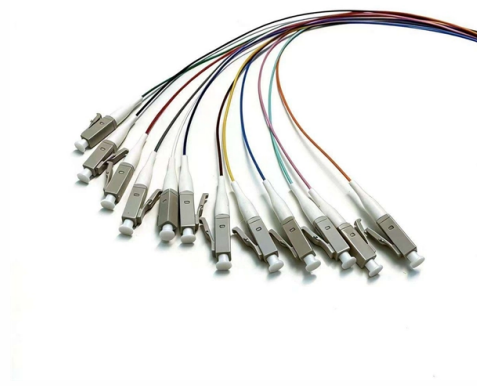


Install fans in outdoor cabinets



Article Overview

Proper installation of outdoor cabinet fans ensures efficient cooling, prevents condensation, and protects sensitive equipment from overheating and environmental damage.

Fan Selection

Choose a fan that matches your cabinet size and the heat output of your equipment. Consider the fan's airflow rating (CFM), power consumption, noise level, and durability for outdoor conditions. For example, an 80mm fan running at 5V can remove 55.5 cubic meters of air per hour while consuming minimal power, making it energy-efficient for small enclosures . Ensure the fan is rated for outdoor use or protected from moisture.

Placement and Airflow

- **Exhaust and Intake:** Install an exhaust fan near the top of the cabinet to expel hot air and an intake vent or fan near the bottom to draw in cooler air. This setup leverages natural convection and improves airflow efficiency .
- **Ventilation Holes:** If using a single fan, ensure there are intake holes at the bottom to allow air to flow naturally from high to low pressure areas .
- **Orientation:** Fans should be positioned to minimize obstruction and allow air to circulate freely around equipment.

Installation Steps

- **Mark and Cut Holes:** Measure and mark the fan locations accurately. Use a jigsaw...

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