



# A Smarter Platform for Managing Your Data Centers

Experience total control with the  
i-Vu® Building Automation System



# i-Vu® Building Automation System

Bring all your operations into focus for a more efficient data center.

Data centers are both vital and energy-demanding. As an owner or operator, your responsibilities extend beyond maintaining continuous uptime; you must also lower energy use to cut costs and achieve sustainability targets. Our i-Vu building automation system (BAS) offers precise control, seamless integration, and reliability, empowering you to manage your data center through a single user interface.



## i-Vu® BAS

The i-Vu BAS helps ensure precise environmental conditions in your data center, contributing to consistent server uptime. Its support for open protocols allows centralized monitoring of all data center equipment, including HVAC systems and switchgear.



### Intuitive User Interfaces

i-Vu's intuitive interface provides a single pane of glass to manage your entire data center environment, delivering real-time insights into HVAC performance and critical factors like temperature, humidity, and power consumption.



### Smart, Open Controls

i-Vu's native BACnet controls seamlessly integrate and optimize all building systems within your data center—not just HVAC. Easily integrate power meters, switchgear, generators, and more for holistic management through a single platform.



### Expert Delivery

Choose from a range of factory-certified Controls Experts in your area to help manage your entire i-Vu installation and provide ongoing maintenance and support.



## Outcomes You Can Count On

Carrier is uniquely positioned to help address your data center challenges.



**Manage Environmental Conditions:** Precise climate control is essential to ensure server uptime. Our i-Vu® system precisely controls temperature and humidity in data center environments.



**Increase Uptime and Reliability:** Prevent equipment failures and minimize downtime with proactive monitoring and alerts that enable quick action to address potential issues.



**Improve Operational Efficiency:** Streamline building operations with centralized control and automation. i-Vu provides a single platform to manage all building systems in your data center for end-to-end visibility and remote management.



**Drive Sustainability Measures:** Data centers must adopt sustainability practices to reduce energy consumption and achieve net-zero carbon footprints. Our Carrier Controls Experts will work with you to create the right control system design and strategies.



**Stay Secure:** Our i-Vu software is backed by the [Carrier Global Cybersecurity Program](#) and undergoes rigorous testing to mitigate and protect it from vulnerabilities at every stage of the lifecycle.



# Real-Time Visibility Available 24/7/365

i-Vu's intuitive software makes it easy to manage equipment, systems, and facilities from anywhere. It offers guided insights, trend analysis, alarms, thermographic color floor plan displays, intuitive dashboards, and more. Best of all, you can tailor the deployment of your building automation server according to your data center's specific needs.



**On-Premises**

***Ideal for Edge and Telecom data centers***

- i-Vu server software comes preinstalled on a compact appliance
- Supports up to 750 controllers
- Automatic software updates



**On-Premises**

***Ideal for Enterprise and Co-location data centers***

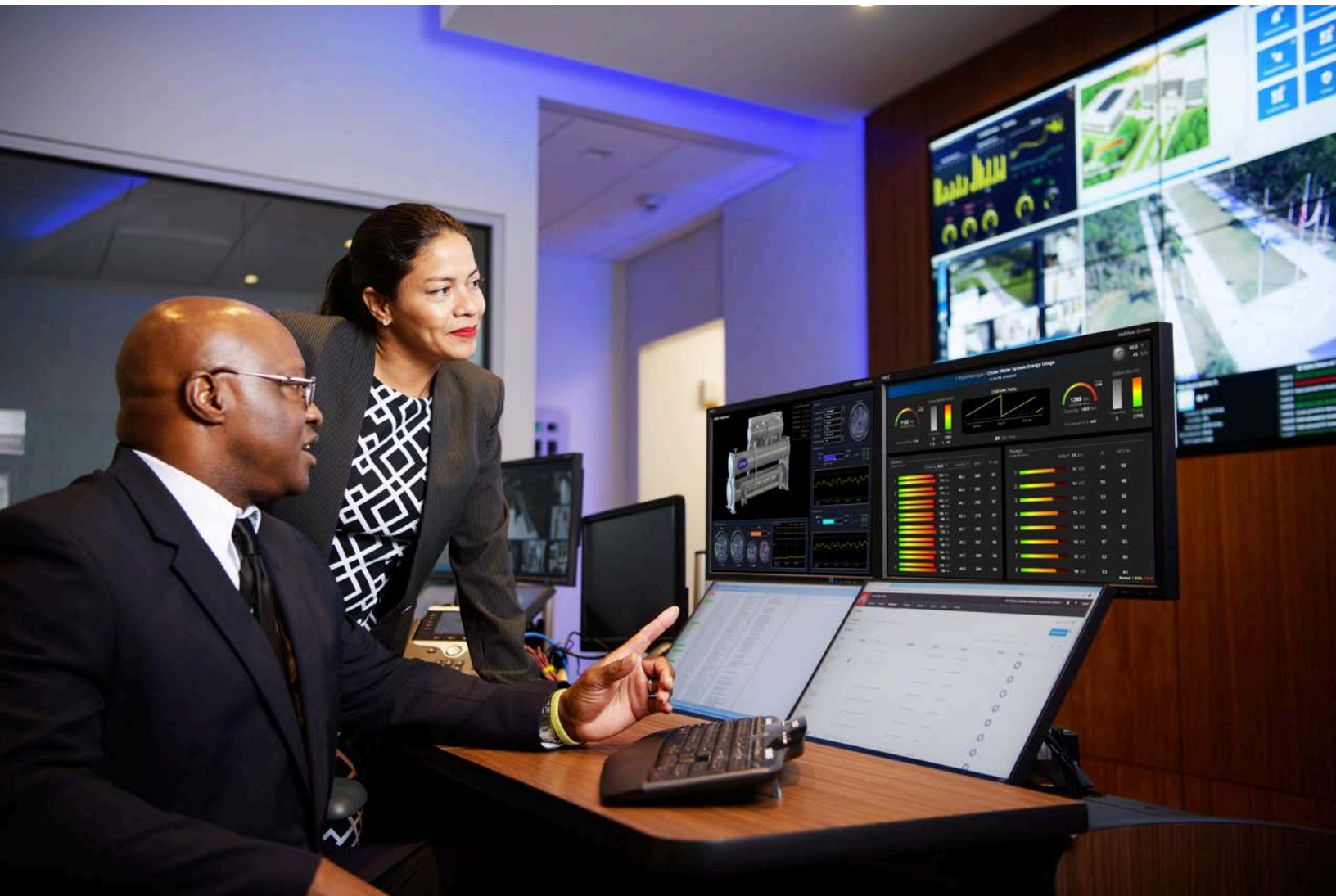
- Software only; i-Vu server sold separately
- Unlimited simultaneous users
- Available in 5 different software versions to accommodate different project sizes



**Cloud**

***Ideal for any data center***

- i-Vu server software is cloud-hosted, reducing your support burden
- BACnet Secure Connect (BACnet/SC), keeps on-premise building automation networks secure
- Automatic software updates and database backups



# Controls for Every Application

Our smart controls help you maintain precise control of your data center environment while helping you meet sustainability goals. They also help ensure seamless integration to other critical data center systems for comprehensive monitoring and control through a single user interface.

## Application-Specific Controllers



- **Flexible Installation:** Can be factory or field-installed on your HVAC equipment. Application-specific control sequences help ensure optimized equipment operation.
- **Open Standards:** Native BACnet communication and BACnet Testing Laboratories (BTL) certification for easy integration with other data center equipment and systems.
- **Industry Standards:** Supports ASHRAE Guideline 36 and Fault Detection and Diagnostics (FDD) to help data centers optimize energy and proactively address potential equipment issues.

## General Purpose Controllers

- **Versatile:** Support diverse HVAC needs for precise control over your data center environment.
- **Extensive Library:** Pre-built sequences for common data center applications, simplifying setup and installation.
- **Customizable:** Graphical programming allows for tailoring to your unique data center needs.



## Chiller Plant Optimization

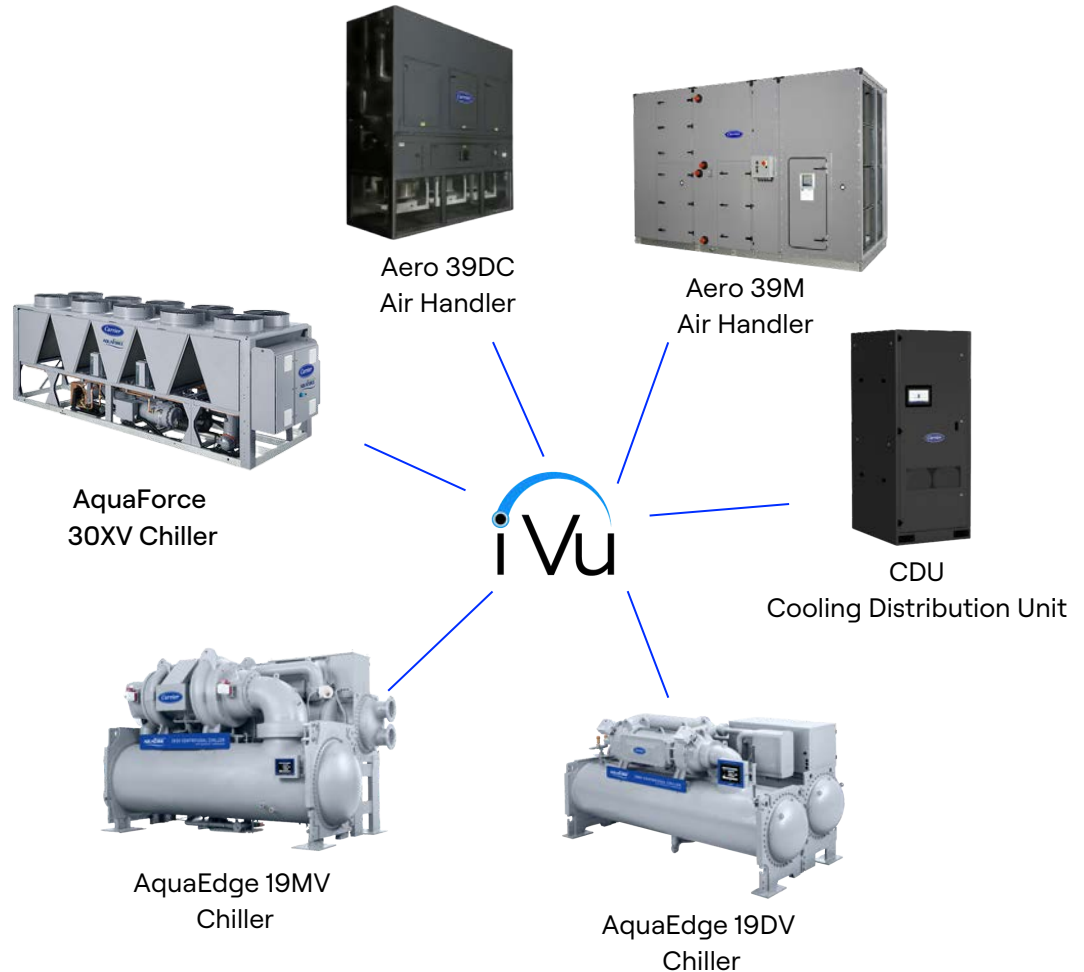


- **ChillerVu™ Plant Control:** Coordinates and optimizes chiller plant operations—including chillers, pumps, cooling towers — for maximum efficiency in your data center, helping to reduce energy costs while ensuring a reliable source of chilled water for critical IT equipment.
- **Chilled Water System Optimizer:** Improves the efficiency of the chilled water system for the data center, including air handling units, fan coils and other distribution equipment. By optimizing chilled water flow and temperature, this technology helps reduce energy consumption, contributing to lower operating costs and a smaller environmental footprint.

# Energy-Efficient Carrier HVAC Equipment

When it comes to meeting the demands of your data center, the i-Vu® building automation system is just the beginning. i-Vu works seamlessly with our Carrier HVAC equipment as well as other Carrier software offerings designed for the data center.

The i-Vu BAS is optimized to work with Carrier HVAC equipment and other Carrier management software.

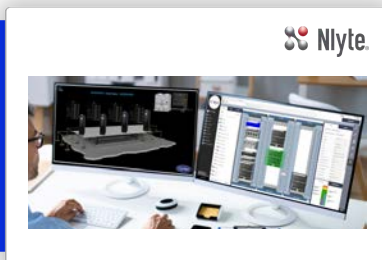


## Next-Level, Integrated Software Management Solutions



### ABOUND® Digital Platform

Enhance your i-Vu building automation system with tools that help data center operators optimize energy efficiency, meet sustainability targets, and gain predictive insights into HVAC equipment performance.



### Nlyte Software®

Manage facility and IT systems holistically by integrating your i-Vu system with Nlyte's data center management software. This Integrated Data Center Management (IDCM) solution helps to increase energy savings, reduce costs and ensure uptime.



## Success Stories



### Bahnhof Data Centers

When Bahnhof Data Centers needed a solution to reuse energy from their unique underground facility and optimize chiller plant operations, Carrier's AquaForce® chillers with heat reclaim capabilities and ChillerVu™ controls were the answer. See how Carrier delivered a sophisticated, scalable solution that maximizes energy efficiency, eliminates cooling tower "fog," and provides 100% system redundancy for reliable server cooling.

[Learn More](#)

### Data Center in Shanghai, China

A large scale data center in Shanghai, China turned to Carrier to help optimize their cooling system efficiency. The solution featured eight Carrier 19XR chillers and two i-Vu® ChillerVu plant control systems, resulting in 23% energy savings for the chillers and an additional 10% with controls. Overall, efficiency improved by over 30%, saving 210,000 kWh annually.



### Data Center in New Jersey

A New Jersey healthcare facility partnered with Carrier to manage their data center using i-Vu Pro software. TruVu controls, integrated via the BACnet protocol, enable centralized monitoring of CRAC units, generators, PDUs, batteries, electric meters, paralleling gear, leak panels, and a UPS.

## The Expertise to Take You Even Further.

Carrier trains, tests and certifies HVAC installers to be experts in building controls. With thorough training and ongoing testing, our certified installers are always available to help you get the most from your i-Vu BAS. So wherever you are, know that you can count on us for the industry-leading excellence that's synonymous with the name Carrier.



For more information,  
visit [www.carrier.com/ivu](http://www.carrier.com/ivu) or

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