

UPRIGHT TYPE SPRINKLER

Product Overview: The Upright Type Sprinkler, supplied by Palladium Safety Solutions Pvt. Ltd., is a high-quality fire suppression device designed for effective and reliable performance. It is manufactured to meet stringent safety and quality standards, ensuring optimal protection for residential, commercial, and industrial facilities. Its design is suitable for use in environments where overhead installation is required, providing superior fire coverage.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	“PALEX”
Type	Upright Type Sprinkler



2. MATERIAL AND CONSTRUCTION DETAILS :-

Body Material	Carbon Steel (Highly durable and corrosion-resistant)
Glass Bulb	Heat-sensitive, colour-coded for precise activation temperature.
Threading	Standard NPT ½” or R ½” for seamless integration with fire safety systems.
Finish	Smooth, corrosion-resistant coating for extended durability
Sprinkler Head Design	Engineered for upward spray pattern ensuring effective fire suppression in high-ceiling areas.

3. TECHNICAL SPECIFICATIONS :-

Operating Temperature Range	57°C, 68°C, 79°C, 93°C, 141°C, 182°C and 260°C.
Response Type	Standard and Quick response options available.
Operating Pressure	Designed for reliable operation at 12 bars.
Max Service Pressure	Rated at 175 PSI (12.07 bar).
Thread size	NPT ½” or R ½”
Glass Bulb Colours	Orange, Red, Yellow, Green, Blue, Mauve, Black (Including various Temperature activation thresholds).
Water Discharge Rate	Optimized for maximum coverage with upward spray.

4. PERFORMANCE SPECIFICATIONS :-

- Hydraulic Pressure Resistance – Withstands up to 175 PSI for robust performance.
- Activation Sensitivity – Quick and precise response to heat for immediate suppression.
- Spray Pattern – Designed for overhead coverage in high-ceiling environments.
- Heat Sensitivity – Colour-coded glass bulb ensures accurate and timely activation.

5. FEATURES AND BENEFITS :-

- Durable Construction – Carbon steel body ensures long-lasting performance and resistance to wear.
- Customizable Temperature Options – Multiple activation temperature ranges to suit various fire protection needs.
- Precision spray Pattern – Uniform upward water discharge designed for effective suppression in elevated areas.
- Corrosion-Resistant Coating – Provides protection in diverse environmental conditions.
- Standardized Threading – Compatible with most fire safety system setups.

6. APPLICATIONS :-

- Warehouses and Factories – Overhead installations to protect large storage and production spaces.
- Commercial Buildings – Offices, shopping centers, and parking areas with high ceilings.
- Residential Properties – Apartments, villas, and standalone homes requiring upward fire suppression coverage.
- Specialized Environments – Data centers, cold storage facilities, and high-risk areas requiring reliable fire suppression.

7. CERTIFICATION AND TESTING :-

- Hydraulic Testing – Each unit tested rigorously to withstand maximum rated pressure.
- Compliance – Conforms to global fire safety regulations and standards.
- Quality Assurance – Manufactured under strict quality control processes to ensure reliability and safety.

8. WARRANTY :-

Warranty Period - 12 Months from the date of supply.

Warranty Inclusions – Covers manufacturing defects.

Warranty Exclusions – Improper installation or usage.

- Unauthorized modifications or exposure to extreme conditions.

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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