6. PRODUCT FEATURES AND INTERFACE INTRODUCTION

6.1 HMP-E PORTABLE SIMULATED FIRE EXTINGUISHER

LEVER

HANDLE

SAFETY PIN

DISPLAY DIAL

TOP INDICATOR LIGHT

HOSE

NOZZLE

BASE

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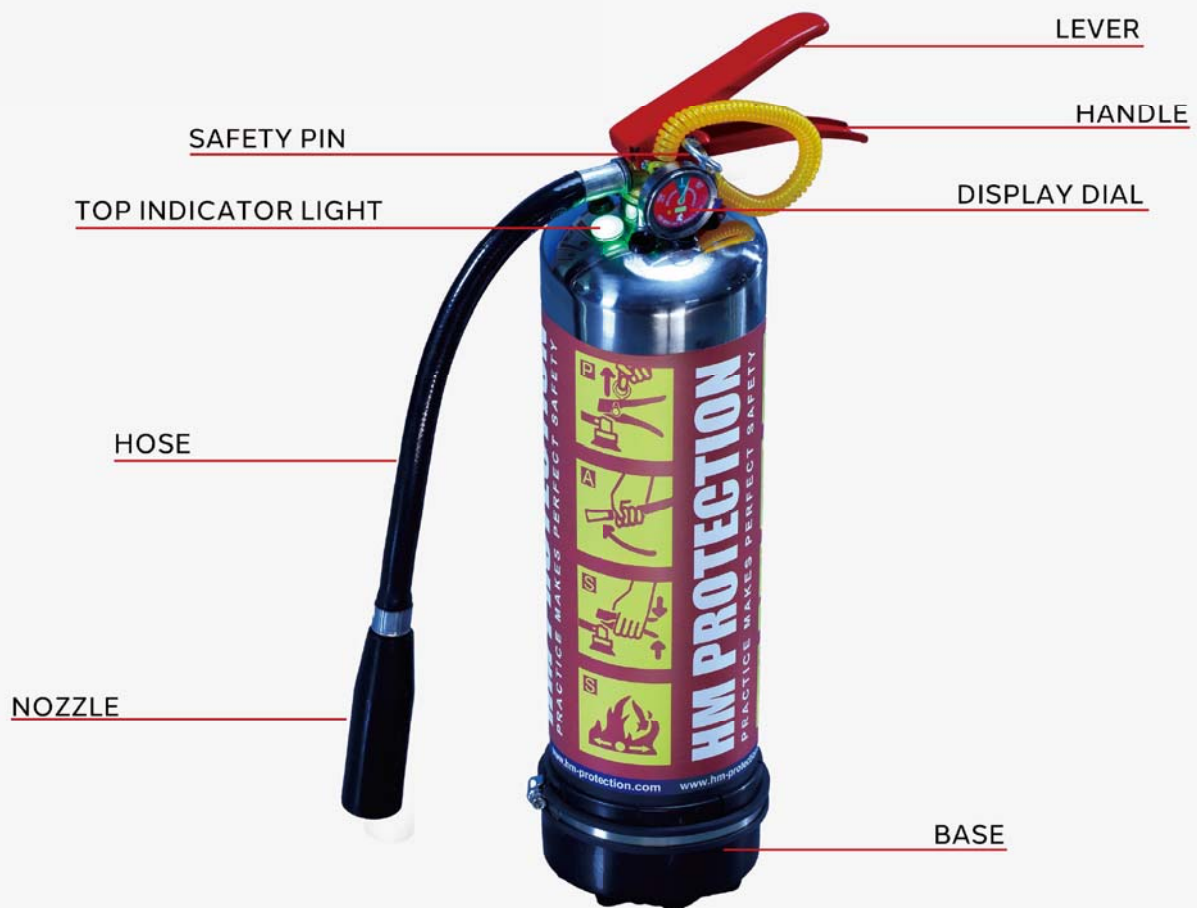
6.1.1 Instructions for top indicator light of the simulated fire extinguisher

There will be different display mode in the startup and normal operation.

A. DURING THE STARTUP

The top indicator ligh flashes 1-5 times in yellow based on the battery level (5 flashes indicate a full battery, 2 flashes suggest planning for a recharge) before turning green.

NOTE:
If the battery is too low, the indicator light turns red, flashes several times and the fire extinguisher automatically shuts down.

B. DURING NORMAL OPERATION

Steady **Green**
A steady green light indicates that the fire extinguisher is ready.

Steady **Yellow**
A steady yellow light indicates it is in the process of extinguishing a fire.

Steady **Red**
A steady red light indicates the extinguisher has finished spraying.

6.1.2 Information on the dial of the HMP-E Simulated Fire Extinguisher

There will be different information in the startup and normal operation.

HMP-E Simulated Fire Extinguisher activation interface.

TE-00504 is HMP-E Simulated Fire Extinguisher serial number.

TC 33 is HMP-E Simulated Fire Extinguisher total number.

A Auto operation

M Manual

Battery level indicator

NOTICE:
Read Chapter 6.1.5 of " HMP-E Simulated Fire Extinguisher Charging" for more details.
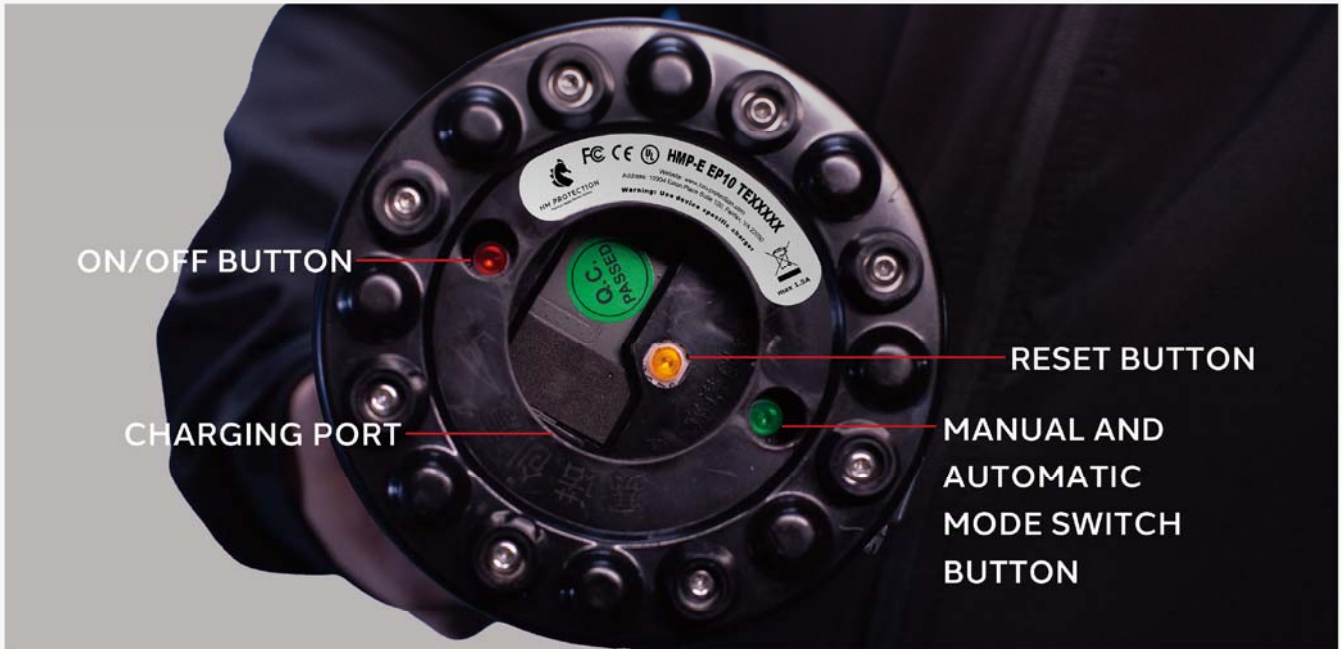
Recharge zone

Normal pressure zone

Overcharged zone

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6.1.3 The buttons at the base of HMP-E Simulated Fire Extinguisher

ON/OFF BUTTON

Long press the red button; both the red and yellow lights will illuminate, and the top Indicator light will flash 1-5 times before turning green, indicating that the HMP-E Simulated Fire Extinguisher is turned on. A long press of the red button turns off the red and yellow lights and the top indicator, indicating that the HMP-E Simulated Fire Extinguisher is off.

RESET BUTTON

The HMP-E Simulated Fire Extinguisher matches the duration of a standard 11lb (5kg) dry powder fire extinguisher , capable of spraying continuously for about 15 seconds. In manual mode, press the reset button to refill a depleted extinguisher. The yellow indicator flashes when the extinguisher is in manual drill mode.

MANUAL AND AUTOMATIC MODE SWITCH BUTTON

In automatic restart mode, the green light flashes, and the extinguisher automatically recharged itself 3 seconds after fully discharged. Press the green key to toggle between manual drill mode and automatic restart mode.

CHARGING PORT

Use the accompanying charger connected to an AC power supply for charging, which typically takes about 3 hours based on the charger's status indicator. Always use the designated charger provided with the extinguisher for charging.

6.1.4 Lever and Handle

SQUEEZE THE LEVER TO RELEASE THE SIMULATED FIRE EXTINGUISHER AGENT. TO STOP, RELEASE THE HANDLE.

- HMP-E Simulated Fire Extinguisher adopts standard 11lb (5kg) dry powder fire extinguisher pressure handle and valve core.

- When the Lever of HMP-E Simulated Fire Extinguisher is pressed down, the internal control board input switch is closed and the simulated fire extinguishing operation is started.

- When the Lever of the fire extinguisher is lifted, the input switch of the internal control panel is disconnected, and the Simulated fire extinguishing operation is suspended.

NOTICE

- After discharge the HMP-E Simulated Fire Extinguisher, it can be used for a maximum time of 15 seconds. After 15 seconds, the Simulated Fire Extinguisher will automatically turn off the LED beam, indicating that the Simulated Fire Extinguisher has run out of dry powder and can no longer operate. The Simulated Fire Extinguisher needs to be refilled manually or automatically before the next operation can be carried out.
- HMP-E Simulated Fire Extinguisher will automatically shut down without any operation within 30 minutes.

6.1.5 HMP-E Simulated Fire Extinguisher Charging

CHARGING PROCEDURE:

Step 1 The Simulated Fire Extinguisher is switched off.

Step 2 Connect the charger power cable.

Step 3 Connect the AC power supply. The charger indicator is green.

Step 4 Plug in the the Simulated Fire Exinguisher charging port, and the charger indicator turns red.

Step 5 The charger indicator light turns green. Charging ends.

Step 6 Remove the the Simulated Fire Exinguisher charging cable.

Step 7 Disconnect AC power supply.

NOTICE

- The Simulated Fire Exinguishers should be charged when they are not in use and need to be stored for a long time.
- When the fire extinguisher automatically shuts down due to low battery power, it needs to be charged.
- When the fire extinguisher battery indicator is below 2 bars, it is recommended to charge.

TIPS ON THE BATTERY

- Battery type： Lead-acid battery
- Battery capacity： 12V 7Ah
- Compliance with IEC 61056
- UL Certified,CE Certified
- At 77 ℉ （25℃） , the design floating charging life can reach 5 years. Number of battery cycle charging times > 350.
- Battery fully charged state use times > 2000 times (* calculated according to the fire extinguishing time of 15 seconds, fire extinguishing interval of 60 seconds)

THE LEAD-ACID BATTERY NEEDS TO BE REPLACED UNDER THE FOLLOWING CONDITIONS:

- Capacity decline: When the battery is fully charged, the number of times of use decreases significantly, and the running time of the device becomes shorter when using battery power.
- Charging problems: the battery takes a long time to charge or cannot be fully charged, or it runs out of power soon after charging.
- Physical changes: battery expansion, deformation or obvious damage to the shell.
- Voltage test: Use a voltmeter to measure the voltage of the battery. If the voltage is below the normal range, the battery needs to be replaced.

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6.2 HMP-E PORTABLE SIMULATED FLAME INSTRUMENT

FLAME SCREEN

POWER LINE AND ITS STORAGE SLOT

BODY

CONTROL PANEL

DISPOSABLE STEEL WIRE SEAL

UPPER LID

POWER OUTLET

WHEEL

NAMEPLATE

FAN INLET

HMP-E PORTABLE SIMULATED FLAME INSTRUMENT

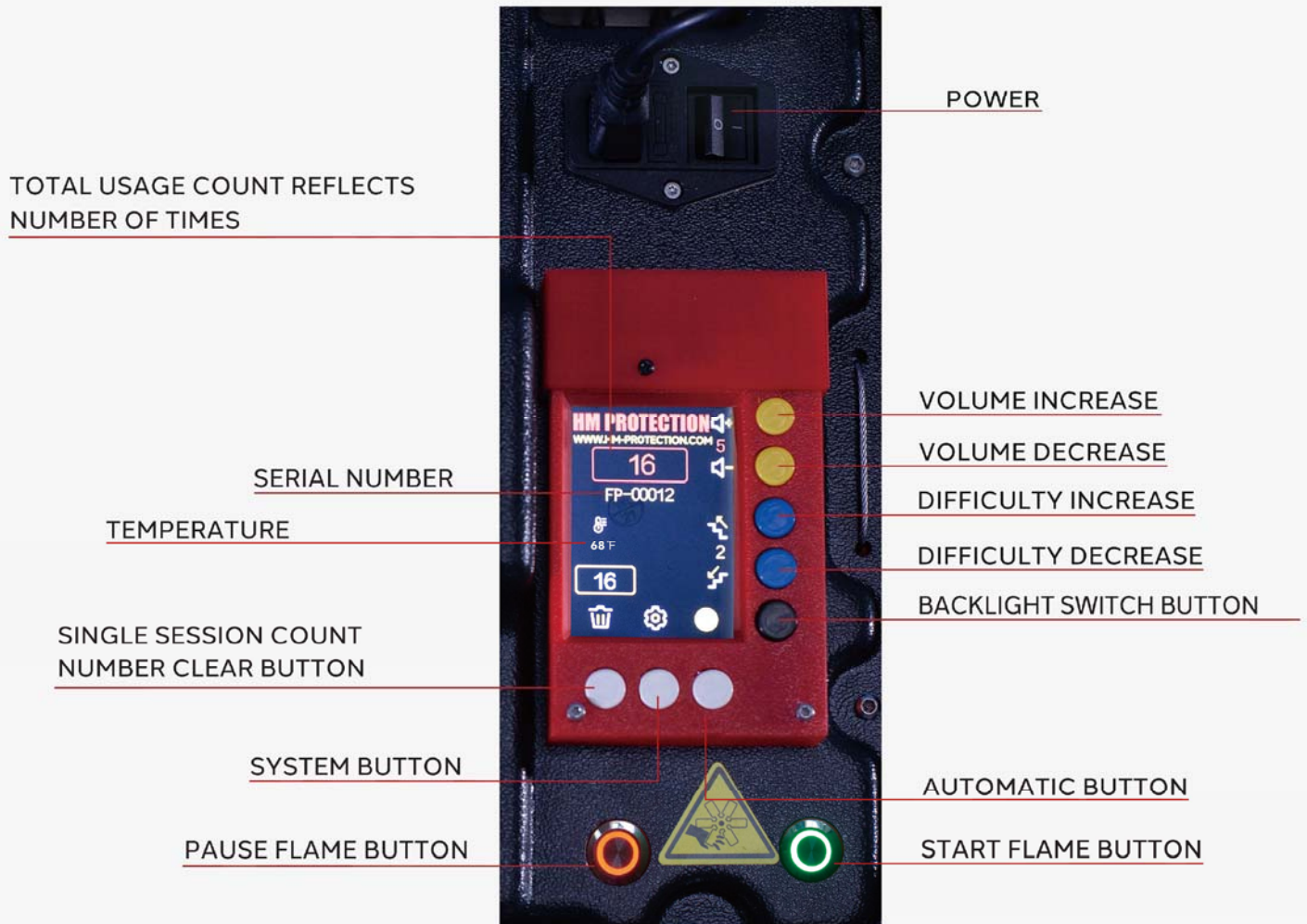START FLAME SCREEN

PAUSE FLAME SCREEN

REMOTE CONTROLLER

⚠ WARNING

WARRANTY VOID IF THE DISPOSABLE STEEL WIRE SEAL IS BROKEN OR REMOVED.

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POWER

TOTAL USAGE COUNT REFLECTS
NUMBER OF TIMES

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16

FP-00012

68℉

16

VOLUME INCREASE

VOLUME DECREASE

DIFFICULTY INCREASE

DIFFICULTY DECREASE

BACKLIGHT SWITCH BUTTON

SERIAL NUMBER

TEMPERATURE

SINGLE SESSION COUNT
NUMBER CLEAR BUTTON

SYSTEM BUTTON

AUTOMATIC BUTTON

PAUSE FLAME BUTTON

START FLAME BUTTON

VOLUME INCREASE / VOLUME DECREASE

These controls are used to adjust the volume of the simulated flame.
A setting of 9 indicates maximum volume.
A setting of 0 puts the system on mute.

DIFFICULTY INCREASE AND DECREASE

Adjust the difficulty of extinguishing the flame based on the duration of the initial fire.
The difficulty is categorized into five levels :
Levels 1–3 are intended for regular trainees.
Levels 4–5 are designed for intermediate and advanced professionals.

BACKLIGHT SWITCH BUTTON
Control the backlight of the Simulated Flame Instrument's LCD display and Start /Pause flame screen button.

AUTOMATIC BUTTON
This button is used to toggle between automatic and manual restart modes for the flame screen.

SYSTEM BUTTON
When pressed, the vendor information will be displayed.

SINGLE SESSION COUNT NUMBER CLEAR BUTTON
Press this button to reset the count of fire suppression attempts (currently 5) to zero for the next session.

THE TOTAL USAGE COUNT REFLECTS THE NUMBER OF TIMES
The HMP-E Simulated Fire Extinguisher has successfully simulated extinguishing initial fires since its manufacture.

SERIAL NUMBER
The serial number is used to verify authenticity by HM PROTECTION INC. The serial number displayed on this screen should match the serial number located on the back of the HME-P Simulated Flame Instrument and the bottom of the HMP-E Simulated Fire Extinguisher.

TEMPERATURE
The current displayed temperature is 68°F (20℃). When the temperature exceeds 185°F(85℃), the instrument will automatically shut down. It can be restarted once the temperature falls below 176°F(80℃).

6.2.1 Screen mode setting

MODE SETTINGS
To make the simulated firefighting experience more realistic, you can press the Backlight Switch button to toggle the screen on or off. During the simulation, turning off the Backlight enhances the authenticity of the simulated flame effect.

| STANDBY STATE | PRESS BACKLIGHT SWITCH BUTTON | PRESS BACKLIGHT SWITCH BUTTON AGAIN |

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VENDOR INFORMATION MODE SETTINGS

Press the system button to display the supplier's name. Detailed information can be found on the supplier's website.

STANDBY STATE	PRESS SYSTEM BUTTON	PRESS SYSTEM BUTTON AGAIN

MANUAL AND AUTOMATIC MODE SETTINGS

In manual mode, the simulated flame operates only once after being extinguished by the Simulated Fire Extinguisher. In automatic mode, the flame will restart and cycle continuously. Pressing this button turns the automatic indicator on the LCD screen green, indicating that automatic restart mode is activated, and the flame screen will automatically reignite 5 seconds after being extinguished. Pressing the button again changes the indicator to yellow, signifying that the system is now in manual restart mode.

STANDBY STATE	PRESS AUTOMATIC BUTTON	PRESS AUTOMATIC BUTTON AGAIN

When the Simulated Flame Instrument is in operation, some functions of the control panel will be locked, and the volume can be adjusted, but the difficulty level cannot be adjusted. If the relevant operations need to be adjusted, the flame screen should be closed and adjusted in the standby state.

7. SYSTEM OPERATION INSTRUCTIONS (BASIC VERSION)

7.1 HOW TO USE HMP-E SIMULATED FIRE EXTINGUISHER

7.1.1 Getting Started, Preparations Before Using the Simulated Fire Extinguisher

1. **CHECK THE FIRE EXTINGUISHER READINESS:**
   Ensure the HMP-E Simulated Fire Extinguisher is fully charged and in good condition. Inspect for any visible damage or wear.

2. **VERIFY THE BATTERY:**
   Check that the battery is properly installed and has sufficient charge for the training session.

3. **INSPECT THE NOZZLE AND HANDLE:**
   Ensure the nozzle is not blocked or damaged, and the handle is securely attached and functional.

4. **ENSURE PROPER CONNECTION:**
   Confirm that the HMP-E Simulated Fire Extinguisher is correctly paired with the simulated flame device to allow for proper interaction during the training.

5. **CHECK FOR OBSTRUCTIONS:**
   Ensure that there are no obstructions around the HMP-E Simulated Fire Extinguisher and that it can be easily accessed during the training.

6. **CONFIRM OPERATIONAL SETTINGS:**
   Verify that the system settings are correct for the planned training scenario (e.g., difficulty level, flame intensity).

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7.1.2 HMP-E Portable Simulated Fire Extinguisher Usage Diagram and Precautions

STEP 1

Press and hold the red button at the bottom of the HMP-E Simulated Fire Extinguisher to activate it.

STEP 2

After activation, the top light on the HMP-E Simulated Fire Extinguisher flashes several times and turns green, indicating that the HMP-E Simulated Fire Extinguisher is ready to use.

STEP 3

Grip the handle with one hand. With the other hand perpendicular to the handle, pull out the safety pin forcefully and quickly.

STEP 4

Stand up while holding the handle with one hand and firmly grip the junction of the nozzle and hose with the other. Proceed with a low posture.

STEP 5

In a low stance, approach within 6-9ft (2-3m) of Simulated Flame Instrument. Aim at the base of the flames. Squeeze the lever and the handle tightly, and swing the nozzle along the direction of the flame spread until the extinguishing agent is fully discharged or the fire is out. The best response position of the Simulated Flame Instrument to the HMP-E Simulated Fire Extinguisher is in the middle root of the flame, and the uniform swing injection effect is the best.

7.2 HOW TO USE HMP-E SIMULATED FLAME INSTRUMENT

7.2.1 Getting Started, Preparations Before Using the Simulated Flame Instrument

1. Inspect the Simulated Flame Instrument: Ensure the HMP-E Simulated Flame Instrument is intact and free from any visible damage. Check for any signs of wear and tear that could affect its performance.

2. Verify Power Supply: Ensure the power cable is securely connected to the device and the power source. Confirm that the voltage specifications match those of the local power grid.

3. Positioning the Simulated Flame Instrument: Place the HMP-E Simulated Flame Instrument on a stable surface, ensuring it is free from obstructions and positioned for optimal operation. Ensure that ventilation openings are not blocked.

4. Set the Environment: Check the surroundings to ensure there are no extreme environmental factors, such as strong direct sunlight or intense artificial light, which could interfere with the flame simulation.

5. Check for Proper Setup: Confirm that all parts of the system, including the flame cloth, LED lights, and fan, are correctly installed and functioning. Ensure that all components are securely connected.

6. Confirm Operational Settings: Verify that the system settings are correct for the planned training scenario (e.g.,difficulty level, flame intensity).

7. Test the System: Before starting the training session, perform a brief test to check that the flame simulation, airflow, and sound effects are working correctly.

8. Ensure Safety Measures: Make sure the area is clear of any unnecessary objects, and that trainees are aware of safety protocols during training.

7.2.2 HMP-E Portable Simulated Flame
Instrument Usage Diagram and Precautions

Step 1   Place the HMP-E Simulated Flame Instrument in the training area. Ensure the device is at least 3.28ft (100cm) away from walls and furniture to prevent any objects from being sucked into the machine.

Step 2   Carefully open the upper lid of the HMP-E Simulated Flame Instrument and gently place the lid behind it.

Step 3   Arrange the flame screen to allow it to unfold freely. Connect the power supply and turn on the power switch.

Step 4   Adjust the control panel according to the trainees' characteristics and age, selecting the appropriate difficulty level and volume for the flames.
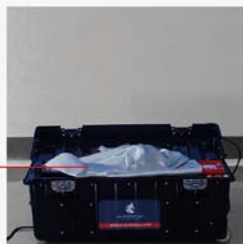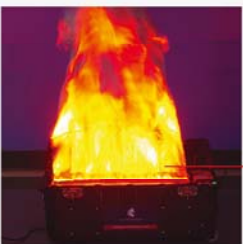
Step 5   Press the green button in the lower right corner of the instrument to activate the flame screen.

PRESS AUTOMATIC BUTTON TO ACTIVATE MANUAL OR AUTO MODE

**1.** Switch between the manual and auto mode when Automatic button pressed repeatedly.

2. The Flame Screen can be turned on and off with the remote controller in the manual mode.

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7.3 FOUR KEY STEPS OF DELAYED FIRE EXTINGUISHING IN HMP-E PORTABLE SIMULATED FIRE EXTINGUISHING TRAINING SYSTEM


REMOVE THE SAFETY PIN

At a distance of 16ft (5m) from the flames, place the extinguisher on the ground. In a safe zone, remove the tamper seal and pull out the safety pin. For easier and quicker removal, grip the handle and pull the pin out vertically.
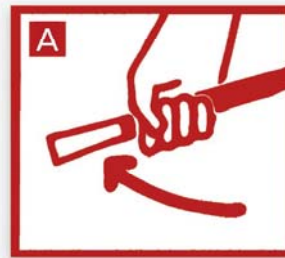
### AIM NOZZLE AT BASE OF FIRE

Stand up and adopt a low posture, getting as close to the fire source as possible. It's generally recommended to approach the fire from an upwind position at a distance of 6-9ft (2-3m) for optimal extinguishing. Grip the handles tightly with one hand and hold the nozzle with the other, aiming directly at the base of the flames.

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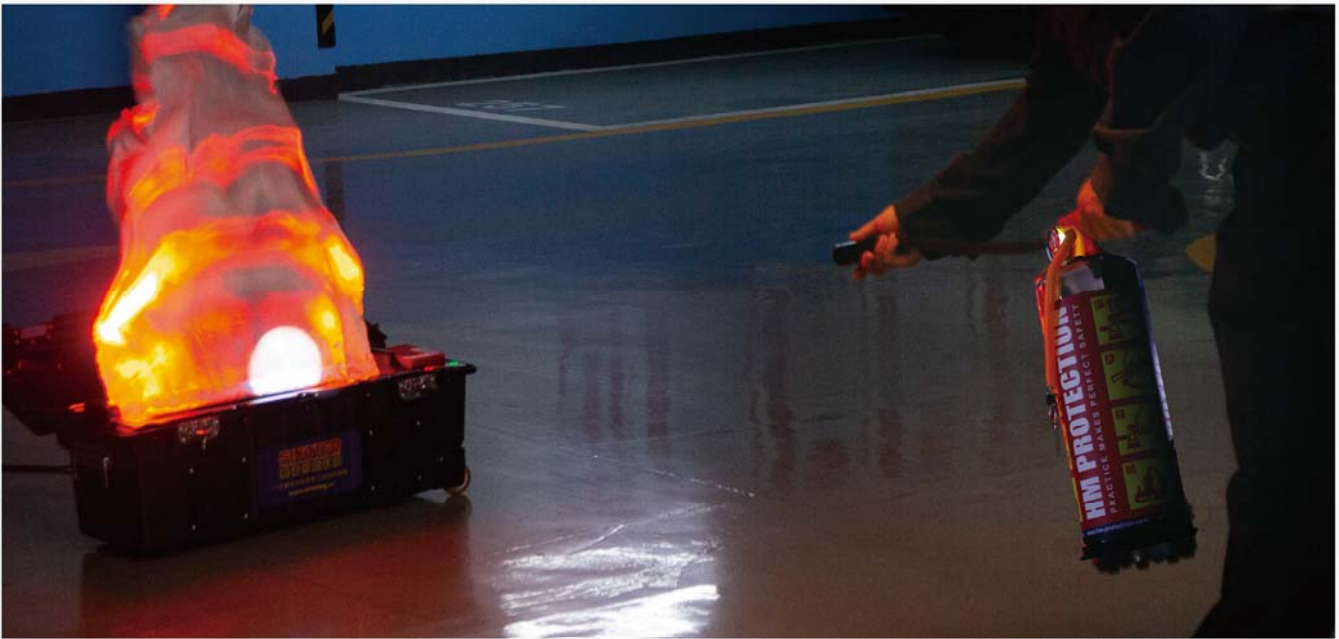
SQUEEZE THE HANDLE TO ACTIVATE THE SIMULATED FIRE EXTINGUISHER

When operating the extinguisher, be sure to grip both the nozzle and the handle tightly to prevent shaking. Be aware of noise and kickback. Additionally, ensure the extinguisher is held vertically for maximum effectiveness.
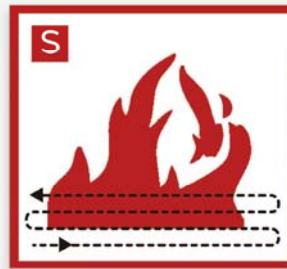
SWEEP FROM SIDE TO SIDE

Move the hose side to side, uniformly along the direction of the flame spread. Work quickly as there is only a short time before the extinguisher empties. Make sure the fire source is completely extinguished. After effective extinguishment, remain at a safe distance and watch the fire scene to ensure there is no reignition.

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7.4 SHUT DOWN AND COMPLETE A TRAINING SESSION

Press the Pause Flame Screen Button to stop the simulation.

Switch off the power supply using the control panel.

Disconnect the device from the power outlet and ensure all components are stored properly.

NOTICE

SCENARIO CUSTOMIZATION
Setting Fire Types and Training Levels:
1. Select the desired difficulty level (e.g., Level 1 for beginners, Level 5 for professionals).
2. Configure flame intensity and sound effects using the control panel.

REAL-TIME ADJUSTMENTS
Trainer Controls and Overrides:
1. Use the remote control to adjust flame behavior or pause simulation as needed.
2. Modify settings during a session to adapt to trainee performance.

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