

verdant[®]

eNviro iQ[™]

Advanced comfort control and energy management for the hospitality industry.



Verdant eNviro iQ[™] Energy Management System (EMS) specifically designed for the hospitality industry delivers unprecedented energy savings without compromising guest comfort.

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User-friendly Thermostat

Large touch-screen with descriptive virtual buttons and automatic backlight makes the Verdant eNviro iQ™ thermostat a pleasure to operate for hotel guests.

A touch of the finger allows adjusting the temperature in precise $\pm 1^\circ$ ($^\circ\text{F}$ or $^\circ\text{C}$) and controlling the fan speed.

The industry's first "INFO" button displays up to ten (10) promotional or informational messages from the hotel management.



Effortless Installation

Comprehensive configuration options ensure full compatibility with virtually any existing or emerging hospitality HVAC system.

Wired or wireless connectivity to the climate control unit facilitates integration with an existing HVAC infrastructure.

Intelligent system design minimizes the number of components to be installed - keeping installation costs to a minimum.

Built-in Wireless Networking

Built-in wireless mesh-networking enables remote management capabilities and facilitates the installation.

Secure, frequency-hopping, proprietary wireless technology ensures interference-free data transmission.

Autonomous, self-configuring, wireless network does not use or interfere with a property's existing wireless infrastructure.

Reliable Occupancy Detection

Integrated occupancy sensor uses a combination of motion and thermal sensing technologies for 100% accurate occupancy detection.

Reliable occupancy detection allows saving energy when rooms are unoccupied and ensures comfort when a guest is in the room.

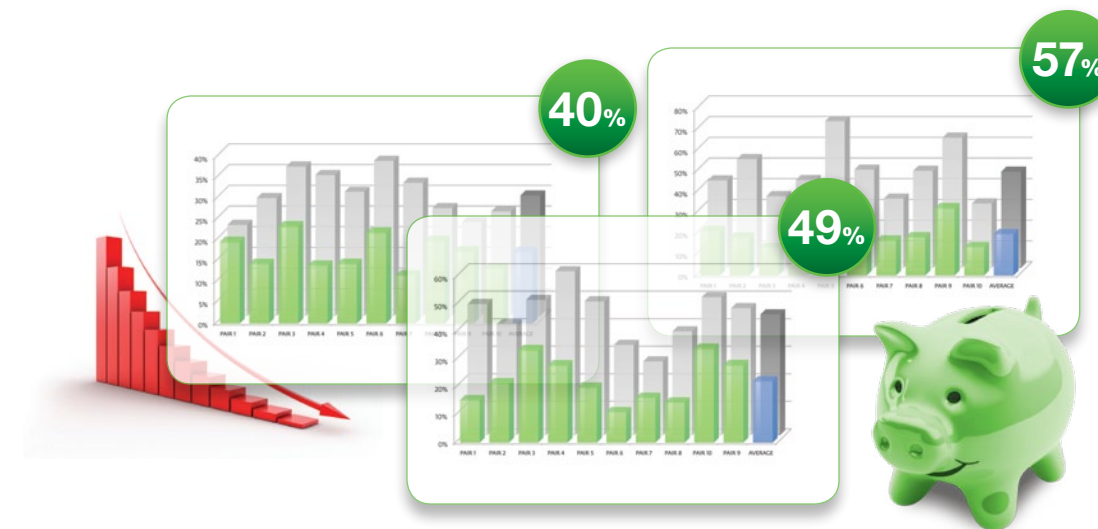
Intelligent occupancy detection differentiates between incidental and guest occupancy in order to completely eliminate unnecessary energy consumption.

Ultimate Guest Comfort

"Automatic Temperature Restore" automatically restores guest's preferred temperature when a guest enters the room.

Automatic Humidity Control maintains room humidity to ensure guest comfort and prevent destructive effects of humidity.

Night Occupancy feature ensures that the thermostat is controlling the temperature according to the guest's selected settings - even while guests are sleeping.



Unprecedented Energy Savings

Extensive energy saving features allow Verdant eNviro iQ™ thermostats to drastically reduce guest-room HVAC energy consumption.

Guest-room HVAC energy consumption accounts for the majority (>65%) of the total energy consumption of hospitality properties.

Hospitality properties with Verdant eNviro iQ™ EMS are on average reducing their guest-room HVAC energy consumption by more than 40%.

Energy Saving Reports are based on data from actual properties with Verdant eNviro iQ™ EMS.

Unique Energy Saving Features

Unique, fully configurable, energy saving features eliminate unnecessary energy consumption without compromising a comfortable guest experience

- **Temperature Setback** automatically adjusts the temperature when room is unoccupied in order to save energy.
- **Temperature Recovery** allows setting a maximum time permitted for establishing a comfortable room temperature.
- **Setback Optimization** continuously monitors the HVAC unit's efficiency and optimizes setback temperatures to maximize energy savings in each room.
- **Setback Limits** allow controlling the maximum and minimum room temperature when the room is in the setback mode.
- **Setpoint Limits** prevent guests from setting the room temperature to extreme, energy-wasting levels.

Comprehensive Remote Management

Web-based remote management provides a comprehensive solution for both corporate and property specific remote monitoring, configuration and statistical reporting.

- Room status reporting displays the current operational, occupancy and energy efficiency status of all rooms on the property.
- Room detail reporting, displays real-time temperature and occupancy changes for each room on the property.
- Energy usage reports monitor energy use and can even evaluate the performance of the Verdant eNviro iQ™ EMS.
- Remote configuration with "Zone" interface makes it easy to apply different configuration options to individual rooms or groups of rooms on the property.
- Comprehensive user management allows configuring custom access permissions and alert notification settings for different users.

Built-in diagnostic tools automatically send email alert notifications to registered users to ensure timely response to any detectable operational issues.

- Communication interruption notifications identify rooms with non-working climate control units.
- Temperature alerts help identify malfunctioning equipment and prevent damages caused by extreme temperatures.
- "Low Battery" notifications inform the maintenance staff when to change the batteries in the thermostat.



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