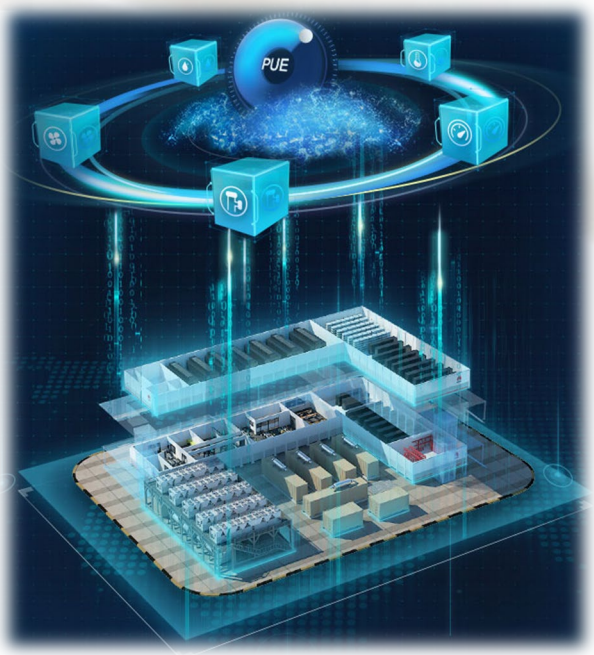
From Cooling to iCooling

AI energy efficiency optimization solution (iCooling)

Product Overview

The AI energy efficiency optimization solution (iCooling) is an AI algorithm-based cooling system optimization solution for data centers. Based on the analysis of cooling system operating parameters, IT load, and external environment data, core parameters are found and AI technologies are used to train the energy efficiency model of the data center. Finally, the optimal cooling system parameter combination is inferred. The PUE can be reduced by 8% to 15%.



Application Scenarios

- Medium- and large-sized data centers, chilled water cooling systems
- Medium- and large-sized data centers, AHU2.0/EHU cooling system

Product Features

Simple

- Based on the AI algorithm, only a few sensors are required for hardware.
- All instructions are automatically released, simplifying O&M

Green

- System-level energy efficiency optimization and overall cooling system adjustment, saving energy by 8% to 15%

Reliable

- Data is read and instructions are delivered through the BA system. Physical devices are not directly operated.
- The AI inference process is incorporated into the customer's DC O&M specifications (refrigerating system parameter range), and the inference result meets SLA requirements.

	Items	Description
1	Mode	Water-cooled chilled water, air-cooled chilled water, AHU2.0, and EHU
3	Data	Deploy the number of sensors and valves according to the specified requirements.
4	Data Collection Period	Minimum 5 minutes
5	System	The DCIM must be Huawei NetEco.