



Data Center Cooling

Data center cooling systems are crucial for maintaining optimal operating temperatures for equipment, ensuring reliability and performance. They remove excess heat generated by servers and other IT equipment, preventing malfunctions and downtime.

When searching the internet for Data Center Cooling sealing solutions, quality is important. Rubber Fab carries the highest quality gaskets, hoses and hose accessories, with innovative and PATENTED products being at the center of our portfolio.

EPDM AND FKM GASKETS AND O-RINGS

Rubber Fab offers a wide variety of sanitary gaskets and o-rings. Rubber Fab's commitment to product innovation ensures broad use in a wide array of sanitary markets including Data Center Cooling. We proudly offer first to market and patented solutions to solve the most demanding applications. Our line of gaskets and o-rings are formulated from zinc-free peroxide cured elastomers, and thermoplastics, solving fit, form and function demands for virtually every application. Rubber Fab's EPDM and FKM gaskets and o-rings offer the best chemical resistance against common coolants including water, deionized water, glycol/water solutions, and dielectric fluids like fluorocarbons and mineral oils, which are used in various cooling methods.

SCREEN GASKETS

The complete elimination of particulates is critical to ensure maximum cooling and flow rates in the data center market. Consider the full range of Rubber Fab's Fluid Filtration technology. Our fluid filtration gaskets provide the most comprehensive range of stainless steel mesh and filter cloth providing a comprehensive elimination of particulate in the flow path protecting equipment that is in the fluid flow path.

TUF-FLEX® GASKETS

Modern direct liquid cooling systems commonly use water and glycol-based coolants. The industry has identified compatibility with water/glycol cooling media as a critical requirement for the market. Tuf-Flex® combines PTFE's broad chemical resistance with an EPDM core, helping ensure long-term performance in these fluid environments.

SOCK SCREENS

The extended sock shaped mesh gasket offers up to 5 times more open area for 5 times more soil collection capability than conventional screens. They provide greater flow for situations where it is imperative that particulate is removed to ensure maximum cooling capabilities and flow. Due to the large capacity and open screen area, sock screens require less service therefore reducing down time and costly change outs, a major consideration with in-line data cooling processes. Regularly used in the transfer of cooling liquids sanitary sock screens are specifically designed for high volume applications with low pressure drop.

More products on the back

Data Center Cooling

Rubber Fab's Data Center Cooling hoses specifically designed for sanitary suction and discharge applications to transport a wide variety of fluids without imparting contamination.

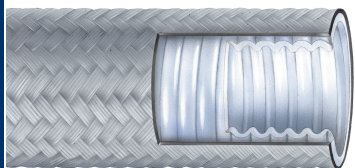
RFDKRFLX



This Data Center hose utilizes pharmaceutical grade tubes made from FKM that offers the best chemical resistance against common coolants including water, deionized water, glycol/

water solutions, and dielectric fluids like fluorocarbons and mineral oils, which are used in various cooling methods. For flexibility our data center hoses can be provided with V0 rated Flame Resistant sleeves that are lightweight, resistant to high heat, and essentially immune to chemicals and solvents. Rubber Fab's sleeves exceed many engineering standards for Chemical resistance, high temperature stability, zero moisture absorption, dimensional stability, and ultra-low wear - making them ideal for data center applications.

RFCTLP



Rubber Fab's CTLP Hose delivers the chemical resistance of PTFE, the durability of stainless-steel reinforcement, and the flexibility required for modern liquid-cooled data centers. Its low-profile

convoluted design minimizes pressure drop while simplifying routing through dense cooling infrastructure, making it an ideal solution for CDU, manifold, and direct-to-chip liquid cooling applications.

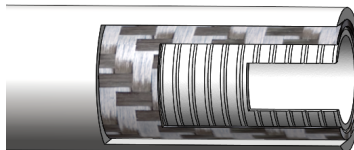
RFRT



Rubber Fab's RT Hose combines the chemical resistance of an FEP-lined flow path with the durability of an EPDM-covered construction, making it an excellent candidate for demanding liquid-transfer

applications. Its smooth-bore design, full vacuum capability, and resistance to water, glycol, acids, and other process fluids support reliable performance in modern liquid cooling infrastructure where system uptime and coolant integrity are critical.

RFSFM



Rubber Fab's SFM Supreme-Flex Max™ Hose combines a smoothbore PTFE flow path, stainless steel reinforcement, and exceptional flexibility to

support demanding liquid transfer applications. Its high-pressure capability, chemical resistance, and flexible design make it a strong candidate for modern liquid cooling infrastructure where coolant reliability and system uptime are essential.

DATA CENTER COOLANT CHEMICAL RESISTANCE GUIDE:

Rubber Fab's continued commitment to material innovation offers best in class chemical resistance against a wide range of medias. Our elastomers and thermoplastics provide the best compatibility to many common coolants utilized in the Data Center Cooling market. Coolants utilized in various cooling methods for the Data Cooling market, most common listed below, are covered by Rubber Fab's material technologies.

Water and Deionized Water: Water, especially deionized, is a common and efficient coolant for recirculating cooling systems where liquid-to-air heat exchangers are used to transfer heat from the coolant to the surrounding air.

Glycol/Water Solutions: Ethylene glycol and propylene glycol are often mixed with water to enhance heat transfer capabilities to prevent freezing are commonly used for recirculating cooling systems where liquid-to-air heat exchangers are used to transfer heat from the coolant to the surrounding air.

Dielectric Fluids: Fluorocarbons: Known for low boiling points, these are most commonly used in two-phase immersion cooling systems where servers and other components are submerged in a dielectric fluid, to effectively remove heat.

Mineral Oils and Synthetic Oils: These offer good thermal conductivity and compatibility and are most commonly used in single-phase immersion cooling where servers and other components are submerged in a dielectric fluid, to effectively remove heat.