

SimPure T1-400UV

SimPure T1-400UV Tankless Reverse Osmosis System with UV User Manual

Model: T1-400UV

1. PRODUCT OVERVIEW

The SimPure T1-400UV is an advanced tankless reverse osmosis (RO) water filtration system designed for under-sink installation. It features an 8-stage filtration process, including UV sterilization, to deliver purified water with near 0 Total Dissolved Solids (TDS). This system is SGS certified against NSF/ANSI 58 standards, ensuring high quality and performance in removing over 99.99% of contaminants.



Figure 1: SimPure T1-400UV Tankless Reverse Osmosis System

Key Features:

- **SGS Certified:** Tested against NSF/ANSI 58 Standard for effective removal of over 99.99% of 1000+ contaminants, including TDS, PFAS/PFOA/PFOS, heavy metals, and chloride.
- **Near 0 TDS Water:** Achieves ultra-pure water by efficiently reducing TDS levels to near 0 PPM or below 25 PPM, with up to 99.99% removal rate.
- **UV Power & Tankless Design:** Integrated UV system for extra sterilization, operating automatically with water flow. Tankless design saves under-sink space and prevents secondary contamination.
- **High Capacity:** Produces up to 400 gallons per day (GPD) of purified water.
- **Efficient Water Usage:** Features a 1.5:1 pure-to-drain ratio, minimizing wastewater compared to traditional RO systems.
- **Cost-Effective:** Long-lasting quick-change filter cartridges provide approximately 1057 gallons of purified water, reducing reliance on bottled water.

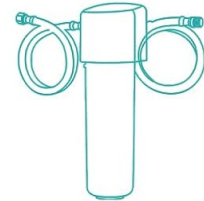
EFFICIENTLY REMOVE 99.99% 1000+ HARMFUL CONTAMINANTS

SGS

**TESTED AND CERTIFIED
- AGAINST NSF/ANSI 58
STANDARD**



**COMMON
FILTER**



PFAS (PFOS, PFOA)	✓	✗
Heavy Metals (Lead, Mercury, etc)	✓	✗
Fluoride	✓	✗
TDS	✓	✗
Taste, Odor, Turbidity (Chlorine, etc)	✓	✓
Impurities (Rust, Sand, Sediments)	✓	✗
Nitrates/Nitrites	✓	✗

Figure 2: Contaminant Removal Capabilities of SimPure T1-400UV



Figure 3: Detailed view of the 8-stage filtration process

Video 1: Overview of the SimPure T1-400UV Tankless UV RO Water Filter System, highlighting its features and benefits.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing, operating, or maintaining your SimPure T1-400UV system. Failure to follow these instructions could result in property damage, personal injury, or death.

- Always disconnect power before performing any maintenance or filter changes.
- Ensure all water connections are secure to prevent leaks. Check for leaks periodically after installation.
- Do not expose the system to freezing temperatures, as this can cause damage.
- Use only genuine SimPure replacement filters to ensure proper performance and avoid voiding your warranty.
- The UV lamp contains mercury. Handle with care and dispose of according to local regulations. Do not look directly at the UV light when it is on.
- Keep the system away from direct sunlight and heat sources.

3. SETUP AND INSTALLATION

The SimPure T1-400UV system is designed for easy under-sink installation. Its tankless design frees up significant space and simplifies the setup process.

Pre-Installation Checklist:

1. Verify you have adequate under-sink space (dimensions: 15.6"L x 5.3"W x 15.7"H).
2. Ensure access to a cold water supply line and a drain.
3. Confirm you have a power outlet available for the system's pump and UV light.
4. Gather necessary tools (drill, wrench, etc.).



Figure 4: Tankless design maximizes under-sink space.

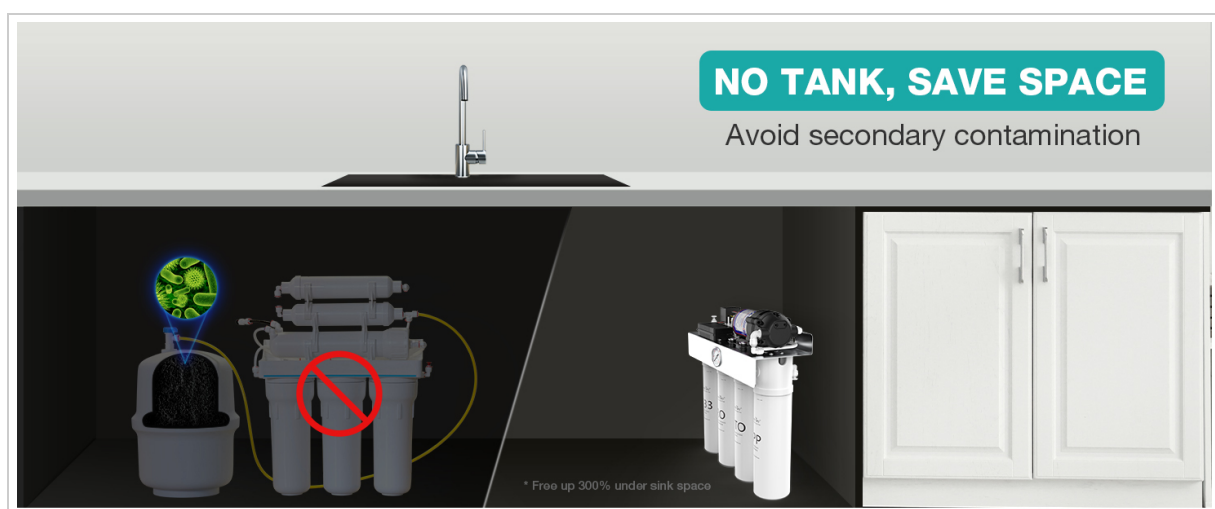


Figure 5: Benefits of the tankless design, including space-saving and prevention of secondary contamination.

Installation Steps:

1. **Mount the System:** Secure the main unit under the sink in a suitable location.
2. **Install Faucet:** Drill a hole in your countertop (if not already present) for the dedicated purified water faucet. Connect the pure water line from the RO system to this faucet using the provided quick-connect fittings.

3. **Connect Water Inlet:** Connect the cold water supply line to the system's inlet using the provided adapter valve.
4. **Connect Drain Line:** Attach the wastewater line from the system to the drain saddle on your sink's drain pipe. A 1/4-inch hole may need to be drilled for this connection.
5. **Power Connection:** Plug the system's power adapter into a grounded electrical outlet.
6. **Flush the System:** Before first use, open the purified water faucet and allow the system to flush for at least 20 minutes. This purges air and carbon fines from the new filters.



Figure 6: Installation requirements and pre-measure dimensions for the SimPure T1-400UV system.

4. OPERATING INSTRUCTIONS

Once installed and flushed, your SimPure T1-400UV system is ready to provide clean, purified water on demand.

Dispensing Water:

- Simply open the dedicated purified water faucet to dispense water.
- The system's 400 GPD capacity ensures a fast and constant flow, filling a cup in approximately 12 seconds.



Figure 7: Fast and constant water flow from the SimPure T1-400UV faucet.



Figure 8: Comparison of 400 GPD water flow with traditional systems.

TDS Monitoring:

The system is designed to produce water with near 0 TDS. You can verify this using a TDS meter.



EXCLUSIVE TECHNOLOGY

0 TDS



The SimPure ROULP-3012-400-T1
 is Tested and Certified by NSF International
 against NSF/ANSI Standard 58 for material
 requirements only.

COMPONENT


* The TDS of tap water ≤ 200 PPM.

* When 200-500 PPM, the removal rate is at least 95%, max to 99.9%.

Figure 9: TDS meter showing near 0 PPM for purified water.

Video 2: Demonstration of TDS reduction for drinking water using the SimPure system.

Application Scenarios:



Pressure Gauge

0-150 psi Pressure gauge, monitor RO filter inlet pressure

Reminder Change Filter

The pressure gauge value is normal for 100PSI. If value exceed 130PSI, the RO filter needs to be replaced.

Note: Kindly ensure you follow these steps to replace the filter: Place the machine flat, insert the cartridge vertically, then rotate the cartridge into place.

Figure 10: Various uses for purified water, including drinking, cleaning, cooking, and for pets.

5. MAINTENANCE

Regular maintenance, primarily filter replacement, is crucial for optimal performance and longevity of your SimPure T1-400UV system.

Filter Replacement:

The system uses quick-change twist filter cartridges for easy replacement.

- **Pre-filters (PP, CTO, T33):** Typically replaced every 3-6 months, depending on water quality and usage.
- **RO Membrane:** Replaced every 1-2 years, depending on water quality and usage.
- **UV Lamp:** Replace annually to ensure continuous sterilization.



Figure 11: Filter change reminders and pressure gauge for monitoring filter status.



Figure 12: The pressure gauge indicates when filters require replacement (e.g., exceeding 130 PSI for RO filter).

How to Replace Filters:

Place the machine flat, insert the cartridge vertically, then rotate the cartridge into place until secure.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your SimPure T1-400UV system.

Common Issues and Solutions:

- **Low Water Flow:**

- Check the pressure gauge; if it indicates high pressure, filters may be clogged and require replacement.
- Ensure the water supply valve is fully open.
- Verify there are no kinks in the water lines.

- **Water Leakage:**

- Inspect all quick-connect fittings and ensure tubing is fully inserted and secured.
- Check filter cartridges to ensure they are properly seated and twisted into place.
- Tighten any loose connections.

- **Unusual Taste or Odor:**

- Flush the system for an extended period (e.g., 30 minutes) if it's a new installation or after filter replacement.
- Replace pre-filters (PP, CTO, T33) if they are past their recommended lifespan.
- Ensure the UV lamp is functioning correctly.

- **System Not Turning On:**

- Check if the power adapter is securely plugged into a working outlet.
- Verify the water supply is on, as the system may have a low-pressure shut-off.

7. SPECIFICATIONS

Feature	Specification
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Brand	SimPure
Model Name	T1-400UV
Special Feature	Filtered Water Near 0 TDS, UV Power
Product Dimensions	15.6"L x 5.3"W x 15.7"H
Installation Type	Under Sink
Power Source	AC
Item Weight	17.75 Pounds
Lower Temperature Rating	41 Degrees Fahrenheit
Upper Temperature Rating	100 Degrees Fahrenheit
Maximum Flow Rate	0.27 Gallons Per Minute (400 GPD)
Operating Pressure Range	14.5-116 PSI
Supported Water TDS Level Maximum	500 PPM
Filtration Stages	8 Stages




8. WARRANTY AND SUPPORT

SimPure is committed to delivering world-class water filtration solutions and stands behind its products.

- **Contact Information:** For any questions or support, please reach out to SimPure's team of trained water specialists.
- **Toll-Free:** 1-866-528-4572
- **Customer Service Email:** service@simpurelife.com
- **Online Support:** Visit simpurelife.com for additional resources and replacement filter options.

Related Documents - T1-400UV

	SimPure T1 Series RO Water Filtration System: Installation, Operation & Maintenance Manual Comprehensive guide for the SimPure T1 Series RO Water Filtration System (T1-400UV, T1-400ALK), covering installation, operation, maintenance, troubleshooting, and warranty information.
	SimPure T1-400 RO Water Filtration System: Installation, Operation, and Maintenance Guide Comprehensive guide for the SimPure T1-400 Reverse Osmosis water filtration system, covering installation, operation, maintenance, troubleshooting, and warranty information. Learn how to set up and use your system for clean, purified drinking water.
	SimPure T1-400 RO Water Filtration System: Operators and Maintenance Handbook This Operators and Maintenance Handbook provides detailed instructions for installing, operating, and maintaining the SimPure T1-400 RO Water Filtration System, ensuring access to clean, purified drinking water.

	<p>SimPure V7 Water Filtration System: Installation, Operation & Maintenance Manual</p> <p>Comprehensive guide for installing, operating, and maintaining the SimPure V7 water filtration system, including safety precautions, troubleshooting, and warranty information. Features a 5-stage filtration process for clean, great-tasting water.</p>
	<p>SimPure T1-6 RO Water Purification System: Installation, Operation & Maintenance Manual</p> <p>Comprehensive guide for the SimPure T1-6 RO (Reverse Osmosis) water purification system. Includes step-by-step installation, daily and monthly maintenance, troubleshooting tips, and warranty information.</p>
	<p>SimPure T1 Reverse Osmosis Water Purification System: Operators and Maintenance Handbook</p> <p>Comprehensive guide for installing, operating, and maintaining the SimPure T1 Reverse Osmosis (RO) water purification system, including troubleshooting and warranty information.</p>