

Cable trays for refrigerant pipes



Article Overview

Refrigerant pipes can be installed in cable trays if proper materials, ventilation, and spacing are maintained to ensure safety and system efficiency.

Material and Tray Selection

For refrigerant piping, corrosion-resistant materials are essential. Common options include hot-dip galvanized steel, aluminum alloys, or FRP (Fiber Reinforced Polymer) for highly corrosive environments . The tray must support the combined weight of pipes, insulation, and refrigerant, with typical utility tray sizes starting at 150mm x 50mm. Ladder, perforated, or solid-bottom trays can be chosen based on ventilation needs and load requirements .

Ventilation and Heat Management

Proper ventilation is critical to prevent condensation and overheating around refrigerant lines. Perforated or ladder trays allow airflow, reducing the risk of thermal buildup . If pipes carry hot refrigerant, consider heat shields or splash guards to protect nearby electrical cables from radiant or convective heat .

Safety and Spacing

Maintaining adequate separation between refrigerant pipes and electrical cables is crucial. Pipes should not be placed too close to cables to avoid heat transfer, vibration, or potential leaks that could damage electrical systems . Safety distances depend on pipe temperature, fluid type, and cable insulation, but a general principl...

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Piping handbook referred to high temperature piping being routed over cable trays because the radiant heat could

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In the DX refrigeration systems covered by this guide, some amount of compressor lubricating oil travels with the refrigerant

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