

PowerPlus Energy Accessories

Fire Suppression Installation Manual

Your complete installation guide for installing the
suppression kit for PEF8 slimline cabinets.

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1. Introduction

WARNING

This kit is not designed for manual (hand) activation.

This section provides installation, operation, inspection, and maintenance requirements for the 60MT Stat-X aerosol generator used in total flooding fire suppression applications.

This manual is intended for:

- Licensed fire protection installers
- Electrical / mechanical tradespersons
- Commissioning technicians

This system must only be installed and serviced by appropriately qualified personnel.

1.1 DESCRIPTION

The 60MT Stat-X generator is a self-contained aerosol fire suppression unit designed for:

- Class A (surface), B, and C fires
- Enclosed or semi-enclosed hazard areas
- Electrically non-conductive environments

Key Characteristics

- Ultra-fine aerosol discharge
- Thermal activation
- Total flooding application

Stat-X fire suppression system

The aerosol suppresses fire via chemical chain interruption, not oxygen depletion.

1.2 TECHNICAL PARAMETERS

C-Zone must remain completely unobstructed to ensure effective dispersal and cooling of suppression aerosol.

| Parameter | Value |
|--------------------|---------------------|
| Model | 60MT |
| C-Zone (Clearance) | 0.35 m |
| Max Area Coverage | 0.60 m ³ |
| Discharge Time | ~6 seconds |



Stat-X fire suppression system

WARNING

This kit is not designed for manual activation

Improper installation may result in:

- Reduced extinguishing performance
- Premature discharge
- Injury or equipment damage

1.3 SAFETY REQUIREMENTS

Critical Hazards

- Aerosol discharge stream temperature >100°C (short range)
- Generator surface ~90°C post-discharge
- Obscured visibility during discharge
- Contains flammable solid charge

Mandatory Controls

- Maintain minimum 0.35 m clearance (C-Zone)

2. Installation & Operation

2.1 GENERAL INSTALLATION PRINCIPLES

- Install only in the mounting point with the red safety/travel nozzle pointed upwards
- Unit should be mounted with the nozzle ~1-2mm from the top of the chamber
- Ensure unobstructed discharge path

Do NOT:

- Install behind obstructions
- Install upside down

2.2 MOUNTING PROCEDURE

1. Use both pipe clamps to attach to mounting brackets
2. Tighten clamps only just enough to secure canister
3. Ensure:
 - C-Zone clearance maintained (0.30 m)
 - No obstruction in discharge path
4. Install thermal detector (hand-tight only)
5. Remove all transport caps

2.3 POST-INSTALLATION CHECKS

- Confirm correct model (60MT) installed
- Verify bracket integrity and fixings
- Check:
 - Orientation
 - Clearance
 - Discharge path

2.4 ACTIVATION MODES

- Thermal activation: >95°C

2.5 ACTIVATION PROCESS

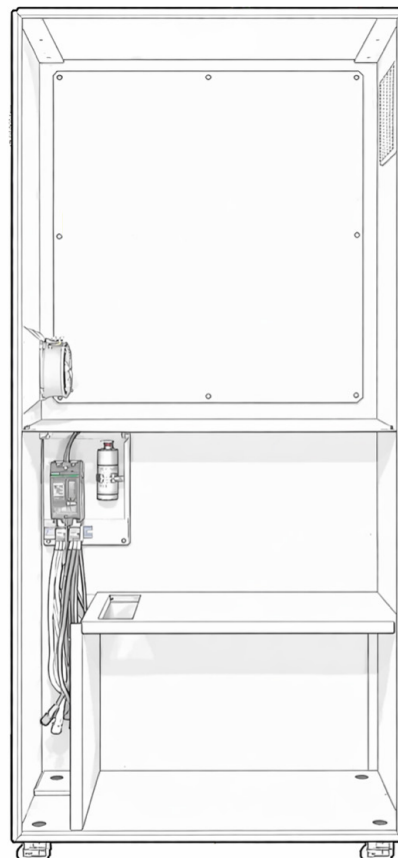
1. Thermal detector reaches set temperature
2. Mechanical release initiates
3. Aerosol charge ignites
4. Aerosol discharged for ~6 seconds

2.6 POST-DISCHARGE PROCEDURE

1. Do not ventilate, open, or disturb the protected enclosure for at least 20 minutes after the Stat-X unit discharges
2. Keep backup extinguishers available
3. Ventilate area thoroughly
4. Inspect for:
 - Re-ignition
 - Hot spots
5. Remove spent unit (wear PPE)
6. Dispose per guidelines in Section 3
7. Replace unit with identical specification



Installed in PEF8 Cabinet



3. Maintenance Requirements

3.1 MAINTENANCE SCHEDULE

| Interval | Action |
|----------------|------------------------------|
| Every 6 months | Visual inspection |
| Every 6 months | Check mounting & positioning |
| Every 6 months | Verify discharge path clear |
| 15 years | Replace suppression system |



IMPORTANT FOR INSTALLERS

- Treat suppression system as a pyrotechnic device
- Never modify system without manufacturer approval
- Ensure correct sizing and placement, this is critical to performance
- Always design for aerosol distribution, not just coverage

3.2 INSPECTION CHECKLIST

- No physical damage
- No corrosion
- Detector intact
- Mounting secure
- No obstructions

3.3 SERVICE LIFE

- 15-year operational life
- Replace based on date code on unit

3. Environmental Considerations

4.1 CLEAN-UP

Aerosol residue:

- Non-toxic at design concentrations

Can be cleaned with:

- Vacuum
- Water + mild acid (vinegar)
- Ventilation required post discharge

Disposal:

- Dispose of used aerosol container in your mixed recycling bin. More information can be found at www.sustainability.vic.gov.au/recycling-and-reducing-waste-at-home/hazardous-household-chemicals/how-to-dispose-of-hazardous-household-chemicals

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