

## Zurn ZER6000AV-HET-TM

# Zurn AquaSense ZER6000AV-HET-TM EZ Gear-Driven 1.28 GPF Exposed Sensor Water Closet Flush Valve

Instruction Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Zurn AquaSense ZER6000AV-HET-TM EZ Gear-Driven 1.28 GPF Exposed Sensor Water Closet Flush Valve. This high-efficiency flush valve is designed for commercial restroom applications, offering reliable, hands-free operation and water conservation.

The ZER-TM Series features a ceramic disc cartridge and motor gear-driven operation for durability and precision. Its 1.28 GPF (Gallons Per Flush) rate contributes to water savings, while the polished chrome-plated finish and quiet diaphragm operation make it suitable for various commercial environments.



Figure 1: Zurn AquaSense ZER6000AV-HET-TM Flush Valve

## 2. SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or improper product function.

- Ensure water supply is turned off before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, during installation.
- All plumbing work should comply with local codes and regulations.
- Do not use abrasive cleaners or tools that may damage the chrome finish or internal components.
- Keep batteries out of reach of children. Dispose of batteries according to local regulations.

### 3. WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- Zurn AquaSense ZER6000AV-HET-TM Flush Valve Assembly
- 4 AA Batteries (included)
- Installation Hardware (e.g., vacuum breaker, tailpiece, spud coupling)
- User Manual (this document)

### 4. PRODUCT OVERVIEW

Familiarize yourself with the various views of the Zurn AquaSense ZER6000AV-HET-TM flush valve.



Figure 2: Front View



Figure 3: Back View

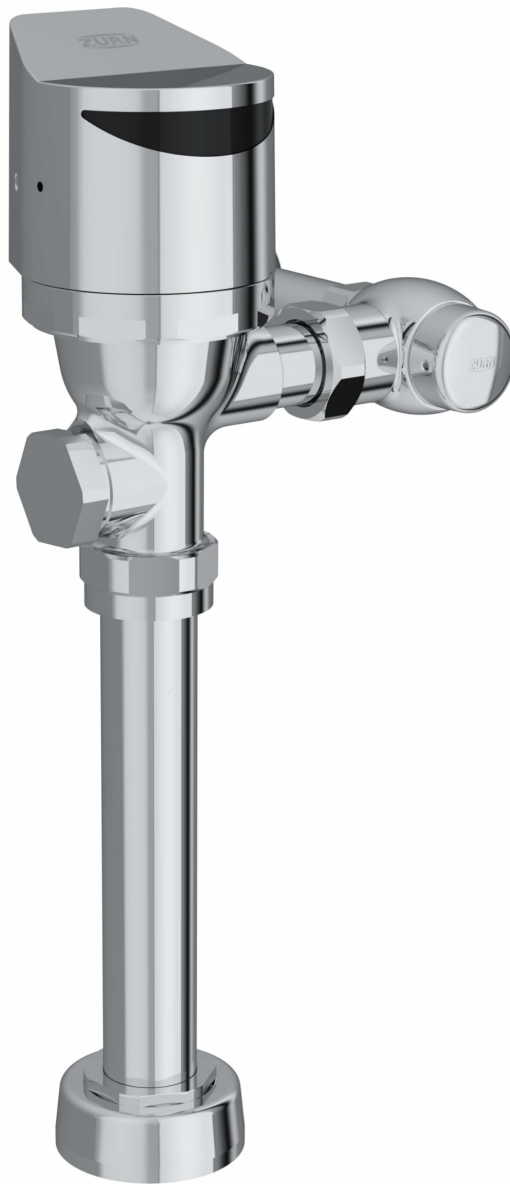


Figure 4: Side View (Sensor)



Figure 5: Side View

## 5. INSTALLATION INSTRUCTIONS

Professional installation is recommended. Ensure all necessary tools and materials are available before starting.

### 5.1 Pre-Installation Checks

- Confirm the water supply line is compatible with the flush valve's inlet connection type (Solvent Weld).
- Ensure the water closet (toilet) spud is compatible with the flush valve's outlet connection size (3 Inches).
- Verify that the rough-in dimensions match the requirements for the ZER6000AV-HET-TM model.

### 5.2 Step-by-Step Installation

1. **Turn off Water Supply:** Locate the main water shut-off valve for the restroom or building and turn it off. Flush

the toilet to relieve pressure.

2. **Remove Existing Flush Valve (if applicable):** Carefully disconnect and remove the old flush valve assembly.
3. **Prepare Inlet and Outlet:** Clean and prepare the water supply pipe and the toilet spud for connection.
4. **Assemble Flush Valve Components:** Attach the tailpiece, vacuum breaker, and spud coupling to the main flush valve body as per the diagram provided with the product packaging.
5. **Connect to Water Supply:** Securely connect the flush valve inlet to the water supply pipe.
6. **Connect to Toilet Spud:** Attach the spud coupling to the toilet spud, ensuring a watertight seal.
7. **Install Batteries:** Open the battery compartment (typically located on the top cover) and insert the 4 AA batteries, observing correct polarity. Close the compartment securely.
8. **Turn on Water Supply:** Slowly open the main water shut-off valve. Check for leaks at all connections.
9. **Test Operation:** Allow the sensor to detect presence and initiate a flush. Adjust the sensor range if necessary (refer to the operating instructions).



Figure 6: Flush Valve Installed in a Restroom Setting



Figure 7: Close-up of Installed Flush Valve

## 6. OPERATING INSTRUCTIONS

The Zurn AquaSense ZER6000AV-HET-TM flush valve operates automatically using an infrared (IR) sensor.

### 6.1 Sensor Operation

- The advanced IR sensor detects presence both forward and downward.
- After a user departs the sensor's detection zone, the valve will initiate a precisely timed 1.28 GPF flush.
- The sensor is designed to prevent false flushes and ensure optimal water usage.

### 6.2 Manual Override

In case of power failure or for manual flushing, a manual override button is typically located on the flush valve cover. Press this button firmly to initiate a flush.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Zurn flush valve.

### 7.1 Cleaning

- Clean the exterior of the flush valve with a soft cloth and mild, non-abrasive cleaner.



- Do not use harsh chemicals, abrasive pads, or polishes as they can damage the polished chrome finish.
- Periodically wipe the sensor lens with a soft, damp cloth to ensure clear detection.

### 7.2 Battery Replacement

The flush valve is powered by 4 AA batteries, which typically last for 3 years under normal usage. A low battery indicator (if present) will signal when replacement is needed.

1. **Turn off Water Supply:** Turn off the water supply to the flush valve.
2. **Access Battery Compartment:** Locate and open the battery compartment cover, usually on the top or front of the sensor housing.
3. **Replace Batteries:** Remove old batteries and insert new 4 AA alkaline batteries, ensuring correct polarity (+/-).
4. **Secure Compartment:** Close the battery compartment cover securely.
5. **Restore Water Supply:** Turn the water supply back on and test the flush valve operation.

## 8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
No flush when sensor is activated	Dead batteries; Water supply off; Sensor obstruction; Internal valve issue	Replace batteries; Check water supply valve; Clean sensor lens; Contact Zurn support
Continuous flushing	Sensor malfunction; Debris in valve; Diaphragm issue	Clean sensor; Inspect and clean valve components; Replace diaphragm; Contact Zurn support
Weak flush	Low water pressure; Partially closed stop valve; Clogged diaphragm filter	Check building water pressure; Ensure stop valve is fully open; Clean or replace diaphragm filter
Leaks from connections	Loose connections; Damaged gaskets/seals	Tighten connections; Replace gaskets/seals

## 9. SPECIFICATIONS

Key technical specifications for the Zurn AquaSense ZER6000AV-HET-TM flush valve:

Feature	Specification
Model Number	ZER6000AV-HET-TM
Flush Volume	1.28 GPF (Gallons Per Flush)
Operation	EZ Gear-Driven, Sensor Activated

Feature	Specification
Material	Heavy-duty Brass Body
Finish	Polished Chrome
Inlet Connection Type	Solvent Weld
Outlet Connection Type	NPT
Outlet Connection Size	3 Inches
Power Source	4 AA Batteries (included)
Battery Life	Approximately 3 years
Durability	Ceramic gear-driven operation withstands over 500,000 cycles
Environmental Rating	IP65 rated construction
Certifications	ADA Compliant
Product Dimensions	8.13 x 9.75 x 16.75 inches
Item Weight	10.9 Pounds

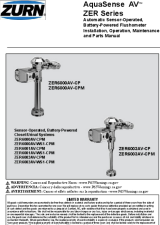




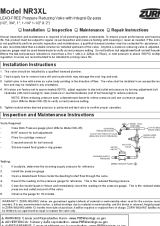
## 10. WARRANTY AND SUPPORT

The Zurn AquaSense ZER6000AV-HET-TM Flush Valve comes with a **3-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical assistance, or to purchase replacement parts, please contact Zurn Industries customer support:

- **Website:** [www.zurn.com](http://www.zurn.com)
- **Customer Service:** Refer to the Zurn website for current contact information (phone numbers, email).

Please have your model number (ZER6000AV-HET-TM) and date of purchase available when contacting support.

	<p><a href="#">ZURN AquaSense AV ZER Series Automatic Sensor-Operated Flushometer Manual</a></p> <p>Installation, operation, maintenance, and parts manual for the ZURN AquaSense AV ZER Series automatic sensor-operated, battery-powered flushometer. Includes troubleshooting, repair kits, and technical specifications.</p>
	<p><a href="#">Zurn AquaSense ZER-SM Series Automatic Battery-Powered Flush Valve Manual</a></p> <p>Comprehensive manual for Zurn AquaSense ZER-SM series automatic battery-powered flush valves, covering installation, operation, maintenance, troubleshooting, and parts breakdown for models like ZER6000-SM, ZER6200-SM, ZER6003-SM, and ZER6203-SM.</p>
	<p><a href="#">Zurn Wilkins ZW209FP Pressure Reducing Valve Assembly: Installation, Operation, and Maintenance</a></p> <p>Comprehensive guide to the Zurn Wilkins ZW209FP fire protection pressure reducing valve assembly, covering installation, start-up, operation, flow characteristics, and maintenance procedures. Includes detailed instructions for main valve and PV-PRD pilot valve.</p>
	<p><a href="#">Zurn NR3XL Water Pressure Reducing Valve with Integral By-Pass Check Valve and Strainer</a></p> <p>Detailed specifications and installation guide for the Zurn NR3XL, a water pressure reducing valve designed for potable water lines. Features include an integral strainer, by-pass check valve, and low lead cast bronze body. Suitable for residential and commercial applications.</p>
	<p><a href="#">ZURN AquaSense® ZG6913 &amp; ZG6915 Series Sensor-Operated Faucets: Installation, Operation, Maintenance, and Parts Manual</a></p> <p>Comprehensive guide for ZURN AquaSense® ZG6913 and ZG6915 sensor-operated faucets, covering installation, operation, maintenance, troubleshooting, and parts. Features battery-powered, hardwired, and connected options.</p>
	<p><a href="#">Zurn NR3XL Lead-Free Pressure Reducing Valve: Installation, Maintenance, and Repair Guide</a></p> <p>Comprehensive guide for the Zurn NR3XL Lead-Free Pressure Reducing Valve, covering installation, inspection, maintenance, repair procedures, and troubleshooting. Includes product specifications and warranty information.</p>