



## User Guide



**Filtering mask model F413**

**Please read this instruction manual carefully before using this product**

# Contents

- Characteristics** .....02
- Components** .....03
- Parameters** .....03
- Safety instructions** .....04
- Air Flow Adjustment** .....04
- Filter replacement** .....05
- Mask maintenance** .....05
- Battery description** .....05
- Battery characteristics** .....06
- Use environment** .....06
- Precautions** .....06

## Characteristics

- ◆ **High protection:** Using highly effective EPA filters, the PM 2.5 micro-particle filtration efficiency is > 98%
- ◆ **Easy breathing:** The built-in fan helps to actively exhaust the residual gas in the mask preventing humidity accumulation inside it, so you will be able to comfortably wear the mask for a long time without getting mist on your glasses
- ◆ **Optional heater:** The optional built-in heating device, together with the patented cavity design, allows using the mask in extremely cold environments
- ◆ **Lightweight design:** the ergonomic design provides a tight fit to the skin, prevents air leaks and evenly distributes the pressure on the face
- ◆ **Style:** its unique and fashionable design separates it from the conventional old-style masks
- ◆ **Long-term safety:** 6 hours of use after a complete recharge, batteries equipped with short circuit protection

## Components



COMPONENT	MATERIAL	FEATURE	CONDITIONS OF USE
mask body	plastic+ABS	main structural component	-20 ÷ +50 °C
soft seal	silicone	environmental protection, comfortable contact for the skin	daily cleaning recommended
lithium-polymer battery	rechargeable battery	before charging, turn off the power and use any USB-standard 5V power supply	If not in use recharge at least every 3 months
fan	FBT	sucks in the outside air and eases breathing	-20 ÷ +50 °C

## Parameters

SPECIFICATIONS			
Parameter	Value	Parameter	Value
model	F413	battery charging time	1.5-2 hours
rated voltage	3.7 V	battery working time	4 hours
working environment	-20 ÷ +50 °C	weight	110 g
noise	50÷60 dB	dimensions	127x120x82 mm
air flow	3.0 m/s	filter efficiency	>98%

## Safety instructions

1. Remove the face seals;
2. Soak in boiling water for 5 minutes;
3. Let the seals cool down and dry;
4. Reinstall the seals, following the alignment holes.

## Air flow adjustment

1. The power-on switch is the lowest of the 3 buttons on the right side of the mask;
2. The fan has 3 gears, push the switch-on button for 3 seconds to switch on the fan in first gear;
3. Momentarily press the same button again for 2nd gear, and again for 3rd gear;
4. The power-off switch is the middle of the three buttons, push it momentarily.



## Filter replacement

The filter must be replaced regularly to prevent accumulation of dust and of fine particles leading to reduction of the filter efficiency. Frequency of replacement depends on the environment. For a PM 2.5 value of approx. 200  $\mu\text{g}/\text{m}^3$  it is recommended to change the filter every 24 hours of use.

## Mask maintenance

### 1. Clean the shell surface

Clean the surface with a cloth wet with 70 °C alcohol or hydrogen peroxide.

### 2. Clean the silicone seal

The seal can be directly removed and cleaned/sterilized with hydrogen peroxide, alcohol, or boiling water

### 3. Internal cleaning

Use a cotton swab wet with alcohol to clean the internal surface.

#### Note:

Do not use water that can infiltrate the circuit board or the motor during the cleaning. In case of accidental water drop inside the mask structure, let it dry thoroughly before using.

When not in use, please store in a dry environment, possibly in its original box.

## Battery description

1. Battery charging description:
  - a. for the first time it is recommended to charge the battery in full;
  - b. charging time is 1.5-2 hours; the fan can be used continuously for more than 6 hours after a full charge;
  - c. connect any USB power source to the micro-USB connector with the provided adapter cable
  - d. a blinking red LED means that the recharging process is ongoing;
  - e. a permanently lit red LED means that the recharge is completed;
  - f. the battery must be charged at room temperature  $20\pm 5$  °C.

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## Battery characteristics

- a. High energy density, safer than traditional lithium batteries;
- b. Type: Lithium ion-polymer soft pack;
- c. Capacity: 2 pieces, 500 mAh each;
- d. Lifetime > 500 times @ 50% capacity

## Use environment

Mainly used for protection in harsh environments such as smog, sand, dust, pollen. The mask is suitable for mining plants, cement plants, grinding decoration, oil injection operation, electronics soldering operation, steel soldering, construction sites, medical care, epidemic situations.

## Precautions

1. This product cannot be used in a low-oxygen environment;
2. For your safety, turn off the product when not in use and recharge at least once every 3 months;
3. Do not modify or abuse this product;
4. Regularly clean the mask and replace the filter chip;
5. It is recommended to remove and clean the soft silicone parts once a day;
6. Do not share the product with others;
7. Do not soak the electronic circuit and the motor in water;
8. Store in a dry and cool place, away from direct sunlight.

## After-sales service

Please follow the indications on the warranty card

**FAYA**