

## MRI MACHINE CHILLERS



ISO 9001-2015 Company



**MRI chillers are devices that provide cooling for MRI machines. Some may include built-in self-diagnostic capabilities, as well as integration with preventive maintenance applications. Perhaps most importantly, they can be built to revert to a backup cooling system in the event of a mechanical or electrical failure. This ensures that your MRI machine remains cooled in the event of an emergency.**

**Chillers built for MRI machines typically need to hold very close temperature tolerances with a very wide heat load variation. The cooling fluid pressures are also high relative to other medical equipment cooling applications. How do MRI chillers work to meet these system requirements?**

## **DRYCOOL MRI CHILLERS WORKING PRINCIPLE**

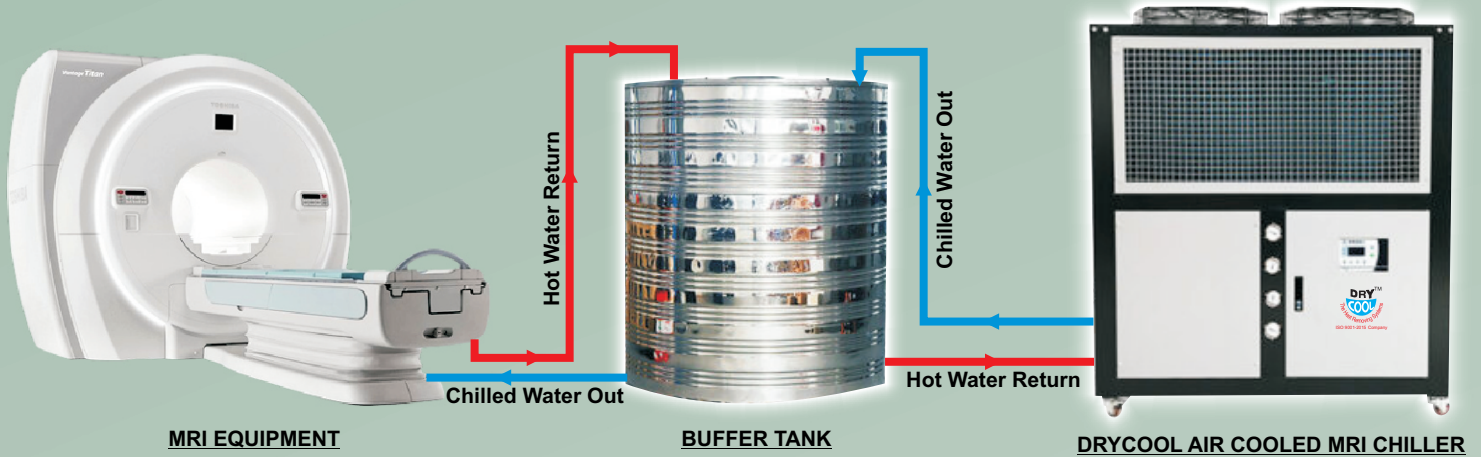
**MRI Chillers & Cooling Systems help to cool the internal components of medical imaging equipment that can generate a significant amount of heat during use. These machines contain a device known as a “cold head,” that condenses helium back into its liquid form after cooling the MRI magnet – the component responsible for producing the powerful magnetic fields for resonance imaging.**

**MRI machine chillers from DRYCOOL Chillers provide close temperature tolerance with automatic city water switch over to ensure maximum uptime in the event of an unexpected failure. They come fitted with air compressors and refrigerated air dryers for optimum efficiency.**





## WORKING DIAGRAM



## MRI COOLING SPECS

Modern medical imaging equipment requires higher than normal pressures and temperature tolerances with extremely wide heat load variations to function efficiently. Since the primary chilling substance in our MRI chillers is eco-friendly refrigerants, they offer greater corrosion resistance than water-based chillers.

The main challenge with medical equipment such as MRIs, CT scanners, and PET scanners is that their operation is energy-intensive, with intermittent loads that cause internal components to heat up rapidly. The ideal MRI cooling system must react in time to stabilize internal temperatures at precise levels. Our MRI chillers ensure rapid and efficient cooling scanners.



## **DRYCOOL MRI CHILLERS SIZES**

The most common chiller sizes utilized in medical applications are 7.5 ton, (90,000 BTU/hr) and 5-ton, (60,000 BTU/hr). Alternately, a 12.5 or 15-ton MRI chiller unit can provide enough cooling capacity for multiple medical devices.

If you need a custom chiller size designed for your application, get in touch with us online today.



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