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› iSpring RO500AK-ORB Reverse Osmosis Water Filtration System User Manual

iSpring RO500AK-ORB

iSpring RO500AK-ORB Reverse Osmosis Water Filtration System

User Manual

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your iSpring RO500AK-ORB Reverse Osmosis Water Filtration System. Please read these instructions carefully before installation and keep this manual for future reference. This system is designed to provide high-quality filtered water for drinking and cooking.

SETUP

Tankless Design and Installation

The iSpring RO500AK-ORB features a compact, tankless design, saving up to 70% of under-sink space. Installation is designed to be straightforward with quick-connect fittings supporting 1/2" and 3/8" connections. An electrical outlet is required for operation.

NSF/ANSI 58 Certified

Entire System, Not Just Components

iSpring Whole System NSF/ANSI 58 Certified



- ✓ **NSF/ANSI 58 certified** – verified on official NSF website
- ✓ **Whole system certified**
- ✓ **Verified overall system performance and reliability**

Others:

Not Certified as a Complete System



Meets test standards only - no certification

Products may be tested to standards but are not certified.



Only individual components certified

Some filters or parts may be certified, but the whole system is not.



Potential compatibility/performance gaps

Components are tested separately, which may lead to compatibility issues or inconsistent performance.



Choose Whole System Certification.
Choose True Protection.

Verify Anytime. Anywhere.

Scan the QR code to check
NSF certification status



The iSpring RO500AK-ORB system's compact tankless design under a sink, highlighting its space-saving benefits and dimensions (16.13" L x 5.13" W x 16.25" H).

Installation Video Guide

For a detailed visual guide on installing your RO500AK-ORB system, please refer to the official installation video below. This video covers the steps for filter unwrapping, insertion, and overall system setup.

Your browser does not support the video tag.

Official installation video for the iSpring RO500 series, demonstrating the step-by-step process of setting up the water filtration system.

OPERATING THE SYSTEM

Water Purification Process

The RO500AK-ORB system utilizes a multi-stage filtration process to remove contaminants. This includes PP Sediment Removal, Carbon Block filtration, a 0.0001 µm Reverse Osmosis Membrane, and Remineralization Alkaline stage.

RO500AK Tankless Design

Saves Up to **70%** Under-Sink Space



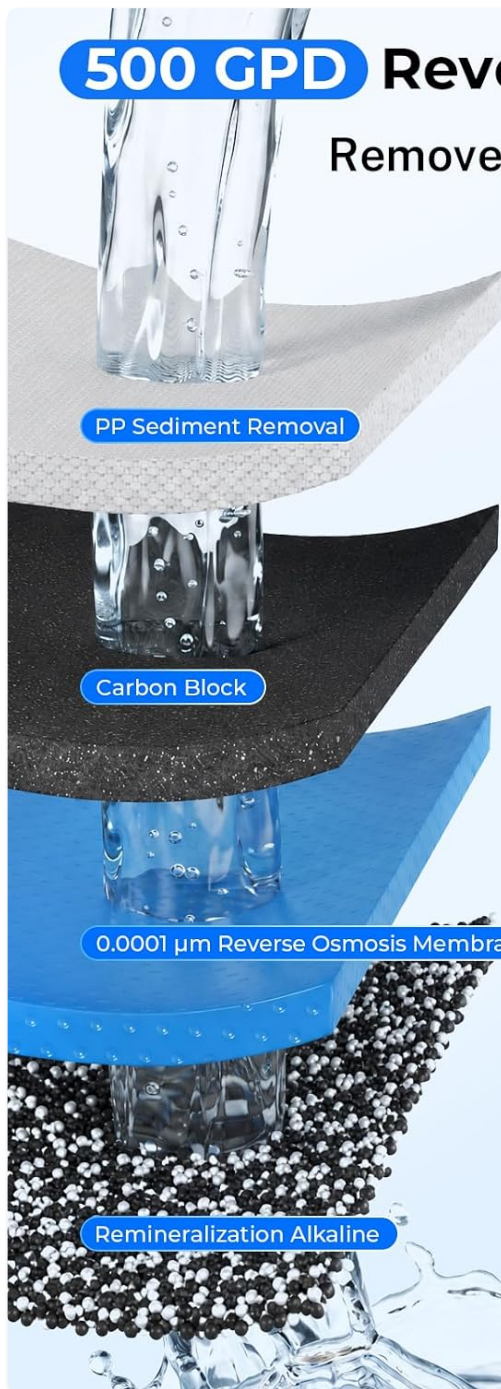
Illustration of the 500 GPD Reverse Osmosis Water System's filtration layers and the over 1,000 contaminants it removes, including lead, PFAS, TDS, and chlorine.

Fast Water Flow and Efficiency

The system provides a fast water flow rate of up to 0.4 GPM (500 GPD), capable of filling an 8 oz cup in approximately 10 seconds. It also features a 2:1 pure-to-waste ratio, which is significantly more water-efficient than traditional RO systems.

500 GPD Reverse Osmosis Water System

Removes up to **99%** over **1,000** contaminants



Lead



Cadmium



Microplastics



PFAS



Chlorine



Asbestos



TDS



Fluoride



Barium



Chromium



Arsenic



Unpleasant
Taste

Visual representation of the system's 500 GPD capacity, 0.4 GPM flow rate, and the 2:1 pure water to waste water ratio.

Alkaline Remineralization

The RO500AK-ORB includes an alkaline remineralization filter that adds beneficial minerals back into the filtered water, helping to balance the pH level and enhance the taste for a smoother, fresher drinking experience.

Fast Water Flow

Up to 500 GPD



Up to **0.4** GPM
(Gallons Per Minute) Flow Rate



10 s Fill up
a 8 oz cup

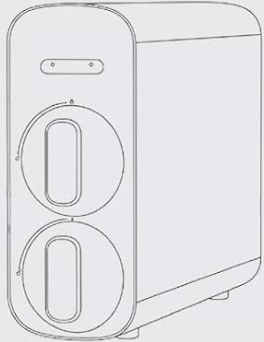


The alkaline remineralization process, which enhances pH levels and replenishes essential minerals for better-tasting water, suitable for various uses like coffee, drinking, and cooking.

Automatic Flushing Function

The system incorporates an auto-flush technology that rinses the membrane for 20 seconds after 24 hours of non-use. This feature helps maintain filter efficiency and ensures pure water is always ready, preventing potential TDS buildup.

Why Choose iSpring RO500AK?

iSpring RO500AK		Other Bands
		
✓ NSF/ANSI 58 Certified	Trusted Certification	✗ /
✓ Yes	Filter Replacement Indicators	✗ /
✓ 500 GPD (Fill 8 oz in just 10 s)	Capacity	✗ 400 GPD
✓ 2:1	Pure to Drain Water Ratio	✗ 1.5:1
✓ Auto-Flushing	Always Fresh	✗ /
✓ Ca ²⁺	Healthy Alkaline Remineralization	✗ /

The automatic flushing function ensures pure water is always available by rinsing the system for 20 seconds after 24 hours of inactivity.

RO Tankless Series Overview

This video provides a general overview of the iSpring RO500 Tankless Series, highlighting its features and benefits.

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Overview video of the iSpring RO500 Tankless Series, showcasing its design and operational advantages.

MAINTENANCE

Filter Replacement

The iSpring RO500AK-ORB system features smart alerts (front panel lights + buzzer) to indicate when filters need replacement. Filters are designed for easy, tool-free replacement with a simple twist-and-pull mechanism.

- **FCF500 Composite Filter:** Replace every 6 months.

- **MRO500 RO Membrane:** Replace every 24 months.
- **FCA500 Carbon Alkaline Filter:** Replace every 12 months.

Alkaline Remineralization

Enhances pH level with
added back minerals



**Better Taste
for Every Sip**

Smoother, fresher taste



**Replenishes
Essential Minerals**



Long-lasting filters with smart replacement alerts, indicating the lifespan for FCF500 (6 months), MRO500 (24 months), and FCA500 (12 months).



FCF500 Filter



MRO500 Filter



FCA500 Filter

TROUBLESHOOTING

If you encounter issues with your iSpring RO500AK-ORB system, consider the following common troubleshooting steps:

- **No Water Flow:** Check all water connections for kinks or blockages. Ensure the system is properly plugged into a functional electrical outlet.
- **Unusual Taste:** If a new alkaline filter was recently installed, flush the system for at least 15 minutes to remove any initial unpalatable taste.
- **Filter Reminder:** If the front panel lights or buzzer indicate a filter change, replace the indicated filter promptly.
- **Low Pressure:** Verify that the feed water supply is adequate. Check for any leaks or blockages in the tubing.

For persistent issues or complex problems, please contact iSpring technical support.

SPECIFICATIONS

Feature	Detail
Brand	iSpring
Model Name	RO500AK-ORB
Product Dimensions (L x W x H)	17.5" x 5.2" x 16.25"
Capacity	500 gallons per day (GPD)
Maximum Flow Rate	0.4 GPM
Purification Method	Reverse Osmosis
Special Feature	Tankless, Water Saver Technology, Alkaline Remineralization, Auto Flush, Filter Reminder
Material	Reverse Osmosis Membrane & Carbon Block + PP Composite Filter & Carbon Alkaline Filter
Item Weight	28 pounds
Included Components	Faucet, Manual, Tubing, Feed water adapter, Drain saddle, Power supply

CERTIFICATIONS

NSF/ANSI 58 Certified

The iSpring RO500AK-ORB is NSF/ANSI 58 certified for TDS reduction, ensuring the entire system has been

independently tested for performance and safety. This certification confirms its effectiveness in removing up to 99% of contaminants, including lead, PFAS, TDS, chromium, radium, fluoride, and arsenic.



Official NSF/ANSI 58 certification for the iSpring RO500AK-ORB system, verifying whole system performance and reliability. Click the image to view the official NSF report.



Scan the QR code to verify NSF certification status anytime, anywhere. Click the image to access NSF listings.

WARRANTY AND SUPPORT

Warranty Information

The iSpring RO500AK-ORB system includes a 1-year warranty. Please refer to the product packaging or iSpring's official website for full warranty terms and conditions.

Technical Support

iSpring provides lifetime technical support from its Atlanta, GA-based team. For any inquiries or assistance, please contact iSpring customer service.

Online Support Videos

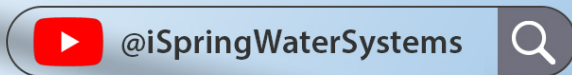
Detailed video tutorials and extensive maintenance resources are available on the iSpring YouTube channel to assist with

DIY installation and ongoing support.

Online Support Videos



We support DIY installation with detailed video tutorials and extensive maintenance resources.



Access online support videos and tutorials on the iSpring Water Systems YouTube channel for installation and maintenance guidance.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

