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Gardena 13455-20

Gardena Micro-Drip-System Drip Irrigation Set for Raised Beds (35 Plants) - Model 13455-20

Instruction Manual

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Gardena Micro-Drip-System Drip Irrigation Set for Raised Beds. This starter set is designed for water-saving drip irrigation of single beds and raised beds, accommodating up to 35 plants. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your system.
The Master Unit 1000 regulates water pressure to approximately 1.5 bar, distributing water evenly through 13 mm connecting pipes and 4.6 mm supply pipes. T-pieces facilitate kink-free installation, and inline drip heads provide pressure-equalizing water delivery of two liters per hour, suitable for varying heights in raised beds.

Important Safety Information

For safe and proper use, always read and follow this setup guide.

- Ensure proper connection to a water source.
- Avoid overtightening or stressing components during assembly.
- Store the product in a dry place when not in use.
- Protect the system from harsh weather conditions and direct sunlight to prevent damage.

Package Contents

Verify that all components listed below are present in your package before beginning installation.



Image: All components of the Gardena Micro-Drip-System Drip Irrigation Set, including pipes, connectors, drip heads, and the Master Unit, with quantities indicated for each part.

- Master Unit 1000 (1x)
- Connecting Pipe 13 mm (1x roll)
- Supply Pipe 4.6 mm (1x roll)
- T-pieces for Pipe Branch Connections (5x)
- Inline Drip Heads, pressure-equalizing (35x)
- End Caps (various sizes)
- Pipe Pegs (various sizes)
- Assembly Tool (1x)
- Control Valve (2x)
- L-Connectors (2x)
- Reducing T-Joints (5x)

Setup and Installation

The Gardena Micro-Drip-System is designed for easy and flexible installation without special tools. Follow these steps to set up your irrigation system.

1. Planning Your Layout

Before assembly, plan the layout of your irrigation system. Consider the placement of your raised beds and individual plants to ensure optimal water distribution. The system is flexible and can be rearranged as your plant setup changes.

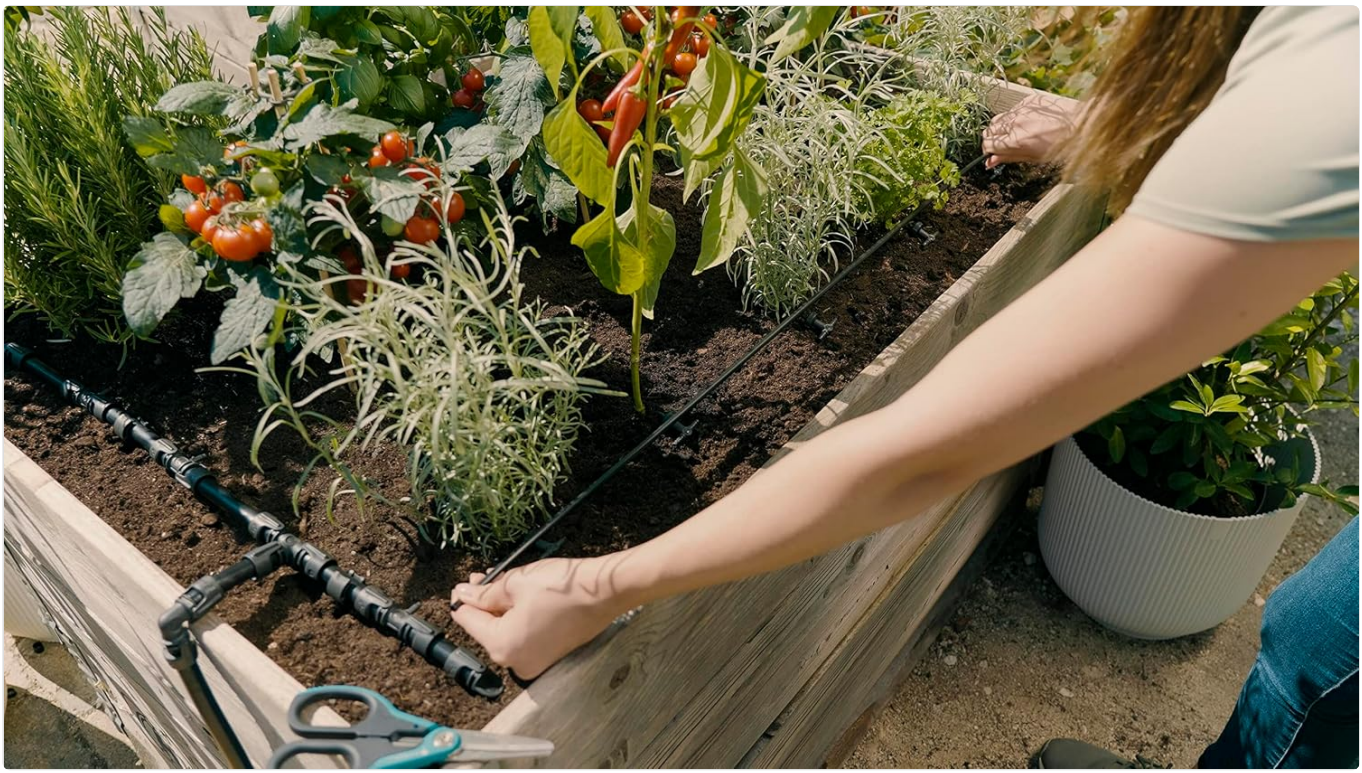


Image: A person adjusting a drip head within a raised garden bed, demonstrating the system's flexibility and ease of customization for individual plants.

2. Connecting the Master Unit

Connect the Master Unit 1000 to your water source (e.g., garden tap or rain barrel). Ensure a secure, leak-free connection. The Master Unit reduces the water pressure to the optimal level for the micro-drip system.



Image: A raised garden bed featuring the Gardena Micro-Drip-System connected to a water source with an attached timer/controller, illustrating automated watering.

3. Laying the Connecting Pipe

Lay the 13 mm Connecting Pipe along the perimeter or main lines of your raised beds. Use the provided pipe pegs to secure the pipe to the ground. T-pieces and L-connectors allow for flexible routing around corners and for branching off to different sections.

4. Attaching Supply Pipes and Drip Heads

Use the Reducing T-Joints to connect the 4.6 mm Supply Pipes to the 13 mm Connecting Pipe. Route the Supply Pipes to individual plants. Attach the Inline Drip Heads at the base of each plant. The drip heads deliver water directly to the root zone, minimizing waste.



Image: A close-up view of a Gardena drip head positioned at the base of a plant, showing water being delivered directly to the soil around the roots.



Image: A raised garden bed filled with a variety of healthy plants, showcasing the fully installed Gardena Micro-Drip-System with pipes and drip heads discreetly placed among the foliage.

5. Sealing the System

Use end caps to seal the open ends of the 13 mm Connecting Pipes and 4.6 mm Supply Pipes to maintain pressure and prevent leaks.

Operating Instructions

Once installed, operating your Gardena Micro-Drip-System is straightforward.

1. Activating Water Flow

Slowly open the water source connected to the Master Unit. Check for any leaks in the system. The Master Unit will regulate the pressure automatically.

2. Adjusting Drip Heads

The inline drip heads are pressure-equalizing, delivering a consistent flow of two liters per hour. No individual adjustment is typically needed for flow rate. However, you can reposition drip heads to ensure each plant receives adequate water as it grows or if your plant arrangement changes.

3. Using Control Valves

The included control valves allow you to manually turn off water flow to specific sections of the system if needed, for example, during plant relocation or maintenance.

4. Automation (Optional)

For automated watering, you can connect a Gardena Water Computer or similar timer to the Master Unit. This allows you to set specific watering schedules, further enhancing water efficiency and convenience.

Maintenance

Regular maintenance ensures the long-term efficiency and performance of your Micro-Drip-System.

- **Check for Leaks:** Periodically inspect all connections and pipes for leaks. Tighten connections or replace damaged components as necessary.
- **Clean Drip Heads:** If water flow from a drip head appears reduced, it may be clogged. Gently remove the drip head and clean any debris.
- **Winterization:** Before the first frost, drain all water from the system to prevent freezing and damage to pipes and components. Disconnect the Master Unit and store it in a frost-free location.
- **Seasonal Inspection:** At the beginning of each watering season, inspect all components for wear and tear. Replace any brittle or damaged parts.

Troubleshooting

Problem	Possible Cause	Solution
No water flow or very low pressure	• Water source not fully open • Master Unit filter clogged • Kink in the main pipe • System not properly sealed (open end caps)	• Ensure water source is fully open • Clean the filter in the Master Unit • Check pipes for kinks and straighten them • Verify all pipe ends are sealed with end caps
Uneven water distribution	• Clogged drip heads • Incorrect placement of drip heads	• Clean individual drip heads • Adjust drip head positions to ensure even coverage for plants
Leaks at connections	• Loose connections • Damaged O-rings or connectors	• Ensure all connections are firmly seated • Inspect O-rings and connectors for damage; replace if necessary

Specifications

- **Model:** Gardena Micro-Drip-System Drip Irrigation Set Raised Bed/Bed (35 Plants)
- **Product Number:** 13455-20
- **Brand:** Gardena
- **Application:** Drip irrigation for raised beds and single beds
- **Capacity:** Up to 35 plants
- **Water Pressure Regulation:** Master Unit 1000 (approx. 1.5 bar)
- **Drip Head Flow Rate:** 2 liters per hour (pressure-equalizing)
- **Pipe Diameters:** 13 mm (connecting pipe), 4.6 mm (supply pipe)
- **Connection Technology:** Simple and flexible click-together system
- **Water Source:** Compatible with standard garden taps and rain barrels

Support and Warranty

For further assistance, product registration, or warranty information, please visit the official Gardena website or contact their customer support. Keep your purchase receipt as proof of purchase.
Note: Specific warranty terms and support contact details are not provided in this document. Please refer to the manufacturer's official resources.

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