

# /STAGE FAN & STAGE FAN XL.



AIR FX

**PART00523**

rev 01-00

## **DISCLAIMER**

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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MAGIC FX reserves the right to modify specifications stated in this manual.

## **TRADEMARKS**

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

## **LIABILITY**

MAGIC FX accepts no liability for claims from third parties arising from unauthorised use, use other than that stated in this manual, and use other than in accordance with the General Conditions registered at the Chamber of Commerce.

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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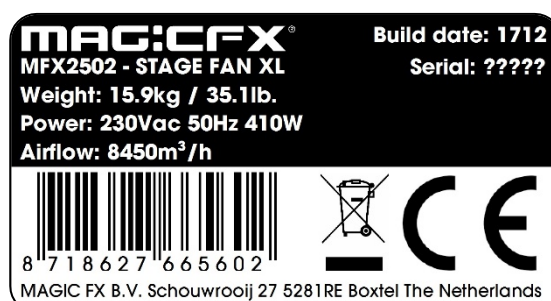
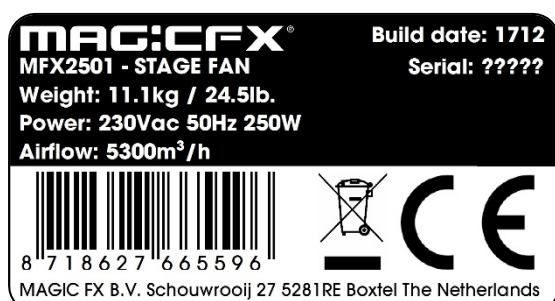
# 1 MEET THE MAGICFX® STAGE FAN (XL)

In this manual both the MAGICFX® STAGE FAN and MAGICFX® STAGE FAN XL are described. The construction and design of both versions are very similar. Differences are clearly expressed in the text. These fans are designed to move or recirculate air or air mixtures. Using the machines in explosive environments for moving or circulating gas, substances, sprays, fumes or a mixture thereof is not permitted. Moving or recirculation of fluids, solids or particulate matter is also not permitted.

## 1.1 TECHNICAL DATA

| Product         | Product Name                | MAGICFX®<br>STAGE FAN       | MAGICFX®<br>STAGE FAN XL    |
|-----------------|-----------------------------|-----------------------------|-----------------------------|
|                 | Product Code                | MFX2501                     | MFX2502                     |
|                 | Product Type                | AIR FX                      | AIR FX                      |
| Main Dimensions | Length (mm/in.)             | 320 / 12,6                  | 327 / 12,9                  |
|                 | Width (mm/in.)              | 515 / 20,3                  | 620 / 24,4                  |
|                 | Height (mm/in.)             | 520 / 20,5                  | 620 / 24,4                  |
| Weight          | Total weight (kg/lb.)       | 11,1 / 24,5                 | 15,9 / 35,1                 |
| Package         | Length (mm/in.)             | 555 / 21,9                  | 715 / 28,1                  |
|                 | Width (mm/in.)              | 550 / 21,7                  | 680 / 26,8                  |
|                 | Height (mm/in.)             | 500 / 19,7                  | 390 / 15,4                  |
|                 | Packaged weight (kg/lb.)    | 15 / 33,1                   | 18 / 39,7                   |
| Environment     | Minimum Temperature (°C/°F) | -25 / -13                   | -25 / -13                   |
|                 | Maximum Temperature (°C/°F) | 40 / 104                    | 40 / 104                    |
|                 | Noise level (dB(A) @ 7M)    | 53                          | 65                          |
| Electrical      | Voltage Input (Vac)         | 230Vac                      | 230Vac                      |
|                 | Voltage Frequency           | 50Hz                        | 50Hz                        |
|                 | Power Consumption (Vac)     | 230W                        | 390W                        |
|                 | Power Connector (Vac)       | Schuko                      | Schuko                      |
| Controlling     | Control Options             | 3-position<br>speed control | 3-position<br>speed control |

## 1.2 PRODUCT IDENTIFICATION



## 2 STORAGE/TRANSPORT

- Transport and store the machine only in its original packaging.
- Storage temperature: -40°C to +60°C.
- Avoid impacts and unnecessary loads to packaging and/or fan.
- In case the packaging is damaged check for damages on the machine.

## 3 INSTALL THE MAGICFX® STAGE FAN (XL)

Before installing the machine be sure that the specifications on the production label match the local voltage and frequency. Make sure that the machine controller is suitable for the machine or that the machine is suitable for the controller.

### 3.1 GENERAL SAFETY RULES

- Only authorised persons may carry out work with the MAGICFX® STAGE FAN (XL).
- Do not use the MAGICFX® STAGE FAN (XL) 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® STAGE FAN (XL).
- Make sure there are no freestanding objects or objects that can be damaged by the MAGICFX® STAGE FAN (XL) within the output distance.
- 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.
- Always allow a free air space of at least 50cm around the unit for ventilation.
- It is the installer's responsibility that the installation and safety instructions are in accordance with current standards and regulations.
- Every fan has to be grounded according to the current standard.
- Do not use the machine as part of a construction.
- Make sure that the machine is not exposed to extreme heat, moisture or dust.
- In case a moving part of the machine (the impeller) is below 2.7m (measured from the floor to the lowest point of the machine), an approved protective wire guard is mandatory.
- CAUTION: In case of speed regulation, the machine may vibrate when incorrectly mounted/installed. Check this before completing the installation.
- CAUTION: The machine must always be built-in or mounted in a stable way before being taken into operation.

### 3.2 INSTALL THE MAGICFX® STAGE FAN (XL)

Remove the condense plug, mounted at the lowest point of the motor. Keep the condense plug in a safe place, for it is necessary to use it during cleaning and maintenance work.

1. Place the machine in a suitable area and make sure it is built-in or placed in a stable way.
2. Adjust the angle towards the desired direction.
3. Connect the machine directly to a power supply or controller.
4. To start blowing:

Set the speed control button in the desired position (1, 2, 3, from slow to fast).

When connected directly: the machine will start blowing.

When using a controller: activate the controller to start blowing.

5. To stop blowing:

When connected directly: set the speed control button in the OFF position (0).

When using a controller: deactivate the controller and set the speed control in the OFF position (0).

6. Disconnect the machine from the power supply and/or controller.
7. Remove the machine.

## 4 MAINTENANCE

**CAUTION:** Never carry out maintenance on a working/rotating fan! Always disconnect the power supply before maintenance.

During all maintenance of the machine:

- the power circuit has to be disconnected and secured against reconnection
- all rotating parts have to be brought to a complete standstill
- all work has to be carried out by qualified personnel.

Servicing:

- Cleaning the machine regularly extends the lifetime of the machine.
- Routine maintenance and cleaning should be carried out at least every 6 months.
- Let the machine run at full speed for at least 2 hours a month, to evaporate humidity that may have penetrated and to prevent corrosion of the bearings.

Cleaning:

- Before cleaning, close the condense opening in the motor using the condense plug.
- Check fan and air lines regularly for contamination.
- Use a damp cloth or a dry brush to clean the machine.
- Do not use aggressive detergents.
- Prevent water penetrating the motor or electric installation.
- After cleaning remove the condense plug at the lowest point of the machine.
- Let the machine run at full speed for at least 2 hours, to evaporate humidity that may have penetrated and to prevent corrosion of the bearings.

Bearings:

- The bearings are maintenance-free. The life span of the bearings is, with normal use, approx. 30,000 hours. After this period the bearings must be replaced.
- Regularly check the condition of the bearings by rotating the impeller manually. It must turn smoothly and without noise.

## 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 EC DECLARATION OF CONFORMITY

### According to Annex II 1 A 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         | : STAGE FAN / STAGE FAN XL |
| Type                 | : MFX2501 / MFX2502        |
| Voltage              | : 230Vac 50Hz              |
| 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

The following harmonized standards were applied:

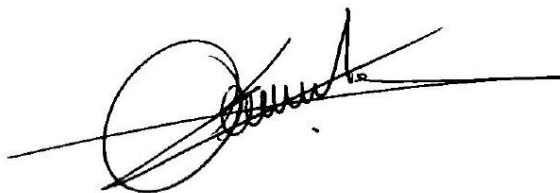
- NEN-EN 349: 1994+A1:2008 Minimum gaps to avoid crushing of parts of the human body.
- NEN-EN-ISO 14120:2015 General requirements for the design and construction of guards.
- NEN-EN-ISO 12100:2010 General principles for design - Risk assessment and risk reduction.
- NEN-EN-IEC 60204-1:2006 Electrical equipment of machines.
- NEN-EN-ISO 13857:2008 Safety distances.
- NEN-EN-ISO 12499:2008 Industrial fans - Mechanical safety of fans - Guarding.
- prEN 14461: 2015 Industrial fans - Safety requirements.
- NEN-EN-ISO 11204:2010 Acoustics - Noise emitted by machinery and equipment.
- NEN-EN 50178:1997 Electronic equipment for use in power installations.
- NEN-EN-ISO 13732-1:2008 Climate conditions - Hot 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 | : 15-12-2017 |

Signature :



**MAG:CFX<sup>®</sup>**  
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