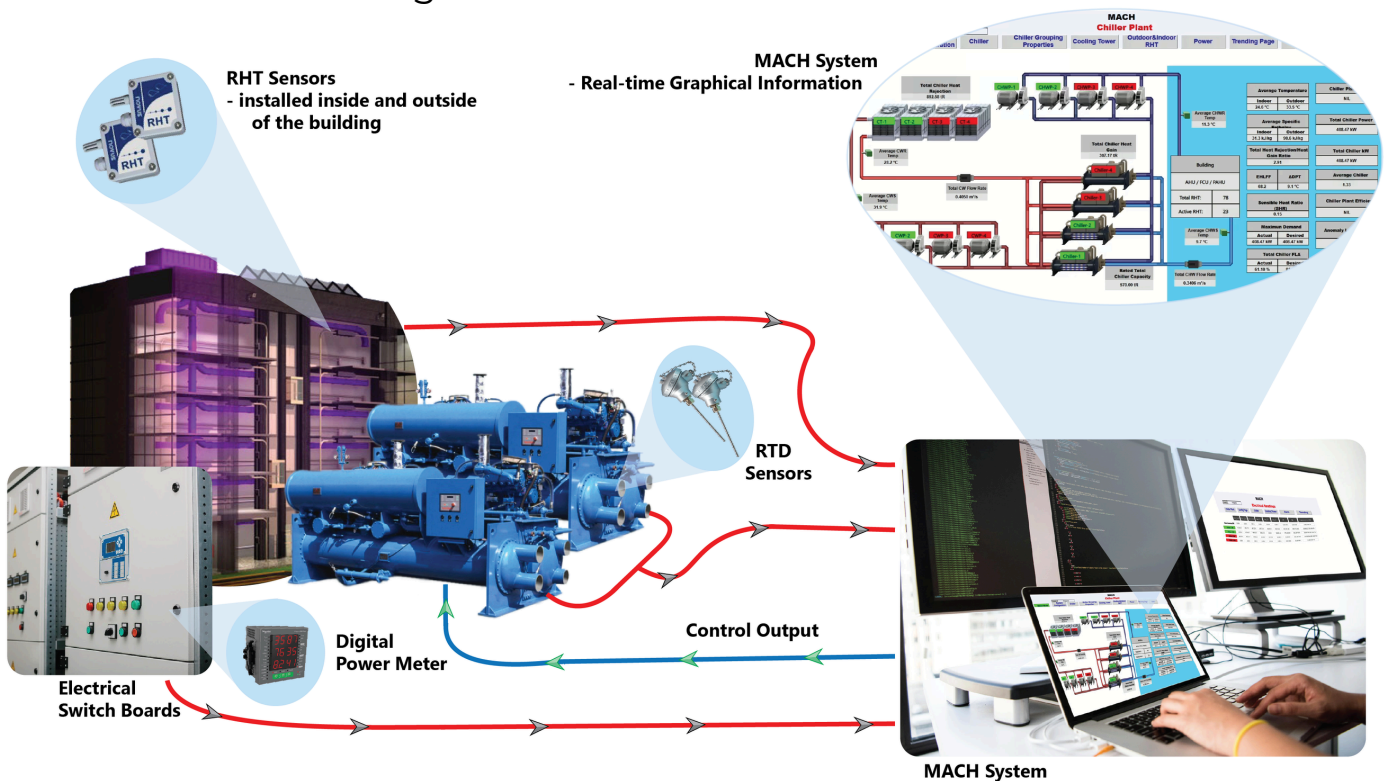


MACH

**Magistech Artificial Intelligence
for Chillers**

Magistech Artificial Intelligence for Chillers (MACH) is a chiller management and optimization system that utilizes artificial

intelligence specifically designed to increase the efficiency of chiller operations of a building, resultingly producing significant savings on electric consumption without compromising the internal thermal comfort of the building.



With the MACH System in place, the chiller load adjusts based on real-time changes in humidity and temperature of the building internally and externally, thus optimizing chiller operations and ultimately resulting to significant savings on the total electric consumption of the chillers.



Main Features and Benefits:

Monetary and Energy Saving

The MACH's state-of-the-art software guarantees a minimum of 8% monthly savings on chiller electric consumption, which could reach up to 20% or more. It provides models and diagnostic tools for maintenance to reduce down-time. The client can access the savings and financial report on a real-time basis through the MACH Command Center.

Prolonged Chiller Lifespan

The MACH System's Dynamic Maximum Demand (MD) Control, Soft-Starting and Shut Down features reduces the required chiller load to cool down a building and ensures lower operating costs, improved machine longevity, and reduces harmful emissions.

Predictive Maintenance

·With the MACH System, chiller performance is consistently monitored. It provides real-time health-check for the chillers and an "early warning" on maintenance issues involving the HVAC equipment of the building.

Reduced Carbon Footprint of the Facility

·The MACH System promotes Corporate Social Responsibility (CSR) by reducing carbon footprint and Greenhouse Gas (GHG) emission.

Maintains the Optimum Cooling Comfort of the Building

·The MACH System's control of the chiller operations maintains the building internal ambient temperature within +/-2% of the desired set point.

Machine Learning

MACH System analyzes the thermal characteristics of the building and its surroundings in real-time.

Command Center

·MACH's Command Center allows the client to monitor the entire chiller operations and view live updates, current savings, and financial reports.