TOTO TET1UB32

TOTO ECOPOWER Touchless Toilet Flushometer Valve TET1UB32 Instruction Manual

Model: TET1UB32

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the TOTO ECOPOWER Touchless 1.0 GPF High-Efficiency Toilet Flushometer Valve, model TET1UB32. This valve is designed for commercial applications, offering water conservation and touchless operation without the need for external power or routine battery replacement.

The ECOPOWER system utilizes hydro-turbines to generate and store electrical current from the force of running water, powering the sensor. This design ensures high efficiency and reliable performance in demanding environments. The valve is WaterSense® certified, CA Title 20, CalGreen, and ADA compliant.

2. Package Contents

Verify that all components are present before beginning installation:

- TOTO ECOPOWER Flushometer Valve (TET1UB32)
- 1 inch Angle Stop
- 12 inch Vacuum Breaker Set
- Spud Nut and Escutcheon (for connecting to toilet spud)
- Sweat Solder Kit

3. Specifications

Feature	Detail
Model Number	TET1UB32
Water Consumption	1.0 Gallons Per Flush (GPF)

Feature	Detail
Dimensions (L x W x H)	3.19 x 4.56 x 7 inches (81 x 116 x 178 mm)
Material	Bronze, Zinc
Exterior Finish	Polished Chrome
Inlet Connection Type	Solder
Outlet Connection Type	Sweat
Valve Type	Flush Valve
Power Source	ECOPOWER Hydroelectric Turbine (self-powered)
Compliance	WaterSense®, CA Title 20, CalGreen, ADA

Figure 3.1: Product Dimensions. The valve measures approximately 3.19 inches in length, 4.56 inches in width, and 7 inches in height.

4. Setup and Installation

This flushometer valve is designed for use with toilets that have a 1-1/2 inch top spud inlet and utilize 12 inch vacuum breaker tubes. Installation should be performed by a qualified plumber or technician in accordance with local plumbing codes.

4.1 Pre-Installation Checks

- Ensure the main water supply to the toilet is turned off.
- Verify that the toilet is compatible with a 1-1/2 inch top spud inlet and 12 inch vacuum breaker.
- Inspect all components for any damage before installation.

4.2 Installation Steps (General)

1. **Remove Existing Flushometer:** If replacing an old unit, carefully remove it, ensuring the water supply remains off.
2. **Install Angle Stop:** Connect the provided 1-inch angle stop to the water supply line.
3. **Assemble Vacuum Breaker:** Attach the 12-inch vacuum breaker set to the flushometer valve.
4. **Connect to Toilet Spud:** Use the spud nut and escutcheon to securely connect the flushometer valve to the toilet's top spud inlet.
5. **Connect Water Supply:** Connect the angle stop to the flushometer valve using the sweat solder kit as required.
6. **Check for Leaks:** Slowly turn on the main water supply and inspect all connections for leaks. Tighten as necessary.
7. **Test Operation:** Perform several test flushes to ensure proper function.

Figure 4.1: TOTO ECOPOWER Flushometer Valve installed on a toilet, side view.

Figure 4.2: TOTO ECOPOWER Flushometer Valve installed on a toilet, front view.

5. Operating Instructions

The TOTO ECOPOWER Flushometer Valve offers both touchless sensor activation and a manual override button.

5.1 Touchless Operation

The valve features an instant response sensor for hands-free, touchless operation. When a user is detected within the sensor's range and then leaves, the valve will automatically initiate a flush. The self-adjusting and time-delayed smart sensor is designed to prevent ghost flushing and ensure reliable activation.

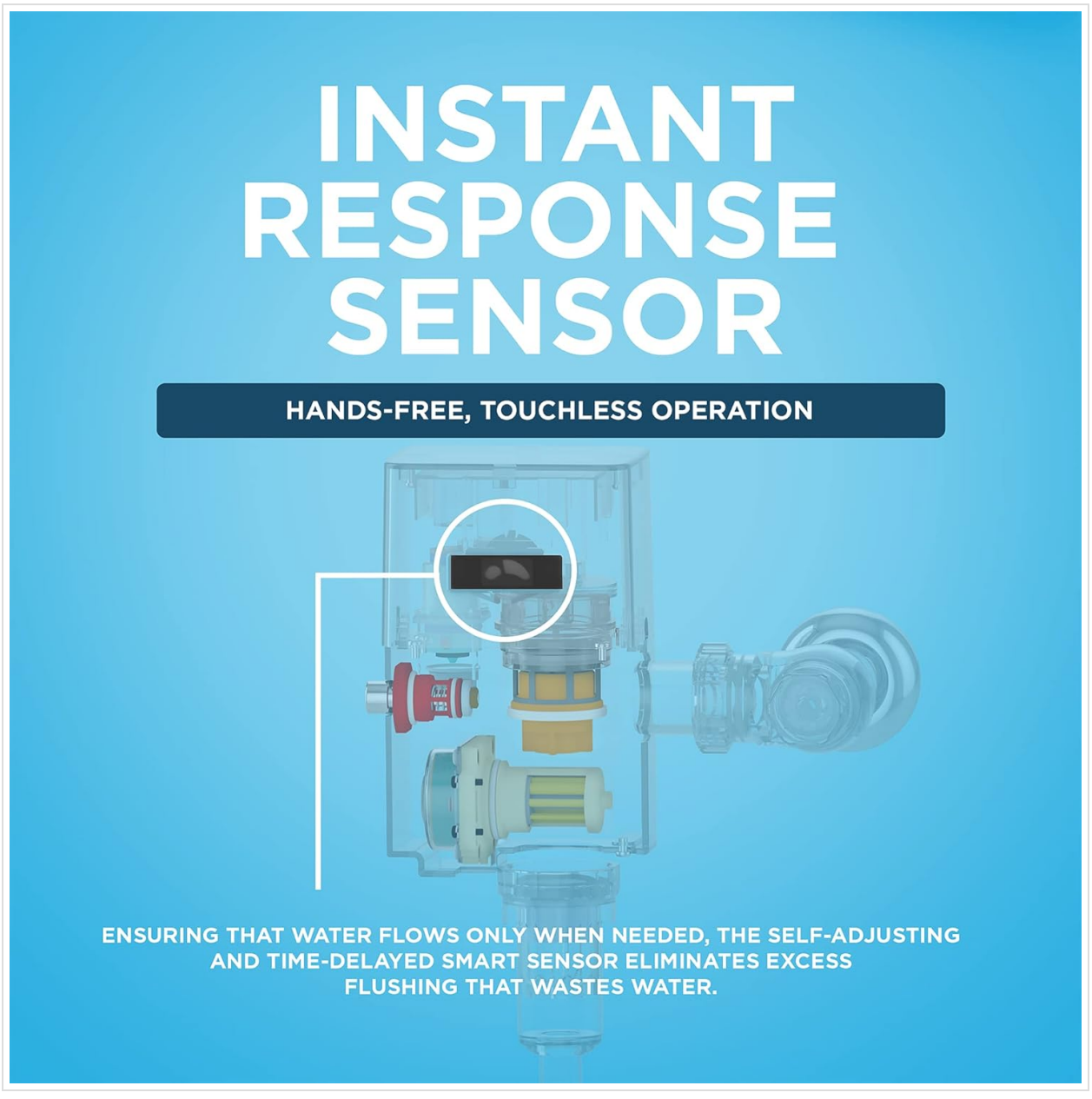

Figure 5.1: Instant Response Sensor. This component ensures hands-free, touchless operation by detecting user presence.

5.2 Manual Override

A mechanical manual override flush button is provided for situations where manual activation is preferred or necessary.

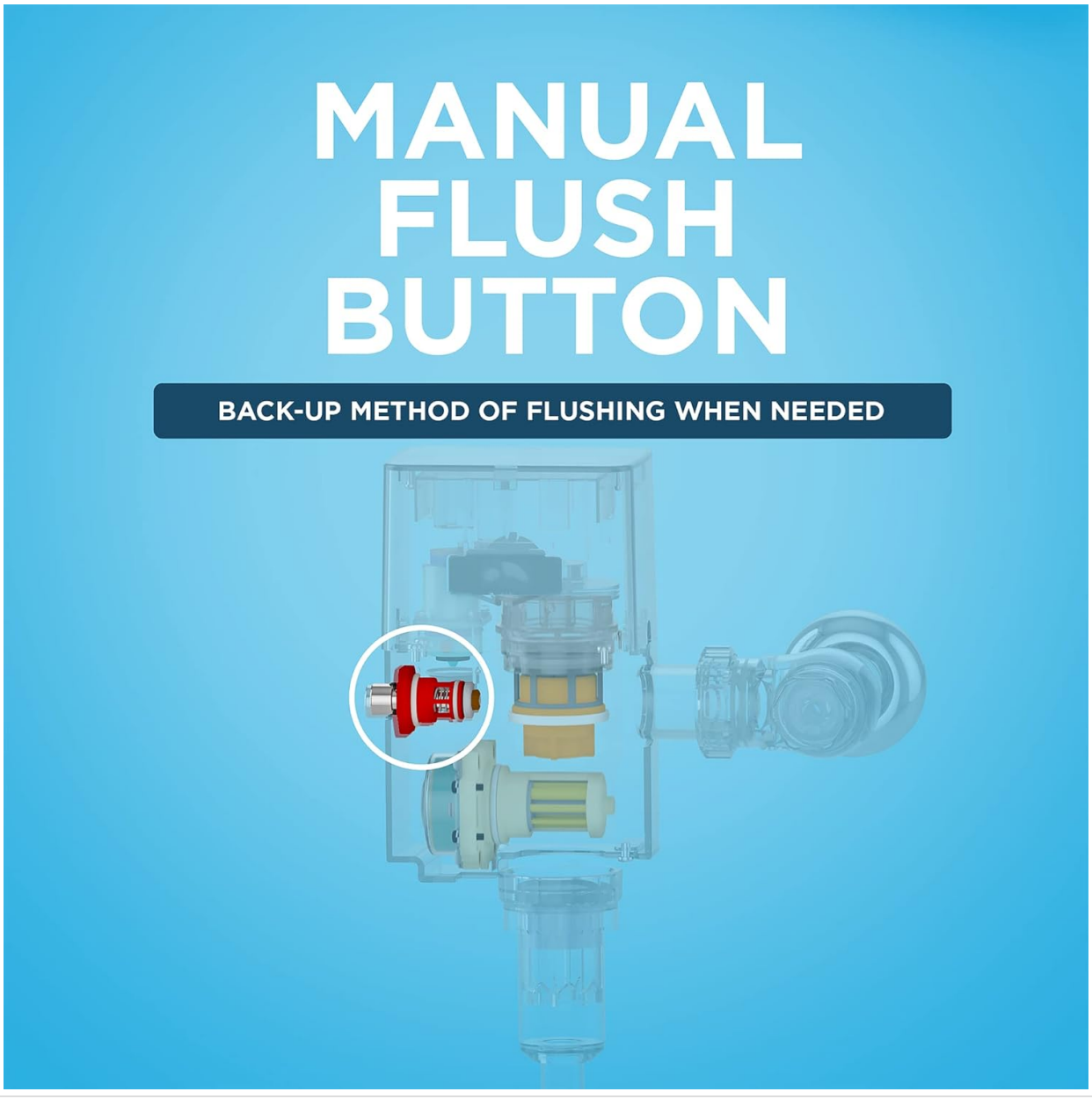

Figure 5.2: Manual Flush Button. This provides a backup method for flushing when needed.

5.3 ECOPOWER Technology

The ECOPOWER system harnesses the energy of running water to power the flush valve electronics. A hydroelectric turbine captures this energy, storing it in rechargeable cells to power the sensor. This eliminates the need for external electricity sources or routine battery replacements, making the unit self-sufficient and highly efficient.

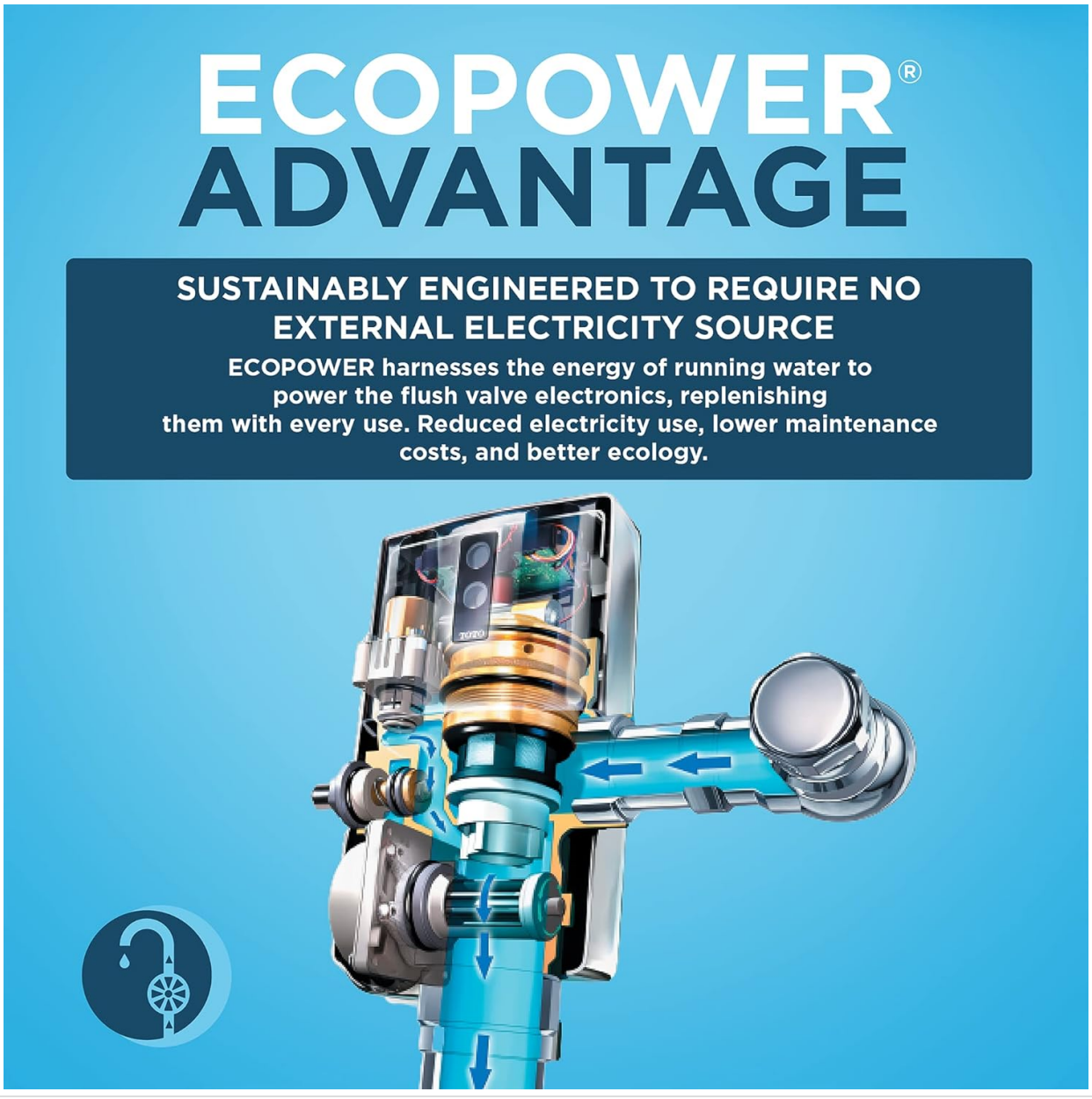

Figure 5.3: ECOPOWER Advantage. This diagram shows how the system is sustainably engineered to require no external electricity source, using running water to power the flush valve electronics.

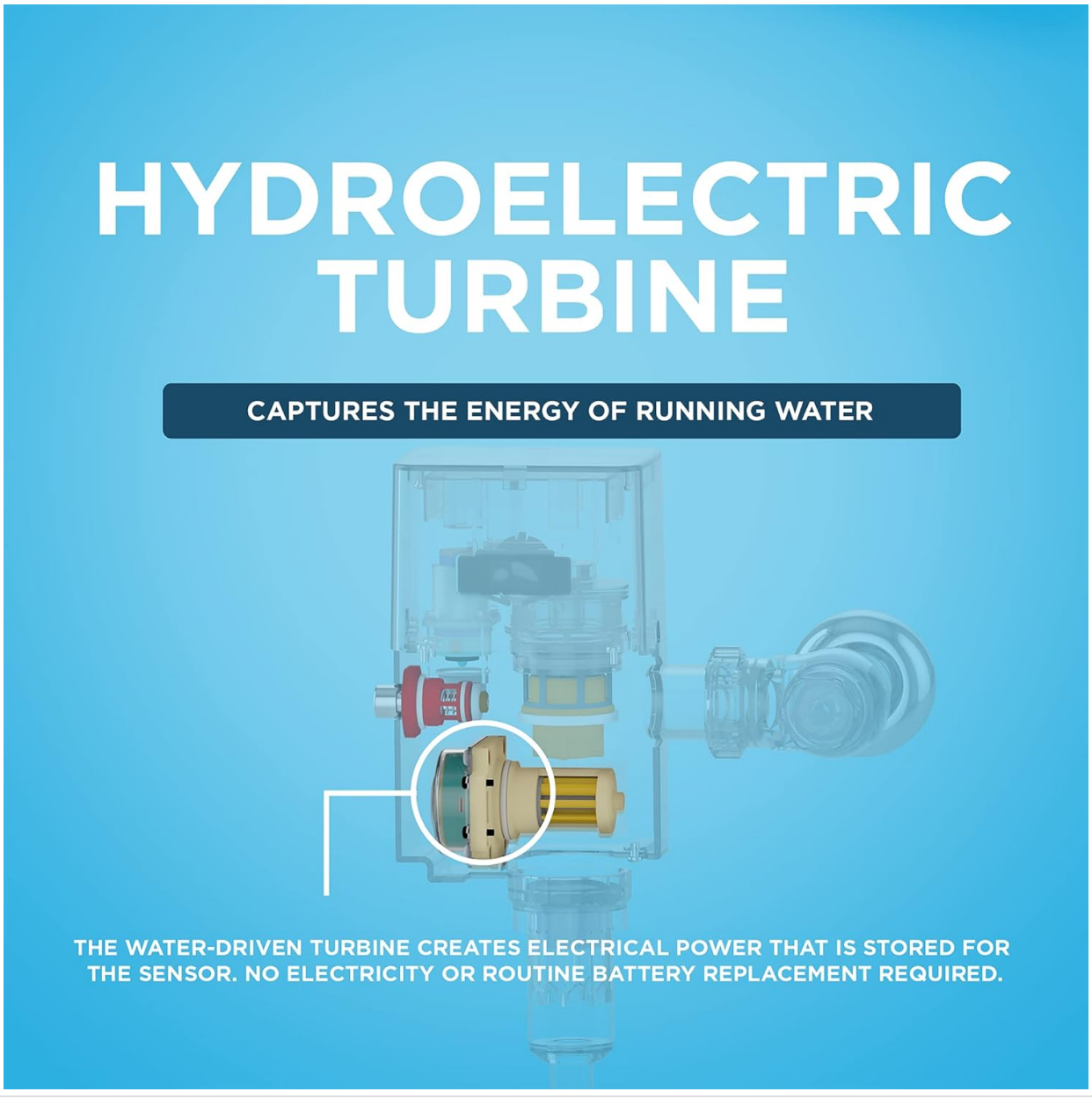

Figure 5.4: Hydroelectric Turbine. This component captures the energy of running water to create electrical power, stored for the sensor.

6. Maintenance

The TOTO ECOPOWER Flushometer Valve is designed for low maintenance due to its self-powered system and robust internal components.

6.1 Cleaning

Clean the exterior of the flushometer valve with a soft cloth and mild, non-abrasive cleaner. Avoid harsh chemicals or abrasive pads, as these can damage the polished chrome finish.

6.2 Internal Components

The valve features a piston and solenoid mechanism, which maintains consistent flush volume across various supply pressures. It also includes a 360° debris screen piston to prevent clogs and ensure smooth operation. Regular internal cleaning is generally not required, but if performance issues arise, consult a qualified technician.

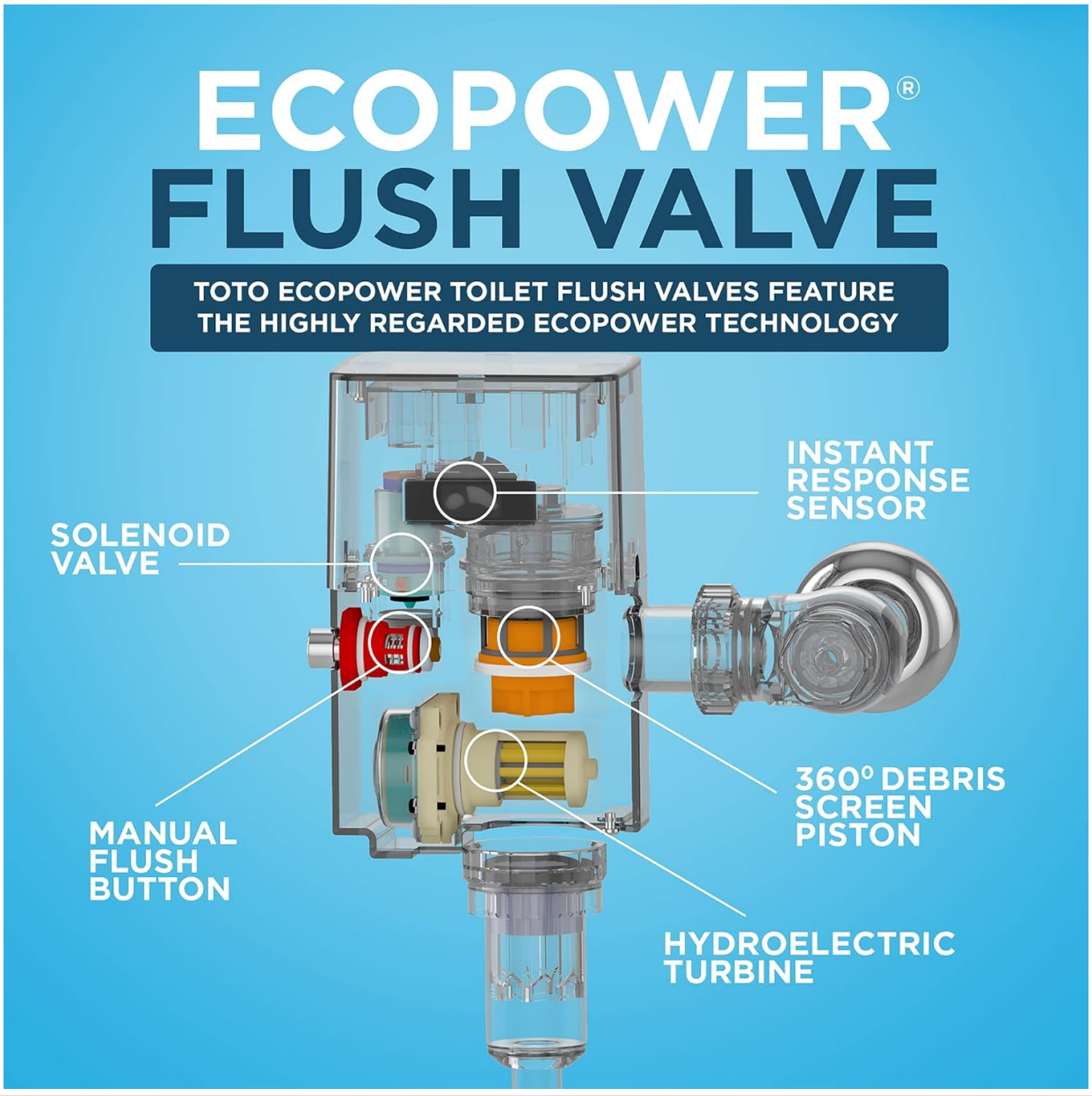

Figure 6.1: ECOPOWER Flush Valve Internal Components. This diagram shows the Solenoid Valve, Instant Response Sensor, 360° Debris Screen Piston, Hydroelectric Turbine, and Manual Flush Button.

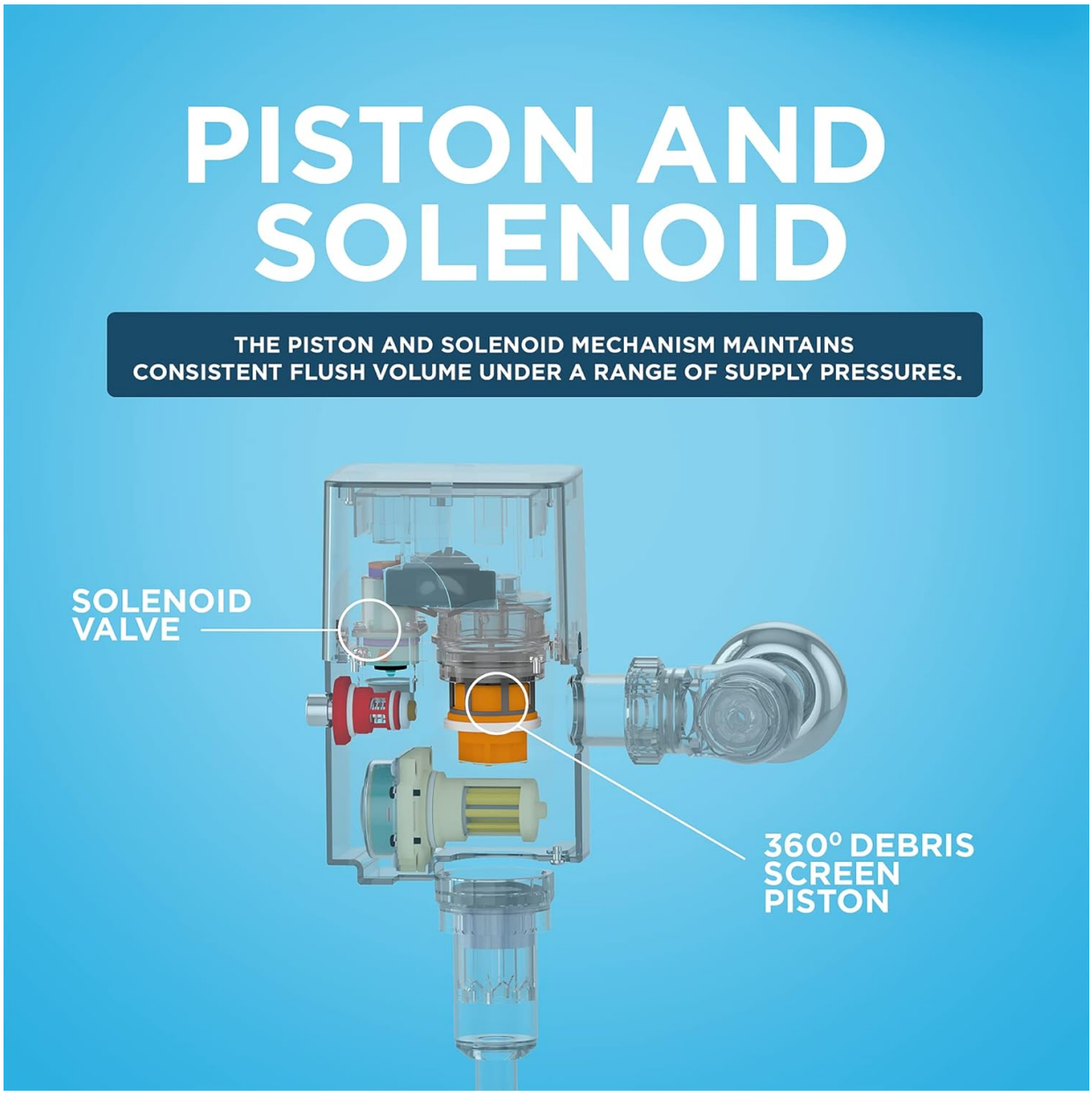

Figure 6.2: Piston and Solenoid. This mechanism ensures consistent flush volume under a range of supply pressures and includes a 360° debris screen piston.

7. Troubleshooting

If you experience issues with your TOTO ECOPOWER Flushometer Valve, refer to the following common problems and solutions. For complex issues, contact TOTO customer support or a qualified technician.

Problem	Possible Cause	Solution
No flush when sensor is activated	Sensor obstructed or dirty; insufficient water pressure; internal valve issue.	Clean sensor window. Check water supply valve is fully open. If problem persists, contact support.
Continuous flushing or ghost flushing	Sensor malfunction; debris in valve; water pressure fluctuations.	Ensure no objects are continuously in sensor range. Check for debris in the valve (requires professional service).

Problem	Possible Cause	Solution
Weak or incomplete flush	Low water pressure; debris in valve; worn internal components.	Verify adequate water pressure. Inspect for debris in the 360° debris screen piston (professional service recommended).
Manual flush button not working	Mechanical issue with button or linkage.	Contact customer support for assistance.

8. Warranty Information

The TOTO ECOPOWER Touchless Toilet Flushometer Valve (TET1UB32) is covered by a**Manufacturer Three Year Limited Warranty**. Please retain your proof of purchase for warranty claims. For full details regarding warranty terms and conditions, please refer to the official TOTO warranty documentation or contact TOTO customer support.

9. Customer Support

For technical assistance, replacement parts, or warranty inquiries, please contact TOTO customer support through their official website or the contact information provided with your product packaging. When contacting support, please have your model number (TET1UB32) and proof of purchase readily available.