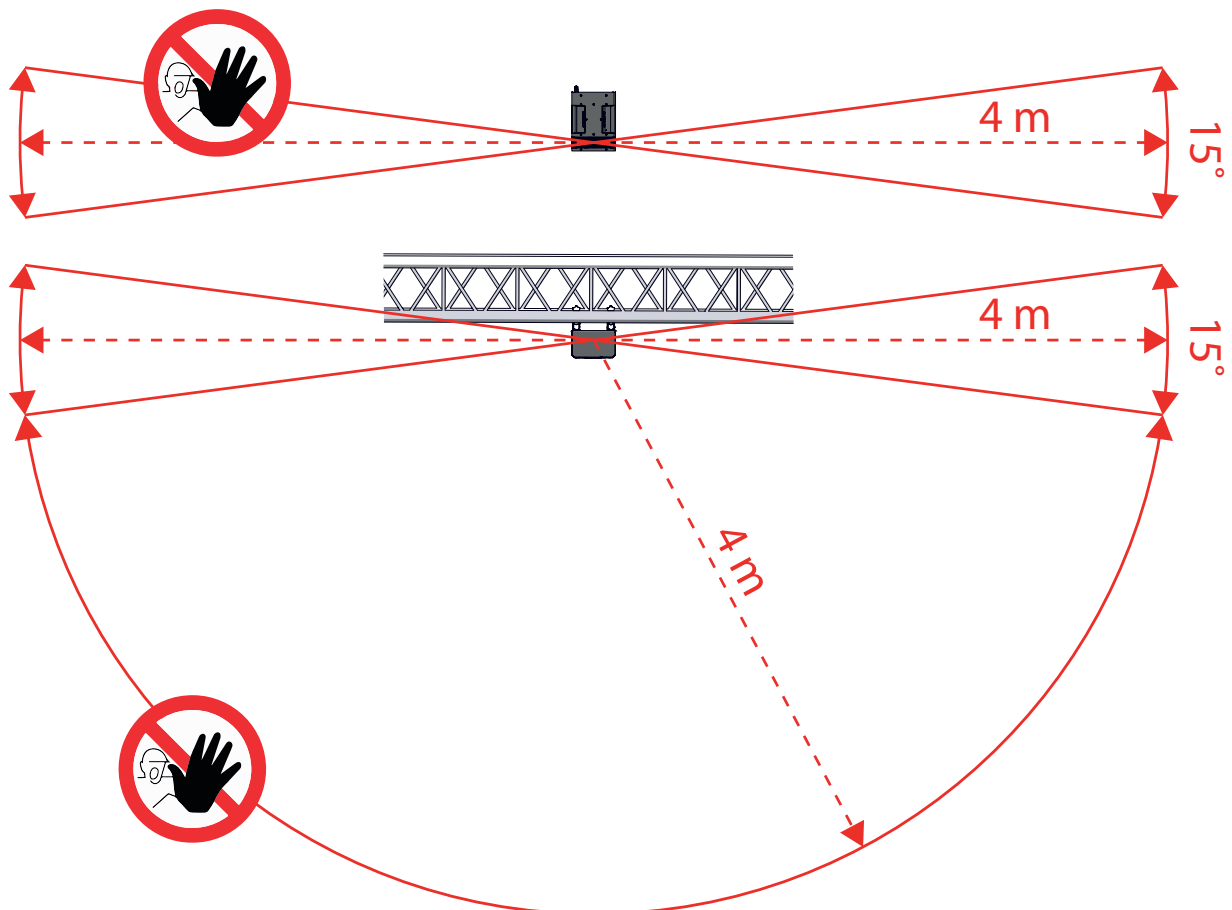
3.3 CONNECT DMX AND POWER

1. Connect a power cable with a Powercon TRUE1 Female connector to the power input.

POWER

PowerCon TRUE1 female

POWER IN   POWER OUT
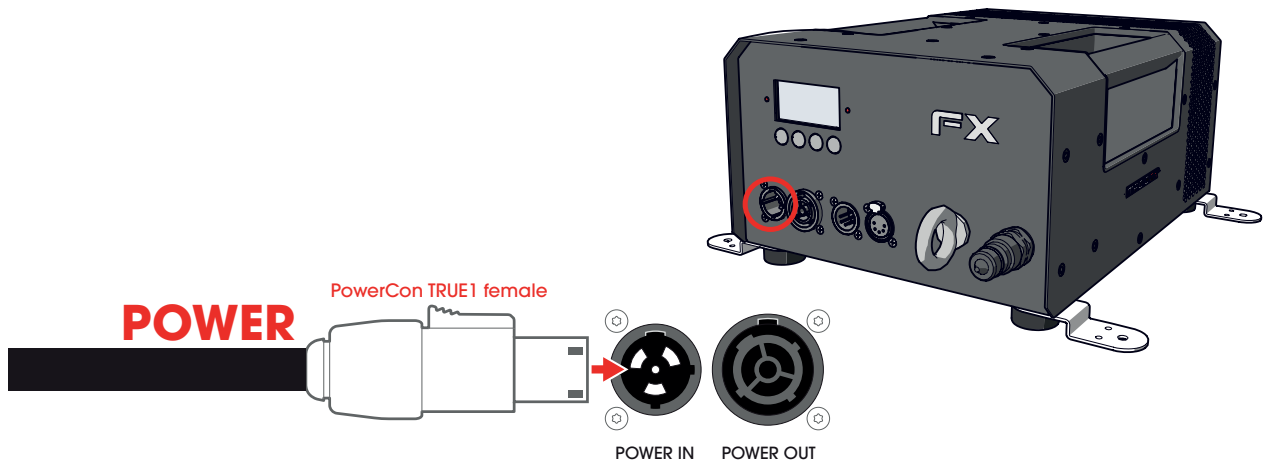
2. Connect the other end of the power cable to a 100-250 Vac (50-60Hz) power source.
3. Connect the female connector of a 5-pole DMX cable in the DMX input.

DMX

5-pole female

DMX IN   DMX OUT
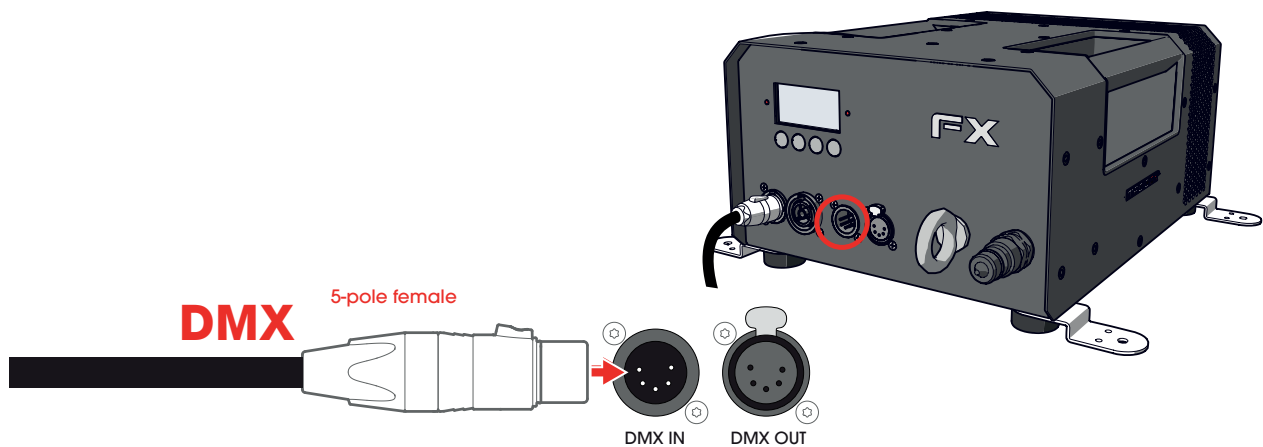
4. Connect the other end of the DMX cable to your DMX controller.
5. Use the display and buttons or a RDM controller to set the machine into RAW or PRESET mode and to assign DMX addresses, see chapter 1.

⚠ CAUTION   Always plug in a DMX Terminator into the DMX output. Using a DMX Terminator improves signal reliability.

3.4 SETUP MULTIPLE MACHINES IN A SEQUENCE

1. Connect a power link cable to the power output.
2. Connect the other end to the power input of the next machine.
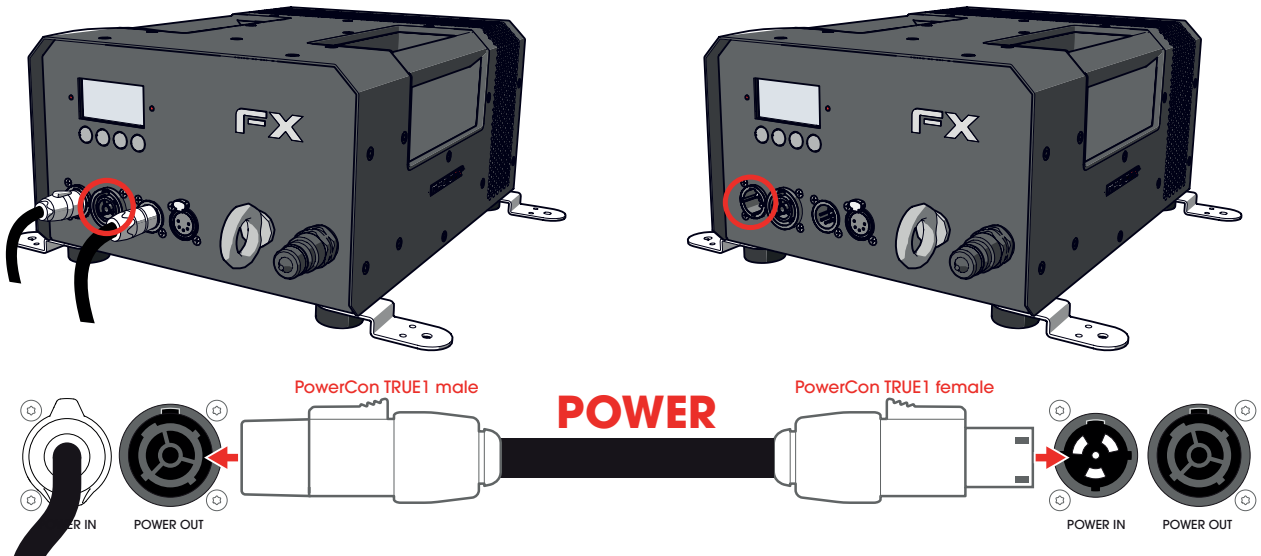
3. Connect a DMX cable to the DMX output.
4. Connect the other end to the DMX input of the next machine.
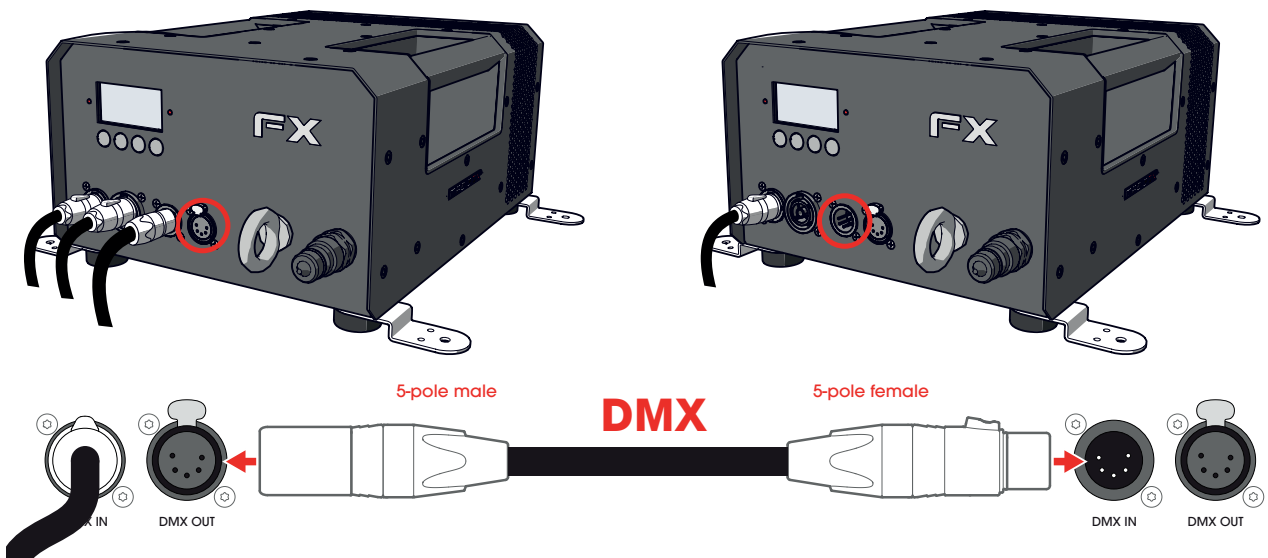
5. Use the display and buttons or a RDM controller to set the machine into RAW or PRESET mode and to assign DMX addresses, see chapter 1.
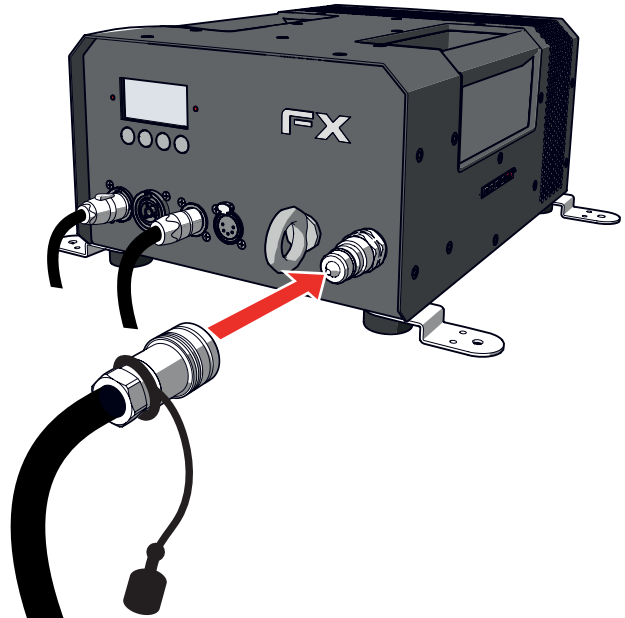6. Repeat steps 1 to 5 for each subsequent machine.

⚠ CAUTION   Always plug in a DMX Terminator into the DMX output of the final unit in the control sequence. Using a DMX Terminator improves signal reliability.

3.5   CONNECT CO$_2$

1   Make sure that the safety channel is deactivated (FX LED indicator on each machine is dimmed).

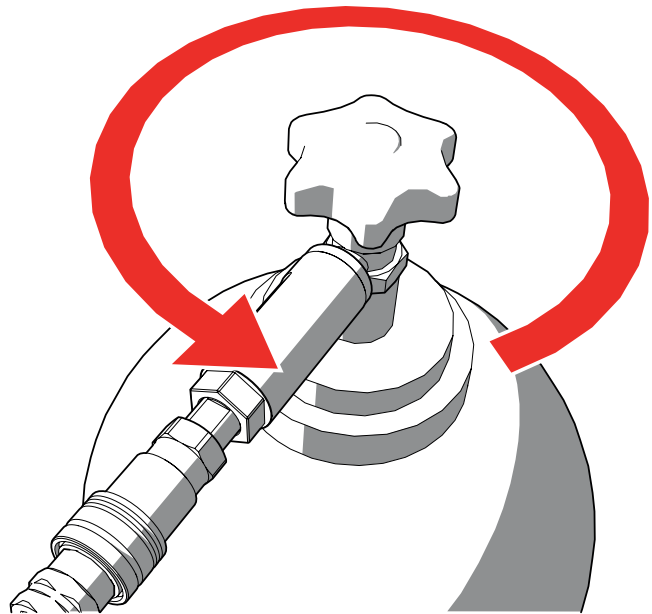**2**   Connect the CO$_2$ hose to the CO$_2$ quick connector.

3   Connect a CO$_2$ bottle-to-hose connector to a CO$_2$ cylinder.
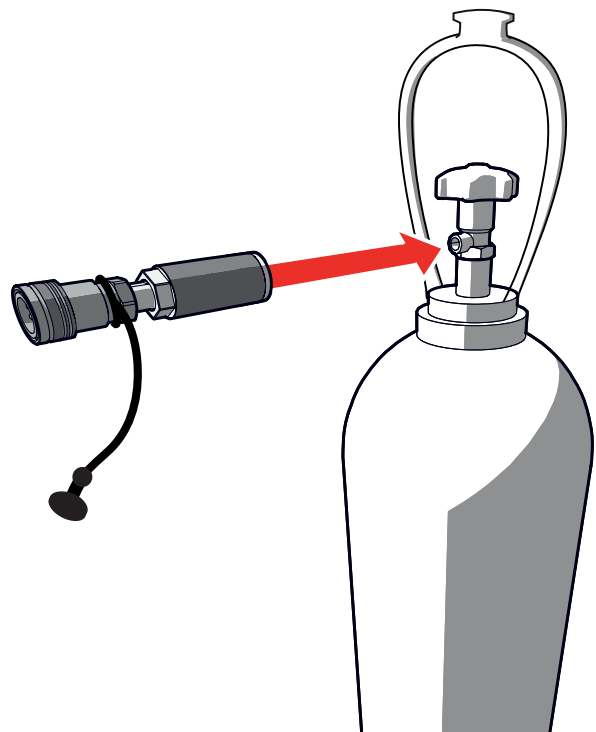
4   Connect the CO_2 hose to the CO_2 bottle-to-hose connector on the CO_2 cylinder.
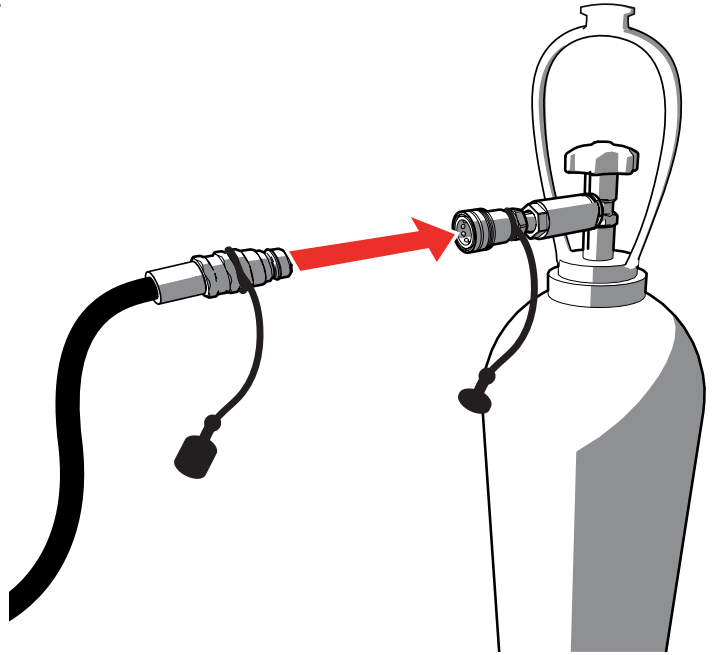
5   Open the CO_2 cylinder.

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

3.6 BLAST WITH DMX

1. Make sure there are no persons, freestanding objects or objects that can be damaged by the MAGICFX® PSYCO2JET within the output distance.
2. Activate the Safety address. The FX LED indicator on each machine lights up.
3. When it's time to blast, activate the necessary operational addresses, see Chapter 1.
4. Enjoy the view!

5. When you are done with blasting, deactivate the operational addresses.
6. Deactivate the Safety address.

3.7   REPLACE A CO_2 CYLINDER

1   Make sure the safety address is not activated (FX LED indicator on each machine is dimmed).

2   Close the CO_2 cylinder. In case of multiple machines, connected in series: Close all CO_2 cylinders.
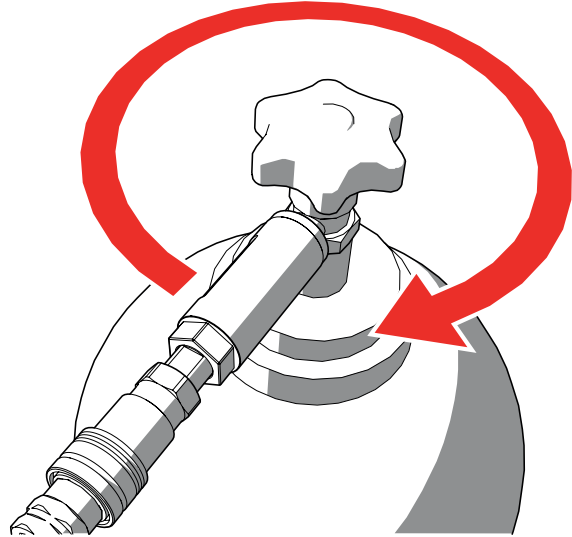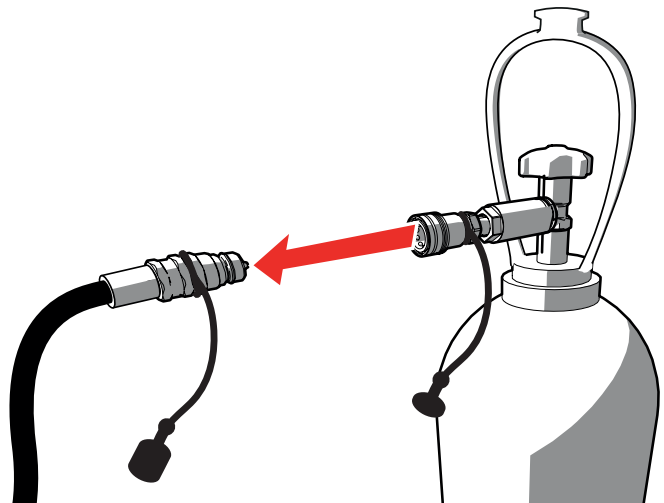

3   Activate the Safety address again. The FX LED indicator on each connected machine lights up.

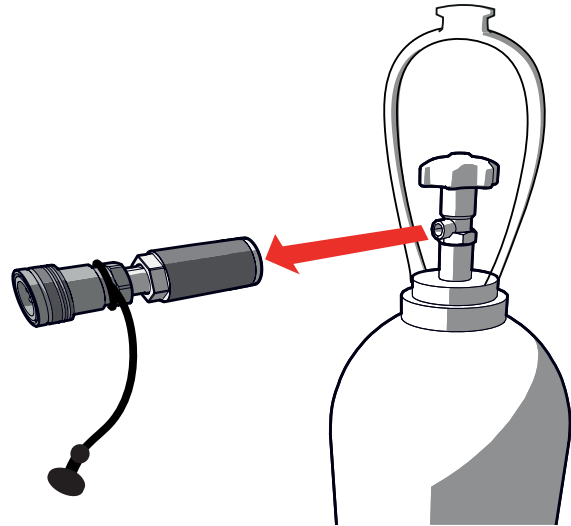**4**   Activate the Start address for CO_2 output to release the pressure from the system.

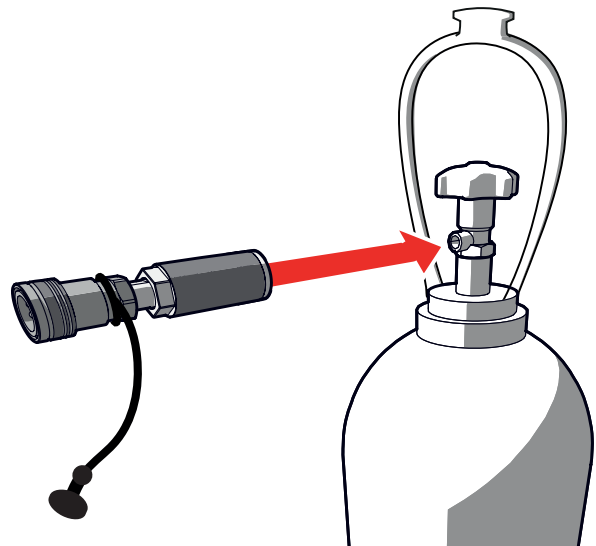**5**   Deactivate all operational addresses.

6   Deactivate the Safety address.

7   Disconnect the CO_2 hose from the CO_2 bottle-to-hose connector on the CO_2 cylinder that you want to replace.
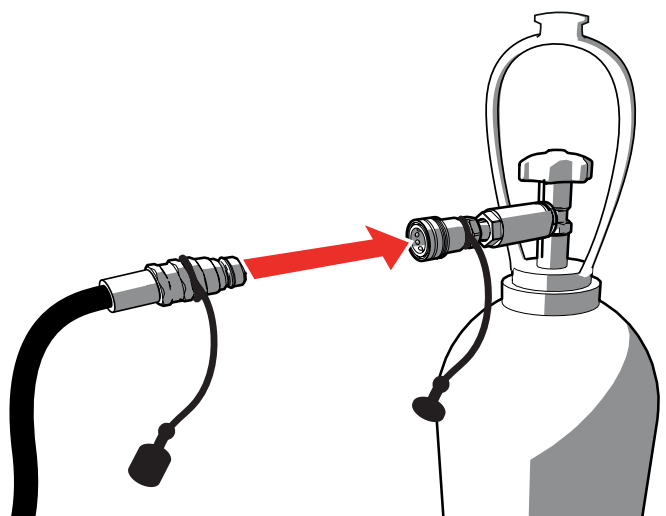
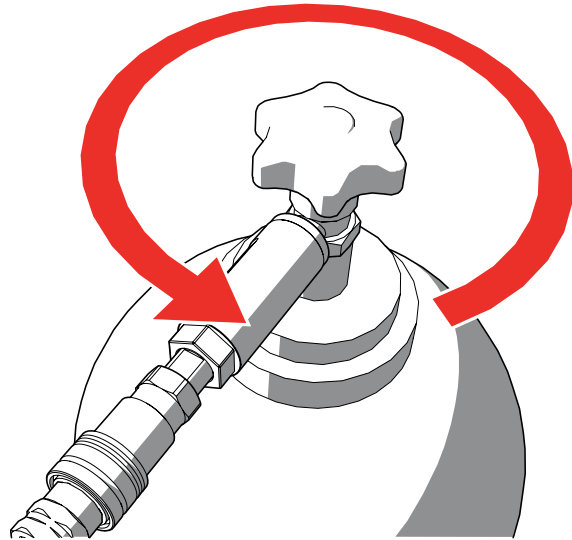**8**   Remove the CO_2 bottle-to-hose connector from the cylinder.

9   Connect a CO_2 bottle-to-hose connector to a new CO_2 cylinder.

10   Connect the CO_2 hose to the CO_2 bottle-to-hose connector on the new CO_2 cylinder.
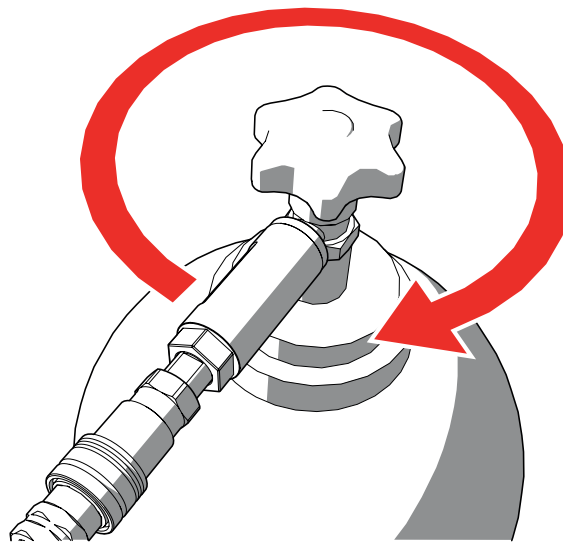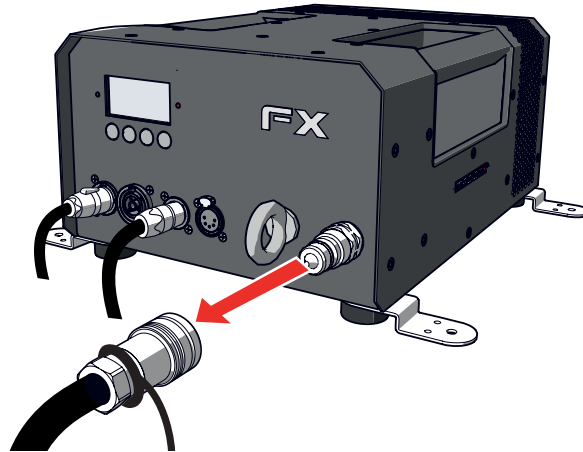
11   Open the CO_2 cylinder.

12   In case of multiple machines: Repeat step 7-11 for each cylinder that you need to replace.

3.8   CLEAN UP

1. Make sure the safety address is not activated (FX LED indicator on each machine is dimmed).
2. Close the CO_2 cylinder. In case of multiple machines, connected in series: Close all CO_2 cylinders.


3. Activate the Safety address again. The FX LED indicator on each connected machine lights up.
4. Activate the Start address for CO_2 output to release the pressure from the system.
5. Deactivate all operational addresses.
6. Deactivate the Safety address.
7. Disconnect the CO_2 hose from the CO_2 quick connector on the machine.

8. Disconnect the CO_2 hose from the CO_2 bottle-to-hose connector on the CO_2 cylinder.
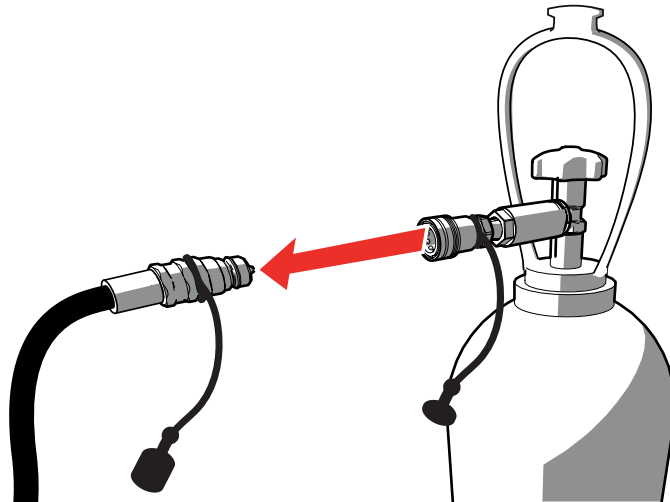
9. Remove the CO_2 bottle-to-hose connector from the cylinder.
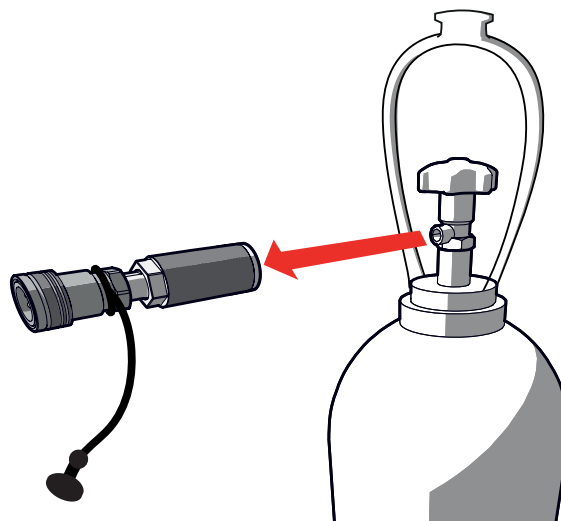
10. Disconnect DMX cable(s) and power cable(s).
11. Dismount the machine.

4   MAINTENANCE

To achieve the maximum service life of the MAGICFX® PSYCO2JET you must regularly clean the MAGICFX® PSYCO2JET and test if it is functioning correctly.

Contact MAGIC FX if the MAGICFX® PSYCO2JET is not functioning correctly.

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

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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 + Machinery Directive 2006/42/EC

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

Name machine	: PSYCO$_2$JET
Type	: MFX1117
Voltage	: 100-250Vac 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):

- 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 60204-1:2006, 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.

☐ 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	: 17-01-2017
Signature	:

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