i-Vu® Building Automation System
Total Control and Comfort for Your Building

Carrier

i-Vu® Building Automation System (BAS)
Comprehensive Building Management & Control

The i-Vu® building automation system from Carrier transforms equipment and controls into an optimized system that is easy to understand, monitor, regulate, and change.

- Manage your building from anywhere, at anytime.
- Gain insights with powerful graphics and dashboards.
- Proactively respond to issues with integrated alarming.
- Pinpoint anomolies with built-in trends.
- Schedule spaces to save energy when rooms are not in use.

The i-Vu BAS also offers seamless integration to third party subsystems and enterprise software applications.

- Connect lighting systems, variable speed drives, and power meters.
- Pull in weather reports, third party schedules, utility data, and more.
- Achieve centralized control through a single user interface.

Facilities staff can connect locally — through a wall-mounted touchscreen interface in the building — or remotely from any web-enabled device.

The i-Vu BAS also supports a wide variety of room sensors and occupant interfaces to sense and manage comfort in the space. Available in both wired and wireless versions, these devices:

- Feature contemporary designs and neutral colors to match any decor.
- Display current comfort conditions, including temperature, humidity, and indoor air quality.
- Allow occupants to adjust temperature setpoints or initiate occupancy overrides.

The i-Vu Building Automation System enables web-based and local access for both facilities staff and building occupants to deliver total system and comfort control.

Open and Flexible Controls
Designed to Meet Any Building Application

Total control begins with the fundamentals. Our i-Vu® controllers range from application-specific to general purpose and support plug-and-play connectivity to the i-Vu BAS.

- Flexible – can be factory-installed or field-mounted on your HVAC equipment

- Open - supports the native BACnet protocol and are BACnet Testing Laboratories (BTL) certified

- Scalable – build small or large systems easily

Our i-Vu general purpose controllers are fully programmable, and also support:

- Multiple I/O configurations for accomplishing both common and custom HVAC control strategies

- An extensive application library of control sequences for the most common applications

- Customized control logic using our SNAP graphical programming tool

i-Vu control solutions are also available for optimizing chiller and central plants. These solutions include integrated i-Vu dashboards for providing real-time and historical performance data.

Carrier® ChillerVu™ - Coordinates control of an entire chiller plant, including chillers, pumps and towers.

Chilled Water System Optimizer - Helps improve the efficiency of an entire chilled water system, including air handling units, fan coils and other chilled water distribution equipment. Energy savings in the range of 3% to over 20%[1] are possible.

Open Service
The "Carrier Controls Expert" Advantage

Protect your investment in the i-Vu building automation system by choosing a factory-authorized Carrier Controls Expert Certified Contractor.

The Carrier Controls Expert program trains and certifies an elite class of HVAC contractors who install and service the i-Vu building automation system in commercial buildings.

Through thorough training of their specialized service technicians — and ongoing testing at various Carrier Controls Expert training centers — certified contractors maintain extensive knowledge of the i-Vu building automation system and its components.

This serves to maximize the value of your systems, to optimize the performance of your facility, and to protect your investment in equipment and controls.

Select your choice of Carrier Controls Experts in your area, and you'll be sure your installer has the expertise and backing of Carrier whenever they serve your facility.

www.carrier.com/controls-experts

[1] The Optimizer algorithm was evaluated using computer driven modeling and simulations, and at field test sites. Actual savings will vary based on local climate zone, local weather conditions, building type and envelope performance, operating schedules, air-side HVAC system type, chiller type, baseline control strategy and other variables.

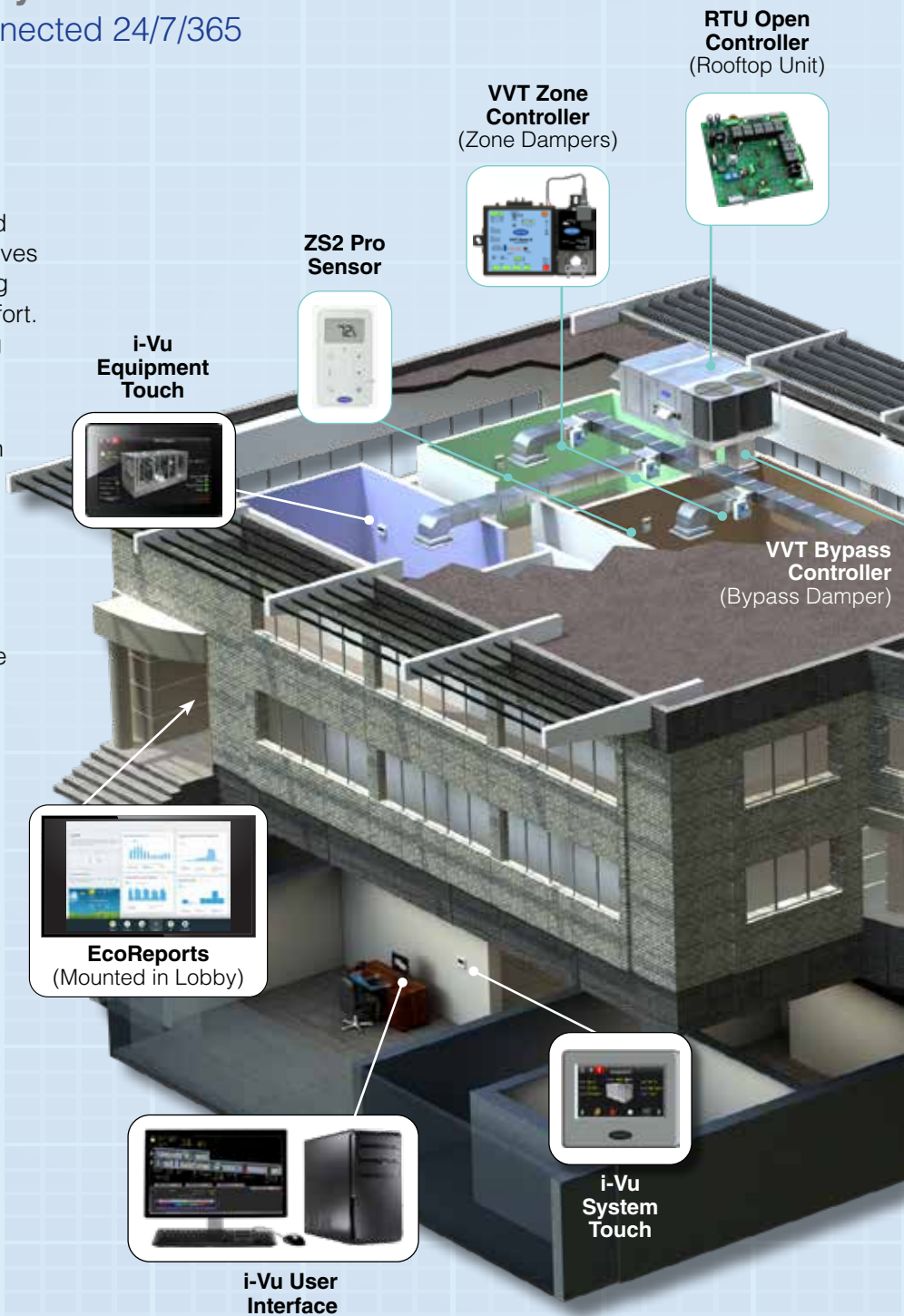# i-Vu® Building Automation System
Components That Keep You Connected 24/7/365

The i-Vu® building automation system (BAS) brings the big picture into sharp focus with a 360° view of your building's entire operation.

With its ability to communicate with HVAC and ancillary system components, the i-Vu BAS gives you a real-time consolidated view of operating conditions, energy usage and occupant comfort. As a result, you'll know precisely what's going on... and why.

Regardless of the control type or equipment manufacturer, the i-Vu BAS is your connection for seamless, comprehensive and flexible control of all systems in your building.

- Easy to install and commission

- Pre-engineered control programs simplify system set-up and minimize the need for field programming

- Built-in system strategies eliminate the need for expensive system coordination modules

- Engineered for a variety of energy saving strategies

- Intuitive, graphic-rich i-Vu user interface keeps you connected to your facility from any web-enabled device or locally through a wall-mounted touchscreen

- Unique graphics for individual system components give users total insight and control

- General purpose controllers enhance flexibility and support custom graphical programming

RTU Open Controller
(Rooftop Unit)

VVT Zone Controller
(Zone Dampers)

ZS2 Pro Sensor

i-Vu Equipment Touch

VVT Bypass Controller
(Bypass Damper)

EcoReports
(Mounted in Lobby)

i-Vu System Touch

i-Vu User Interface

iVu

ASHRAE BACnet™

TV-MPC XP
TV-MPC XP I/O
(AHU)

UC Open XP
(AHU)

i-Vu
BACnet Link
(Lighting Integration)

VAV Zone
Controller
(Air Terminals)

ZS2 Pro
Sensor

BACnet
Thermostat
(Plus)

Carrier

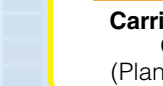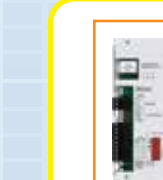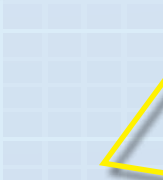CONTROLS EXPERT

Web-Enabled
Tablet

CENTRAL PLANT

Carrier® ChillerVu™
Optimizer
(Plant Optimization)

Carrier® ChillerVu™
(Plant Control)

Advanced Energy Analysis & Reporting
Carrier EcoReports™ Software Helps Increase Efficiency & Sustainability

Make energy savings and resource conservation top priorities in your building by adding EcoReports software to your i-Vu building automation system. Available in two versions, this powerful reporting package leverages data from the i-Vu system to give you an enhanced view of energy performance.

- Visualize energy usage and costs using pre-built dashboards to help identify problem areas and uncover opportunities for improvements.

- Share insights throughout your organization and deliver key findings to any stakeholder.

- Engage occupants with compelling public energy dashboards that tell your building's efficiency and sustainability story, and encourage teams across your organization to collaborate around shared sustainability goals.

- Showcase your buildings' unique green features and smart building technologies alongside live performance metrics.

Comprehensive Expertise
Carrier Equipment, Controls and Service Offer Proven Reliability

CONTROLS EXPERT

Carrier provides a complete line of HVAC equipment for commercial buildings, as well as powerful i-Vu® controls that come factory-installed on Carrier equipment for cost savings and ease of set-up.

Our advanced i-Vu controls integrate seamlessly with Carrier HVAC equipment. They also feature built-in control programs, which are engineered by Carrier equipment experts with efficiency, energy savings, and optimum equipment performance in mind.

This helps ensure that all components work together as a complete system.

With the renowned reliability and efficiency of Carrier products, the precise and flexible capabilities of i-Vu controls, and the unparalleled access provided by the i-Vu building automation system, your facility can achieve maximum operational performance while your Carrier Controls Expert certified contractor can provide complete peace of mind.

So whatever and wherever the application, the i-Vu building automation system responds with the industry-leading excellence that is synonymous with the name Carrier.

i-Vu® Web User Interfaces

i-Vu Standard and Plus

i-Vu Pro 5, i-Vu Pro 32
i-Vu Pro 750, i-Vu Pro
Unlimited

Energy Reporting

EcoReports™
Analytics and
Reporting

Touchscreens

i-Vu TruVu™ ET
Displays
(4", 7", 10")

i-Vu Equipment
Touch

i-Vu System
Touch

Networking and Integration

i-Vu XT BACnet Router

i-Vu XT BACnet Link

i-Vu CCN Router

UPC Open

i-Vu CCN Link

Carrier Equipment with Factory-Installed i-Vu Control Options

48/50 Series RTUs

39 Series AHUs

40 Series
Unit Ventilators

42 Series
Fan Coils

50 Series
WSHPs

VAV/VVT Air Terminals
35 Series (single duct)
45 Series (parallel/series fan)

30 Series
Air-Cooled Chillers

19, 23, and 30 Series
Water-Cooled Chillers

Communicating Space Sensors

Combination Sensing

ZS
Standard

ZS
Plus

ZS
Pro

ZS
Pro-M

ZS
Pro-F

Wireless
Standard

Wireless
Plus

Wireless
Pro-F

Application-Specific Controls

HVAC Equipment

BACnet
Thermostat
Standard

BACnet
Thermostat
Plus

Connect stat

RTU Open

Zoning

Smart Valve
Pressure Independent

VAV Zoning

Smart Valve
Pressure Dependent

VVT Zoning

General Purpose Controls

AppController

UC Open

UC Open XP
UC Open XP IO

TruVu MPC
Processor

TruVu MPC XP
Expanders

Plant Control

Carrier
ChillerVu™

Chilled Water
System Optimizer

i-Vu® Building Automation System

**For more information, visit
www.carrier.com/ivu
or
contact your local
Carrier Controls Expert.**

**Controls Expert Locator:
www.carrier.com/controls-experts**