Rack Mounted Automatic Fire Suppression Unit
LFSU

The rack mounted automatic fire suppression unit provides protection for equipment stored in rack enclosures and cabinet.
The fire suppression unit is self-contained and comes with built-in fire detection sensors.

Detectors are activated and suppression unit is automatically triggered to release FM200 extinguishing gas which is proven to be safe and reliable without causing damage to the equipment.



FEATURES

- Fully self-contained fire detection & suppression system
- Compact 1U,2U or 4U chassis mounting
- Faster response to in-cabinet fire incidents
- Use FM-200 systems which reach extinguishing levels in 10 seconds or less
- Comes in various activation mode depending on user's requirement

- **Thermal Bulb Activation Mode**
  When the ambient temperature reaches at 68°C, the thermo bulb breaks and the fire-extinguishing agent system is activated. The fire detection tube will expand rapidly and extinguishant will be deployed directly onto the fire effectively.

- **Electrical Activation Mode**
  After the external detector is started, the equipment start signal (DC24V) is given through the external fire host or controller. The fire extinguishing device is activated and fire extinguishing agent is deployed.

- **Thermo Bulb + Electrical Activation Mode**
  Comes in two activation mode. When the temperature inside the cabinet reaches 68°C, the thermo bulb breaks and fire extinguishing system is activated. When the external fire suppression system detects a fire, it triggers the electric start signal of the fire suppression system and activates the fire extinguishing system. The fire extinguishing system can be activated via either of the modes to ensure reliability.

- **Intelligent Type : Thermo Bulb + Smoke & Temperature Detector**
  Intelligent type is equipped with an LCD panel and a built-in control unit module. When fire occurs, the control unit receives signals from external smoke and heat detector and the audible and visual alarm is activated. After the pre-set delay timer(30s), the fire extinguishing system is activated to extinguish the fire. The intelligent type is also equipped with a temperature control starting device. When the ambient temperature reaches at 68°C, the thermo bulb breaks and the fire-extinguishing agent system is activated. Intelligent type system is activated whichever scenario is triggered. With RS485 communication interface, the status of each cabinet and fire extinguishing system can be detected in real time mode.

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Product Specification

Parameter	LFSU-01	LFSU-02	LFSU-04
Storage capacity (kg)	2	3	6
Storage pressure (20°C, MPa)	1.6 ± 0.2	1.2	1.2
Effective Protection Range (m^3)	≤3	4	8
Extinguishing time (s)	≤30	≤10	≤10
Chassis Height	1U	2U	4U
Dimension (L*W*H)(mm)	442*482*43.6	530*480*88 Intelligent type: 570*480*88	530*480*176 Intelligent type: 570*480*176
Operating temperature	0~50°C	0~50°C	0~50°C

Ordering Information

Part Number	Description
LFSU-01H-T	1U - Thermo Bulb Activation Mode
LFSU-02H-T	2U - Thermo Bulb Activation Mode
LFSU-02H-E	2U - Electrical Activation Mode
LFSU-02H-TE	2U - Thermo Bulb + Electrical Activation Mode
LFSU-02H-TSTE	2U - Intelligent Type : Thermo Bulb + Smoke & Temperature Detector + Electrical Activation Mode
LFSU-04H-T	4U - Thermo Bulb Activation Mode
LFSU-04H-E	4U - Electrical Activation Mode
LFSU-04H-TE	4U - Thermo Bulb + Electrical Activation Mode
LFSU-04H-TSTE	4U - Intelligent Type : Thermo Bulb + Smoke & Temperature Detector + Electrical Activation Mode

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