



# Intelligent Equipment®



Get Connected

Smart businesses run on Intelligent Equipment



# Unprecedented visibility into your HVAC performance

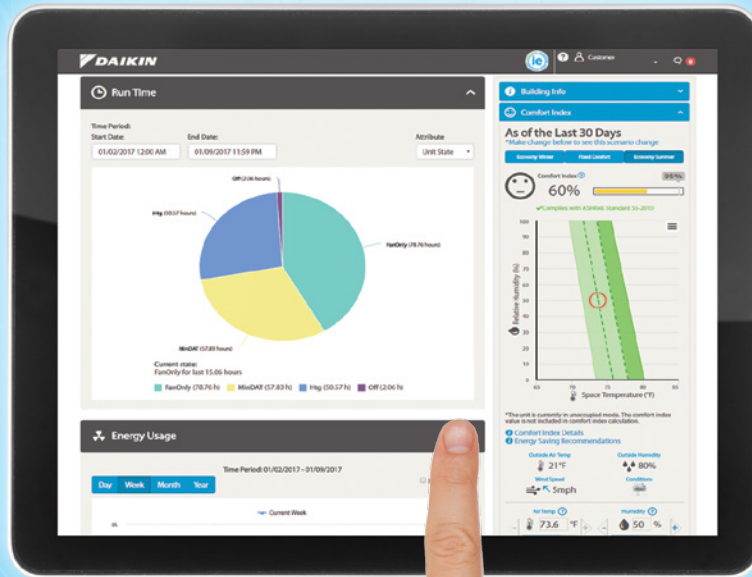
**Direct connection to your HVAC unit provides access to 150 data points**

**Accessible 24/7 from any connected device, anywhere in the world**

**Preventative maintenance notifications based on actual run time**

**Easy-to-use, role-based dashboards**

**Unlimited data trending to gauge unit performance at any point in time since commissioning**



## Freedom and control to monitor and manage your HVAC equipment effectively

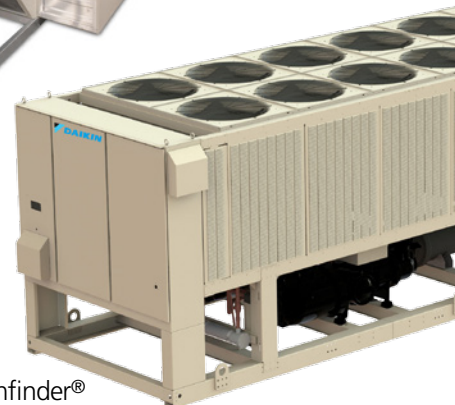
A whopping 40% of your building's energy expenses are tied to HVAC management.\* However, most control solutions and building automation systems provide only limited insight into unit performance, hindering your ability to control that expense. Until now.

Intelligent Equipment from Daikin Applied gives you unprecedented visibility into your Daikin HVAC equipment. For less than it costs to run your smart phone, Intelligent Equipment provides direct access to 150 data points on a Daikin rooftop unit or air-cooled chiller, all in real time.

No other solution gives you the freedom and control to monitor and manage your equipment as deeply, freely, accurately, and efficiently.



Daikin Rebel® rooftop unit



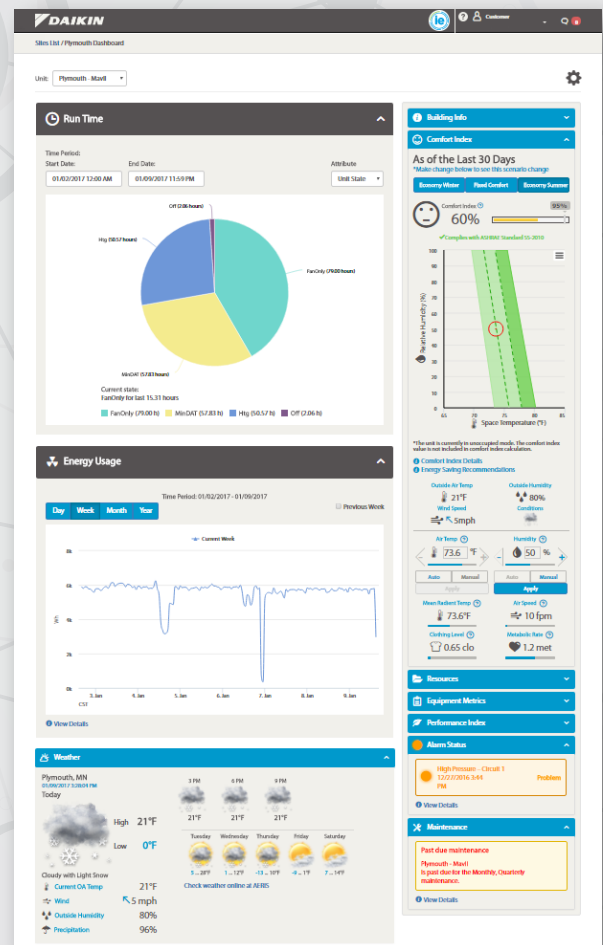
Daikin Pathfinder® air-cooled chiller

\*U.S. Department of Energy Buildings Energy Data Book, 2015

## Building Owners and Managers

Building owners and facility managers will appreciate how easy it is to keep occupants comfortable and productive with an intuitive dashboard designed specifically for non-technical end-users. Intelligent Equipment automatically registers unit energy consumption, validates occupant comfort, and sends notifications and alarms for maintenance.

The Customer Dashboard allows any manager to quickly and easily monitor individual units as well as multiple units in different buildings in order to maintain peak operating efficiency and reduce total lifecycle costs. Customers can customize the dashboard to feature the building and equipment performance metrics pertinent to their role and interests. Intelligent Equipment facilitates effective decision making by benchmarking unit performance and trending data over time.



## *With a BAS you can respond to an HVAC catastrophe,*

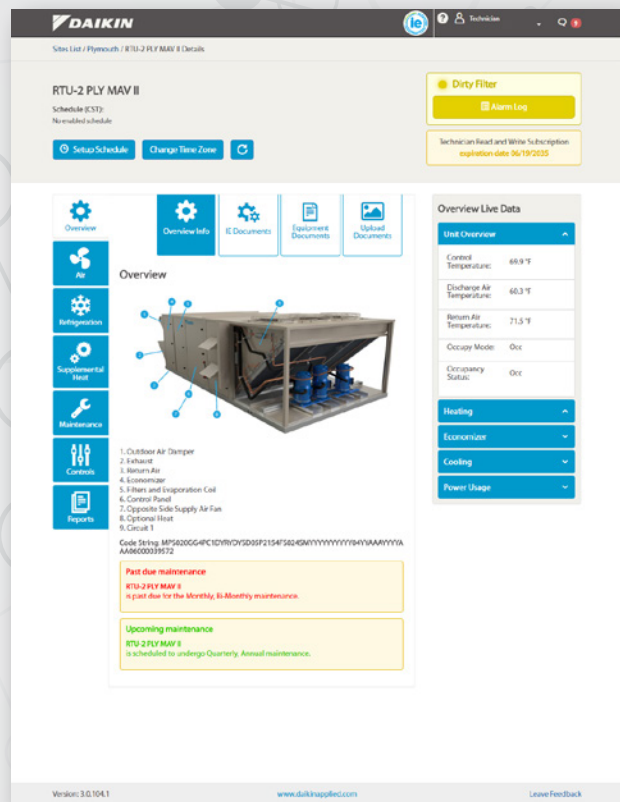
### Intelligent Equipment: There is no substitute.

Intelligent Equipment is fully compatible with a building automation system (BAS), but its not a building-level solution; it is an equipment solution. If you have a BAS, you can still benefit from Intelligent Equipment because it works at the unit level. Intelligent Equipment provides several distinct benefits over a BAS, without expensive additional programming:

- › **Preventative unit maintenance:** Intelligent Equipment knows each Daikin unit's exact maintenance requirements and makes timely recommendations based on actual run time/usage; a BAS estimates maintenance needs based on a pre-determined number of days or months.
- › **Unit diagnostics:** Should the energy consumption or tenant comfort fluctuate unexpectedly, Intelligent Equipment will send you a notification or alarm that specifies exactly what is going with a specific unit; a BAS will simply alert you to a change.
- › **Energy usage at the unit level:** Intelligent Equipment will tell you exactly how much energy each unit is consuming. Without extra programming, a BAS cannot link energy usage to an individual unit.







## Service Technicians

Service managers will appreciate the convenience of the Technician Dashboard to manage and diagnose their Daikin rooftops and air-cooled chillers.

Authorized users can adjust setpoints to address customer needs and resolve operation questions, even when the technician is working remotely, reducing maintenance costs. All data points are stored and can be trended for advanced diagnostics.

The Technician Dashboard provides equipment maintenance notifications and keeps a running history of all service performed on the unit. This helps ensure the unit operates at peak performance, from the initial commissioning and start-up to ongoing maintenance and operation changes.

*with Intelligent Equipment, you can avoid one.*

- › **Unlimited data:** Intelligent Equipment provides real-time data for over 150 points, all included with the annual subscription. Because it's stored in the cloud, there's no limit to the data; you can track back to any point since commissioning. Plus, you don't have to decide today what you want to track tomorrow.
- › **Data access:** With Intelligent Equipment, you have total access and control of the data.
- › **Easy user interface:** Intelligent Equipment was designed with an intuitive user interface that doesn't require skilled experts to read and use. Plus, the new on-boarding wizard helps new users set up the system.
- › **Low cost:** Because it's pre-engineered at the factory, there are no integration costs on site; just plug and play. Plus all 150 data points are included with your annual subscription; there are no programming fees for additional points.
- › **No integration required:** Intelligent Equipment is pre-engineered, so it comes factory installed. As a retrofit, Intelligent Equipment can be easily installed in less than two hours. Activation is as simple as turning it on.

# Manage equipment more effectively



## How it works

Intelligent Equipment is a control solution that connects directly to your Daikin HVAC air-cooled chiller or packaged rooftop to monitor energy consumption at the equipment level for deeper, more accurate performance measurement.

Intelligent Equipment works by connecting the HVAC equipment to the internet and to the building's authorized users — like the facility manager, building owner, and even the service technician. Being connected to the internet allows the system to push and pull a large volume of data between the cloud and the system, like this:

- › Intelligent Equipment pushes data securely into the cloud leveraging the Intel-McAfee based operating system. This operating system utilizes Intel's whitelisting technology to protect against malware tampering and guards against unauthorized software agents.
- › The data is consolidated in the cloud, to provide unlimited storage and trending; and presented back to the user within a user-friendly interface.
- › Intelligent Equipment analyzes the consolidated data and pulls it back into the HVAC system to optimize system performance. While the benefits are enormous, the solution itself is simple: an Intel-based gateway and sensors are installed on each individual unit either at the factory or in the field.

The gateway plus an annual software subscription (SaaS, "software as a service") provides connection to the cloud and your PC or mobile device. This connection enables secure, role-based access to an easy-to-use, intuitive interface. That's it.

# Unmatched visibility helps you improve your HVAC performance



Because the sensors connect directly to your HVAC unit, Intelligent Equipment provides unprecedented insight into your unit's performance. Building owners and managers can do more than ever before:

- › Monitor energy consumption at the equipment level for deeper, more accurate power measurement and insights.
- › Quickly and easily monitor and diagnose multiple units across multiple buildings remotely from any connected device.
- › Manage and index tenant comfort to ASHRAE standards.
- › View and trend performance data to benchmark performance at any point from commissioning to current day.
- › Increase unit uptime and extend equipment life with preventative maintenance notifications based on actual run time, not age.
- › Reduce maintenance costs with preventative notifications that can facilitate remote diagnostics and smarter truck rolls.
- › Assign HVAC unit management directly to your service team.
- › Compare pre-work to post-work order performance.
- › Maintain total access and control over your data. You decide who has the keys to see this information.

**To get a free demonstration, email us at  
[IntelligentEquipment@DaikinApplied.com](mailto:IntelligentEquipment@DaikinApplied.com).**

**Get 90 days of free access with your first year paid subscription.**

Whether you are replacing old equipment in an existing building or designing a new building, Daikin Applied is here to help. Our solutions experts can help you design or upgrade any HVAC system.

For more information about our complete line of Intelligent Equipment® solutions, contact your local Daikin Applied sales or service office or visit **[www.DaikinApplied.com](http://www.DaikinApplied.com)** to find an office near you..

