



Intelligent Systems®



Where Water Source Heat Pumps Integrate for Comfortable and Efficient Environments

Fast, Easy, and Affordable

When a building's HVAC system calls for flexibility and responsiveness, Daikin's Intelligent Systems are the smart choice. It delivers smart controls for applications such as water source heat pumps (WSHPs).

Central to the system's performance, the System Manager provides choreographed coordination between WSHPs so that building owners can manage the environment seamlessly and link to:

- Daikin WSHPs with MicroTech® zone controllers
- Daikin 100% dedicated outdoor air systems
- Daikin Loop Water Manager to optimize pumps, towers, and boilers
- Auxiliary equipment (like exhaust fans) through the Daikin Input/Output Manager and BACnet® Tstat

Smart Solutions for Smart Savings

Contractors will experience:

- Faster commissioning and start-up with single-sourced Daikin controls and HVAC products preconfigured for each individual application
- Quick integration to any BACnet MS/TP network device.

Building owners and facility managers will appreciate:

- Seamless blending of Daikin HVAC equipment and controls to achieve higher performance and efficiency
- Remote access to system status, trend information, setpoints, and schedules with a browser-based device (phone, tablet, computer)
- Easy-to-use controls that keep building environments comfortable and energy costs low



Building automation at your fingertips

Intelligent Systems' intuitive, browser-based interface allows users to set up schedules, monitor and control equipment, and gauge operating tendencies. It utilizes hundreds of discreet data points to give users proactive control over the entire system from any computer or mobile device.

Compare the differences – and put the MicroTech advantages to work for you!



Traditional Non-Communicating Water Source Heat Pump System	Intelligent Systems for Water Source Heat Pump Applications
Hard-wired control signals are expensive and require labor-intensive installation.	Networked components are connected using simple daisy chain wiring for easy installation.
Pumps run constantly, even when water flow is not required, increasing energy consumption.	Pumps run only when they are needed, improving the energy efficiency of the building.
There are no alarms when something goes wrong, so a problem may go undetected for weeks, causing the issue to worsen.	Central alarms can be sent via text or email alerts allowing maintenance personnel to respond proactively when issues arise.
The absence of trend information means operators have no ability to analyze trends to make improvements to efficiency.	Graphic representations of trends are available to aid quick identification of operating tendencies and opportunities for improvement.
On-site unit troubleshooting requires a ladder and access to the ceiling grid, which makes the process slow and complicated.	The easy-to-use touch screen interface puts all of the system, condensing loop, and WSHP information at your fingertips. Operating issues are easy to find and correct.
There is no central control for setpoint and configuration changes. All changes must be made in person.	The user has remote access to view and control all system components from any PC, smartphone, or tablet saving time and effort.
Occupancy changes from day to day require manual adjustments to all thermostat units. This increases the cost of labor.	Custom weekly schedules accommodate fluctuating energy needs automatically. Schedules can be set one time and the work is done.

