

## RAINPOINT ITP138

# RAINPOINT ITP138 Compact Programmable Solar Automatic Plant Waterer Kit

Instruction Manual

Model: ITP138 | Brand: RAINPOINT

## INTRODUCTION

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Thank you for choosing the RAINPOINT ITP138 Compact Programmable Solar Automatic Plant Waterer Kit. This system is designed to provide efficient and consistent watering for your plants, whether they are located indoors or outdoors. With its solar-powered operation and programmable settings, you can ensure your plants remain hydrated without constant manual intervention, making it ideal for daily use or during extended absences.

This manual will guide you through the installation, operation, and maintenance of your new watering system. Please read all instructions carefully before use to ensure optimal performance and longevity of the product.

## WHAT'S IN THE BOX

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Your RAINPOINT ITP138 kit includes the following components:

- 1 x Solar Irrigation Pump (Main Unit)
- 1 x Drip Irrigation Accessories Kit, including:
  - Anti-Siphon Valve
  - 10 x Micro Drip Emitters
  - 1/6" Main Line Tubing
  - 1/8" Branch Line Tubing
  - 10 x T Barb Fittings

- 10 x Zip Ties
- Ground Stake
- USB-C Charging Cable (for backup charging)



Figure 1: All components included in the RAINPOINT ITP138 kit, showing the solar pump, tubing, emitters, and various fittings.

Note: The standard kit includes accessories for 10 pots. Expansion kits can be purchased separately to extend coverage for up to 20 plants.

## SETUP INSTRUCTIONS

Follow these steps to set up your RAINPOINT ITP138 watering system:

1. **Prepare the Water Source:** Place a bucket or container of water near your plants. Ensure the container is stable and can hold enough water for your desired watering duration.

# Watering System with A Powerful Heart



**Premium**  
Diaphragm Pump & Motor



**Better Performance**  
& Longer Lifespan

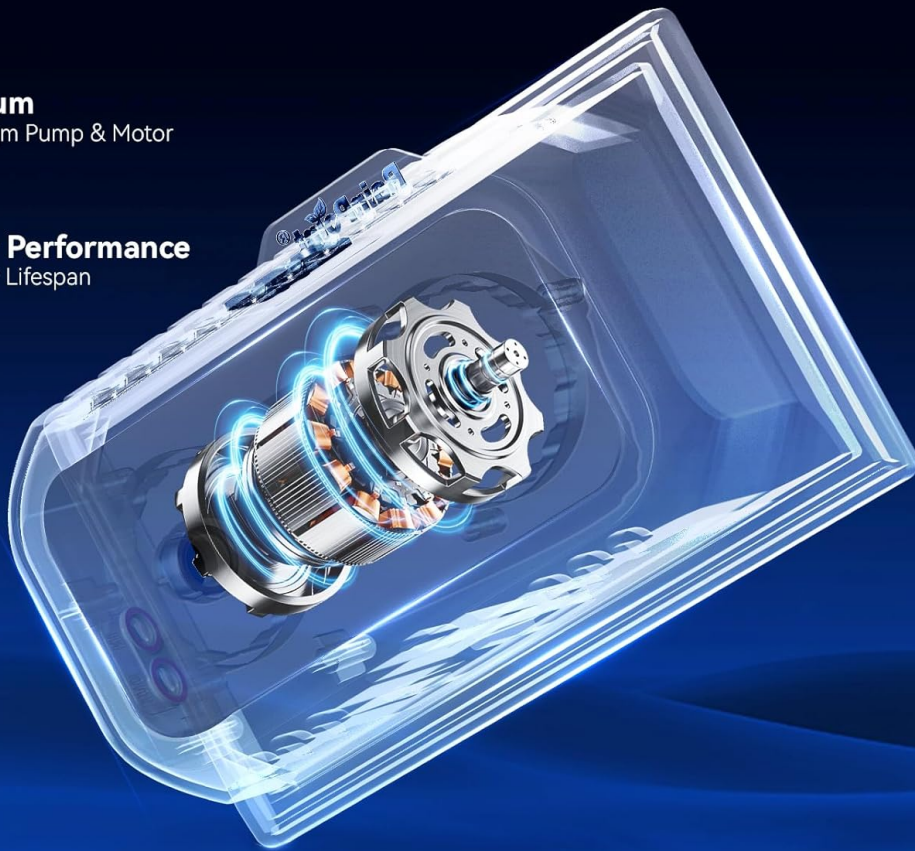
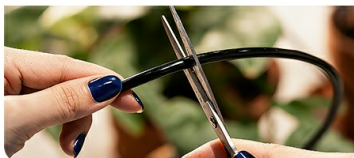


Figure 2: The RAINPOINT ITP138 solar pump positioned with a water source and drip lines extending to plants.

- 2. Install the Filter:** Attach the filter to one end of the 1/6" main line tubing. Submerge the filter end into your water source. This prevents debris from entering the pump and drip system.

**01** Cut tubing to desired length



**02** Connect tubings to inlet & outlet



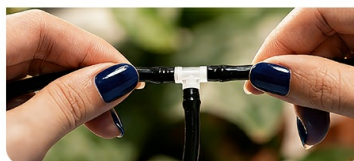
**03** Insert filter



**04** Install anti-siphon valve



**05** Connect sections with fittings



**06** Attach emitters and insert into soil



Figure 3: Visual guide for connecting the tubing to the pump, inserting the filter into the water source, and attaching the anti-siphon valve and emitters.

- 3. Connect Tubing to Pump:** Connect the other end of the 1/6" main line tubing to the 'IN' port of the solar irrigation pump. Connect the 1/8" branch line tubing to the 'OUT' port. Ensure connections are secure to prevent leaks.



Figure 4: The exposed ports on the RAINPOINT ITP138 pump, designed for easy and secure tubing connection.

4. **Install Anti-Siphon Valve:** Insert the anti-siphon valve into the main line tubing, ensuring the larger end is closer to the pump. This prevents water from flowing back into the reservoir when the pump is off.
5. **Route Drip Lines and Emitters:** Cut the 1/8" branch line tubing to desired lengths for each plant. Use the T barb fittings to create branches from the main line. Attach a micro drip emitter to the end of each branch line and insert it into the soil near the base of each plant. Use zip ties to secure tubing as needed.
6. **Position the Solar Panel:** Mount the solar irrigation pump using the provided ground stake. Adjust the solar panel to face direct sunlight for optimal charging. The panel is 360° adjustable.



Figure 5: The RAINPOINT ITP138 solar panel mounted on a stake, collecting sunlight to power the watering system.

7. **Prime the Pump (if necessary):** If the pump does not start pumping water immediately, use the included small pipette to add water into the 'IN' port to wet the diaphragm and prime the pump.

## OPERATING INSTRUCTIONS

The RAINPOINT ITP138 features easy-to-use dial programming for automated watering and a manual watering option.

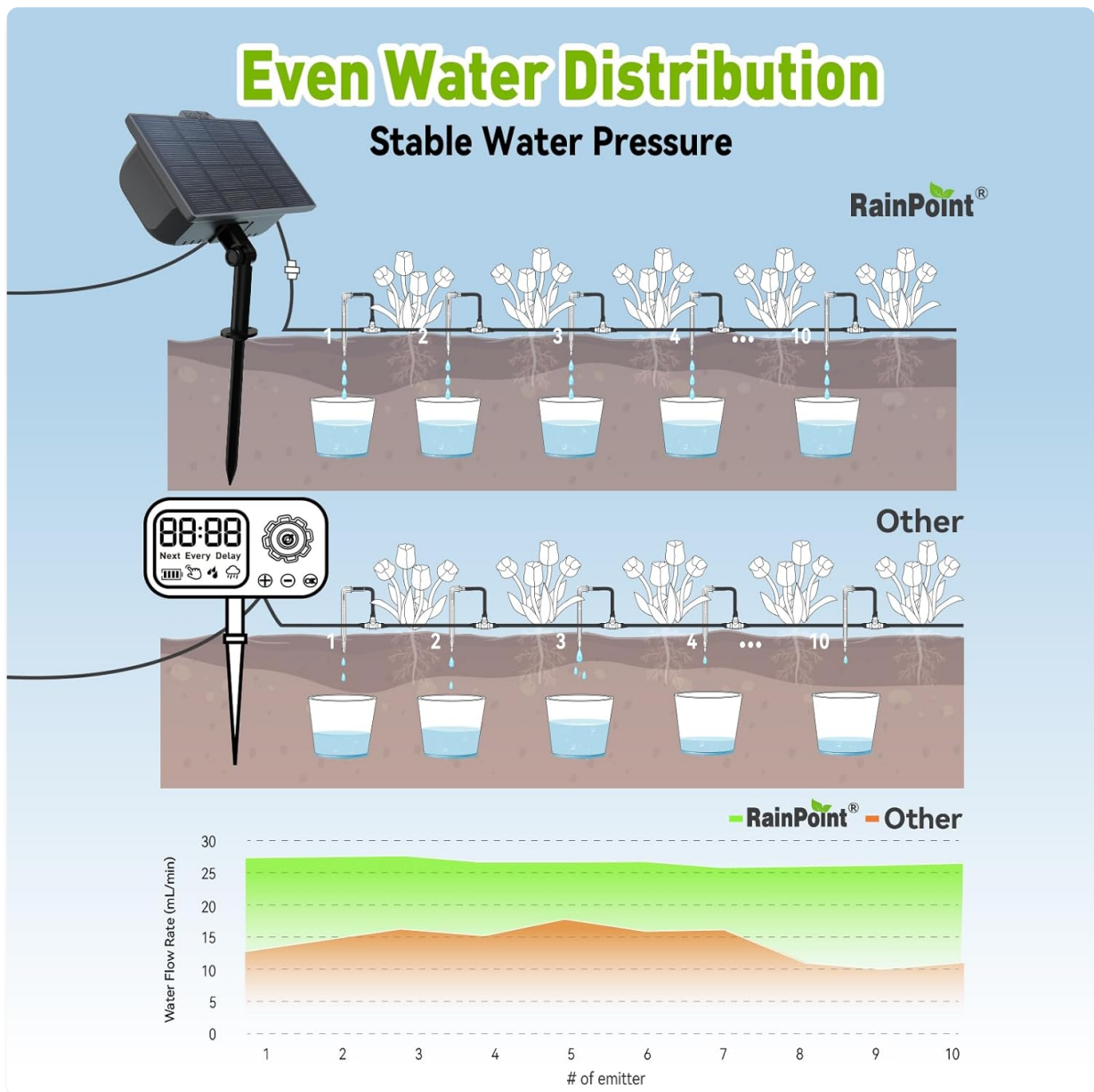


Figure 6: The control panel of the RAINPOINT ITP138, showing the 'How Often' and 'How Long' dials for programming.

## 1. Setting the Automatic Watering Schedule

- **'How Often' Dial:** Turn the left dial to select the frequency of watering. Options range from every 8 hours to every 30 days. Select 'ONCE' for a single watering cycle or 'OFF' to disable automatic watering.
- **'How Long' Dial:** Turn the right dial to set the duration of each watering cycle. Options range from 10 seconds to 20 minutes. Select 'OFF' to disable watering duration.
- The system will automatically begin watering according to your selected schedule.

## 2. Manual Watering

- To initiate a temporary watering cycle without affecting your preset schedule, press the manual button (indicated by a hand icon) on the control panel. The pump will run for the duration set on the 'How Long' dial.

## 3. Power and Indicators

- The solar panel charges the internal rechargeable lithium battery. Ensure the panel receives adequate sunlight.
- A low battery indicator will alert you when the battery needs charging. You can also charge the unit via

the USB-C port using the provided cable.

- A low water auto shut-off feature protects the pump from running dry.

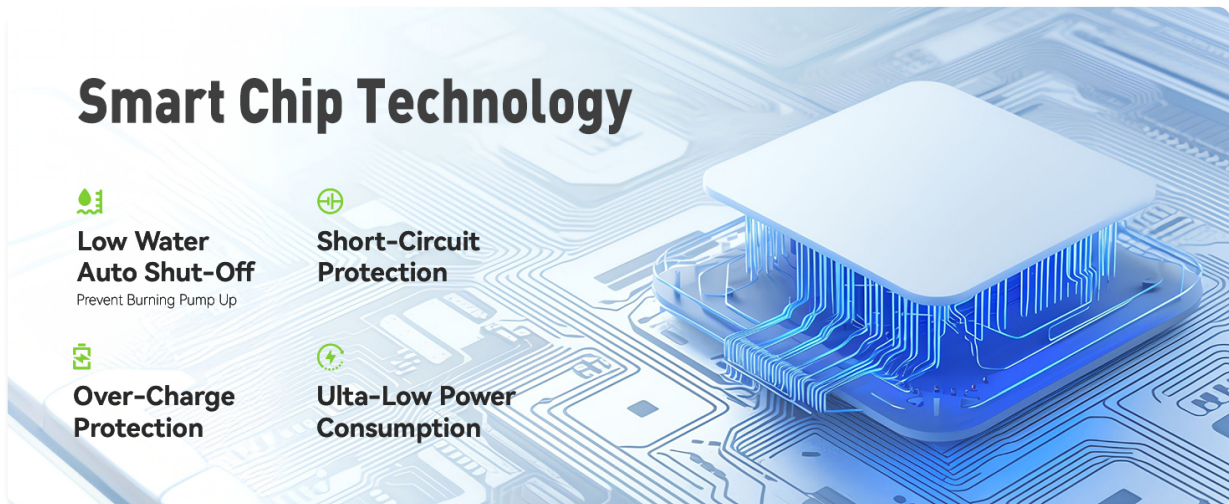


Figure 7: The smart chip technology integrated into the RAINPOINT ITP138 provides essential protections including low water auto shut-off, short-circuit protection, and over-charge protection.

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Video 1: An official RAINPOINT video demonstrating the easy setup and solar charging capabilities of the ITP138 watering kit.

## MAINTENANCE

- **Clean the Filter:** Regularly check and clean the water filter to prevent blockages and ensure consistent water flow. Remove any debris or sediment.
- **Check Tubing and Emitters:** Periodically inspect all tubing and emitters for kinks, blockages, or damage. Ensure emitters are securely placed in the soil and delivering water effectively.
- **Solar Panel Cleaning:** Keep the solar panel clean from dust, dirt, and leaves to maximize sunlight absorption and charging efficiency. Wipe it gently with a soft, damp cloth.
- **Battery Care:** Recharge the internal battery promptly when the low battery indicator appears to maintain optimal performance and battery lifespan. If storing for an extended period, ensure the battery is fully charged.
- **Winter Storage:** In colder climates, drain all water from the system and store the pump and tubing indoors to prevent freezing and damage.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not running / No water flow	Low battery; Clogged filter; Air in pump (not primed); Kinked or blocked tubing; Empty water source.	Charge battery (via solar or USB-C); Clean filter; Prime pump with water; Check and clear tubing; Refill water container.
Uneven water distribution	Emitters clogged; Tubing not properly routed; Insufficient water pressure.	Clean emitters; Adjust tubing layout for even distribution; Ensure pump is primed and water source is adequate.

Problem	Possible Cause	Solution
Water leakage	Loose tubing connections; Damaged tubing or fittings.	Ensure all tubing is firmly connected to ports and fittings; Replace any damaged components.
Solar panel not charging	Insufficient sunlight; Dirty solar panel; Panel not angled correctly.	Relocate panel to direct sunlight; Clean solar panel surface; Adjust panel angle for maximum sun exposure.

## SPECIFICATIONS

Feature	Detail
Brand	RAINPOINT
Model Number	ITP138
Power Source	Solar Powered & Battery Powered (2000mAh Rechargeable Lithium Battery)
Control Type	Button Control (Dual-Knob Setting)
Watering Frequency	Every 8 hours to every 30 days (adjustable)
Watering Duration	10 seconds to 20 minutes (adjustable)
Max Plants Supported	10-20 plants (with expansion kit)
Tubing Sizes	1/6" Main Line, 1/8" Branch Line
Special Features	Automatic Watering, Leak Resistant, Programmable, Weather Resistant, Low Water Auto Shut-Off, Short-Circuit Protection, Over-Charge Protection, Ultra-Low Power Consumption
Material	Polypropylene
Item Dimensions	7.99 x 7.09 x 3.94 inches

## WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase additional accessories, please refer to the contact details provided in your product packaging or visit the official RAINPOINT website. Keep your purchase receipt for warranty claims.

