



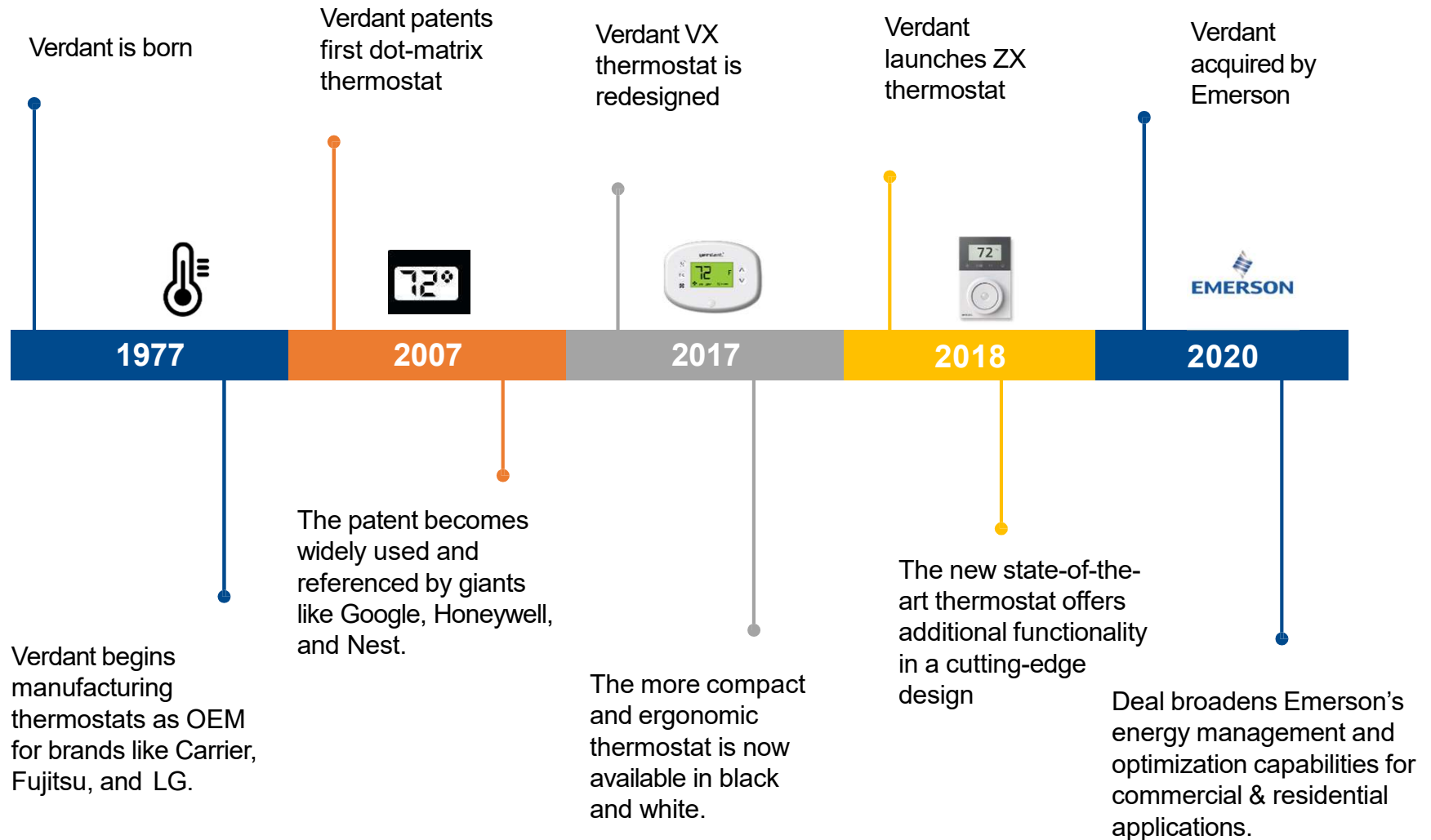
# Verdant Energy Management Solutions

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Trusted and installed by thousands of hotels, schools,  
assisted living residences, and other commercial facilities



# Our History



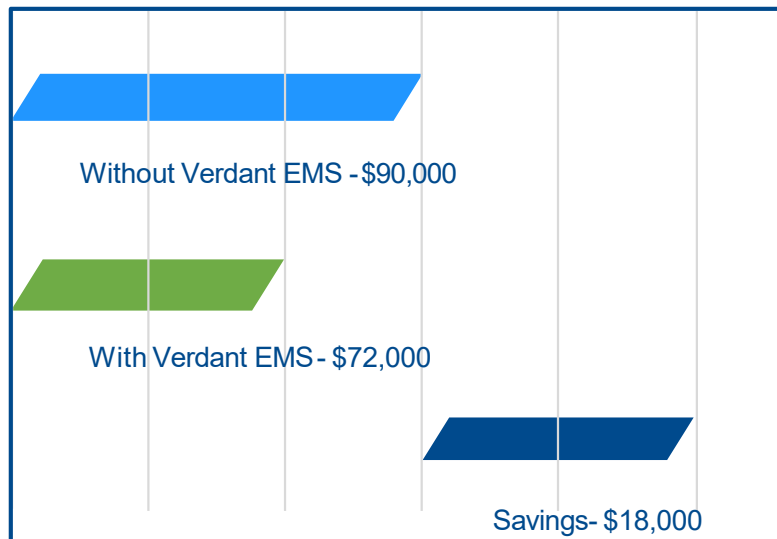
# What we do

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## Estimated Energy Savings

Typical 100 Room Property



- Delivering maximum energy savings.
- Never compromising guest comfort.
- Reducing HVAC runtimes by up to 40%.
  - 15-20% reduction in overall energy costs.
- Pays for itself in 12-18 months.

# VX Thermostat

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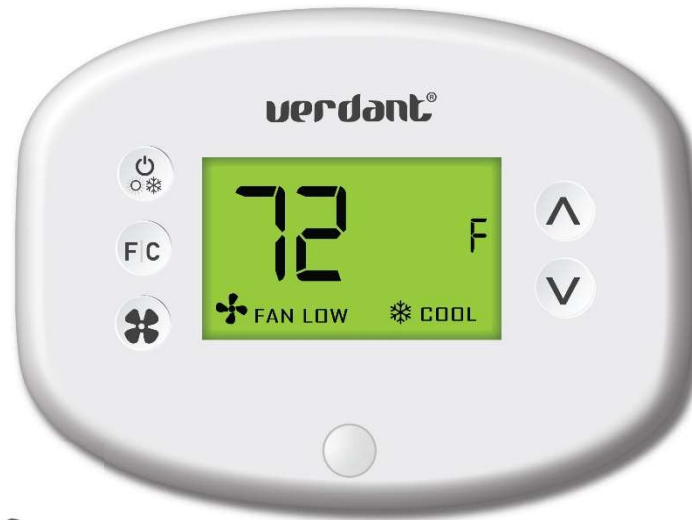
Battery Powered  
Wireless Option

Precise  
Temperature  
Control in  
°F or °C

Integrated  
Wireless  
Networking

Easy to use  
interface

Large LCD Screen  
with automatic  
backlight



Built-in Occupancy Sensor

**Also Available In Black**

# ZX Thermostat

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Modern  
intuitive design

Epaper  
Display



Built-in line  
voltage support

Additional relays for  
control of guestroom  
technology

Improved Battery life (2X AAA)

# Comparison Chart



Product	ZX Thermostat	VX Thermostat
Wired	✓	✓
Wireless	✓	✓
Occupancy Detection	✓	✓
Patented Night Occupancy Mode	✓	✓
Display	E-paper	LCD
Online Management	✓	Optional
Humidity Control	✓	✓
Verdant EI™	Optional	Optional
Line Voltage	✓	✓*
Fan Speeds	3	3
Relays	7	6
Batteries	2x AAA	2x AA
10 Minute Self-Install	✓	✓
Remote Sensors for occupancy, temperature and door/window closing	✓	✓

# How it works

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**Guest is in the room:  
Guest sets temperature**

**Customizable guest  
temperature range**



**Guest leaves:**

**Thermostat sets back  
temperature after short  
setback delay.**

**Automatic lighting  
shutoff available.**



**Guest returns:  
Thermostat  
immediately recovers  
to guest temperature**

**Customizable recovery  
times**

# Special Features

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## **Flexible Setbacks**

**Configurable based on temperature or recovery time.**



## **Night Occupancy Mode**

**Disables energy management while residents are asleep.**



## **Humidity Control**

**Assists in maintaining comfortable humidity levels.**

# Flexibility

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## Wired

**For properties with existing  
thermostat and/or wiring**

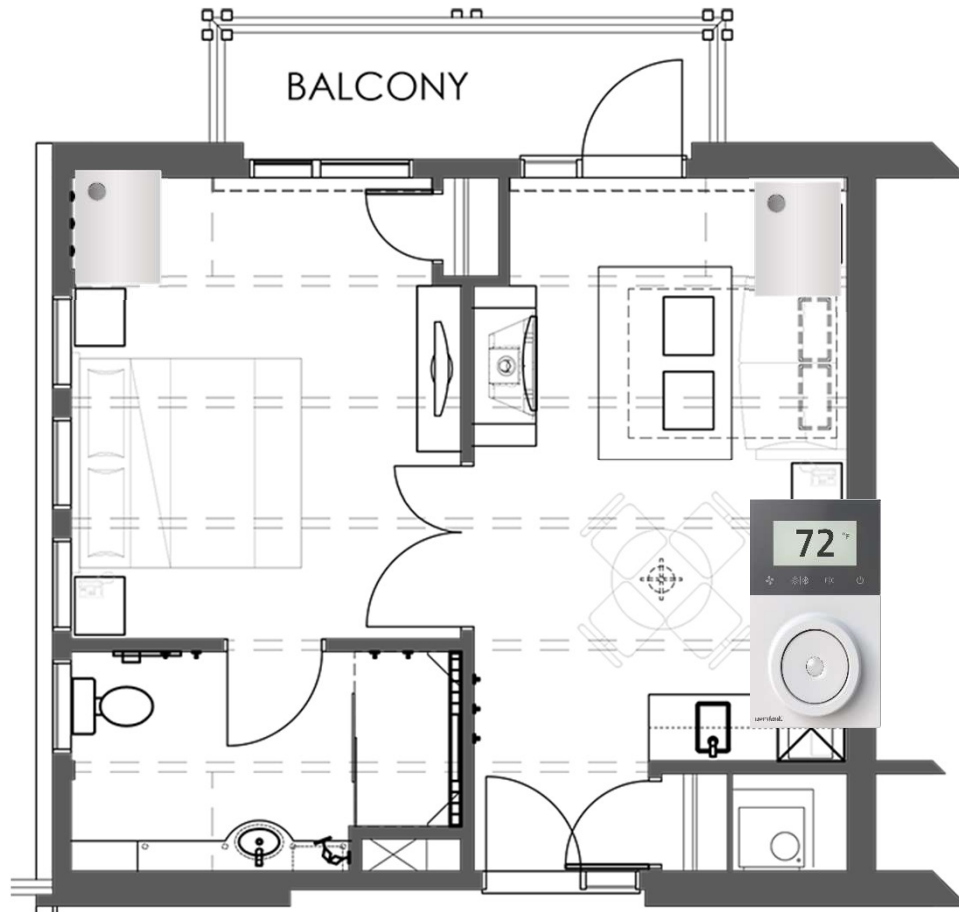


## Wireless

**Place your thermostats  
anywhere in the room**

Can be self-installed in 10 minutes or less

# Accessories – Suites & Patio Doors



## Wireless Remote Sensors

Remote sensors allow for accurate occupancy detection in multi-bedroom suites.

Exterior door sensors disable air conditioning when doors are open.

# Superior Wireless Networking

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## Wireless networking

Allows the thermostats to connect to the internet.

## Autonomous and Interference Free

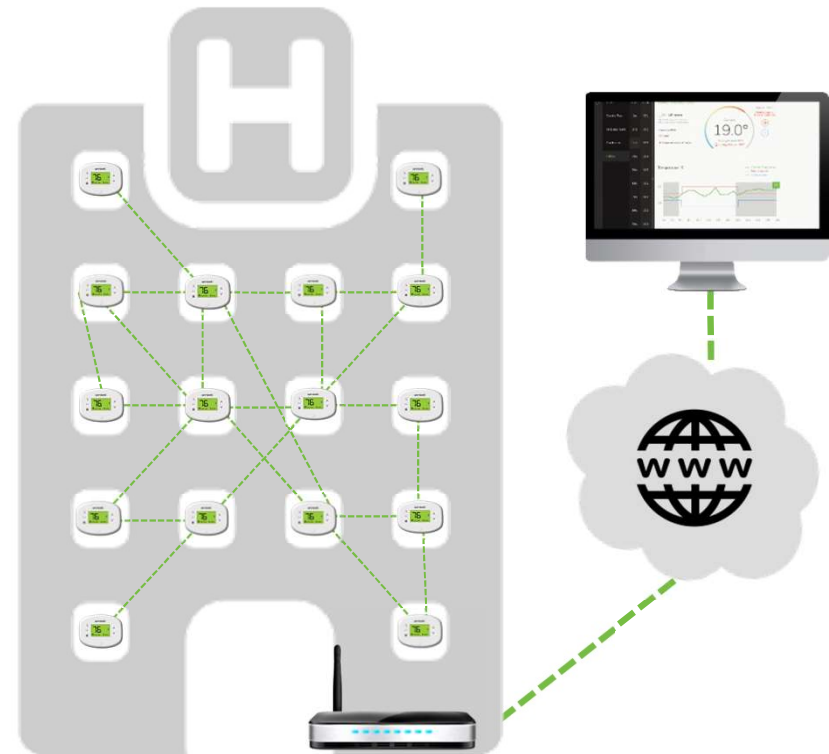
Our proprietary wireless network does not interfere with guest WIFI.

## True mesh networking

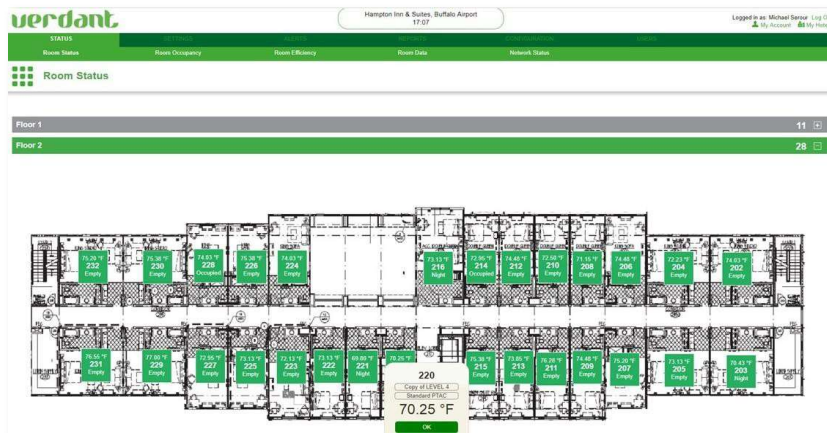
No additional equipment required, each device acts as a network node.

## Connect up to 1000 rooms

One online connection kit is all you need to connect an entire property to the internet.



# Remote Management Web Portal



Hampton Inn & Suites, Buffalo Airport  
17:08

Logged in as: Michael Serour Log Out  
My Account My Hotels

STATUS SETTINGS ALARMS NETWORKS OVERVIEW/ANALYSIS LOGS

Energy Equipment

Name: Hampton Buff Custom SAVE CHANGES

Control Options

Temperature Mode ☒ Auto ☐ Manual ☐ Smart Switch

Fan Mode ☒ Automatic ☐ Continuous

Maximum Setpoint 76

Minimum Setpoint 67

Automatic Humidity Control ☐ Off

Occupancy Detection

Energy Management

Energy Management ☒ On

Setback Delay - Cool 15 Minutes

Setback Delay - Heat 15 Minutes

Setback Temperature ☒ On

Maximum Setback Temperature 80

Minimum Setback Temperature 63

Room	Temp.	Guest SP	Heat SP	Cool SP	Hum. %
112	72.68°F	75°F	69°F	75°F	-
113	72.95°F	73°F	79°F	73°F	-
114	71.60°F	73°F	70°F	73°F	-
115	73.58°F	68°F	68°F	75°F	-
116	69.98°F	65°F	69°F	65°F	-
117	71.78°F	77°F	66°F	77°F	-
148	71.60°F	75°F	67°F	75°F	-
149	74.30°F	74°F	73°F	74°F	-
150	72.50°F	75°F	69°F	75°F	-
151	74.48°F	75°F	67°F	75°F	-
152	72.05°F	75°F	69°F	75°F	-
202	74.03°F	75°F	69°F	75°F	-

# Verdant EI

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The industry's first guestroom energy management service.

1

## **Fully Automated Service**

No property staff involved.

2

## **Optimal Energy Savings 24/7**

Takes advantage of every real-time savings opportunity.

3

## **Fully Customized**

Tailored by Verdant energy management experts to achieve your goals.

4

## **Verdant EI Apps**

Streamline your operations from any device.

# Verdant EI App

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## El Dashboard

**Real time  
savings  
analysis**

## El Ops

**Room alerts,  
status, and  
more**

## El Occupancy

**Streamline  
housekeeping  
tasks.**

## El Users

**Manage user  
permissions**

# Hilton Connected Room

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- Connects wirelessly to Hilton Edge Controller via ZigBee
- Allows for Remote Control via Hilton Honors App
- Existing Verdant thermostats in the Field can be upgraded



COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS. US PATENTS:  
7,918,406; 7,232,075; 7,185,825; 7,156,318; 7,152,806; 7,145,110; 7,050,026;  
7,028,912; 6,902,117; 6,789,739; 6,786,421; 6,619,555; 6,581,846; 6,578,770;  
7,838,803; 7,841,542; D556,061; D518,744; RE40,437; CANADIAN PATENTS:  
2,633,113; 2,633,200;

OTHER PATENTS PENDING.

Verdant Environmental Technologies reserves the right to make changes, without notice, in design or components as progress in engineering and manufacturing methods may warrant. Product appearance may vary.

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