Verdant VX-TW-KT-W

Verdant VX Series Wired Energy Management Thermostat User Manual

Model: VX-TW-KT-W

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Verdant VX Series Wired Energy Management Thermostat. Designed for robust performance and energy efficiency, this thermostat is ideal for various commercial and hospitality environments.

PRODUCT OVERVIEW

The Verdant VX thermostat is a field-proven solution for energy management, offering reliability and significant value. It incorporates advanced features for guestroom energy management, trusted by numerous hotels across North America.
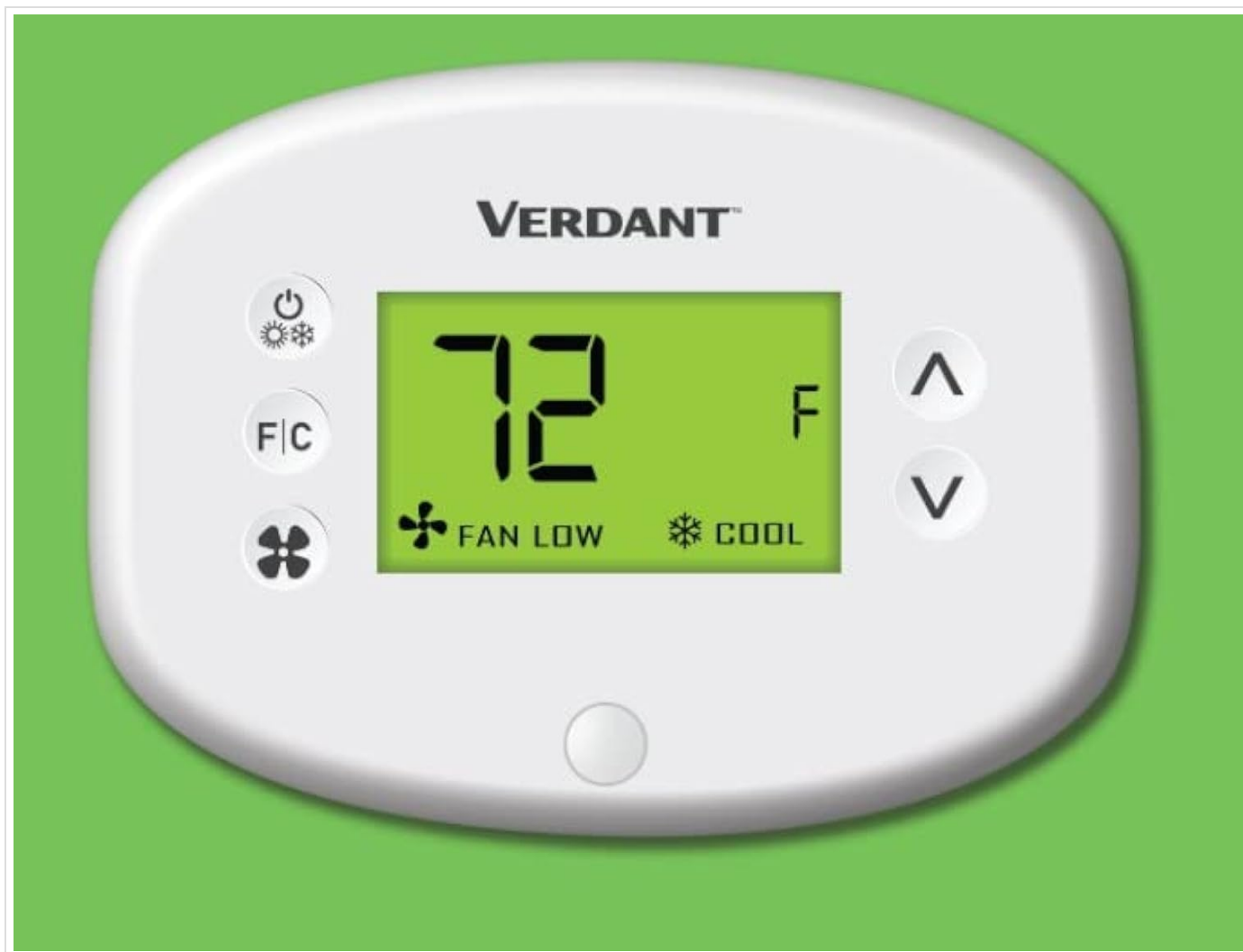
Figure 1: Front view of the Verdant VX Series Wired Energy Management Thermostat, displaying temperature and mode settings.

KEY FEATURES

- High-Quality Hotel thermostat can control PTAC, VTAC, Hot Water Heat pump units.
- 10 Minute Install Time.
- Compatible with VX-TW-RM, VX-TW-SA, VX-TW-KT, VX-TW-XMF systems.
- Reduces heating & cooling costs by up to 40%.
- Control type: Button Control.
- Item shape: Round.
- Mounting type: Wall Mount.
- Built-in Occupancy Sensor for intelligent energy management.
- LCD Display for clear temperature and setting visibility.

Verdant VX Series thermostat

Our field-proven Verdant VX thermostat is robust, reliable, and offers unparalleled value for property owners. Trusted by thousands of hotels throughout North America, Verdant VX comes with all the great features that made Verdant a preeminent leader in guestroom energy management technology.

Figure 2: Visual representation of the VX Thermostat's features, highlighting its user-friendliness and energy-saving capabilities.

SPECIFICATIONS

Attribute	Detail
Brand	Verdant
Model Name	VX Series Wired
Controller Type	Push Button
Special Feature	Motion Detector (Occupancy Sensor)
Color	White
Specific Uses For Product	Heat Pump, PTAC, VTAC, Hot Water Heat Pump Units
Temperature Control Type	Heating, Cooling
Connectivity Technology	Wired
Included Components	Mounting Plate (Thermostat Base), Faceplate, Mounting Hardware
Voltage	230 Volts
Material	Plastic
Shape	Round
Display Type	LCD
Control Method	Button Control, App, Touch (Note: App/Touch control may require additional accessories/setup not detailed here)
Mounting Type	Wall Mount
Backlight	Yes
Product Dimensions	1 x 5.5 x 2 inches
Item Weight	8.1 ounces

Country of Origin	Canada

SETUP AND INSTALLATION

The Verdant VX thermostat is designed for quick and easy installation, typically within 10 minutes per room by an on-site facilities team. It is a wall-mount unit and comes with the necessary mounting plate, faceplate, and hardware.

Installation Steps:

1. **Preparation:** Ensure power to the HVAC unit is turned off at the circuit breaker before beginning installation.
2. **Mounting Plate:** Secure the mounting plate (thermostat base) to the wall using the provided mounting hardware. Ensure it is level and securely fastened.
3. **Wiring:** Connect the thermostat wires according to the wiring diagram provided with your specific HVAC system and the thermostat's instructions. This is a wired connectivity device.
4. **Faceplate Attachment:** Once wiring is complete and secure, attach the faceplate to the mounting plate, ensuring it snaps firmly into place.
5. **Power On:** Restore power to the HVAC unit. The thermostat display should illuminate.

Note: For detailed wiring diagrams and specific installation requirements, please refer to the full installation guide included with your product packaging or consult a qualified HVAC technician.

OPERATING INSTRUCTIONS

The Verdant VX thermostat features an intuitive LCD display and button controls for easy operation. The built-in occupancy sensor helps manage energy consumption efficiently.

Basic Operation:

- **Power On/Off:** Press the **Power button** (usually indicated by a circle with a vertical line) to turn the thermostat on or off. When off, the display will show "OFF".

- **Adjusting Temperature:** Use the **Up (^) and Down (v) arrow buttons** to increase or decrease the desired temperature setting. The display will show "SET" indicating the target temperature.

- **Changing Temperature Units (Fahrenheit/Celsius):** Press the **F/C button** to toggle between Fahrenheit (°F) and Celsius (°C) temperature displays.

- **Selecting Mode (Heat/Cool):** The thermostat automatically adjusts between heating and cooling based on the set temperature and ambient room temperature, leveraging its occupancy sensor. If the room temperature is higher than the set temperature, it will cool. If lower, it will heat. The display will indicate "HEAT" or "COOL" accordingly.

- **Adjusting Fan Speed:** Press the **Fan button** (indicated by a fan icon) to cycle through available fan speeds, typically "LOW" and "HIGH". This controls how quickly the desired temperature is reached.

Figure 3: Detailed view of the thermostat's interface, showing the power, F/C, fan, and temperature adjustment buttons.

The integrated motion detector (occupancy sensor) automatically adjusts settings to save energy when a room is unoccupied, and returns to comfort settings when occupancy is detected. This feature significantly reduces heating and cooling costs.

MAINTENANCE

To ensure optimal performance and longevity of your Verdant VX thermostat, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the thermostat's surface with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the display or casing.
- **Battery Replacement:** The thermostat requires AA batteries (not included) for operation. If the display dims or the thermostat becomes unresponsive, it may be time to replace the batteries. To access the battery compartment, locate the small groove at the bottom of the unit and gently pull the faceplate forward. Ensure correct polarity when inserting new batteries.
- **Sensor Clearance:** Ensure the occupancy sensor (small button at the bottom of the display) is not obstructed by furniture, curtains, or other objects, as this can affect its ability to detect occupancy accurately.
- **Regular Checks:** Periodically check the thermostat for any loose connections or signs of damage. If any issues are observed, contact technical support.

TROUBLESHOOTING

If you encounter issues with your Verdant VX thermostat, try the following troubleshooting steps:

- **No Display/Unresponsive:**
  - Check if the thermostat is powered on. Press the Power button.
  - Verify that the batteries are correctly installed and have sufficient charge. Replace if necessary.
  - Ensure the main power to the HVAC unit is on at the circuit breaker.

- **Incorrect Temperature Reading:**

    - Ensure the F/C button is set to your preferred unit (Fahrenheit or Celsius).
    - Check for drafts or direct sunlight hitting the thermostat, which can affect readings.

- **Heating/Cooling Not Activating:**

    - Confirm the set temperature is appropriately higher (for heat) or lower (for cool) than the current room temperature.
    - Check if the occupancy sensor is obstructed.
    - Ensure the HVAC system itself is functioning correctly.

- **Fan Not Operating:**

    - Press the Fan button to cycle through fan speeds (LOW/HIGH).
    - Ensure the thermostat is not in "OFF" mode.

If these steps do not resolve the issue, please contact Verdant technical support for further assistance.
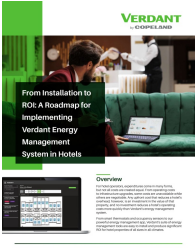
WARRANTY AND SUPPORT

Verdant stands by the quality and reliability of its products. The Verdant VX thermostat comes with free lifetime technical support, ensuring assistance is always available for property owners.
For technical assistance, troubleshooting, or any product-related inquiries, please contact Verdant customer service.
Refer to your product packaging or the official Verdant website for the most current contact information.

VX Features

EASY TO USE

The VX thermostat has a large backlit screen and intuitive menu that's easy to use for guests and engineers alike.

SELF-INSTALLS

Installing each thermostat is easily done by your maintenance team in 10 minutes or less per room.

PUT IT ANYWHERE

With wired and wireless versions available, you can place your thermostats anywhere in a room.

UNIVERSALLY COMPATIBLE

Works seamlessly with any HVAC system that allows for thermostat controls.

PATENTED TECHNOLOGY

Features like 'night occupancy mode' ensure you save energy without compromising guest comfort.

ACCESSORIES AVAILABLE

Additional sensors for patio doors & multi-bedroom suites are available to accomodate any room configuration.

Figure 4: Overview of the Verdant Energy Management System's advantages, emphasizing its efficiency and ease of integration.

Related Documents - VX-TW-KT-W

EMRT(A/B)4 Wired Series User Guide — Wired Energy Management Thermostat with Built-in Occupancy Sensor	[EMRT(A/B)4 Wired Energy Management Thermostat User Guide with Occupancy Sensor](#) User guide for the EMRT(A/B)4 Wired Series Energy Management Thermostat. Learn about installation, configuration, energy-saving features, and integrated occupancy sensor technology for optimal comfort and efficiency.
VERDANT — From Installation to ROI: A Roadmap for Implementing Verdant Energy Management System in Hotels	[Verdant Energy Management System: From Installation to ROI for Hotels](#) A comprehensive guide detailing the implementation, benefits, and return on investment (ROI) of the Verdant Energy Management System for hotels, focusing on smart thermostats and energy savings.
verdant — VX-TW VX Series Wireless Thermostat with an Occupancy Sensor — INSTALLATION MANUAL	[Verdant VX-TW Wireless Thermostat Installation Manual](#) Comprehensive installation guide for the Verdant VX-TW Wireless Thermostat with Occupancy Sensor, detailing setup, configuration, and operation for hospitality energy management.
verdant — VXDB-TW-KT-W VX Series Wireless Thermostat with an Occupancy Sensor — INSTALLATION MANUAL	[Verdant VXDB-TW-KT-W VX Series Wireless Thermostat Installation Manual](#) Comprehensive installation manual for the Verdant VXDB-TW-KT-W VX Series Wireless Thermostat with Occupancy Sensor. Covers network setup, thermostat configuration, accessory management, and troubleshooting for efficient HVAC energy savings.
verdant — VX-TW-KT-W VX Series Wireless Thermostat with an Occupancy Sensor — INSTALLATION MANUAL	[Verdant VX Series Wireless Thermostat Installation Manual](#) Installation manual for the Verdant VX Series Wireless Thermostat with Occupancy Sensor, detailing setup, configuration, and operation for optimal energy management in hospitality environments.
VX4 Wired Series User Guide — Wired Energy Management Thermostat with Built-in Occupancy Sensor — VERDANT	[Verdant VX4 Wired Series User Guide: Energy Management Thermostat](#) Comprehensive user guide for the Verdant VX4 Wired Series Energy Management Thermostat, detailing installation, configuration, features, and troubleshooting for enhanced energy savings and comfort.