



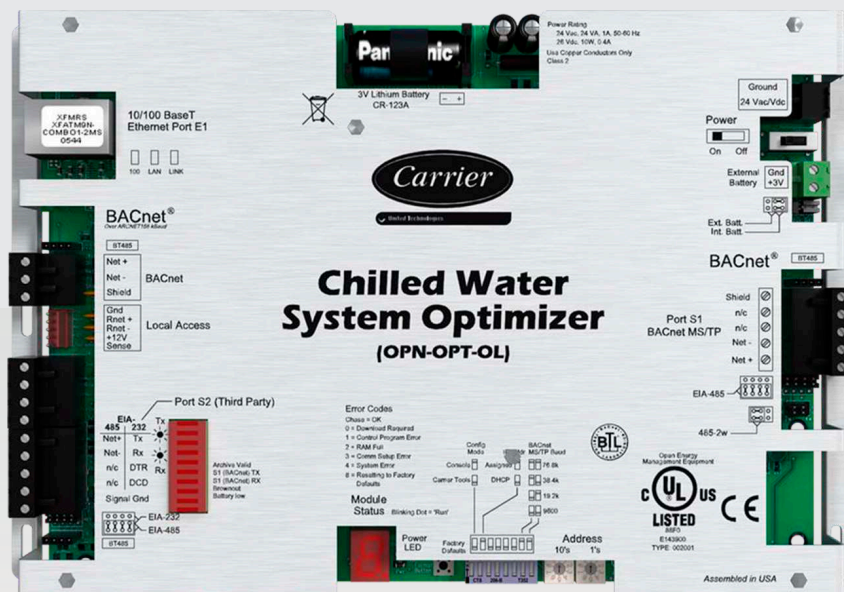
Su socio estratégico en soluciones de control

CONTROLADORES BACNET HVAC

Chiller Vu

Chilled water system optimizer

OPN-OPT-OL



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i-Vu[®] Building Automation System Carrier[®] ChillerVu[™] Chilled water system optimizer



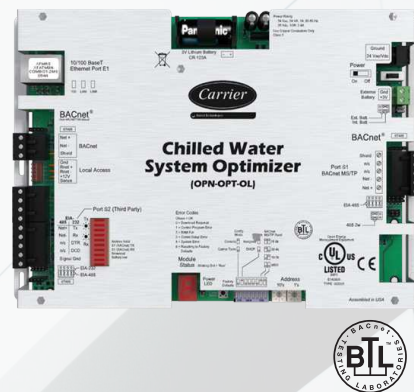
Part Number: OPN-OPT-OL

The i-Vu[®] Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet controllers, and state-of-the-art Carrier equipment.

water production of the chiller plant, managing the plant chilled water supply temperature and the condenser water supply temperature to provide optimal energy usage while maintaining occupant comfort in the building.

The Carrier[®] ChillerVu[™] chilled water system optimizer is a sophisticated, scalable, native BACnet plant optimization solution for chiller plants. The chilled water system optimizer minimizes the energy use of the entire chilled water system, up to and including air handling units. The factory-engineered control program is designed to provide a supervisory level of control over the chilled

The Carrier chilled water system optimizer seamlessly interfaces with the ChillerVu plant system manager and is compatible with plants consisting of Carrier 19, 23, or 30 series chillers (air or water-cooled). The system can also be applied to plants featuring third party equipment and controllers, providing the same optimization benefits as are possible with Carrier based plants.



System Benefits

- Compatible with Carrier's ChillerVu[™] plant manager
- Easy startup and commissioning using the i-Vu user interface
- Fully plug-and-play compatible with the Carrier i-Vu building automation system, extending the efficiency improvements possible within the plant room to the entire chilled water system
- Supports integration to chiller plant equipment using BACnet and Modbus[®] protocols
- Embedded trends and alarms provide insight into chiller plant performance, and also aid in system tuning, maintenance, and troubleshooting

Energy Savings

- Chilled water setpoint algorithm adjusts the plant setpoint while monitoring and maintaining optimal chilled water system energy consumption
- Dynamic condenser water setpoint algorithm adjusts to maintain optimal tower setpoint, minimizing chiller lift, compensating for ambient conditions and tower approach and providing optimum efficiency
- Intelligent learning algorithms find the optimal energy usage while maintaining comfort conditions
- Automatically adapts to changing conditions

Software Features

- Supports Metric and English units
- Intuitive pre-built dashboard shows total plant energy usage at a glance; displays system energy performance in real time
- Calculates and displays total system kW, tonnage, and kW/Ton

Robust Control Features

- Easy, unobtrusive addition to virtually any communicating plant control system
- Optimizes energy consumption across the entire chilled water system; supply and consumption
- Supports system optimization of non-Carrier controlled plants via BACnet and Modbus protocols



i-Vu[®] Building Automation System Carrier[®] ChillerVu[™] chilled water system optimizer

Part Number: OPN-OPT-OL

BACnet Support	Application Specific Controller (B-ASC), as defined in BACnet 135-2012 Annex L, Protocol Rev. 9
Communication Ports	Ethernet Port (E1): 10/100 BaseT Ethernet port for LAN, BACnet/IP, and/or Modbus TCP/IP communications BACnet port: Not supported - do not use Port S1: Not supported - do not use Port S2: Configurable EIA-485/EIA-232 port for third party network connections, including: -Modbus (RTU and ASCII modes) @ 9600, 19200, 38400, and 76800 baud Local Access port: For system start-up and troubleshooting
Protection	Incoming power and network connections are protected by non-replaceable internal solid-state polyswitches that reset themselves when the condition that causes a fault returns to normal. The power and network connections are also protected against transient excess voltage/surge events lasting no more than 10 msec.
Battery	10-year Lithium CR123A battery provides a maximum of 720 hours of time retention during power outages.
Status Indicators	LED status for communications and low battery. 7-segment status display for running, error, and power.
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), CE, FCC Part 15-Subpart B-Class A
Addressing	Rotary dip switches set optimizer address
Real Time Clock	Battery-backed real time clock
Environmental Operating Range	-Operating: 0 to 140°F (-18 to 60°C), 0 to 90% RH, non-condensing -Storage: -20 to 140°F (-29 to 60°C), 0 to 90% RH, non-condensing
Power Requirements	24VAC ± 10%, 50-60Hz 24 VA power consumption 26VDC (25V min, 30V max), 10W

Dimensions

Overall

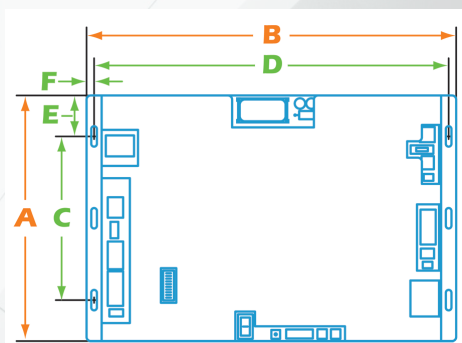
- A:** 7-1/2" (19.1 cm)
- B:** 11-3/8" (28.9 cm)

Mounting

- C:** 5" (12.7 cm)
- D:** 10-7/8" (27.6 cm)
- E:** 1-1/4" (3.2 cm)
- F:** 1/4" (.6 cm)

Depth: 1-1/2" (3.8 cm)

Weight: 1.4 lbs. (.64 kg)



CONTROLS EXPERT

Tested. Certified. Factory Authorized.

For more information, contact
your local Carrier Controls Expert.

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

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Conozca nuestra serie de documentos con soluciones integrales que mejoran el control y la eficiencia, y nuestros últimos casos de éxito.

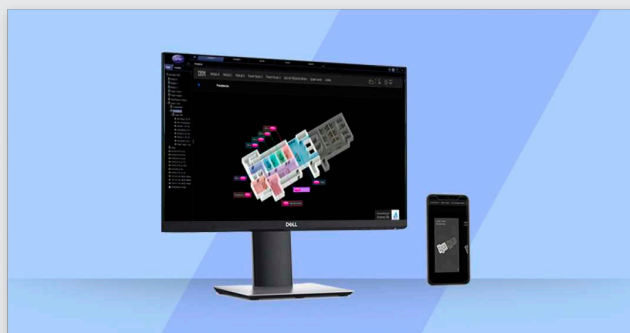
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Encuentre los productos necesarios para la gestión de edificios inteligentes o industrias; controladores BACnet HVAC, sistemas Carrier Confort Network, sensores y add-ons.

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Pruebe nuestra demo i-Vu

Experimente nuestra interfaz gráfica para el control de equipos que se encuentran en los sistemas de edificios e industrias. Interactúe como si fuera un operador mediante el sistema i-Vu.

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