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Zuomeng HY-112

Zuomeng 240V Steam Generator Auto Drain Valve Kit with Drip Pan

Model: HY-112

Brand: Zuomeng

Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Zuomeng 240V Steam Generator Auto Drain Valve Kit with Drip Pan. This system is designed to automatically purge your steam generator of mineral buildup and provide leak protection, ensuring efficient and long-lasting performance. Please read this manual thoroughly before installation and retain it for future reference.



Image: The Zuomeng 240V Steam Generator Auto Drain Valve Kit, showing the automatic drain valve and the metal drip pan.

Product Features

- **Automatic Drainage:** After each steam session, the auto drain system activates once the generator cools, flushing out hot water and mineral deposits. This prevents buildup and helps maintain generator performance.
- **Fast-Acting Electric Valve:** Equipped with a precision electric drain valve, the system ensures quick and efficient

water release. The standard port design facilitates steady flow and supports automated operation.

- **Leak Protection Drip Pan:** A sturdy metal drip pan is included to catch and redirect any condensation, small leaks, or splashes, protecting surrounding floors, walls, and electrical components from water damage.
- **Durable Construction:** The system features a solid brass valve and a robust metal pan, designed to withstand the heat and moisture of a steam environment for extended durability.
- **Wide Compatibility:** Designed for 240V residential steam generators, specifically compatible with Delta 5GE-SMP and 5P-EST series generators, and AD-240 and AD-280 auto drain valve models.
- **Low Maintenance:** Once installed, the system operates automatically, significantly reducing the need for manual draining and routine checks.

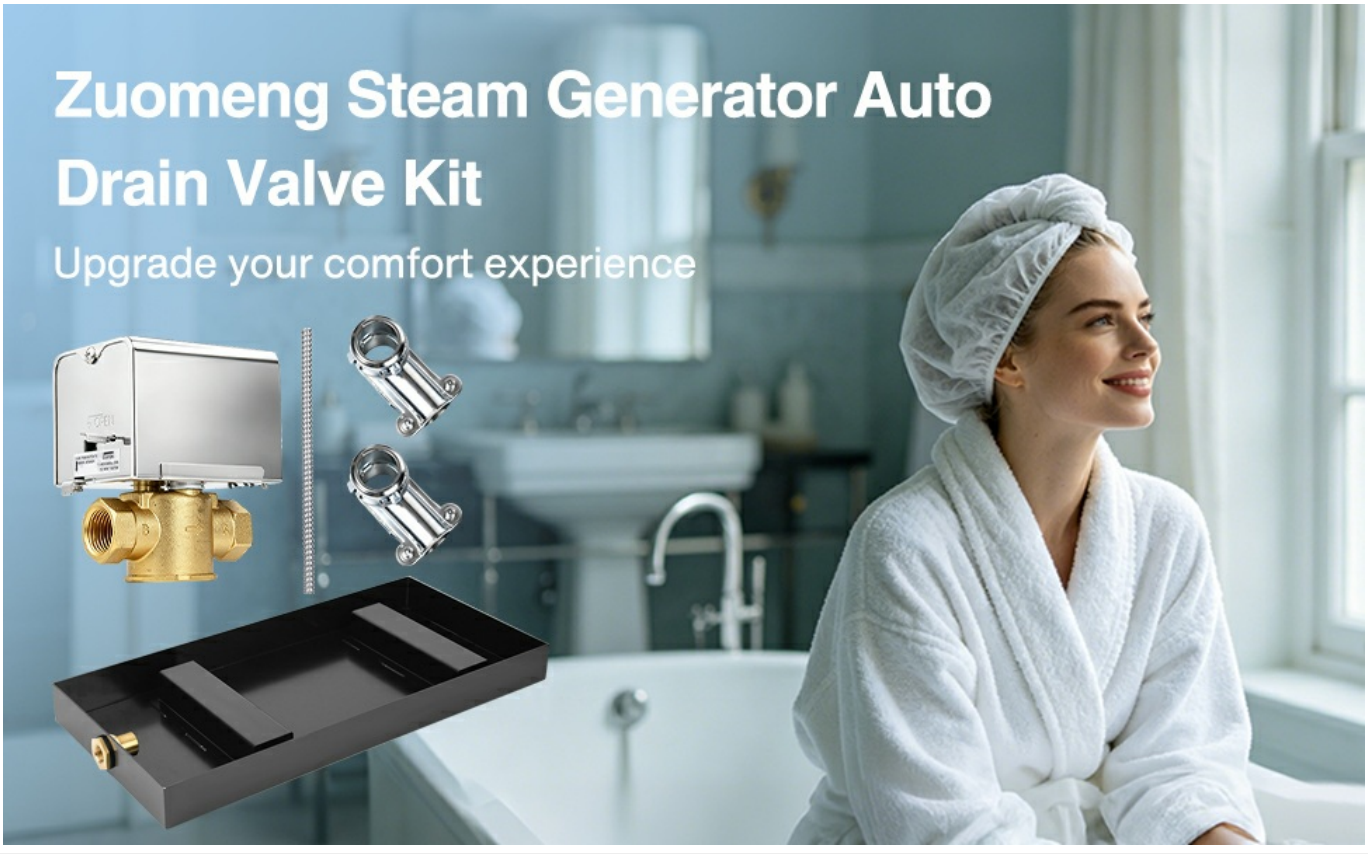


Image: Illustration highlighting the automatic drain function, corrosion resistance, leak protection, fast response valve, and low maintenance benefits.

Components Included

The Zuomeng 240V Steam Generator Auto Drain Valve Kit includes the following main components:

- Automatic Electric Drain Valve (240V)
- Metal Drip Pan
- Mounting Hardware (e.g., clamps, screws)

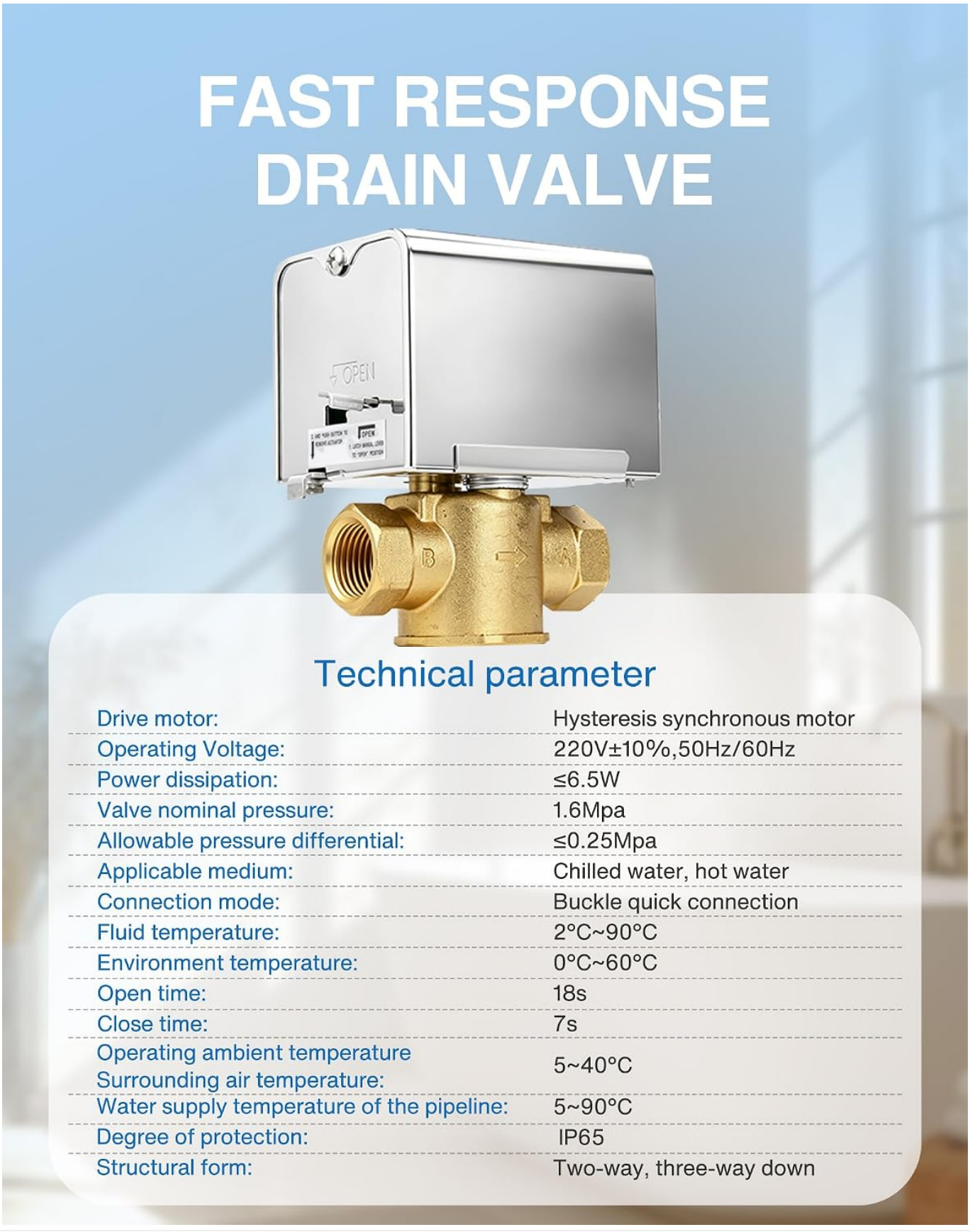


Image: A detailed view of the automatic electric drain valve, metal drip pan, and associated connection components.

Installation (Setup)

Professional installation by a qualified plumber or electrician is recommended. Ensure all power to the steam generator is disconnected before beginning installation.

Safety Precautions:

- Turn off all electrical power to the steam generator at the circuit breaker.
- Shut off the water supply to the steam generator.
- Allow the steam generator to cool completely before handling.
- Wear appropriate personal protective equipment (PPE).

Installation Steps:

1. **Prepare the Steam Generator:** Ensure the steam generator is completely drained and cooled. Locate the existing drain connection point on your steam generator.
2. **Install the Auto Drain Valve:** Connect the automatic electric drain valve to the designated drain outlet of your steam generator. Ensure all connections are secure and watertight. Use appropriate plumbing sealant or tape as required. The valve typically connects with 1/2" NPT fittings.
3. **Electrical Connection:** Connect the 240V electrical wiring from the auto drain valve to the appropriate power source on your steam generator, following the generator's wiring diagram and local electrical codes. This system requires a 240V connection.
4. **Position the Drip Pan:** Place the metal drip pan directly underneath the steam generator. Ensure it is level and positioned to catch any potential leaks from the generator or the auto drain valve. The drip pan has a drain outlet (typically 1/2" NPT) that should be connected to a suitable drain line to safely direct water away.
5. **Connect Drip Pan Drain:** Attach a drain line to the drip pan's outlet and route it to an appropriate waste drain, ensuring a continuous downward slope for proper drainage.
6. **Test Connections:** Once all plumbing and electrical connections are made, slowly restore the water supply to the steam generator and check for any leaks. Then, restore electrical power.
7. **Initial Operation Check:** Follow the operating instructions to ensure the auto drain valve functions correctly after a steam cycle.



Image: The metal drip pan designed to collect and direct water away, protecting the surrounding area from water damage.

Operating Instructions

The Zuomeng Auto Drain Valve Kit is designed for automatic operation, requiring minimal user intervention once properly installed.

1. **Normal Steam Generator Operation:** Use your steam generator as you normally would for your steam shower sessions.
2. **Automatic Drain Cycle:** After the steam generator completes its cycle and begins to cool down, the auto drain valve will automatically activate. It will open to drain the remaining water from the generator, flushing out accumulated minerals and sediment.
3. **Valve Closure:** Once the draining process is complete, the valve will automatically close, and the system will be ready for the next use.

No manual draining is required with this system, ensuring your steam generator is regularly purged of mineral buildup to maintain efficiency and extend its lifespan.

Maintenance

The primary maintenance function of this kit is its automatic draining capability. While the system is designed for low maintenance, periodic checks are recommended:

- **Visual Inspection (Monthly):** Periodically inspect the drain valve and drip pan for any signs of leaks, corrosion, or blockages in the drain lines. Ensure the drip pan is clear of debris.
- **Functionality Check (Quarterly):** Observe the auto drain cycle after a steam session to confirm the valve opens, drains water, and closes properly. If the valve does not operate as expected, refer to the troubleshooting section.
- **Cleaning:** If mineral buildup is observed on the exterior of the valve or inside the drip pan, clean with a mild, non-abrasive cleaner. Ensure no cleaning agents enter the steam generator or drain lines.

Troubleshooting

If you encounter issues with your Zuomeng Auto Drain Valve Kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Valve does not open or close.	No power to the valve; electrical connection issue; valve motor malfunction; obstruction.	Check power supply and electrical connections. Ensure the steam generator is operating correctly. Inspect for obstructions. If issues persist, contact support.
Water leaking from valve connections.	Loose connections; improper sealant; damaged O-rings/gaskets.	Tighten connections. Reapply plumbing sealant/tape. Inspect and replace O-rings/gaskets if damaged.
Drip pan overflowing or not draining.	Drip pan drain line blocked; improper slope of drain line; excessive leakage.	Clear any blockages in the drip pan drain line. Ensure the drain line has a continuous downward slope. Investigate the source of excessive leakage (e.g., steam generator, valve).

Problem	Possible Cause	Solution
Steam generator still has mineral buildup.	Auto drain valve not functioning; severe water hardness.	Verify auto drain valve operation. Consider water softening solutions if water hardness is extreme.

Specifications

The following are the technical specifications for the Zuomeng HY-112 Auto Drain Valve Kit:



Image: Technical parameters table for the automatic drain valve, including electrical and operational specifications.

Parameter	Value
Manufacturer	Zuomeng
Part Number	HY-112
Item Model Number	HY-112
Item Weight	11.97 pounds
Product Dimensions	3.35 x 1 x 4.21 inches (Valve)
Color	Black
Drive Motor	Hysteresis synchronous motor

Parameter	Value
Operating Voltage	220V±10%, 50Hz/60Hz
Power Dissipation	≤6.5W
Valve Nominal Pressure	1.6Mpa
Allowable Pressure Differential	≤0.25Mpa
Applicable Medium	Chilled water, hot water
Connection Mode	Buckle quick connection
Fluid Temperature	2°C~90°C (35.6°F~194°F)
Environment Temperature	0°C~60°C (32°F~140°F)
Open Time	18s
Close Time	7s
Operating Ambient Temperature	5~40°C (41°F~104°F)
Water Supply Temperature of the Pipeline	5~90°C (41°F~194°F)
Degree of Protection	IP65
Structural Form	Two-way, three-way down

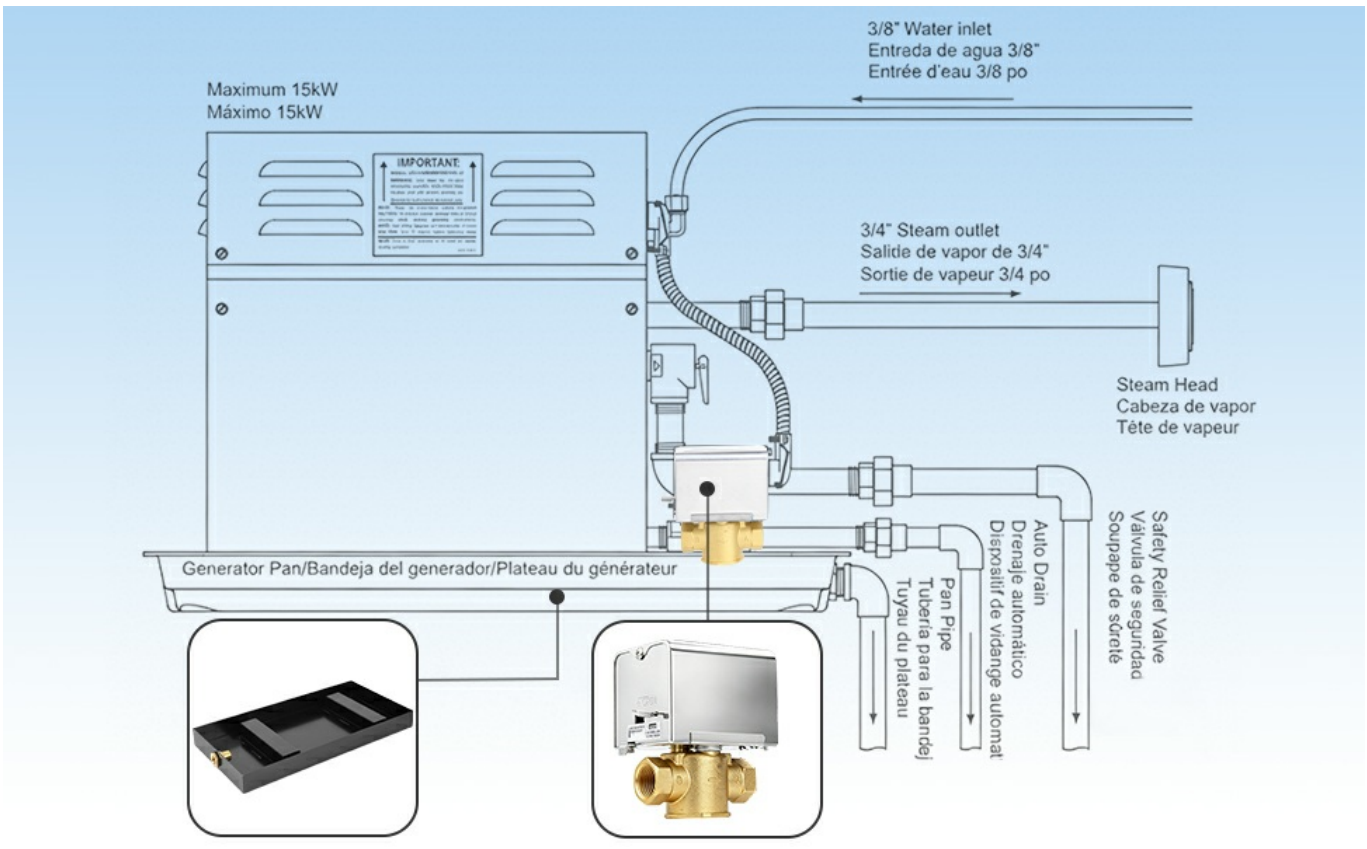


Image: Detailed dimensions of the automatic drain valve and the metal drip pan, including connection sizes.

Compatibility

This Zuomeng Auto Drain Valve Kit is specifically designed for compatibility with:

- Delta 5GE-SMP Series Steam Generators
- Delta 5P-EST Series Steam Generators
- Auto Drain Valve Models: AD-240, AD-280

It is intended for most 240V residential steam generators with standard connections.



Image: Visual representation of the kit's compatibility with various Delta steam generator models.

Warranty Information

The Zuomeng HY-112 Auto Drain Valve Kit comes with a**2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or service, please retain your proof of purchase.
Additionally, the product is eligible for a 30-day refund/replacement return policy through the retailer.

Support

For technical assistance, troubleshooting, or warranty inquiries regarding your Zuomeng Auto Drain Valve Kit, please contact the manufacturer or your point of purchase. When contacting support, please have your model number (HY-112) and proof of purchase readily available.

Ask a question about this manual

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Details

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