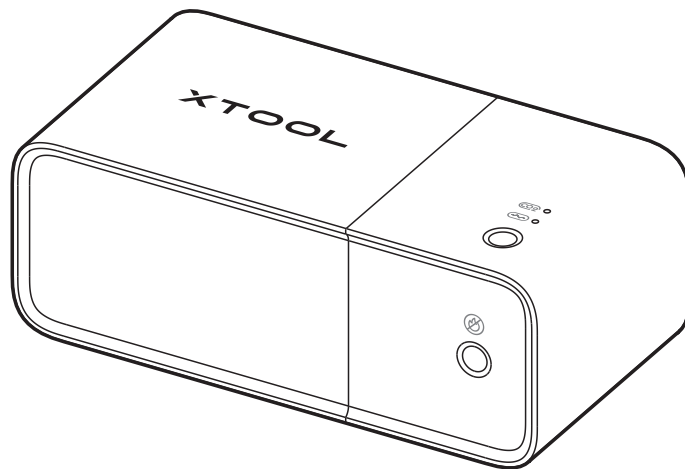


XTOOL | Safety Set

User Manual



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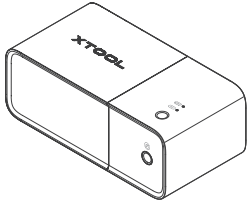
Maintenance 15

Overview

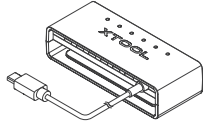
xTool Fire Safety Set is an accessory designed for desktop laser processing machines. With the flame sensors, it can monitor the processing space of a machine and trigger an alarm when a flame is detected. If the flame is large, it can trigger the action of fire extinguishing, automatically completing the process of flame detection to fire extinguishing.

Working temperature	0°C–35°C
Storage temperature	0°C–45°C
Max. processing space supported	0.13 cubic meters

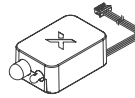
List of items



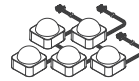
Control box



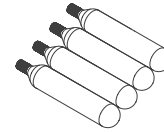
Sensor hub



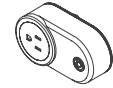
Sensor 1



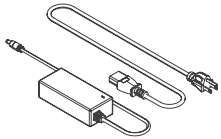
Sensor 2



CO₂ gas bottle



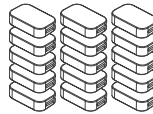
Smart switch



Power adapter & cable



Connection cable
for xTool P2



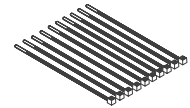
Cable clamp



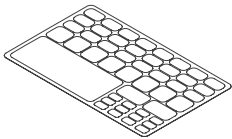
Tube clamp



Tube



Cable tie pack



3M tape



Gas bottle
replacement
reminder sticker



User manual

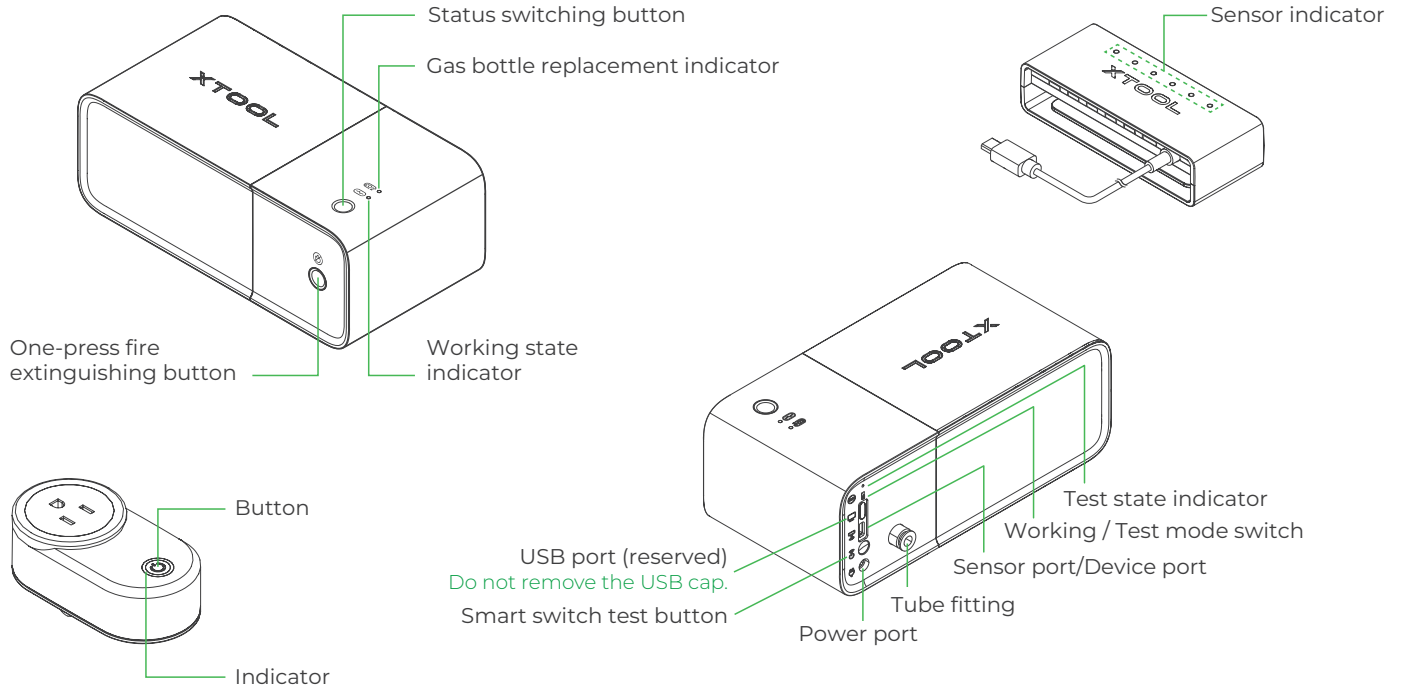


Safety Instructions



The smart switch may vary according to sets. The illustration is for reference only.

Meet xTool Fire Safety Set



Install xTool Fire Safety Set

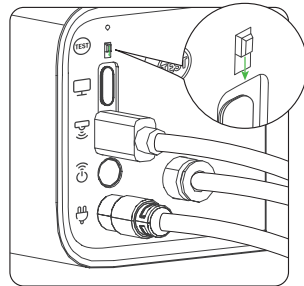
The installation of the fire safety set may vary according to laser processing machines. If you use an xTool machine, visit support.xtool.com/product/17 or scan the QR code to find details about how to install the fire safety set. If you use a third-party machine, refer to the installation of it on xTool machines.



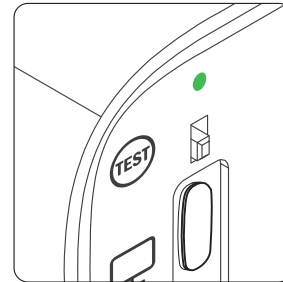
support.xtool.com/product/17

Preparations

1. Enter the test mode

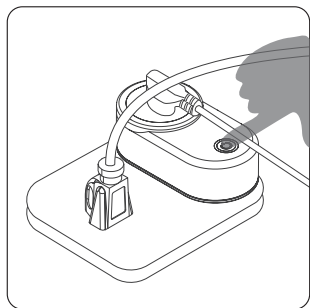


Toggle the switch down to enter the test mode

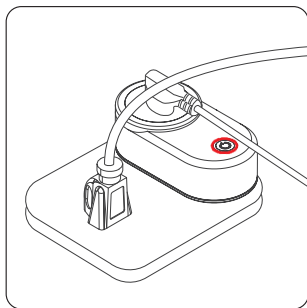


Solid on

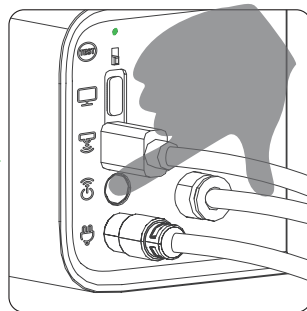
2. Pair the control box with the smart switch



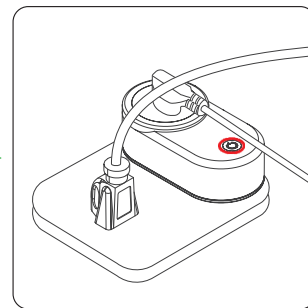
Hold down for 5s



Solid on

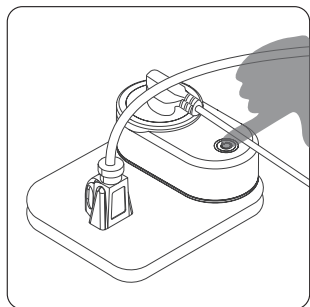


Press

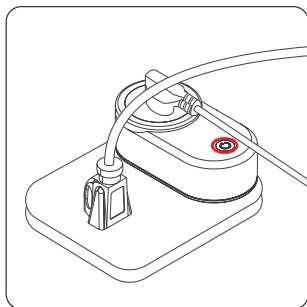


Blinking 3 times and then going off, pairing succeeded

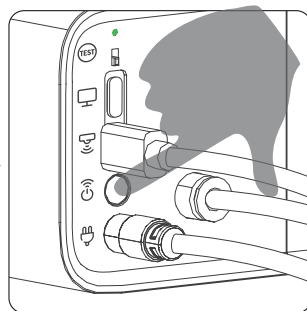
3. Test the control over the smart switch



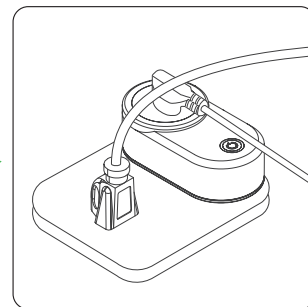
Press



Solid on

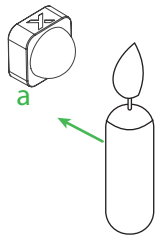


Press

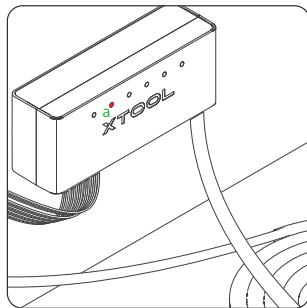


Going off

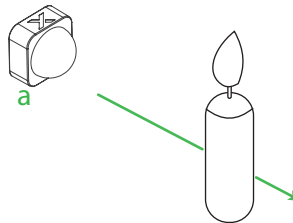
4. Test the sensors



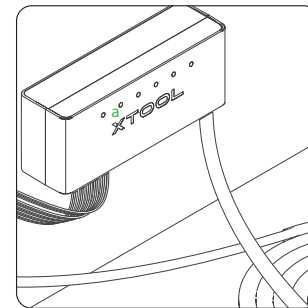
Place an open flame
close to a sensor



Indicator of the
sensor blinking



Take the open flame
away

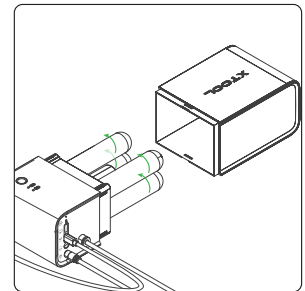
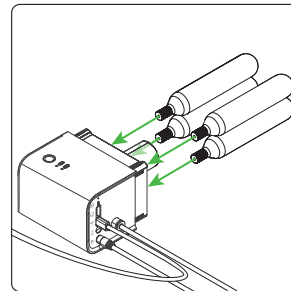
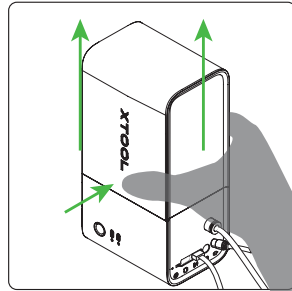
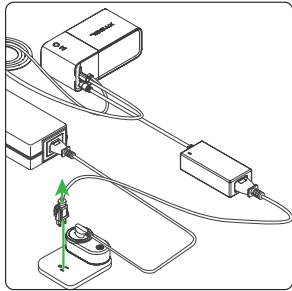


Indicator of the
sensor going off

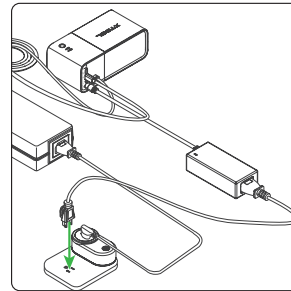
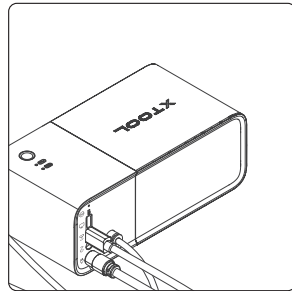
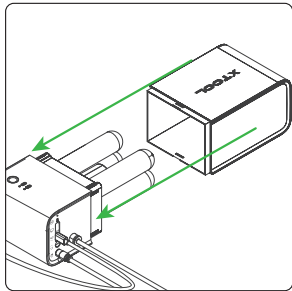
5. Install CO2 gas bottles



Before installation, power off the fire safety set and unplug the power cable. Otherwise, you may touch the one-press fire extinguishing button by mistake to trigger the action of fire extinguishing.

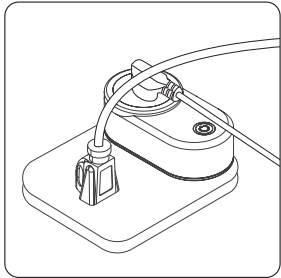


Pinch and pull

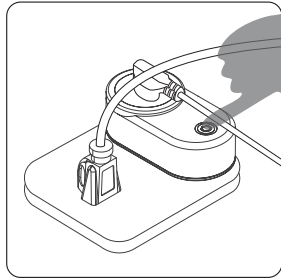


Use xTool Fire Safety Set

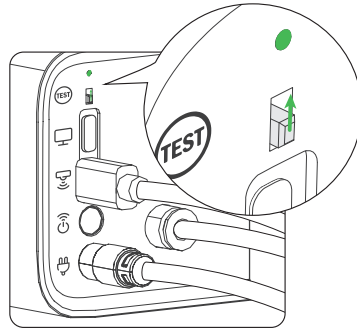
Automatic monitoring



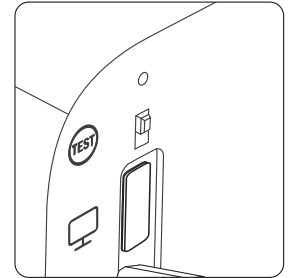
Connect a power supply



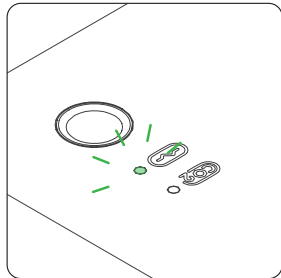
Turn on the switch



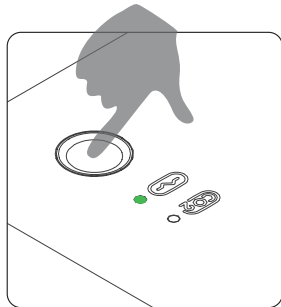
Toggle the switch up to enter the working mode



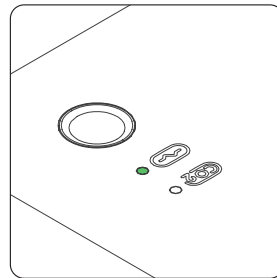
Going off



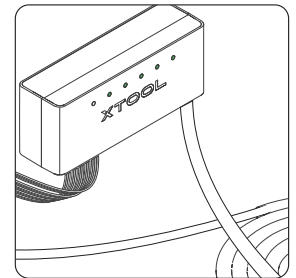
Blinking

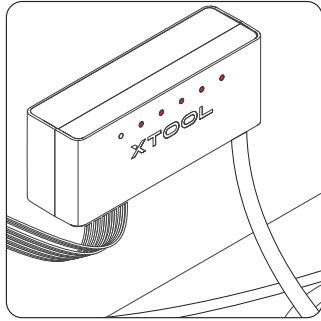


Press

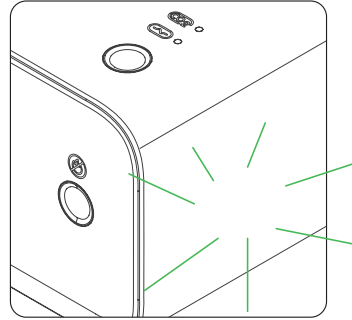


Solid green, entering the monitoring state





Blinking red



Buzzer sounding

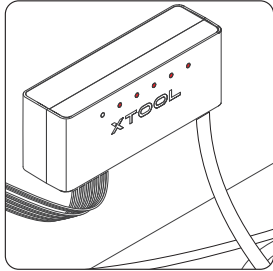
When a flame is detected, the sensor indicators blink and the buzzer sounds.

- Slow sound: small flame detected, triggering an alarm only
- Medium-speed sound: slightly larger flame detected, triggering an alarm only
- Rapid sound: large flame detected, triggering an alarm and the action of fire extinguishing

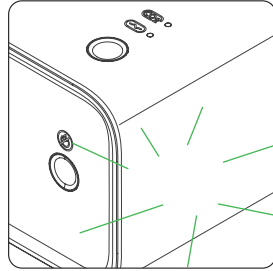
During fire extinguishing, the gas is released twice at an interval of 20s. Please wait for the process to complete before you touch the control box.

As the flame goes smaller, the sound of the buzzer goes more and more slowly, and the alarm stops when the flame goes off.

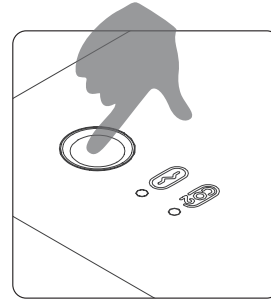
Cancel the alarm



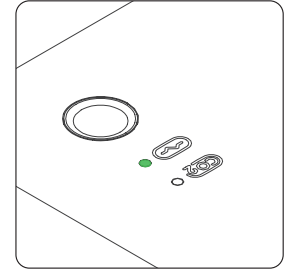
Blinking red



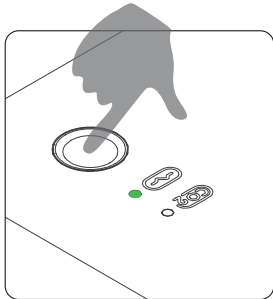
Buzzer sounding



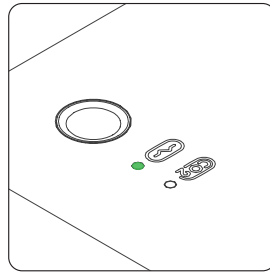
Press the button within 5s



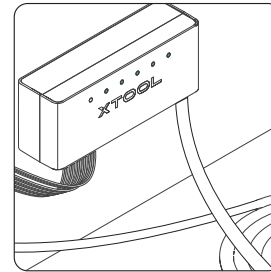
Blinking



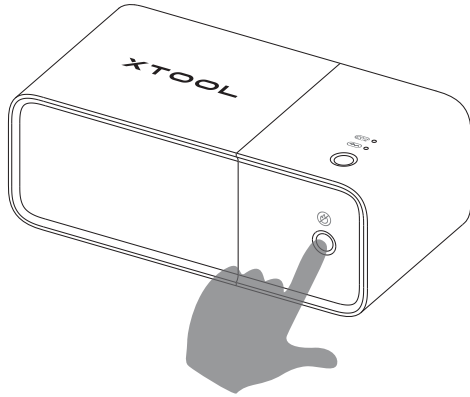
Press



Solid green, entering the monitoring state



One-press fire extinguishing



When the fire safety set works in working state, you can press the button to manually trigger the action of fire extinguishing.

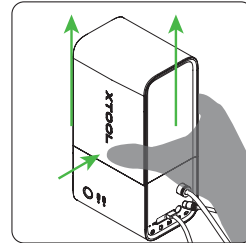
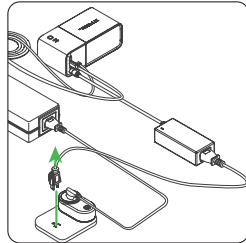
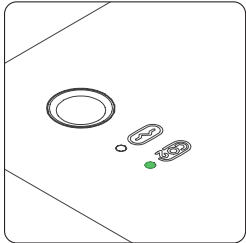
During fire extinguishing, the gas is released twice at an interval of 20s, please wait for the process to complete before you touch the control box.

Exercise caution when you perform this operation. The action of fire extinguishing cannot be undone.

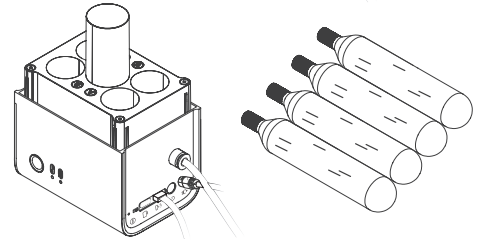
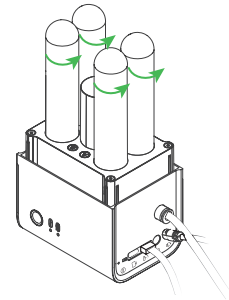
Replace CO₂ gas bottles



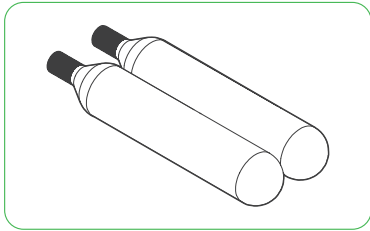
- Before replacing the CO₂ gas bottles, power off the fire safety set and unplug the power cable. Otherwise, you may touch the one-press fire extinguishing button by mistake to trigger the action of fire extinguishing.
- After performing the action of fire extinguishing, the gas bottle replacement indicator is solid on, indicating that you need to replace the gas bottles. You need to purchase new gas bottles for replacement.
- Note that the gas bottles can be used only once. Replace them after the gas is released.



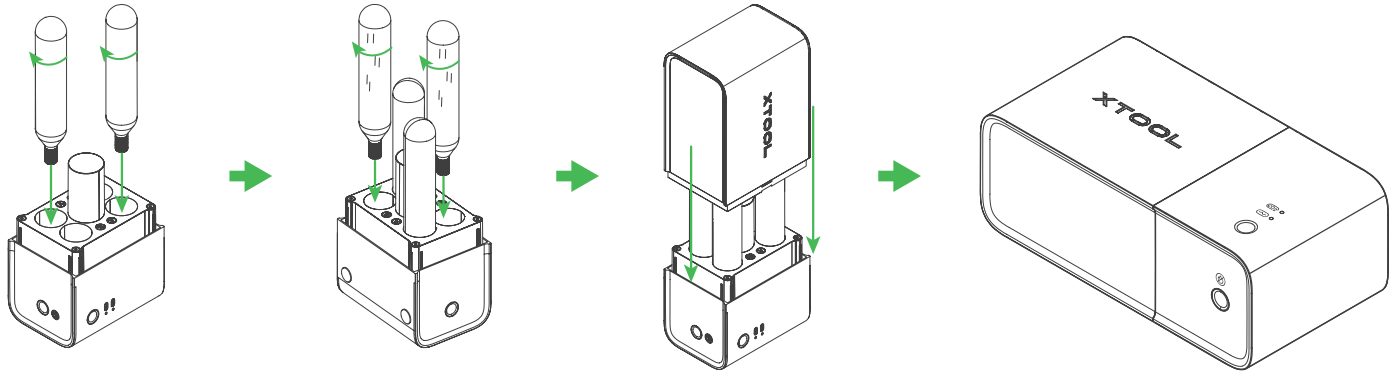
Pinch and pull



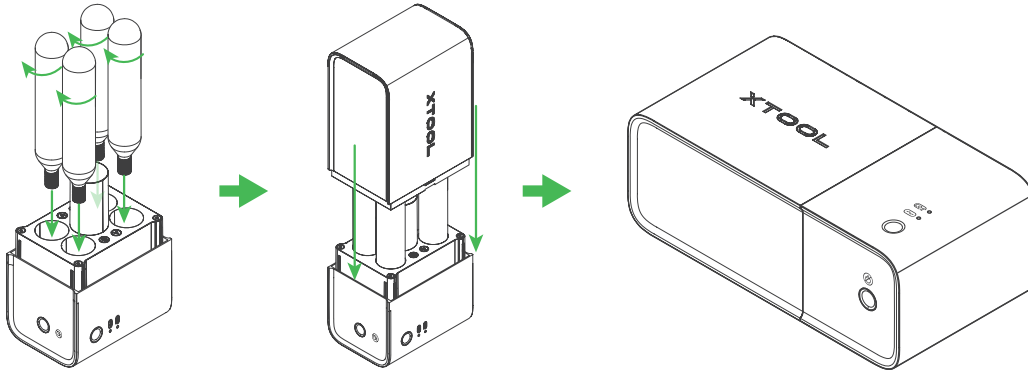
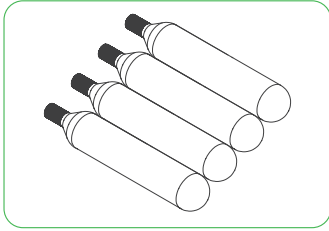
■ If the closed processing space is no more than 0.065 cubic meters, you can choose to replace 2 or 4 gas bottles.



If you use 2 gas bottles, install them on a diagonal, for example, installing them on holes A, and then install two empty gas bottles on the other diagonal.



■ If the closed processing space is more than 0.065 and no more than 0.13 cubic meters, you need to replace 4 gas bottles.



Maintenance

Check and maintain the fire safety set at least once a month, including:

- Cleaning the sensors
- Checking whether the sensors are working properly
- Checking whether the smart switch is working properly
- Checking the working state of the fire safety set
- Checking whether the gas bottles are tightened inside the control box