Development of the Liquid Cooling Air-conditioning System for Commercial Buildings

What is the Liquid cooling air-conditioning system?
Liquid cooling system consists of an liquid cooling unit and radiant cooling system as a heat transfer media with water, and performs load processing efficiently by suppressing the diffusion of the internal heat load.

Features of the system
This system can improve the efficiency of heat source equipment because indoor cooling is possible by the high-temperature chilled water. Furthermore, it is possible to improve the efficiency of load control and to maintain the indoor thermal comfort due to remove the heat at the source.

Simulation on Periodic & Spatial Indoor Thermal Environment & Energy in Buildings

In this study, with the aim of realizing the prediction of periodic and spatial indoor thermal environment and analyzing energy consumption in a ZEB criterion office model with Liquid cooling air-condition system, the method of embedding contribution ratio of indoor climate (CRI) model into the network model was used.