

RAINPOINT HTP149FRF

RAINPOINT 149 Drip Irrigation System with Solar Panel

MODEL: HTP149FRF

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your RAINPOINT 149 Drip Irrigation System. Designed for efficient and automatic plant watering, this system features a solar panel for power and programmable settings to ensure your plants receive optimal hydration. Please read this manual thoroughly before use to ensure proper function and longevity of your device.

2. Package Contents

Verify that all components are present in your package:

- RAINPOINT 149 Controller with integrated solar panel
- Water inlet filter
- Anti-siphon valve
- Drip tubing (main line and distribution lines)
- Drip emitters
- Tubing connectors and stakes
- USB charging cable
- User Manual

3. Product Overview

The RAINPOINT 149 system is designed for ease of use and reliability. Key features include:

- **Programmable Watering:** Set frequency and duration with intuitive dials.
- **Solar Powered:** Integrated solar panel charges the internal lithium-ion battery.
- **Dual Power Options:** Can be powered by solar or USB.
- **Smart Chip Technology:** Provides short-circuit protection, over-charge protection, and ultra-low power consumption.
- **Expandable:** Convertible to a smart version with a separate hub for app control.



Figure 3.1: Front view of the RAINPOINT 149 controller, showing the 'How Often' and 'How Long' setting dials, along with indicators for app connectivity and manual mode.



Figure 3.2: The adjustable solar panel integrated into the RAINPOINT 149 controller, designed for optimal sun exposure and charging efficiency. The image illustrates its flexible positioning.



Figure 3.3: Illustration of the two power options for the RAINPOINT 149 controller: solar power via the integrated panel and USB power for charging or continuous operation indoors.

A digital automatic watering device is shown on a wooden surface. It consists of a black rectangular control unit with a blue water reservoir on top. The control unit has two large green buttons labeled "HOW OFTEN" and "HOW LONG", and a "MANUAL" button with a hand icon. The "HOW OFTEN" button has a dial with settings: 15s, 30s, 1m, 2m, 3m, 5m, 10m, 15m, 20m, 30m, 1h, 2h, 3h, 6h, 12h, 24h, 48h, 72h, 14d, and 30d. The "HOW LONG" button has a dial with settings: 15s, 30s, 1m, 2m, 3m, 5m, 10m, 15m, 20m, 30m, 1h, 2h, 3h, 6h, 12h, 24h, 48h, 72h, 14d, and 30d. A black cable is connected to the device, and a blue light is visible inside the water reservoir. In the background, there are several potted plants, including a cactus and a succulent.

Figure 3.4: The RAINPOINT 149 controller operating with solar power, highlighting its rechargeable battery backup feature for uninterrupted watering even without direct sunlight.



TWO POWER OPTIONS

Flexible & Reliable



Figure 3.5: The RAINPOINT 149 controller's capability to convert from a standalone unit to a smart version when connected to a compatible hub, enabling app-based control and advanced scheduling.

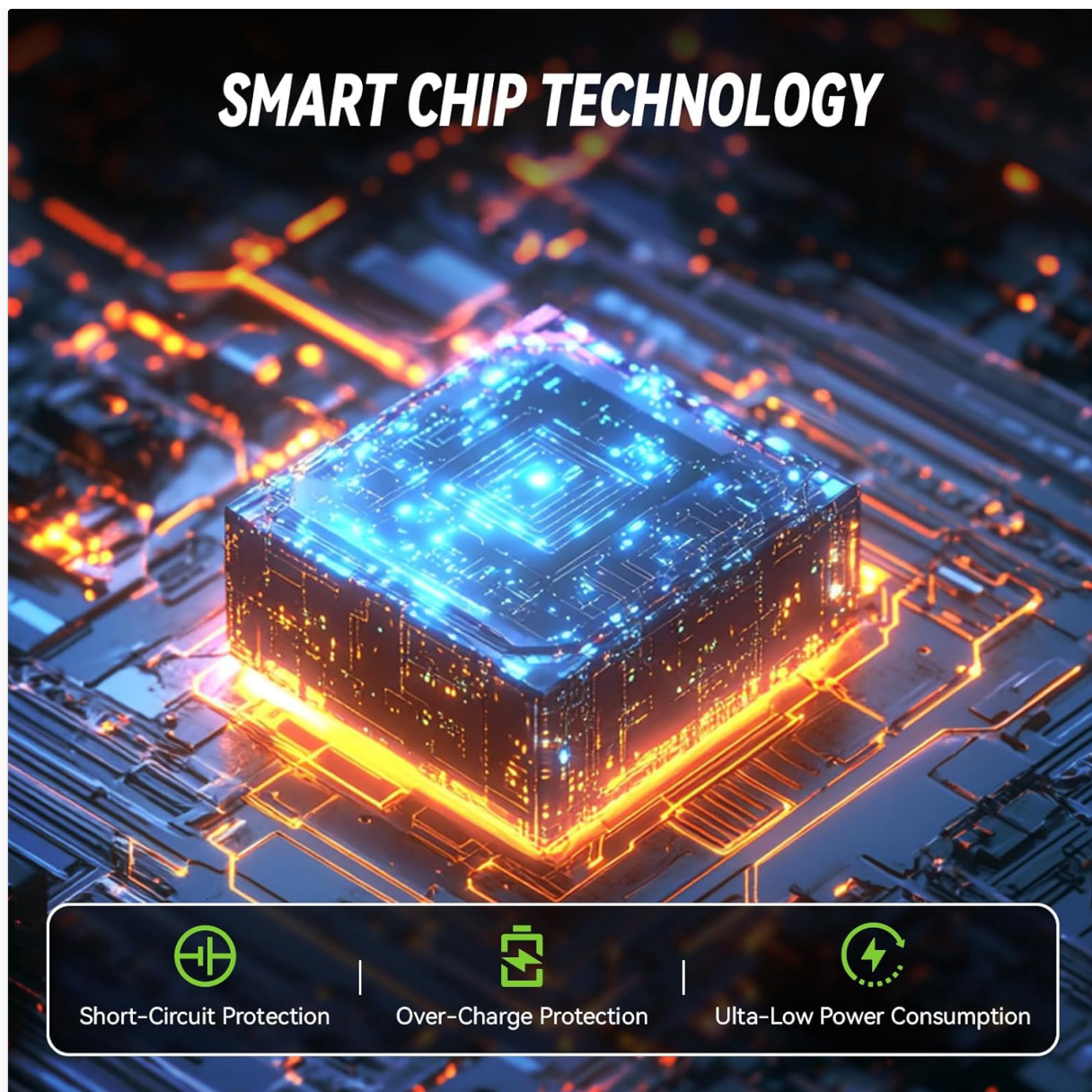


Figure 3.6: Visual representation of the smart chip technology within the RAINPOINT 149 controller, emphasizing its protective features like short-circuit and over-charge protection, and ultra-low power consumption.

4. Setup

Follow these steps to set up your drip irrigation system:

1. **Charge the Controller:** Before first use, fully charge the controller using the provided USB cable. The charging indicator will show status.
2. **Position the Controller:** Mount the controller in a location where the solar panel receives direct sunlight for several hours daily. Ensure it is close to your water source (e.g., a water reservoir).
3. **Connect Water Inlet:** Attach the water inlet filter to the controller's inlet port. Place the filtered end into your water reservoir.
4. **Install Anti-Siphon Valve:** Connect the anti-siphon valve to the controller's outlet port. This prevents water from flowing back into the reservoir.
5. **Lay Out Tubing:** Connect the main drip tubing to the anti-siphon valve. Route the tubing to your plants, securing it with stakes as needed.
6. **Install Emitters:** Cut the main tubing at desired points and insert T-connectors or directly attach distribution lines. Place drip emitters near the base of each plant. Ensure all connections are secure to

prevent leaks.

7. **Test System:** Once assembled, perform a manual watering cycle to check for proper water flow and any leaks. Adjust emitters as necessary for even distribution.

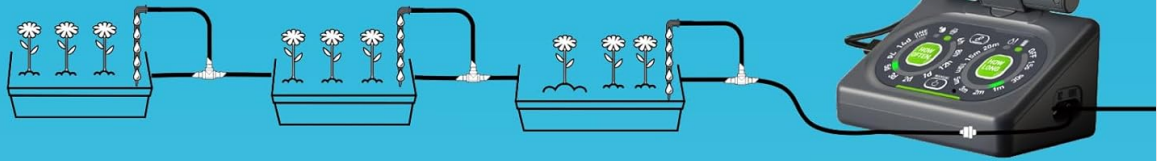


Figure 4.1: Detailed view of the water flow components, including the anti-siphon valve and filter, ensuring clean and controlled water delivery to plants.

EVEN WATER DISTRIBUTION

Stable Water Pressure

RainPoint®



Other

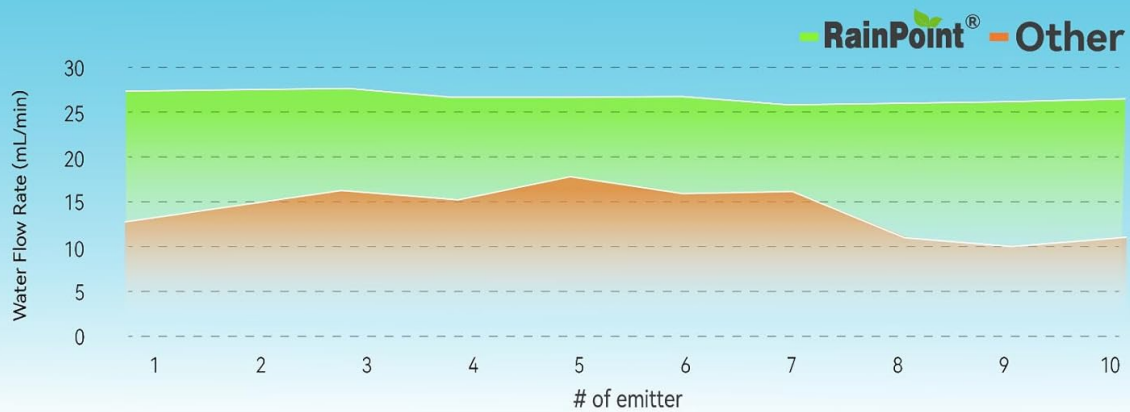
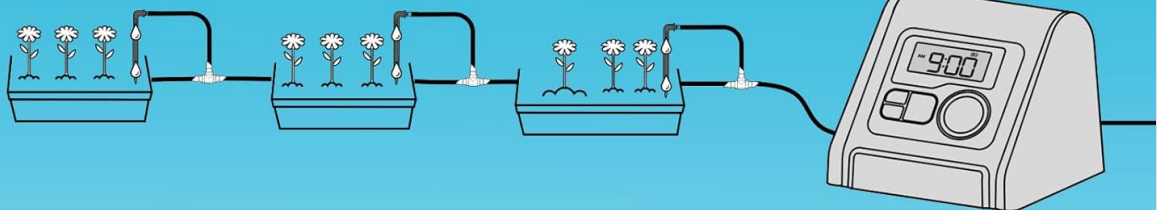


Figure 4.2: A diagram illustrating the stable water pressure and even water distribution achieved by the RAINPOINT system compared to other irrigation methods, ensuring consistent watering for multiple plants.

5. Operating Instructions

The RAINPOINT 149 controller offers simple dial-based programming.

5.1 Setting Watering Frequency ('How Often')

Rotate the left dial labeled 'HOW OFTEN' to select the desired watering interval. Options typically include:

- Every 6 hours (6h)
- Every 8 hours (8h)
- Every 12 hours (12h)
- Every 1 day (1d)
- Every 2 days (2d)
- Every 3 days (3d)
- Every 5 days (5d)
- Every 7 days (7d)
- Every 14 days (14d)

- One Time (for a single watering event)

5.2 Setting Watering Duration ('How Long')

Rotate the right dial labeled 'HOW LONG' to select the desired watering duration. Options typically include:

- 15 seconds (15s)
- 30 seconds (30s)
- 1 minute (1m)
- 2 minutes (2m)
- 3 minutes (3m)
- 5 minutes (5m)
- 10 minutes (10m)
- 15 minutes (15m)
- 20 minutes (20m)
- OFF (to disable watering)

5.3 Manual Watering

To initiate a manual watering cycle, press the 'MANUAL' button located between the two dials. The system will water for the duration currently set on the 'HOW LONG' dial. Press again to stop.

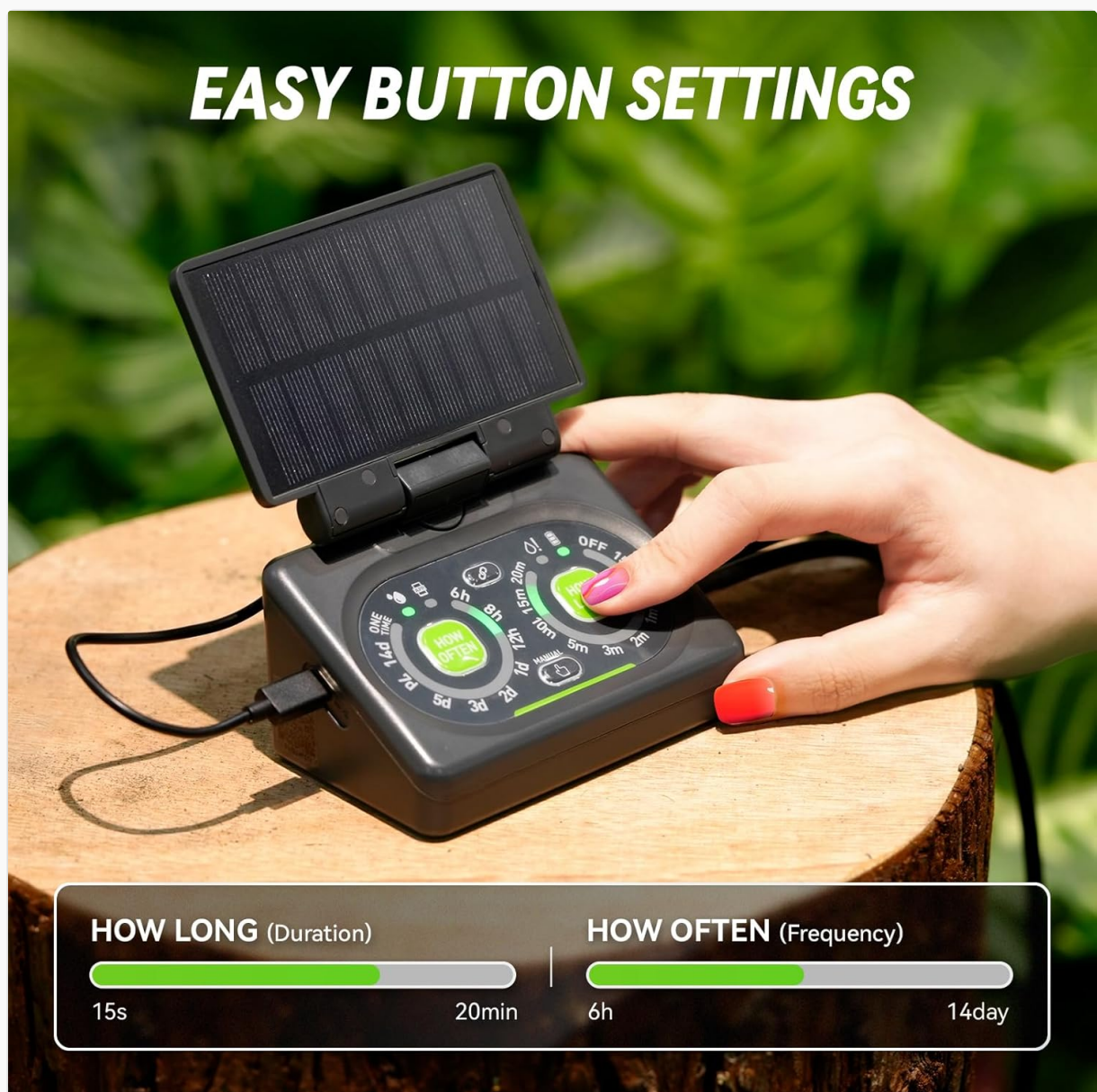


Figure 5.1: A hand demonstrating the adjustment of the 'How Long' and 'How Often' dials on the RAINPOINT 149 controller for setting watering schedules.

5.4 Smart Mode (Optional)

If you have purchased the compatible RAINPOINT hub, you can convert your system to 'Smart Mode'. Follow the hub's instructions to connect the controller to the app. This allows for advanced scheduling, remote control, and integration with smart home features.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your irrigation system.

- **Clean Filters:** Periodically check and clean the water inlet filter to prevent clogging and ensure consistent water flow.
- **Check for Leaks:** Inspect all tubing and emitter connections regularly for any leaks. Tighten or replace components as needed.
- **Solar Panel Cleaning:** Keep the solar panel clean from dust and debris to maximize charging efficiency.
- **Battery Care:** Ensure the controller receives adequate sunlight for charging. If storing for extended periods, fully charge the battery and store in a cool, dry place. Recharge every 3-6 months to maintain battery health.
- **Winterization:** In freezing climates, disconnect the system, drain all water from tubing and components, and store the controller indoors to prevent frost damage.

7. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No water flow	Clogged filter, kinked tubing, empty water reservoir, low battery.	Clean filter, straighten tubing, refill reservoir, charge battery.
System not watering at scheduled times	Incorrect dial settings, low battery, 'OFF' selected on 'How Long' dial.	Verify dial settings, charge battery, ensure 'How Long' is not set to 'OFF'.
Uneven water distribution	Clogged emitters, improper emitter placement, insufficient water pressure.	Clean or replace emitters, adjust placement, ensure reservoir is adequately filled.
Solar panel not charging	Panel is dirty, insufficient sunlight, panel obstructed.	Clean solar panel, reposition for direct sunlight, remove obstructions.

8. Specifications



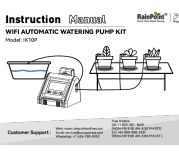
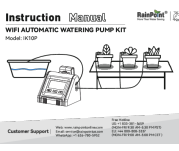
Feature	Detail
Model Number	HTP149FRF

Feature	Detail
Brand	RAINPOINT
Power Source	Solar Panel, USB (Rechargeable Lithium Ion Battery included)
Special Features	Automatic Watering, Leak Resistant, Programmable
Item Weight	739 g

9. Warranty and Support

RAINPOINT products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided on the product packaging or the official RAINPOINT website. Keep your purchase receipt as proof of purchase.

Related Documents - HTP149FRF

 <p>USER MANUAL DIGITAL PUMP TIMER KIT Model No. ITP106</p> <p>Customer Support: Email: sales@rainpointfr.com WhatsApp: +1 424-753-4162 UK: +44 (0)20 506 52103</p>	<p>RainPoint ITP106 Digital Pump Timer Kit User Manual</p> <p>User manual for the RainPoint ITP106 Digital Pump Timer Kit, providing comprehensive instructions on setup, operation, troubleshooting, and warranty information for automatic garden watering systems.</p>
 <p>USER MANUAL Rainpoint Outdoor Solar Irrigation System Model No. IK15P-DLS</p>	<p>RainPoint Outdoor Solar Irrigation System User Manual IK15P-DLS</p> <p>Comprehensive user manual for the RainPoint Outdoor Solar Irrigation System, Model IK15P-DLS. Provides detailed instructions on setup, operation, functions, specifications, troubleshooting, and warranty information for efficient garden watering.</p>
 <p>Instruction Manual WiFi AUTOMATIC WATERING PUMP KIT Model: IK10P</p>	<p>RainPoint IK10P WiFi Automatic Watering Pump Kit User Manual</p> <p>User manual for the RainPoint IK10P WiFi Automatic Watering Pump Kit, detailing product features, installation, operation, troubleshooting, and warranty. This smart watering system helps automate plant care.</p>
 <p>Instruction Manual WiFi AUTOMATIC WATERING PUMP KIT Model: IK10P</p>	<p>RainPoint IK10P WiFi Automatic Watering Pump Kit - Instruction Manual</p> <p>Comprehensive instruction manual for the RainPoint IK10P WiFi Automatic Watering Pump Kit. Learn about product overview, package contents, technical specifications, installation, operation, troubleshooting, and warranty.</p>

