AP-P Series Water Conditioning System



1. Product Overview

1.1. Product Introduction

AP-P Series dedicated water mark treatment system, addressing the common problem of residual water marks in high-altitude cleaning operations, innovatively adopts a water treatment system to precisely modify and condition the operating water, making it less prone to leaving residues and eliminating water mark issues at the source.

The product is equipped with a plug-and-play interface, requiring no complex piping modifications and ready for immediate use; 5L/min high-flow design, paired with the Orion AP-P Series aerial cleaning system, ensures continuous and efficient UAV cleaning operations; industrial-grade rollers and a telescopic pull handle are adopted, enabling a single person to easily move the equipment and allowing flexible deployment across multiple scenarios.

1.2. Product List

Table 1-1 Dedicated water mark treatment system product list

No.	Item	Quantity
1	Filter assembly main unit	1
2	1/2" water inlet hose (2 m)	3
3	1/2" nipple quick-connect fitting	4
4	TDS water quality tester pen	1
5	Filter cartridge wrench	1
6	User Manual	1
7	Warranty Card	1
8	Product Certificate of Conformity	1

1.3. Initial Use

1.3.1. Connect Power

- Insert the power plug into a 220V power outlet or a portable power supply that can provide a 220V power source.

1.3.2. Connect Water Source to the Inlet Port

- Connect the water hose with the water supply turned on to the inlet port of the water spot treatment system.



Figure 1-1 Water Source Connection Diagram

1.3.3. Connect the Outlet Hose to the Outlet Port

- Connect the two outlet hoses to the outlet ports of the water spot treatment system, and use two water storage buckets to collect the water before use.



Figure 1-2 Outlet Hose Connection Diagram

1.3.4. Power On and Produce Water

- During the first water production, black water may flow out, which is normal.

- The water can be used after continuously producing water for 10 minutes.
- Concentrated water can be discharged directly into a drain, sink, or collected in a bucket.

1.3.5. Operating Instructions

- Connect power: Connect the power cord to a stable power outlet.
- Connect water source: Connect the inlet port to a stable water source, such as a tap water pipeline.

  ⚠ Caution: The optimum working pressure of this product is 0.1– 0.4 MPa. If the water pressure is higher than this range, install a pressure-reducing device to ensure normal operation.

- Open the outlet valve: Ensure the outlet valve is in the open position.
- Start the device: Press the power button and confirm that the power button indicator remains solid green, indicating that the device has started normally.
- Check operating status: Check whether the inlet water flows smoothly with no leakage; check whether the outlet water is normal and the flow rate is stable.

  ⚠ Caution on the drain hose: Regularly inspect the drain hose to ensure it is unobstructed to prevent blockage.

  ⚠ It is prohibited to connect the water-pumping inlet hose directly to the outlet port of the water spot treatment system; a water storage bucket must be used in between for transition.

1.3.6. Power Button Indicator Status

Table 1-2 Indicator Status List

Status	Effect
Off	Power-off state
Solid green	Startup complete, normal operation

2. Appendix

2.1. Performance Parameters

Table 2-1 Performance Parameter List

Parameter Name	Specification
Model	AP-P Series water spot treatment system
Dimensions	550x360x550mm
Input voltage	100-240V
Rated voltage	36V
Rated current	8A
Input voltage/frequency	AC100-240V 50/60HZ
Working pressure	0.4-0.8MPa
Inlet pressure	0.1-0.4MPa
Applicable water temperature	5-38℃
Ambient temperature	4-40℃
Outlet flow rate	5L/min
Ambient humidity	⩽90%RH
Rated total net water volume	25000L
Applicable water source	Municipal tap water