

Gardena 13016-20

Gardena Micro-Drip-System Starter Kit (Model 13016-20) Instruction Manual

For Beds and Vegetable Patches

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Gardena Micro-Drip-System Starter Kit (Model 13016-20). This automatic drip irrigation system is designed for water-saving root irrigation of up to 35 plants in beds and vegetable patches. It features individually adjustable, pressure-compensating drippers and Gardena's Quick & Easy connection technology for flexible setup.



Image 1: Overview of the Gardena Micro-Drip-System Starter Kit components.

2. SAFETY INSTRUCTIONS

Please read and understand all safety warnings before installing and operating the system.

- Always follow proper installation and handling instructions to prevent leaks and water damage.
- Keep the system components out of reach of children and pets.
- Do not connect the system to a water source without appropriate safety measures, such as a pressure reducer if your water pressure is too high.
- Always use the provided mounting tool for secure and leak-free connections.
- Ensure all connections are tight to prevent water wastage and potential damage.

3. PACKAGE CONTENTS

The Gardena Micro-Drip-System Starter Kit (Model 13016-20) typically includes the following main components:

- Supply Pipe (15 meters)
- Distribution Pipe
- Pressure-compensating Drippers (for up to 35 plants)
- Mounting Tool
- Connectors and End Caps
- Pipe Pegs for securing the pipes

The kit contains a total of 35 pieces for comprehensive irrigation.

4. SETUP

The Quick & Easy connection technology allows for flexible and straightforward installation.

1. **Plan Your Layout:** Determine the optimal path for the supply and distribution pipes to reach all plants requiring irrigation. Consider the spacing of your plants and their individual water needs.
2. **Connect to Water Source:** Attach the main supply pipe to your water tap. It is recommended to use a pressure reducer if your tap pressure is high to protect the system.
3. **Lay the Supply Pipe:** Run the main supply pipe along the edge of your bed or patch. Secure it to the ground using the provided pipe pegs at regular intervals.
4. **Attach Distribution Pipes:** Use the Quick & Easy connectors to branch off smaller distribution pipes from the main supply pipe towards individual plants or rows.
5. **Install Drippers:** Insert the pressure-compensating drippers into the distribution pipes near the base of each plant. The mounting tool will help create clean holes and secure connections.
6. **Seal Ends:** Use end caps to seal the open ends of all pipes to maintain system pressure.
7. **Test the System:** Slowly turn on the water supply and check for any leaks. Adjust connections as needed.

5. OPERATING

The Gardena Micro-Drip-System is designed for efficient and controlled watering.

- **Adjustable Flow Rate:** Each dripper in the kit is pressure-compensating and can be individually adjusted. This allows you to customize the water output for plants with varying water requirements. Rotate the dripper head to increase or decrease the flow.
- **Water Pressure:** The system operates on water pressure. Ensure your water source provides adequate pressure for optimal performance. If the pressure is too high, a pressure reducer is recommended.
- **Automatic Control (Optional):** For fully automated watering, the system can be connected to a Gardena Water Computer (sold separately). This allows you to set watering times and durations.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Micro-Drip-System.

- **Self-Cleaning Pipes:** The supply and distribution pipes feature internal labyrinth technology designed to

prevent clogging from sediment.

- **Dripper Cleaning:** Periodically check drippers for any blockages. If a dripper appears clogged, it can often be cleaned by gently flushing it or by removing and rinsing it under running water.
- **System Flush:** At the end of the watering season or if you notice reduced flow, remove the end caps and flush the entire system with water to clear any accumulated debris.
- **Winter Storage:** Before the first frost, drain all water from the system to prevent freezing damage. Disconnect the system from the water source and store components in a dry, frost-free location.

7. TROUBLESHOOTING

Common issues and their solutions:

Problem	Possible Cause	Solution
Leaks at connections	Loose connection, damaged O-ring, excessive water pressure.	Ensure connections are tight. Check O-rings for damage and replace if necessary. Install a pressure reducer if pressure is too high.
No water or low flow from drippers	Clogged dripper, kinked pipe, insufficient water pressure, closed valve.	Clean drippers. Straighten pipes. Check water source pressure. Ensure all valves are open. Flush the system.
Uneven watering	Drippers not adjusted correctly, pressure variations.	Individually adjust each dripper's flow rate. Ensure consistent water pressure throughout the system.

8. SPECIFICATIONS

Feature	Detail
Brand	Gardena
Model Number	13016-20
Model Name	Micro-Drip Automatic Drip Irrigation System for Beds
Product Dimensions (L x W x H)	43.5 x 11 x 44 cm
Weight	2.26 kilograms
Material	Plastic
Hose Length	15 meters
Number of Pieces	35
Irrigation Capacity	Up to 35 plants
Power Source	Water pressure
Special Feature	Quick & Easy connection technology, Adjustable flow, Self-cleaning
System Type	Modular

Feature	Detail
Control Type	Adjustable Control

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Gardena website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

Official Gardena Website: www.gardena.com