

Dimensions of the cold aisle for oil pipeline monitoring room



Overview

According to the ANSI/TIA/EIA-942-A standard, the recommended width for a cold aisle is 1,2 meters, which typically corresponds to the size of two double floor tiles. Cold air is supplied via perforated tiles at the front of the cabinets, which is distributed to cabinet by fans. As the industry essentially deals with inherently inflammable substances throughout its value chain – upstream, midstream and downstream – Safety is of paramount importance to this industry as only safe performance at all times can ensure optimum ROI of these national assets and resources including. The standard practice in data centers is to arrange cabinets into hot / cold aisles. Armstrong aisle containment solutions provide high-performance systems that support efficient, scalable. In high-pressure sectors like oil and gas, where precision, safety, and seamless operations are non-negotiable, the control room serves as the heart of all activity. If you design, sell, install.



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Cold aisle containment encloses the cold aisles to ensure only cold air is supplied to servers. This approach is normally used with in-row cooling and raised floors and is more common in retrofits.



Where regular access is required, a minimum clear aisle width of 0.75 m and overhead clearance of 2.3 m shall be provided. Groups of valves at battery limits in elevated pipe racks and grade pipe sleepers ...



OISD-STD-118 guidelines for safe layouts in oil and gas installations. Separation distances, process unit layouts, storage tank guidelines.



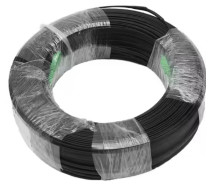
As you may be aware, various cold/hot aisle containments exist, and understanding which system works best for your establishment is essential. Find out more.



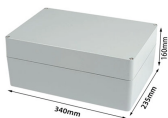
Complete VESDA guide for data centers covering hot aisle, cold aisle, underfloor, above-ceiling detection, design, code, and layout.



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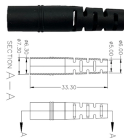
Our modular systems provide flexible, secure separation between hot and cold aisles or controlled zones to maintain optimal environmental performance.



Proper aisle planning isn't just about airflow—it's about optimizing safety, serviceability, and system efficiency. By adhering to these length and width standards, data center designers can enhance ...



In the Oil & Gas Control Room space, solutions are designed to handle the demands of round-the-clock operations. From ergonomic consoles and operator-centric layouts to complete ...



Find out how to improve your data center infrastructure efficiency, using the cold aisle containment or hot aisle containment solutions from Vertiv.

Contact Us

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