

# Clever watering systems.

Every drop counts.



[gardena.com](https://www.gardena.com)

## The simple way to your own watering system

### Would you like a convenient watering system in your garden?

- Information that will help you decide on the best solution.
- Arguments that make it easier to make your decision.
- Help with planning, from the sketch to the finished plan – do-it-yourself planning instructions. Step by step.

### Who and what else can help you

- GARDENA My Garden – the free online tool also offers automatic planning for sprinkler systems [www.gardena.com/mygar](https://www.gardena.com/mygar)
- The GARDENA customer service team will answer your questions or will refer you to the relevant planning installation service upon request.
- Videos on YouTube with informative films about our irrigation solution

### More about GARDENA

Would you like to know more about gardens and GARDENA? Just take a look in our other brochures, visit our website at [www.gardena.com](https://www.gardena.com) or subscribe to our free-of-charge newsletter.

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Every drop counts



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## Say goodbye to chores. Say hello to relaxing in your garden

Is this a familiar story? Do you often find that people tell you all about their garden and the huge amount of joy and relaxation it brings them?

This is what you dream of too: having a green oasis.  
But: You seem to spend all your time watering your garden.

We'll show you where and how automatic irrigation works and how easy it is to devise your own customised solution to absolve yourself of your watering duties. Regardless if it's watering your balcony, terrace or in different areas of your garden.



All thanks to intelligent irrigation solutions



## A beautiful lawn

A beautiful lawn can be quite challenging: It needs regular cutting, some fertiliser every now and then, and sufficient water. This goes without saying. Because obviously a lawn will not be healthy if you do not look after it, which means that sprinklers and lawnmowers play a vital role when it comes to tending your lawn. Good irrigation is the elixir of life for the lawn in hot summers. However, this means one thing for you: watering, watering and more watering. Unless, that is, you treat yourself and your light-seeking, sun-seeking grass to an automatic irrigation solution. Both of you will reap the benefits: you and your lawn.



## Healthy plants

If flowers could speak, they would ask for automatic irrigation. Hedges, vegetables or other plants would say the same. Why? Because semi-automatic or fully-automatic irrigation systems allow for the individual watering of plants that does not waste water and always dispenses the right amount of water right when the plants need it, and we mean always, even if nobody is there. Plants will only become vibrant and strong if they are looked after by gardening enthusiasts. But clever watering also plays a key role here.

## Conserving resources

Using water efficiently is not only great for the family coffers, but is particularly good for the environment. Therefore, it is worth taking a closer look at how we water our garden: When do I water it? How do I water it? Can I rely on rain or ground water? What changes can I make so that I can water my garden in a smarter way to reduce my water consumption? Using useful irrigation systems properly can help you to significantly reduce the amount of water you consume. Simply get your hands on whatever you need now to provide your garden with optimal irrigation solutions, and then make flexible changes to the system later should your needs change. Through the "Every Drop Counts" initiative, we are committing ourselves to saving water and to providing our gardens with sustainable solutions.



## More time to relax

Automatic irrigation will free up time to sit back and enjoy your garden in summer: If the system is well-planned and installed, you can relax as the water flows. Simply choose what's best for you, your garden and your needs. For example, for your flowerbeds or vegetable beds, for your lawn, terrace plants, or your balcony. It goes without saying that you can also combine various areas of your garden that need watering. The smart system app conveniently allows you to monitor and plan how your garden is watered – via your smartphone from any location. The GARDENA smart system is also compatible with some smart home systems, which can be used to control it. You can find an up-to-date overview on our website at [gardena.com/smart](http://gardena.com/smart). Smart systems are an even more convenient way of controlling irrigation.

# GARDENA irrigation solutions

At a glance



**1 WALLS**  
NatureUp! allows you to add some greenery to your walls, and then water your plants.  
**Page 10**

**2 COOLING MIST**  
Cool refreshment on hot days for balconies, terraces, sunshades or marquees.  
**Page 12**

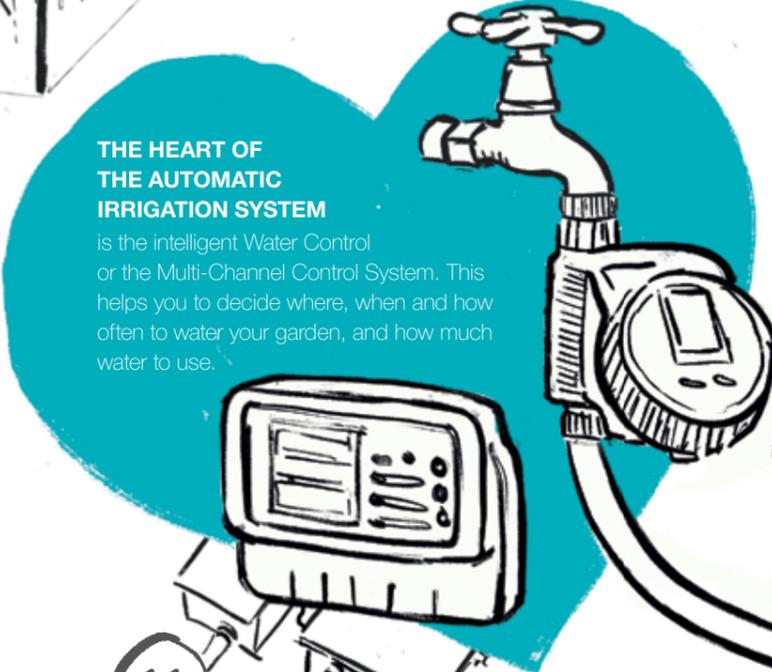


**8 LAWNS**  
Sprinklersystem irrigation: good for you and your lawn.  
**Page 28**

**WATER SUPPLIES: WHEREVER YOU WANT**  
Water supplies throughout the garden: thanks to the Pipeline.  
**Page 26**



**9 GARDENA SMART SYSTEM**  
Stay connected to your garden: even when you're on the go. Use your smartphone to check what's happening in your garden. Take action on the move. Start, control or stop mowing and irrigation.  
**Page 30**

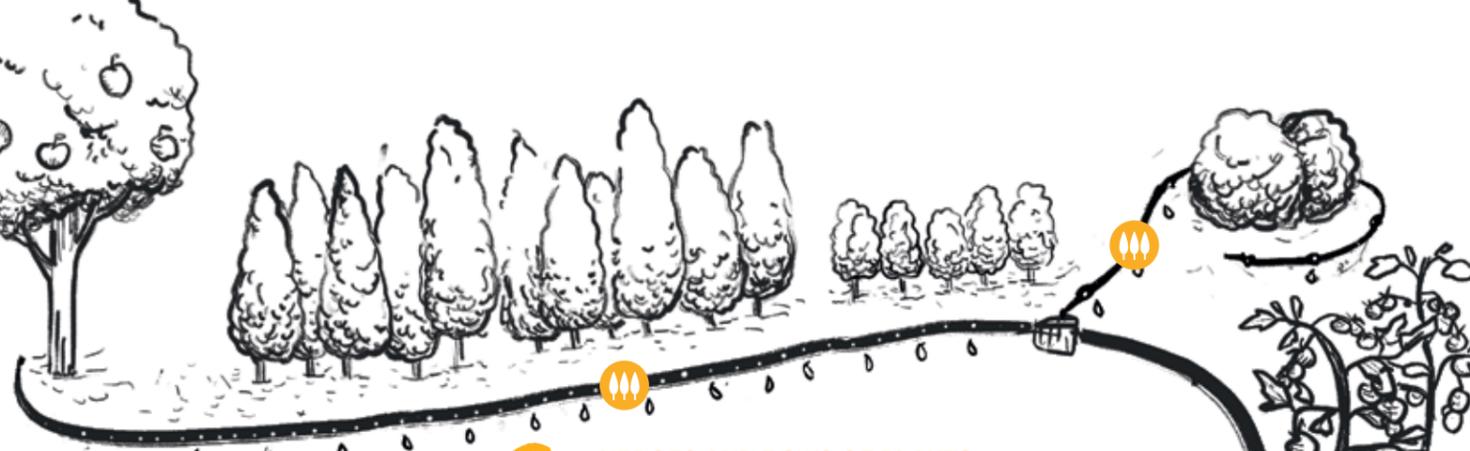


**THE HEART OF THE AUTOMATIC IRRIGATION SYSTEM**  
is the intelligent Water Control or the Multi-Channel Control System. This helps you to decide where, when and how often to water your garden, and how much water to use.

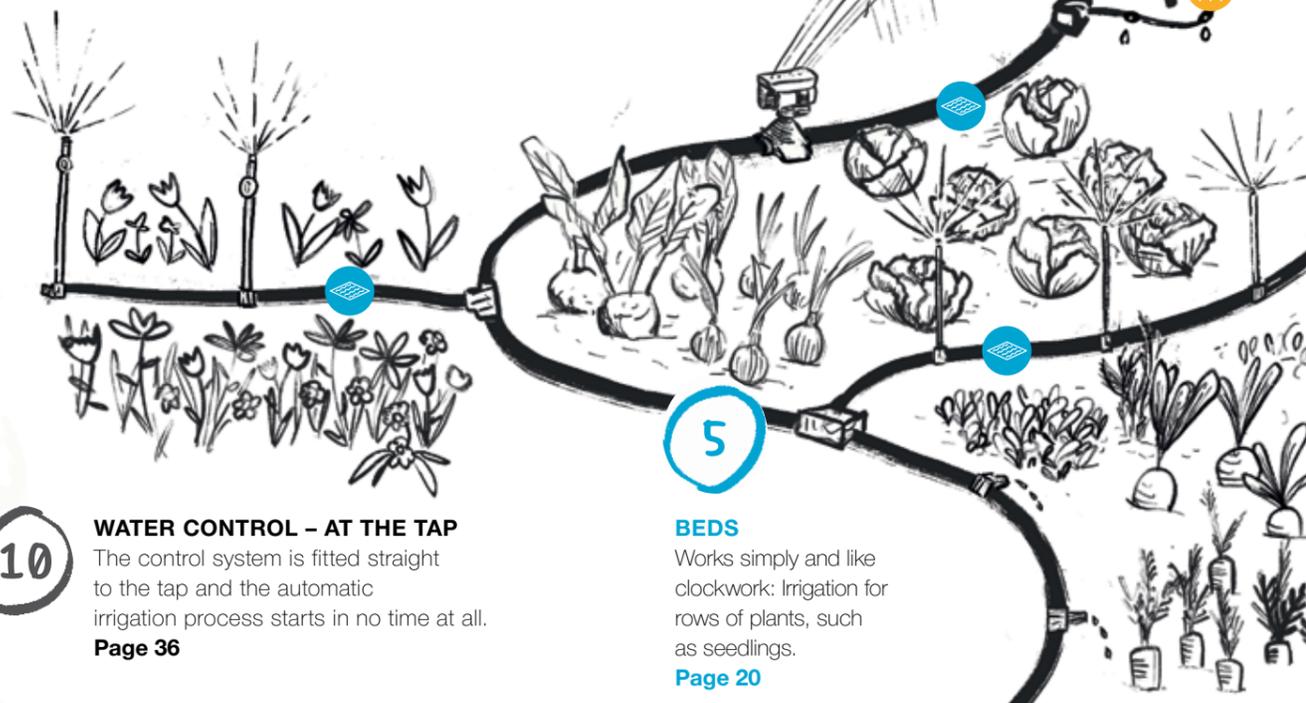
**11 MULTI-CHANNEL CONTROL SYSTEM - UNDERGROUND**  
As the pipework is placed underground, nothing will be visible above-ground.  
**Page 40**



**3 WATER YOUR PLANTS WITHOUT WATER OR POWER SUPPLY**  
The water is pumped from the bucket via pump.  
**Page 14**



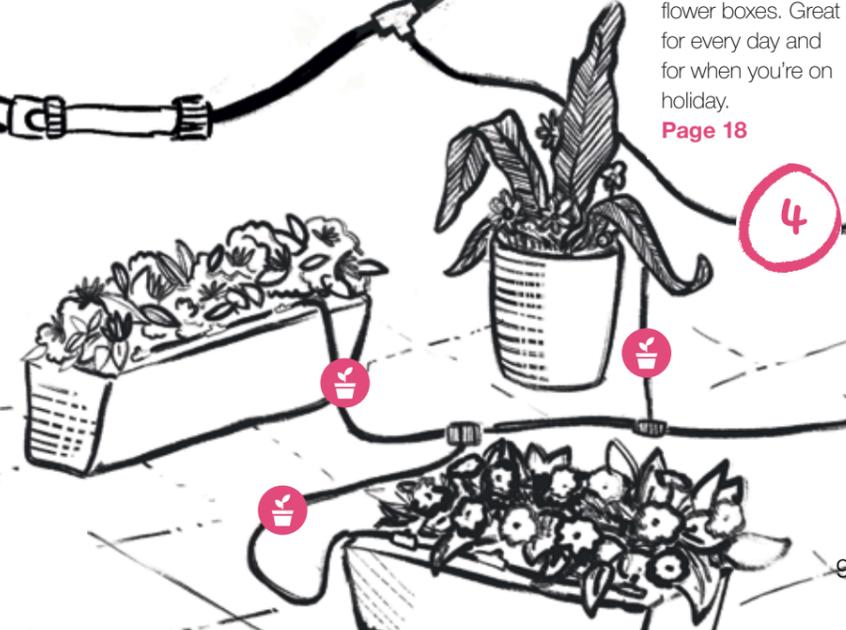
**6 HEDGES AND ROWS OF PLANTS**  
Always at the source: Drip irrigation lines provide a permanent water supply to hedges, borders or rows of plants.  
**Page 22**



**5 BEDS**  
Works simply and like clockwork: Irrigation for rows of plants, such as seedlings.  
**Page 20**

**10 WATER CONTROL - AT THE TAP**  
The control system is fitted straight to the tap and the automatic irrigation process starts in no time at all.  
**Page 36**

**TERRACES AND BALCONIES**  
Automatically water flower pots and flower boxes. Great for every day and for when you're on holiday.  
**Page 18**



**4**

# On the walls, get set, go!

## NatureUp! The vertical garden system

So beautiful! With NatureUp!, empty walls can finally be made lush and green. For effortless gardening. You can now plant areas, which up until now have so far been stark and bare. For example, you can plant flowers, herbs or vegetables. Vertical gardening is great fun for both young and old. You can watch your plants growing every day to create your own green oasis. And what about how these areas are watered? Irrigation is intelligent and entirely automatic, on request. With and without connecting to the water supply.



# NatureUp!

## In bloom and upwards

"Relaxing in the garden makes the soul soar," said Voltaire. NatureUp! allows you to grow plants up your wall, transforming space in front of your front door or French windows into an area where you can relax. Intelligent irrigation means you do not have to water.



### Space-saving and decorative

- Turns small areas into oases of well-being
- Adds a lot of greenery and a fresh design
- It is weatherproof
- Is a design feature for corners or side ends



### Clever irrigation

- Can be watered automatically
- With and without a water supply
- Prevents waterlogging thanks to the drip tray in the baseplate, walls and floors stay clean



### Simple assembly and modular design

- Tool-free and simple assembly; easy to put together
- Can be flexibly extended to the right, left, above and around corners
- As simple to hang on the wall as a picture



### The trick with the water

Each module is watered individually. Excess water flows into a drainage system and then into the lower drip tray, without coming into contact with the other plants. This is a rather clever feature should there happen to be any germs or pathogens.

Product overview see page

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# Like champagne in the air

## Outdoor Cooling Mist Set: cooling and refreshing

Keep cool and refreshed from on high when the mercury rises. The Outdoor Cooling Mist Set is quick to install. The finely atomised water mist is reminiscent of holidays. It reinvigorates you without soaking you. It acts like a balm on the skin and helps us slow our busy lives down. It works like a tonic, cools us down, and invigorates our spirits in the heat of summer.



# Outdoor Cooling Mist Set

Tingling freshness for hot summer days

## Where does it come into its own?

Wherever it gets hot and a gentle cooling mist becomes a blessed relief, such as on your balcony, terrace, under your pergola or gazebo etc.



## What do I need to do to get started?

The set contains everything you'll need. Easy to clamp on to your sunshade, or pergola etc., connect to a tap and you're done.



### Mounting clip for quick installation

This allows you to easily clamp the Cooling Mist Set wherever you need it. It is also really quick to change position.



### Mounting clip for fixed installation

Fixed installation allows you to use a screw to permanently attach the Cooling Mist Set.



### Control valve coupling

Connect easily to the hose.

## How does it work?

It uses a spray nozzle and a water stopper. The Outdoor Cooling Mist Set cools the temperature by up to 6 degrees.



## What does it look like?

The light grey of the hose blends in harmoniously with the architecture and design.



### city gardening Outdoor Cooling Mist Set

consists:  
10 m hose, 7 Micro Mist Nozzles (incl. 1 Micro Mist Nozzle with water stop), 13 fixing clamps, hose connector and Control valve coupling.

Product overview see page

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# Irrigation without water and power supply

## Holiday and Balcony Watering

With the GARDENA independent watering solutions, watering your plants indoor, on your balcony or terrace becomes a carefree task. Is it the case that you do not have a tap on your balcony or on your terrace? Or is it more that you do not want to connect to the water supply? In this case, there is both, a solution for indoor and outdoor plants. All you need is a power socket. Or is it the case that on your balcony or terrace there is no tap and no power socket? The new solar-powered AquaBloom nourishes your plants and flowers without a cable, a tap or a plug. It keeps as many as 20 balcony and terrace plants blooming when you're away. Plant care for when you're not there.

# Plant care for when you're not there.

Water flows even without a connected water supply

## Indoor



### Holiday Watering For up to 36 pot plants and indoor plants



- Irrigation is activated for one minute each daysely dosed irrigation.
- The accompanying hose brackets allow up to three drip irrigation lines to be fixed per pot.
- Additional parts are available on request from GARDENA Customer Service.

## Outdoor



### AquaBloom Set For up to 20 balcony and terrace plants



- No tap connection needed.
- No mains power needed.
- Solar-powered: tapless and plugless.
- 3in1 main unit (pump, control unit, solar panel).
- 14 pre-set irrigation programmes.



### Balcony Watering For flower boxes with a total length of 5–6 m



- The pump pumps the water from the container.
- The Water Control for the pump allows you to choose from 14 irrigation programmes.
- Inline Drip Heads supply water to your plants accurately and help to conserve water (2 l/hour).

Product overview  
see page

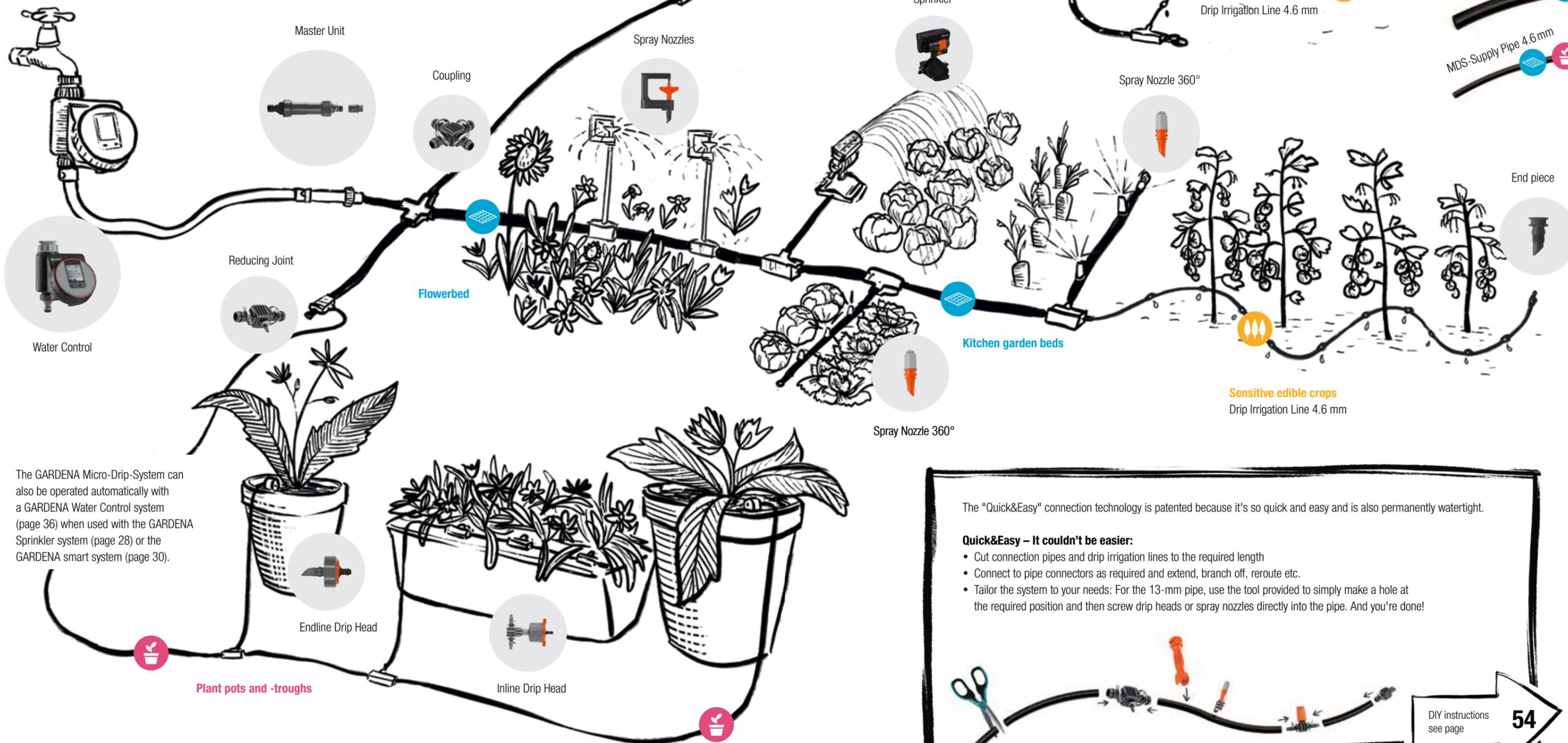
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# Overview of the Micro-Drip-System

And off you go!

From now on, the Micro-Drip-System can water your plants! The system is a modular, extendible system for water-saving, targeted irrigation of your garden, on the terrace or the balcony. Ideal for flower pots, troughs, vegetable patches and flower beds, as well as hedges and shrubs. The patented Quick&Easy connection technology ensures a durable, water-tight connection and enables the Micro-Drip-System to be quickly and easily installed and converted.

The Micro-Drip system can therefore be tailored to any garden or balcony. For drip heads, drip irrigation lines and spray nozzles, the Micro-Drip-System connection technology means that you can combine all system components.



**Tip**  
Use the colours to help you when making your purchase. The packaging is also labelled with pink, blue and yellow.

The GARDENA Micro-Drip-System can also be operated automatically with a GARDENA Water Control system (page 36) when used with the GARDENA Sprinkler system (page 28) or the GARDENA smart system (page 30).

The "Quick&Easy" connection technology is patented because it's so quick and easy and is also permanently watertight.

**Quick&Easy – It couldn't be easier:**

- Cut connection pipes and drip irrigation lines to the required length
- Connect to pipe connectors as required and extend, branch off, reroute etc.
- Tailor the system to your needs: For the 13-mm pipe, use the tool provided to simply make a hole at the required position and then screw drip heads or spray nozzles directly into the pipe. And you're done!

DIY instructions see page **54**

# How to free yourself from the burden of watering your garden

## Micro-Drip-System for flower pots

You might just have to get used to having free time first. However, the Micro-Drip-System is simply always on hand when it comes to reliably watering geraniums, verbenas, petunias, herbs and all the other plants around the home. Ultimately, the growing and flowering season extends from spring into autumn. The Micro-Drip-System is as simple as it is ingenious.



# The best time to let something else do the hard work is now!

Drip heads are ideal for watering flower pots and plants on your balcony. Endline drip heads are suitable for watering individual standing flower pots. If you are planting plant troughs or flower boxes, then use inline drip heads. Simply come up with your individual solution.

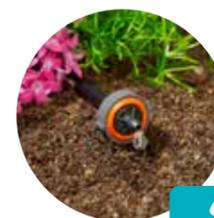


## Features of drip heads



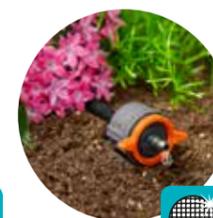
0-10l/h

**Ideal water supply**  
Either constant or adjustable water flow.



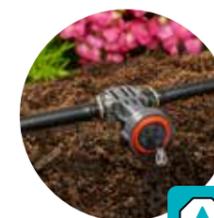
Reliable water supply

**Reliable water supply**  
Constant water flow across the entire system. Thanks to pressure equalisation in the drip heads. Where there is a longer row of plants or water needs to reach a second row of highly-positioned balcony boxes, it guarantees that all plants are consistently watered.



self clean

**No calcification**  
Self cleaning – a labyrinth technology in the drip head prevents limescale.



auto stop

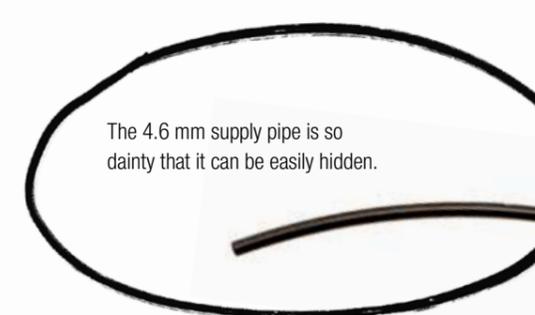
**Efficient solution**  
Saves water, because the drip head self-closes when the power is turned off and does not leak afterwards.

## Types of drip heads

**Inline Drip Head**  
Fitted between the pipeline. They are particularly suited to plant troughs and flower boxes.



**Endline Drip Head**  
Fitted to the end of the pipe. They are particularly suited to watering individual plants. Endline Drip Heads can also be inserted directly into the MDS-Connecting Pipe 13 mm.



The 4.6 mm supply pipe is so dainty that it can be easily hidden.



# Spray nozzles instead of watering can

Micro-Drip-System for planted areas

Young plants need care and delicate watering if you want them to flourish. But the Micro-Drip-System garden irrigation is also suitable for rows of vegetables and flower beds. You can leave the drip hose lying loose on the ground, or use a pipe clip to secure it to the ground. As a result of individual irrigation by means of drip heads and spray nozzles, your plants will have the best conditions in which to flourish well.

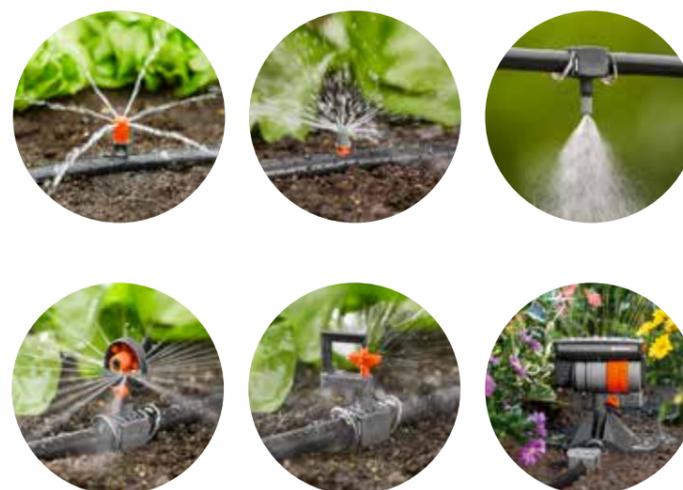


## Individually water planted areas

The Micro-Drip-System provides a host of options for areas in your garden: You can combine different spray nozzles or use the oscillating sprinkler to water larger sections. The system offers great freedom in combining the ideal irrigation system.

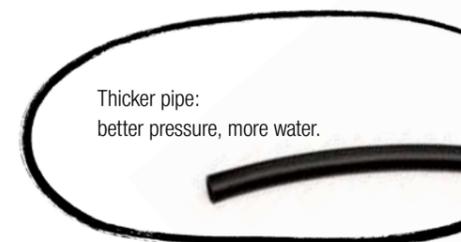
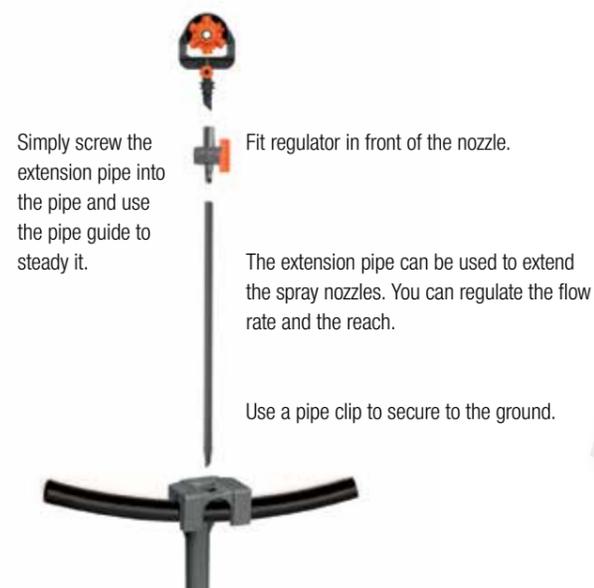


### Spray nozzles



You choose: Combine different nozzles and sprinklers for planted areas. Depending on the objective in your plan and on what are your plants' needs, you can come up with the ideal customised system: from watering smaller sections, to the 360-degree solution with a large watering radius, through to small surfaces or mist nozzle, everything is possible and all elements can be used in conjunction with each other.

### Extending and regulating



Product overview see page **47**

# A whole row of benefits

## Micro-Drip-System for rows of plants

You do not need to be brave. You just need to be motivated to give this type of irrigation a try. You'll be amazed! Simply pick up the drip irrigation line, guide it along your hedge, shrub beds and flowerbeds, and the technicalities of watering your garden is in safe hands. This is because the drip irrigation line dispenses fine drops of water to the plants via fixed drip heads, thus saving on water. 30 cm apart. This is effective and does the plants good. Virtually no planning effort is required – you simply start the system up and while your plants are gently being cared for, you can do what you love.



# Wellness for you and for your garden

It is important to keep the root balls moist right after planting. And these "green walls" do not stop needing water later either. Decide whether you want to lay the drip irrigation line above or below ground. Either option works. The Micro-Drip-System provides continuous, regulated and efficient irrigation. Plants thrive particularly well, as the drip irrigation lines water the soil right at the plants and roots.

## Above-ground for small hedges or borders

**4,6 mm (3/16") drip irrigation line for small hedges or sensitive vegetables and ornamental plants**

Max. pipe length: 30 m.\*  
You can add extra branches and extensions.



4,6 mm  
3/16"



## Above-ground for hedges

**13 mm (1/2") drip irrigation line for hedges and plants at the edge of the garden**

Max. pipe length: 100 m.\*  
You can add extra branches and extensions.



13 mm  
1/2"



## Underground for hedges or borders

**13,7 mm drip irrigation line for hedges or borders**

Max. pipe length: up to 200 m.\*  
Laid depth in planting area approx. 20 cm.  
Can also be used above-ground.



13,7 mm



## Above-ground for hedges or borders with Endline Drip Heads

**MDS-Connecting Pipe 13 mm for hedges and borders**

This allows you to turn the Endline Drip Head directly into the Connecting Pipe at irregular intervals to water the plant directly.



13 mm  
1/2"



Product overview  
see page

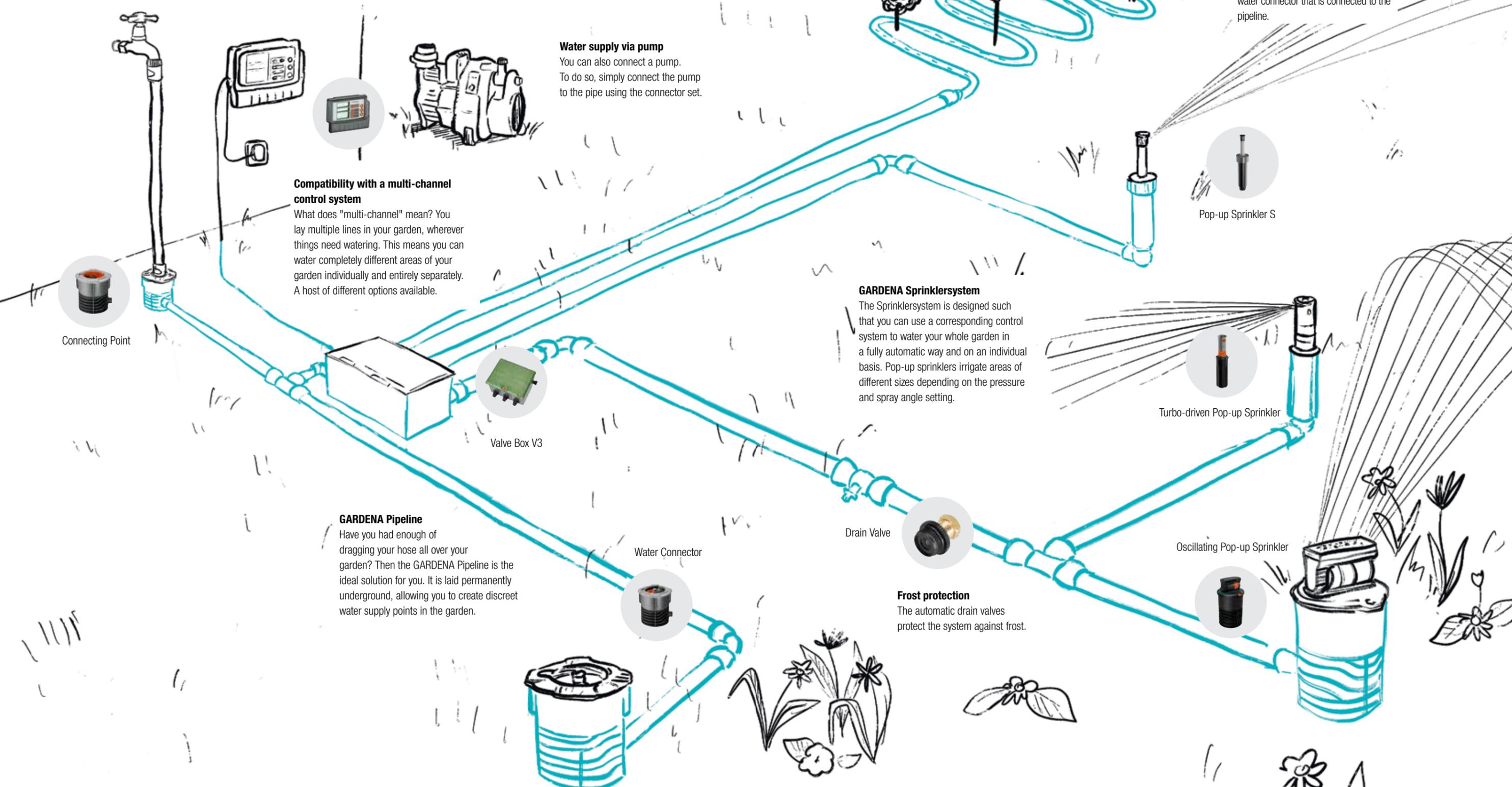
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# Overview Pipeline and Sprinklersystem

● above-ground

● underground

Your goal is clear: intelligent irrigation! Here you will find everything you need: The GARDENA Pipeline, which makes water available underground throughout. And the Sprinklersystem, which waters your garden and your lawn the easy way. You can also add the Micro-Drip-System, all of which will allow you to enjoy your new-found freedom from having to water your garden.



### Compatibility with a multi-channel control system

What does "multi-channel" mean? You lay multiple lines in your garden, wherever things need watering. This means you can water completely different areas of your garden individually and entirely separately. A host of different options available.

### Water supply via pump

You can also connect a pump. To do so, simply connect the pump to the pipe using the connector set.

### GARDENA Sprinklersystem

The Sprinklersystem is designed such that you can use a corresponding control system to water your whole garden in a fully automatic way and on an individual basis. Pop-up sprinklers irrigate areas of different sizes depending on the pressure and spray angle setting.

### Compatibility with a MDS

Need to use the Micro-Drip-System but no tap is nearby? Then the pipeline is the perfect solution. You then simply connect your Micro-Drip-System to the water connector that is connected to the pipeline.

Connecting Point

Valve Box V3

Water Connector

Drain Valve

Pop-up Sprinkler S

Turbo-driven Pop-up Sprinkler

Oscillating Pop-up Sprinkler

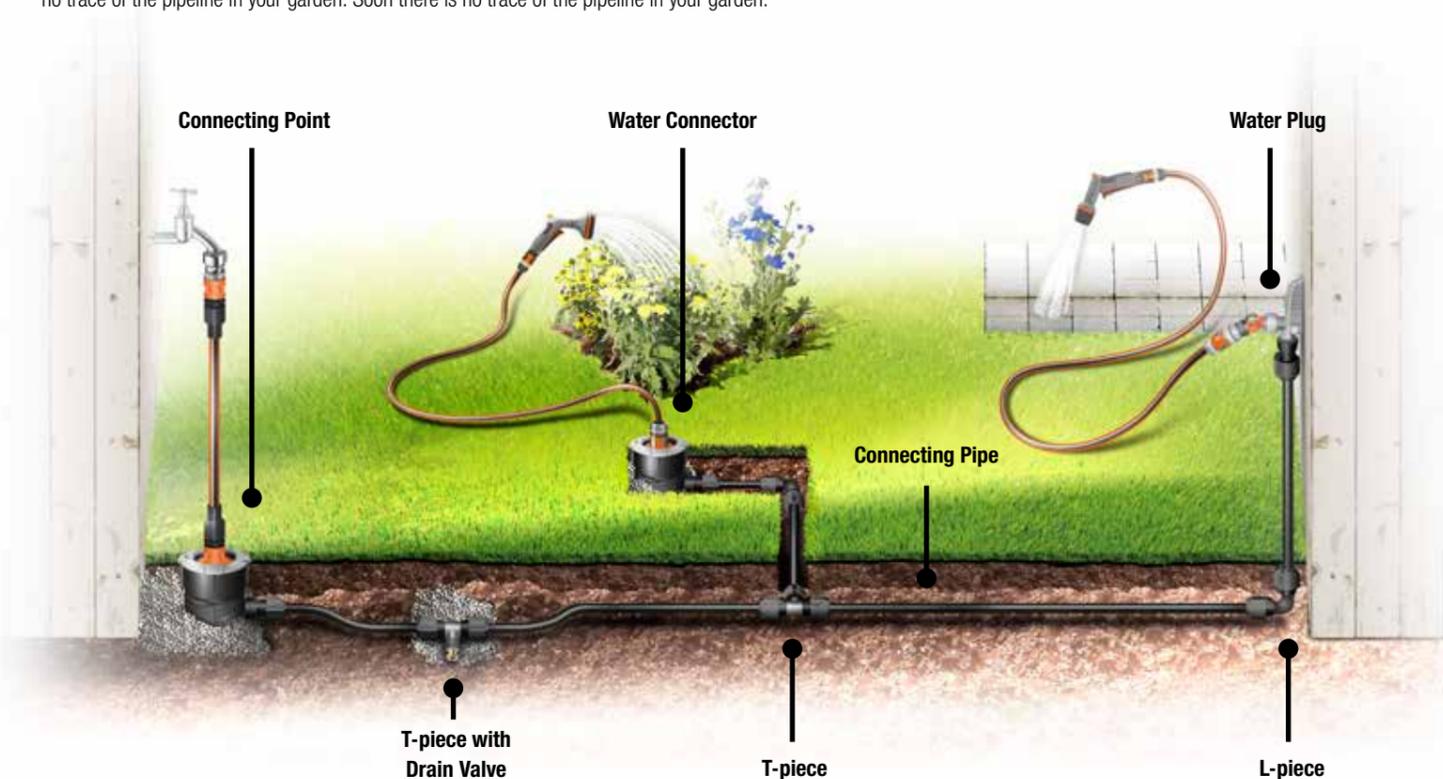
# The ideal: Water throughout

The solution: Pipeline with system

The GARDENA Pipeline delivers water to every corner of your garden. It allows you to position a connection to the water supply wherever you need one. Simply use GARDENA Water Connectors. From here you can simply connect the hose. And you now have a connection to the water supply on site.

## Invisible, underground installation

GARDENA Pipelines are installed below ground to transport water to parts of the garden that require water. A Water Connector is installed at important watering points in the garden. Connect the hose and devices such as a spray lance, spray gun, sprinkler, garden shower or Micro-Drip-System to the socket and draw water. No metres of hose lying around, no obstructions and no pressure marks in the lawn. It's like taking electricity from the mains, but it's water! There is soon no trace of the pipeline in your garden. Soon there is no trace of the pipeline in your garden.



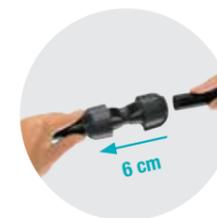
### Connecting Point

The connecting point is the practical system start for the pipeline and Sprinklersystem. It connects the tap to the below-ground GARDENA Sprinklersystem, or to the GARDENA Pipeline.



### Drain Valve

Winter frost? No problem! The automatic drain valves protect the system against frost.



### Connection technology

The patented "Quick& Easy" simple connection technology enables you to connect GARDENA Pipelines securely together in no time at all. All GARDENA Pipelines and connecting parts can also be used for the GARDENA Sprinklersystem.



### Water Connector

Water on tap: The water connectors turn this dream into a reality. Simply plug in the hose and go. The water connector is installed underground and supplied with water via GARDENA Connecting Pipes. Do you want to add to the GARDENA Micro-Drip-System or connect a mobile sprinkler? No problem thanks to the water connector!



### Water Plug

The water plug is used as an above-ground water retrieval point. You can attach it to the wall, such as to the garden shed, or to the ground using a spike. This means the water connector practically replaces the tap.

Product overview  
see page

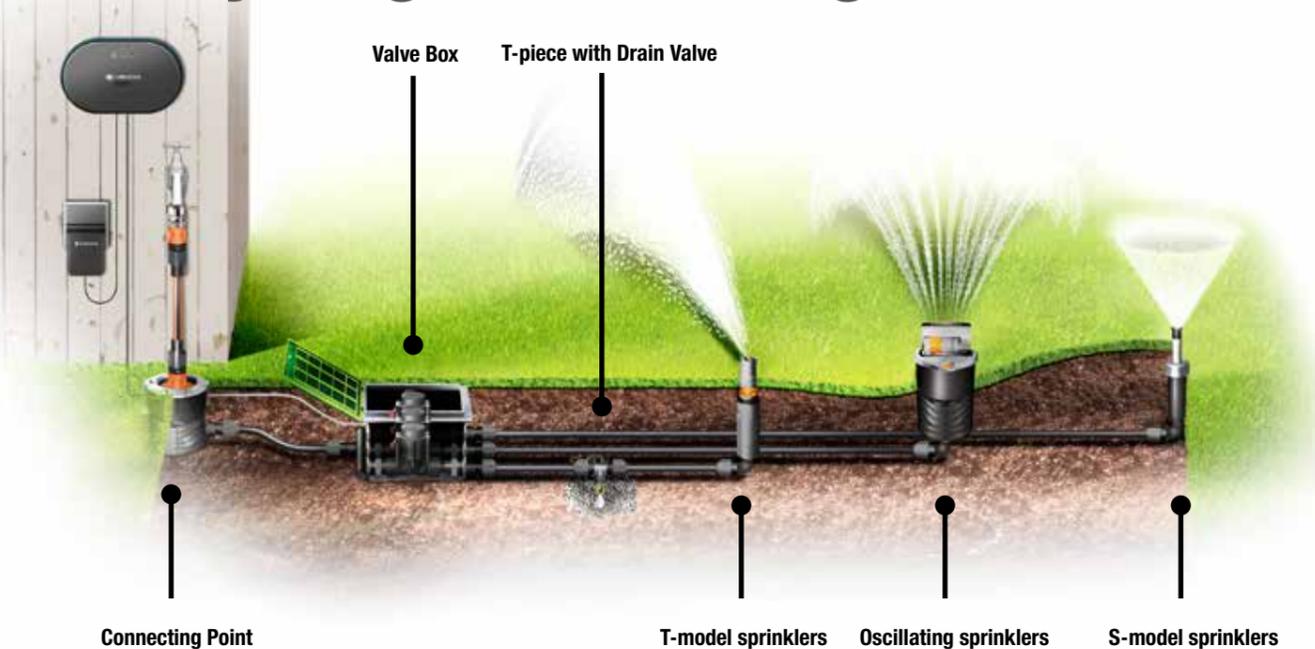
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# Sprinkling out of the ground. An underground success

## Sprinklersystem

Unobtrusive pop-up sprinklers installed underground water the lawn and other areas of your garden. They disappear back into the ground once they have done their work. The GARDENA Sprinklersystem can be customised to suit individual needs.

# As if by magic: It's raining from below



### OS 140 Oscillating Sprinkler

Ideal for watering square and rectangular areas. Ideal for watering even the smallest areas and narrow areas of your garden.



### T-Sprinklers

For medium-sized lawns up to 380 m<sup>2</sup>. An ideal partner for other turbo-driven pop-up sprinklers or oscillating sprinklers. For narrow irrigation areas through to 360°.



### S-Sprinklers

For smaller lawns up to 80 m<sup>2</sup>. Can be used with other S-model pop-up sprinklers within a pipeline. For narrow irrigation areas through to 360°.



### Connecting Point

Connects the water tap to the below-ground GARDENA Sprinklersystem or to the GARDENA Pipeline.



### Valve Box

For ease of assembly and to enable irrigation valves to be installed underground.



### Drain valve

Winter frost? No problem! The automatic drain valves protect the system against frost.



### Connection technology

Can be assembled in no time thanks to patented Quick&Easy quick connection technology. With the new Flexible Connection, the sprinklers can be adjusted easier and stay flexible in case of ground submergence.

## Tip

Here you can find tips for useful planning and do-it-yourself projects:

### Do it yourself

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### GARDENA Irrigation Planner

„My Garden“ on [www.gardena.com/mygarden](http://www.gardena.com/mygarden)

### Service

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Product overview  
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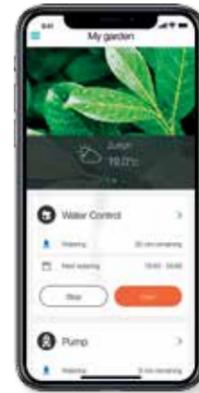
# Never leave your garden behind

GARDENA smart system

Your smartphone gives you complete control: Because the GARDENA smart App allows you to access your permanently installed automatic irrigation system whilst you are out and about. It goes without saying that you can also control your robotic lawnmower or, if you wish, outdoor lighting. This is progress when it comes to always being connected to your garden and being able to respond when you need to.



# GARDENA smart system



To establish the connection to the smart system, you need the GARDENA smart App and the smart Gateway



### GARDENA smart App

Your entire garden is always at your fingertips with the free GARDENA smart App. Mowing the lawn and watering has never been so convenient. Even lights or other electrical devices in the garden are now easy to control.



### smart Gateway

Connecting your GARDENA smart App to your smart garden, via your home WiFi or LAN cable.



## Start with the application of your choice



### smart Water Control – at the tap

Water a single garden area with tap water. The smart Water Control lets you remotely control your garden taps for perfect results – simply controlled via the GARDENA smart App.

Using it with a smart Sensor, you can save water and ensure the right level of watering.



### smart Irrigation Control – permanently installed and underground

Effortlessly water multiple areas of your garden with an underground irrigation system. The smart Irrigation Control manages up to six irrigation valves – each of which can be independently controlled via the GARDENA smart App.

Using it with one or more smart Sensors, you can save water and ensure the right level of watering.



### smart Robotic Lawnmowers

Mow the lawn automatically the smart way. With the GARDENA smart App, you can control your smart SILENO Robotic Lawnmower to achieve a carpet-like cut for all lawn sizes up to 2,000 m<sup>2</sup>. It's like you are in the garden 24/7.



### smart Power Adapter

Plug any electrical device into the GARDENA smart Power Adapter, e.g. your lights or fountain pumps and switch them on or off whenever you want, wherever you are via the GARDENA smart App. Keep your garden looking smart day and night.



### smart Pump

Use rain water for your domestic needs with the smart Automatic Home & Garden Pump. Controlled via the GARDENA smart App, you can water your garden based on pre-set schedules, or even provide water to your toilet and washing machine.

Using it with a smart Sensor, you can save water and ensure the right level of watering.

## Explore the key features of the GARDENA smart App



### EasyApp Control

Easy way to control your watering with the GARDENA smart App from anywhere. Take care of your garden wherever you are.



### Auto Schedule

The GARDENA smart App helps you with a scheduling assistant to keep your garden just right.



### Sensor Control

The smart Sensor tracks temperature and soil moisture in your garden to optimise the irrigation and save water.



### EasyConfig

Easy and guided set up. GARDENA smart App provides step-by-step guidance for setting up your own smart system. With clear illustrations, tips and helpful wizards to create watering and mowing schedules.



### Plant Library

Discover everything you need to know about plants, from when they bloom to the climate they thrive in.



### SmartHome

Integrate smart garden devices into your Apple HomeKit or control them by voice using Amazon Alexa.



### Weather Forecast

Rain is coming? The GARDENA smart App adapts your schedules based on weather data.

# The smart system stars

Use the GARDENA smart App to control what happens in your garden

You can find out more about the GARDENA smart system at [www.gardena.com/smart](http://www.gardena.com/smart)



## Why use the GARDENA smart App?

- Intelligent – the GARDENA smart App provides intelligent irrigation, frees you up to do other things and does your garden good.
- Relaxed – you will be instantly absolved of all watering duties!
- Reliable – the wizard guides you step-by-step to the best watering programme.
- Environmental – your plants are always provided with the ideal water supply that they need to thrive.
- Economical! – you save on water and therefore on costs.



## smart Water Control

### What for

- For small gardens
- For one irrigation area

### How:

- Connected directly to the tap
- GARDENA smart App helps to save water, because it will never over-water
- Can be used with a smart Sensor
- Manually switch on/off directly at the Water Control



## smart Irrigation Control

### What for

- For diversified gardens with different irrigation areas and tasks
- For up to six completely independent irrigation zones

### How:

- Controls an underground, permanently installed irrigation system with 24 V valves in a simple, flexible and clear way
- Usefully combines systems such as Micro-Drip-System and Sprinklersystem
- Can be used with up to six smart Sensors



## smart Sensor

### What for

- Measures temperature and soil moisture exactly where it matters most: near the root of the plant

### How:

- Planted beside the plants in the soil
- Shows the measured values from your own garden via the GARDENA smart App
- The app uses the measured values, together with other parameters, to control irrigation using smart Water Control or Irrigation Control
- Saves water, as the plants are only watered when they really need it



## smart Home and Garden Pump

### What for

- Can be used as a time-controlled garden pump with individual watering times
- For service water supply in the house, such as to flush toilets or for the washing machine

### How:

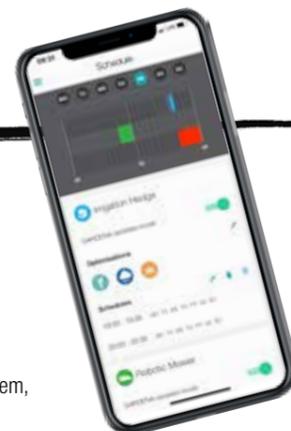
- Integrated Water Control for time-controlled garden irrigation
- Quickly and quietly discharges up to 5000 litres per hour. Sends information about the pressure, flow rate or any faults via the GARDENA smart App
- Explains how to troubleshoot any faults
- Can be left in the garden regardless of the weather conditions
- Can be used with a smart Sensor

## Tips and tricks

### You already have an irrigation system?

The smart irrigation Control also quite simply turns existing (older) irrigation systems into a smart system:

- Simply swap the existing Irrigation Control for the smart Irrigation Control and smart Gateway
- Works with virtually all standard 24 V irrigation valves, and not just GARDENA ones
- This means you can also very simply integrate irrigation systems from other brands into the GARDENA smart system, where they can be smart controlled



## Tips and tricks

The GARDENA smart system offers much more than just smart products for irrigation and lawn care: The GARDENA smart App is constantly being further developed and helps provide the garden with an optimal supply of water, such as by means of a library of plants containing more than 2000 plants, by taking data about the weather and from sensors into account during the watering process, or by providing helpful tips about the garden.

# Overview

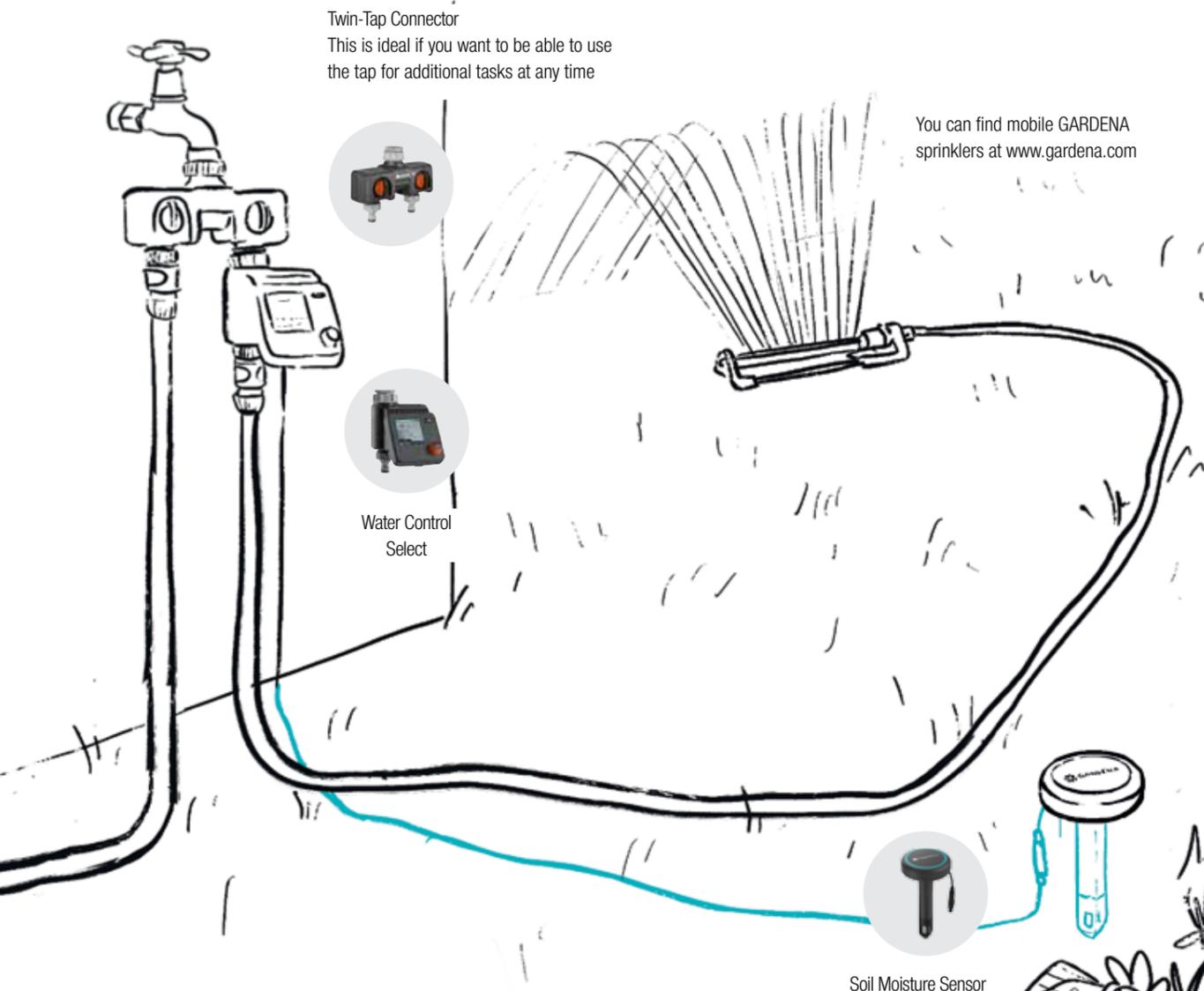
## Automatic control

Automatic garden irrigation provides the ideal solution when it comes to providing your garden with a reliable supply of water. The automatic control system is at the heart of this process. How so? Because the automatic control system controls the irrigation functions in the garden. You have two options: the above-ground water control or the underground multi-channel control system.

### Water Control – at the water tap

**The benefit:** is that it's all very simple. You fit the control system straight to a tap and the automatic irrigation process starts in no time at all.

If you wish to water a specific area of your garden, simply connect a GARDENA Micro-Drip-System or your mobile sprinkler to a Water Control system. The water starts to flow, fully automatically, according to your time settings.



Enhance your automatic irrigation system with our Bluetooth® devices to control your garden via app from up to 10 m.

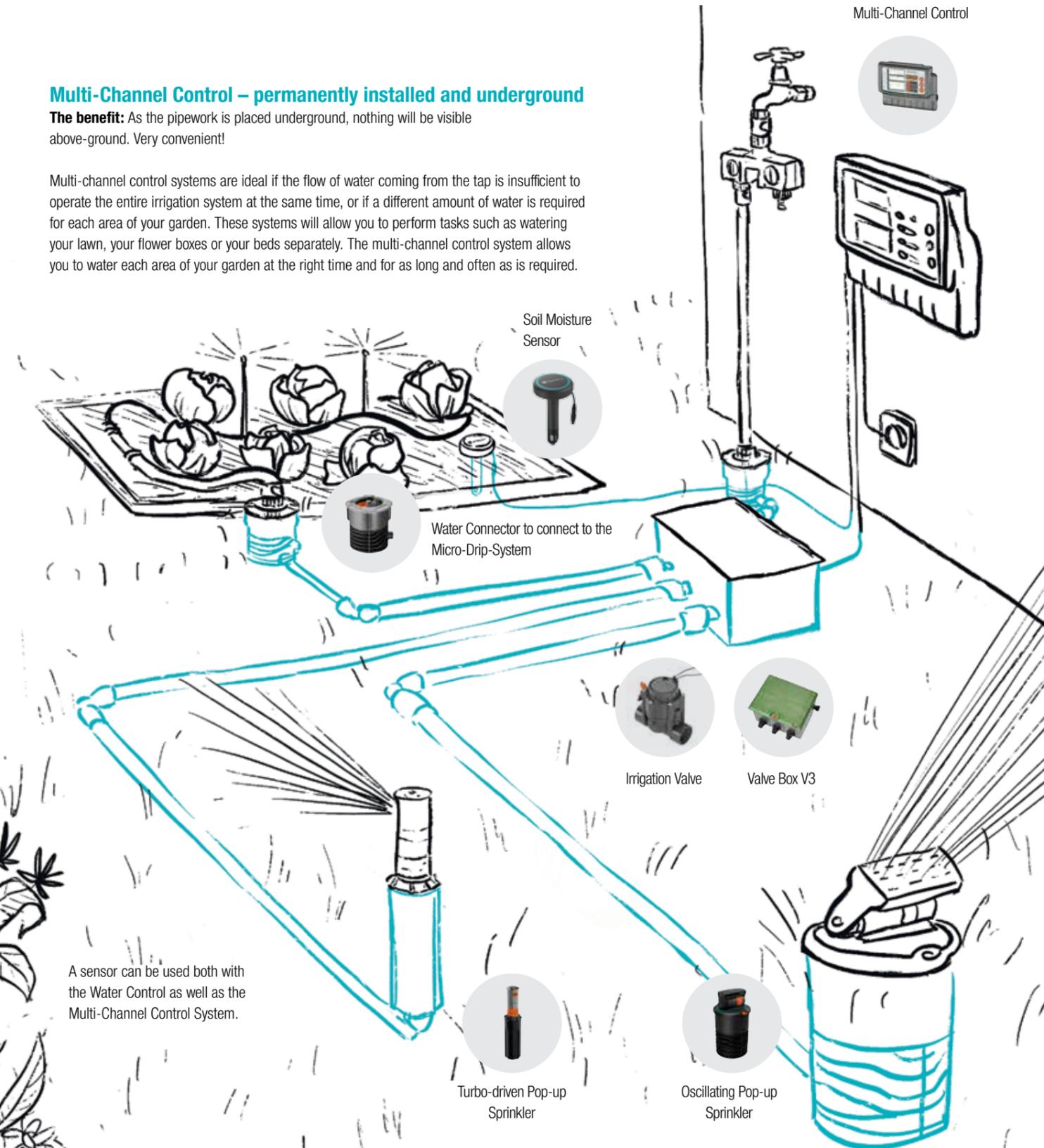


To unleash the full potential of an intelligent automated garden combine your irrigation system with our GARDENA smart system and control your irrigation system from anywhere.

### Multi-Channel Control – permanently installed and underground

**The benefit:** As the pipework is placed underground, nothing will be visible above-ground. Very convenient!

Multi-channel control systems are ideal if the flow of water coming from the tap is insufficient to operate the entire irrigation system at the same time, or if a different amount of water is required for each area of your garden. These systems will allow you to perform tasks such as watering your lawn, your flower boxes or your beds separately. The multi-channel control system allows you to water each area of your garden at the right time and for as long and often as is required.



# Who controls the watering?

## The GARDENA Water Control

Your garden still needs water when you are away or asleep. Even then your plants are perfectly irrigated thanks to the GARDENA Water Controls that are directly connected to the tap.

You simply have to decide where, when, how long and how often you want to water your garden. Then the water control takes over control for you. The Water Control can be used to control sprinklers, a Micro-Drip-System or a small Sprinklersystem.



# Your watering aid

The good news: there are different models to suit every need. Plants in smaller pots need watering more frequently, using small amounts of water. Lawns, on the other hand, should be watered less often, but need the water to penetrate the ground, allowing the roots to grow deep. The Water Control takes charge of coordinating the different requirements.

## Water Control Bluetooth®

The new app configurable Water Control

New



With the GARDENA Bluetooth® App you can take care of your garden from up to 10 m.

### SAFE STOP

100% reliable watering at any time: No start of irrigation when battery is too low to stop again



0.5-12 BAR

### STATUS LEDS

- Bluetooth®
- Battery
- Watering

### WATER NOW!

Button for manual watering

### BATTERY 9V

Lasts 1 year (not included)

### CONNECTION FOR GARDENA SOIL MOISTURE SENSOR

Art. No. 1867 to save even more water



### EasyApp Control

Easy way to control your watering with the GARDENA Bluetooth® App from up to 10 m.



### Auto Schedule

The GARDENA Bluetooth® App helps you with a scheduling assistant to keep your garden just right.



### EasyConfig

Easy and guided set up. The GARDENA Bluetooth® App provides step-by-step guidance for setting up and configuring your Bluetooth® device.



### Bluetooth® Connection

Simply pick up your smartphone, open the GARDENA Bluetooth® App and you're ready to go with zero fuss.

# GARDENA Water Controls

## Product comparison

### Flex

#### Balcony & terraces | micro irrigation



#### Application

- For watering plant pots/balcony plants
- Very short watering durations and high irrigation frequencies can be set (up to every four hours)
- Ideal when used with the GARDENA Micro-Drip-System

Irrigation schedules	1
Start	flexible
Duration	1 sec.–99 min.
Frequency	every 4/6/8/12/24/48/72 hours
Days of the week selectable	–
Watering cycles per day	up to 6 (every 4 hours)
Water-saving option	• with Soil Moisture Sensor
Manual watering	•
Art. No.	1890

### Master

#### 6 schedules | most flexible settings | up to 6 areas



#### Application

- To automatically water a larger area in your garden with maximum timing flexibility
- Six individual irrigation schedules consisting of start time, duration and day of the week
- Water up to six irrigation zones when used with the ● Water Distributor automatic
- Ideal when used with sprinklers or Micro-Drip-System

Irrigation schedules	6
Start	flexible per schedule
Duration	1 sec.–4 hrs. per schedule
Frequency	days of the week
Days of the week selectable	• per schedule
Watering cycles per day	up to 6
Water-saving option	• with Soil Moisture Sensor
Manual watering	•
Art. No.	1892

### Select

#### 3 schedules | all garden areas



#### Application

- For convenient and flexible irrigation
- Three individual irrigation schedules consisting of start time, duration and days of the week – ideal for pre-watering soil, for example
- Ideal when used with sprinklers or Micro-Drip-System

Irrigation schedules	3
Start	flexible per schedule
Duration	1 min.–7 hrs. 59 min. per schedule
Frequency	days of the week per schedule
Days of the week selectable	• per schedule
Watering cycles per day	up to 3
Water-saving option	• with Soil Moisture Sensor
Manual watering	•
Art. No.	1891

### smart Water Control

#### Control via GARDENA smart App



#### smart Water Control

Irrigation times can be flexibly set and adjusted as required at any time using the GARDENA smart App.

For more information on the GARDENA smart system, turn to page 30.

Irrigation schedules	freely selectable
Start	flexible per schedule
Duration	1 sec.–10 hrs.
Frequency	Days of the week
Days of the week selectable	•
Watering cycles per day	individually
Water-saving option	• with smart Sensor
Manual watering	•
Art. No.	19031 or available in smart system Sets



### Bluetooth®

#### Control via GARDENA Bluetooth® App | all garden areas



New

#### Application

- For convenient and flexible irrigation through App configuration
- Three individual irrigation schedules
- Ideal when used with sprinklers or Micro-Drip-System

#### App Benefits



Irrigation schedules	3
Start	flexible per schedule
Duration	1 min.–8 hrs. per schedule
Frequency	days of the week per schedule
Days of the week selectable	• per schedule
Watering cycles per day	up to 3
Water-saving option	• with Soil Moisture Sensor
Manual watering	•
Art. No.	1889

### Extensions



New

#### Soil Moisture Sensor

Measures and skips scheduled watering cycles when a preset moisture level is reached. For optimized water saving irrigation when connected to a GARDENA Water Control.

Art. No. 1867



New

#### smart Sensor

Detects soil moisture and outside temperature and transmits this information to the GARDENA smart App. Can be used with the smart Water Control, the smart Irrigation Control and the smart Home & Garden Pump.

Art. No. 19040



### MultiControl duo

#### Up to two areas



#### Application

- To water two areas separately
- For example, the lawn behind the house and the flower beds in front of it

Irrigation schedules	2 x 1
Start	flexible per outlet
Duration	1 min.–3 hrs. 59 min. per outlet
Frequency	Free selection of watering days or in cycles 8h/12h/24h every 2nd/3rd/7th day
Days of the week selectable	• per schedule
Watering cycles per day	up to 3 (every 8 hours)
Water-saving option	• with Soil Moisture Sensor
Manual watering	•
Art. No.	1874



#### Water Distributor automatic – for 2–6 areas of the garden ●

Makes a perfect match with Water Control Master. Comes with several irrigation lines, such as for GARDENA sprinklers, Micro-Drip-System or Sprinklersystem. Each line can be activated from the model Master once a day. Ideal for planted areas that require different amounts of water or if the water pressure is too low for simultaneous irrigation.

Art. No. 1197

# Put an end to watering. Your garden can do that itself

With the Multi-Channel Control for the versatile garden

This allows you to water different areas independently, such as the lawn, the flower boxes on the patio or the flowerbeds. If the water quantity of the tap is not sufficient to operate the entire irrigation system at the same time, you should divide the system into multiple irrigation channels. A Multi-Channel Control System ensures that each separate area of your garden is supplied with the correct amount of water at the right time. Sit back, relax and let the Multi-Channel Control do the thinking and watering for you.



## Make the most of every opportunity

Installing a multi-channel solution, such as when planting a new plot or when making things easier for you in an existing garden, helps you to create a host of irrigation options for different areas in your garden. It makes no difference whether you use them now or add them later. The irrigation control system can be used individually and can be expanded if necessary.

### Electricity supply available



This is how you control your entire irrigation system from a central location in your garden: The 24 V Irrigation Valves **2** in the Valve Box **3** get signals over the Connection Cables **4** to open and close the water flow from the GARDENA Irrigation Control System **1**. You can control up to 6 Irrigation Valves and the corresponding number of channels fully automatically. A Soil Moisture Sensor **5** can be connected as an option.



### No electricity supply available



Thus you can control any number of irrigation channels app configured, automatically and wireless with the GARDENA Bluetooth® App **1**: Just enter the data and transmit them via the App to the Irrigation Valve. The Irrigation Valve 9 V Bluetooth® **2** fits into a GARDENA Valve Box **3**. A Soil Moisture Sensor **4** can be connected to the Controller as an option. Battery operation makes GARDENA Irrigation Valves independent from the power supply. You can install the valve boxes anywhere in the garden.



EasyApp Control



Auto Schedule



EasyConfig



Bluetooth®  
Connection

Product overview  
see page

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# Product overview

## NatureUp!

 						
	<b>NatureUp! Vertical Basic Set</b>	<b>NatureUp! Corner Basic Set</b>	<b>NatureUp! Vertical Wall Bracket</b>	<b>NatureUp! Corner Wall Bracket</b>	<b>NatureUp! Connection Clip</b>	<b>NatureUp! Fastener</b>
Contents	3 vertical planters, 3 covers, 1 base plate, 12 clips	3 corner planters, 3 covers, 1 base plate, 6 clips, 2 fasteners, 16 steel nails	1 wall bracket, 2 screws, 2 wall plugs, 4 fasteners, 16 hardened steel nails	2 special base plates, 3 clips, 8 fasteners, 32 hardened steel nails	8 clips	4 fasteners with premium double-sided tape, 16 hardened steel nails
Art. No.	13150	13153	13162	13163	13164	13166

## Outdoor Cooling Mist Set

	 	
	<b>city gardening Outdoor Cooling Mist Set automatic</b>	<b>city gardening Micro Mist Nozzle</b>
Contents	Water Control Easy <sup>plus</sup> , 10 m hose, 3.5 mm internal diameter, 7 Micro Mist Nozzles (incl. 1 Micro Mist Nozzle with water stop), 13 fixing clamps, 13 screws, coupling with control valve and hose connector	3 replacement Micro Mist Nozzles
Art. No.	13137	13136

## Sets with automatic irrigation

 		 	 	 
	<b>NatureUp! Basic Vertical Set with Irrigation</b>	<b>NatureUp! Vertical Watering Set Tap</b>	<b>NatureUp! Corner Watering Set Tap</b>	<b>NatureUp! Extension Watering Set Water Container<sup>1</sup></b>
Contents	5 vertical planters (including 5 covers and 20 clips), 1 base plate, 2 fixings, 1 NatureUp! Vertical Watering Set Tap (13156)	1 Master Unit 1000, 1 Shut-Off Valve 4.6 mm (3/16"), 6 Connectors 4.6 mm (3/16"), 7 T-Pieces 4.6 mm (3/16"), 1 Cross Fitting 4.6 mm (3/16"), 2 L-Pieces 4.6 mm (3/16"), 10 Plugs 4.6 mm (3/16"), 9 Drip Irrigation Lines 65 cm, 8 Supply Pipes 15.5 cm, 1 x Supply Pipe 150 cm (all Pipes 4.6 mm (3/16"))	1 Master Unit 1000, 1 Shut-Off Valve 4.6 mm (3/16"), 12 Connectors 4.6 mm (3/16"), 10 T-Pieces 4.6 mm (3/16"), 1 Cross Fitting 4.6 mm (3/16"), 13 L-Pieces 4.6 mm (3/16"), 13 Plugs 4.6 mm (3/16"), 12 Drip Irrigation Lines 14 cm, 11 Supply Pipes 15.5 cm, 3 Supply Pipes 4 cm, 9 Supply Pipes 8.5 cm, 1 x Supply Pipe 150 cm (all Pipes 4.6 mm (3/16"))	Water Control for pump with integrated timer and 14 selectable programs, integrated AUTO STOP function switches the pump off as soon as the water container is empty, 14 V low voltage pump with dirt filter, 1 inline drip head 2 l
Number of plants	For up to 15 plants	For up to 27 plants	For up to 12 plants	–
Art. No.	13151	13156	13157	13158

## Holiday and Balcony Watering

 	 	 	 	 
	<b>city gardening Holiday Watering<sup>1</sup></b>	<b>city gardening Holiday Watering with water container<sup>1</sup></b>	<b>city gardening Balcony Watering<sup>1,2</sup></b>	<b>Solar-powered Irrigation AquaBloom Set</b>
Use outdoor/indoor	Indoor	Indoor	Outdoor	Outdoor
Water connection required	–	–	–	–
Power connection required	•	•	•	–
Art. No.	1265	1266	1407	13300

## Micro-Drip-System System start and accessories

	Pressure + filtering	Fertilisation	Assembly
<sup>1</sup> <b>MADE IN GERMANY</b> 			
	<b>1 Master Unit 10001/h</b> To operate the GARDENA Micro-Drip-System	<b>2 Master Unit 20001/h</b> To operate the GARDENA Micro-Drip-System	<b>3 Fertilizer Dispenser<sup>1</sup></b> With level indicator
			
			<b>4 Installation Tool</b> Multi-functional tool for the easy installation of the GARDENA Micro-Drip-System
Usage	Starting component for the micro-drip system; reduces pressure to 1.5 bar and filters water	Starting component for the micro-drip system; reduces pressure to 1.5 bar and filters water	Addition of a universal liquid fertiliser
Flow	to 1000l/h	to 2000l/h	–
Art. No.	1355	1354	8322

## Pipes and accessories

	5 Connecting Pipe		6 Supply Pipe		7 Shut-Off Valves <sup>1</sup>	
<sup>1</sup> <b>MADE IN GERMANY</b> 						
Usage	Central supply line for the micro-drip system, can be laid above-ground or underground		Feed pipe for drippers and spray nozzles, can be laid above-ground or underground		Shut-off device for individual strands of the connecting pipe 13 mm (1/2") (Art. No. 1346/1347)	
	13 mm (1/2"), 15 m	13 mm (1/2"), 50 m	4.6 mm (3/16"), 15 m	4.6 mm (3/16"), 50 m	13 mm (1/2")	4.6 mm (3/16")
Art. No.	1346	1347	1350	1348	8358	8357

## Pipe pegs

	8 Pipe Clips		9 Pipe Pegs		10 Pipe Guide	
<b>MADE IN GERMANY</b> 						
	<b>8 Pipe Clips</b> For fastening pipes in hard ground; defined spray nozzle fastening in connecting pipes/supply pipes. Adjusts the height of the spray nozzles in connection with a T-piece for spray nozzles and extension pipes		<b>9 Pipe Pegs</b> The Pipe Peg is used to route and securely fasten the supply pipe in the ground.		<b>10 Pipe Guide</b> To fasten the pipes in the ground.	
Usage	For fastening pipes in hard ground; defined spray nozzle fastening in connecting pipes/supply pipes. Adjusts the height of the spray nozzles in connection with a T-piece for spray nozzles and extension pipes		For guiding and fastening the connecting pipe/supply pipe		For fastening pipes in soil; defined spray nozzle fastening in the connecting pipe/supply pipe. Adjusts the height of the spray nozzles in connection with a T-piece for spray nozzles and extension pipes	
	13 mm (1/2")	4,6 mm (3/16")	13 mm (1/2")	4,6 mm (3/16")	13 mm (1/2")	4,6 mm (3/16")
Contents	2 pieces	5 pieces	5 pieces	10 pieces	3 pieces	3 pieces
Art. No.	8380	8379	1328	1327	8328	8327

## Micro-Drip-System Connection technology

### Pipe connectors

	11 4-Way Couplings		12 Reducing T-Joint		13 T-pieces		14 L-pieces		15 Connectors	
<b>MADE IN GERMANY</b> 										
	<b>11 4-Way Couplings</b> Junction for the connecting pipe/supply pipe		<b>12 Reducing T-Joint</b> Adapter from the connecting pipe to the supply pipe		<b>13 T-pieces</b> Junction for the connecting pipe/supply pipe		<b>14 L-pieces</b> For accurately changing the direction of the connecting pipe/supply pipe		<b>15 Connectors</b> For extending the connecting pipe/supply pipe	
Diameter	13 mm (1/2")	4,6 mm (3/16")	13 mm (1/2")	13 mm (1/2")	4,6 mm (3/16")	13 mm (1/2")	4,6 mm (3/16")	13 mm (1/2")	4,6 mm (3/16")	
Contents	2 pieces	10 pieces	5 pieces	2 pieces	10 pieces	2 pieces	10 pieces	3 pieces	10 pieces	
Art. No.	8339	8334	8333	8329	8330	8382	8381	8356	8337	

### Plug

	16 Plug	
<b>MADE IN GERMANY</b> 		
	<b>16 Plug</b> For sealing off the connecting pipe/supply pipe	
Diameter	13 mm (1/2")	4,6 mm (3/16")
Contents	5 pieces	10 pieces
Art. No.	8324	1323

### Accessories for spray nozzles and sprinklers

	17 T-Joint for Spray Nozzles		18 Extension Pipe for Spray Nozzles		19 Control Valve for Spray Nozzles		20 Extension Pipe for OS 90	
<b>MADE IN GERMANY</b> 								
	<b>17 T-Joint for Spray Nozzles</b> For defined spray nozzle fastening in the connecting pipe/ supply pipe. Combined with pipe guides or pipe clips for all spray nozzles, can be used to increase the height of the spray nozzles with an extension pipe		<b>18 Extension Pipe for Spray Nozzles</b> Enables the spray nozzles to water taller plants		<b>19 Control Valve for Spray Nozzles</b> Regulates water flow and spray nozzle range		<b>20 Extension Pipe for OS 90</b> Enables the OS 90 oscillating sprinkler to water taller plants	
Usage	For defined spray nozzle fastening in the connecting pipe/ supply pipe. Combined with pipe guides or pipe clips for all spray nozzles, can be used to increase the height of the spray nozzles with an extension pipe		The height of the spray nozzles can be changed. Several pipes can be screwed together		To control the water flow and range of the spray nozzles		To raise the height of the Oscillating Sprinkler OS 90	
Diameter / Length	13 mm (1/2")	4,6 mm (3/16")	Length 20 cm	–	–	–	Length 20 cm	
Contents	5 pieces	5 pieces	5 pieces	5 pieces	5 pieces	5 pieces	2 pieces	
Art. No.	8331	8332	1377	1374	1374	1374	8363	

## Micro-Drip-System for Flower Pots and Planters

### Starter Sets

MADE IN GERMANY



	With Water connection		Automatic	Extension Sets Flower Pots	
	Set	Set	Set	Set	Set
	<b>Starter Set Flower Pots S</b> For 5 plant pots	<b>Starter Set Flower Pots M</b> For 7 plant pots or 3 plant troughs	<b>Starter Set Flower Pots M automatic</b> For 7 plant pots or 3 plant troughs. Including Water Control Flex	<b>Extension Set Flower Pots</b> For extending (5 Flower Pots) Start Sets Flower Pots M and Flower Pots M automatic	<b>Extension Set Planters</b> For extending (4 Planters) Start Sets Flower Pots M and Flower Pots M automatic
Art. No.	13000	13001	13002	13005	13006

### Endline drip heads

MADE IN GERMANY



	<b>21 Endline Drip Head</b>	<b>22 Endline Drip Head</b> Pressure equalizing, self-cleaning, self-closing	<b>23 Adjustable Endline Drip Head</b>	<b>24 Adjustable Endline Drip Head</b> Pressure equalizing and self-cleaning
Water flow	2 l/h	2 l/h	0–10 l/h	1–8 l/h
Contents	25 Endline Drip Heads, 1 cleaning needle	10 pieces	10 pieces	5 pieces
Art. No.	1340	8310	1391	8316

### Inline drip heads for plant troughs

MADE IN GERMANY



	<b>25 Inline Drip Head</b>	<b>26 Inline Drip Head</b> Pressure equalizing, self-cleaning, self-closing	<b>27 Adjustable Inline Drip Head</b>	<b>28 Adjustable Inline Drip Head</b> Pressure equalizing and self-cleaning
Water flow	2 l/h	2 l/h	0–10 l/h	1–8 l/h
Contents	10 pieces	10 pieces	10 pieces	5 pieces
Art. No.	8343	8311	8392	8317

## Micro-Drip-System for Planted areas

### Starter set



#### Starter Set Planted Areas

Set

For 40 m<sup>2</sup> flower/kitchen garden beds

Art. No. 13015

### Spray nozzles for planted beds

MADE IN GERMANY



	<b>29 Endline Micro Strip Sprinkler</b> For covering areas with fine spray in long small areas, especially in connection with the Micro Strip Sprinkler	<b>30 Micro Strip Sprinkler</b> For covering areas with a fine spray in long small areas	<b>31 6-Pattern Spray Nozzle</b> Flexible watering needs, control knob for adjusting the spray pattern (90°, 180°, 270°, 360°, strips, end strips)	<b>32 Micro Rotor Sprinkler 360°</b> For covering areas with fine spray	<b>33 Micro Mist Nozzle</b> For watering of newly planted beds, green-houses
Water flow	52 l/h	57 l/h	11–36 l/h	85 l/h	16 l/h
Area coverage	–	–	–	7–38 m <sup>2</sup>	Ø 1 m
Range	ca. 2.75 m	ca. 5.5 m	Adjustable	1.5–3.5 m	–
Sprinkling width	ca. 0,6 m	ca. 0,6 m	–	–	–
Contents	5 pieces	5 pieces	2 pieces	2 pieces	5 pieces
Art. No.	1372	1370	1396	1369	1371

### Spray nozzles and sprinklers for planted beds

MADE IN GERMANY



	<b>34 Spray Nozzle 90°</b> For covering areas with a fine spray in long small areas in flower beds	<b>34 Spray Nozzle 180°</b> For covering areas with a fine spray in long small areas in flower beds	<b>34 Spray Nozzle 360°</b> For covering areas with a fine spray in long small areas in flower beds	<b>35 Small Area Spray Nozzle</b> Accurate metering of water over small areas such as shrubs and bushes	<b>36 Small Area Spray Nozzle</b> Accurate metering of water over small areas such as shrubs and bushes	<b>37 Oscillating Sprinkler OS 90</b> Watering of square and rectangular areas
Water flow	47 l/h	97 l/h	120 l/h	30–48 l/h	30–48 l/h	380 l/h
Area coverage	–	–	Ø 6 m	Ø 10–40 cm	Ø 10–40 cm	1–90 m <sup>2</sup>
Range	ca. 3 m	ca. 3 m	ca. 3 m	–	–	0,5–7 m adjustable
Sprinkling width	–	–	–	–	–	1,5–13 m adjustable
Contents	5 pieces	5 pieces	5 pieces	10 pieces	10 pieces	1 piece
Art. No.	1368	1367	1365	8320	8321	8364

## Micro-Drip-System for rows of plants

### Starter sets drip irrigation line

	to 15 m	to 25 m	Automatic	to 50 m	to 50 m underground
<sup>1</sup> <b>MADE IN GERMANY</b>					
	<b>Start Set for Rows of Plants S Above Ground Drip Irrigation Line<sup>1</sup></b> 15 m row of plants or sensitive vegetables/ ornamental plants	<b>Start Set for Rows of Plants M Above Ground Drip Irrigation Line<sup>1</sup></b> 25 m plant row (e. g. hedges or planted borders)	<b>Start Set for Rows of Plants M automatic Above Ground Drip Irrigation Line<sup>1</sup></b> 25 m plant row (e. g. hedges or planted borders)	<b>Start Set for Rows of Plants L Above Ground Drip Irrigation Line</b> 50 m plant row (e. g. hedges) or planted borders	<b>Start-Set Drip Irrigation for Rows of Plants Below Ground Drip Irrigation Line</b> For boundary planting or lawn areas
Internal pipe diameter	4,6 mm (3/16")	13 mm (1/2")	13 mm (1/2")	13 mm (1/2")	13,7 mm
Contents	With Master Unit and Pipe Peg	With Master Unit and Pipe Peg	With Water Control, Master Unit and Pipe Peg	With Master Unit	With Master Unit
Art. No.	13010	13011	13012	13013	1389

### Extension sets drip irrigation line

	above-ground	underground	
	<b>Extension for Rows of Plants Above Ground Drip Irrigation Line 4.6 mm (3/16")</b> For extending the starter set for plant rows S	<b>Extension for Rows of Plants Above Ground Drip Irrigation Line 13 mm (1/2")</b> For extending the starter set for plant rows M	
		<b>Extension Drip Irrigation for Rows of Plants Below Ground Drip Irrigation Line 13.7 mm</b> For the extension of the Below Ground Drip Irrigation Line for boundary plants or lawn areas	
Internal pipe diameter	4,6 mm (3/16")	13 mm (1/2")	13,7 mm
Compatible with art.	13010	13011 / 13012 / 13013	1389
Contents	15 m Drip line, without fittings	25 m Drip line, without fittings	50 m Drip line, without fittings
Art. No.	1362	13131	1395

Couplers for 13.7-mm drip pipes underground can be obtained via the Service team

## Underground Water distribution

### Pipes and System start

<sup>1</sup> <b>MADE IN GERMANY</b>						
	<b>Connecting Pipe</b>	<b>Connecting Pipe</b>	<b>Connecting Pipe</b>	<b>Connecting Point</b> For the underground connection of Pipeline and Sprinkler-system	<b>Central Filter<sup>1</sup></b> Filters the water flowing through, can be used in connection with pumps and other irrigation devices	<b>Regulator and Shut-Off Valve<sup>1</sup></b> For stepless regulation and shut-off of individual sprinklers or sprinkler groups
Length	25 m	50 m	10 m	–	–	–
Usage	Pipeline, Sprinkler-system	Pipeline, Sprinkler-system	Pipeline, Sprinkler-system	Pipeline, Sprinkler-system With Profi-System and Tap Connector	Pipeline, Sprinkler-system	Sprinklersystem
Art. No.	2700	2701	2718	2722	1510	2724

### Connections and Pipe connectors

	Connections			Pipe connectors				
<sup>1</sup> <b>MADE IN GERMANY</b>								
	<b>Connector 25 mm x 3/4" female thread</b>	<b>Connector 25 mm x 1" female thread</b>	<b>Connector 25 mm x 1" male thread</b>	<b>T-Piece 25 mm</b>	<b>L-Piece 25 mm</b>	<b>Connector 25 mm</b>	<b>Reduction Connector 32–25 mm</b>	<b>End-Piece 25 mm</b>
Usage	For pipe connection to the Connecting Point, the Water Regulator and Shut off Valve, the Central Filter and the Popup Sprinkler S 80/300 and for directly connecting the sprinkler system to the domestic water supply	For pipeline connection to the Valve Boxes V1 and V3 and to the Pipeline Spiral Hose Box and for directly connecting the sprinkler system to the domestic water supply	For pipe connection to the irrigation valves and for directly connecting the sprinkler system to the domestic water supply	Pipe branching for Connecting Pipe	Direction change of the Connecting Pipe	Extension for the Connecting Pipe	Connection from 32 mm to 25 mm Connecting Pipe	Terminating the Connecting Pipe
Art. No.	2761	2762	2763	2771	2773	2775	2777	2778

### Accessories

<sup>1</sup> <b>MADE IN GERMANY</b>				
	<b>„Profi“ Maxi-Flow System Connector Set</b>	<b>„Profi“ Maxi-Flow System Connection Set</b>	<b>Adapter Piece</b>	<b>Drain Valve</b>
Usage	For the connection of the Pipeline and the Sprinklersystem to the water tap	Complete set for connection of Pipeline and Sprinklersystem to the water supply	For creating a permanently pressure-resistant hose connection	For draining water automatically when shutting down the system (Connection Art.No. 2790, 2761)
Art. No.	1505	2713	1513	2760

# Sprinklersystem

## Pop-up Sprinklers

S models						
<b>Pop-up Sprinkler S 30</b>	<b>Pop-up Sprinkler S 50</b>	<b>Pop-up Sprinkler S 80</b>	<b>Pop-up Sprinkler S-CS</b>	<b>Pop-up Sprinkler S-ES</b>	<b>Pop-up Sprinkler S 80/300</b>	
Watering areas	Up to 30 m <sup>2</sup>	Up to 50 m <sup>2</sup>	Up to 80 m <sup>2</sup>	6–24 m <sup>2</sup>	3–12 m <sup>2</sup>	Up to 80 m <sup>2</sup>
Watering sector	Fully adjustable from 5–360°	Fully adjustable from 5–360°	Fully adjustable from 5–360°	–	–	Fully adjustable from 5–360°
Range	Adjustable from 1.5–3 m	Adjustable from 2–4 m	Adjustable from 2.5–5 m	Adjustable from 6–12 m	Adjustable from 3–6 m	Fully adjustable from 5–360°
Connection thread	½" female thread	½" female thread	½" female thread	½" female thread	½" female thread	¾" male thread
Art. No.	1554	1555	1569	1552	1553	1566

MADE IN GERMANY

T models			
<b>Turbo-driven Pop-up Sprinkler T 100</b>	<b>Turbo-driven Pop-up Sprinkler T 200</b>	<b>Turbo-driven Pop-up Sprinkler T 380</b>	<b>Pop-up Oscillating Sprinkler OS 140</b>
Watering areas	Up to 100 m <sup>2</sup>	Up to 200 m <sup>2</sup>	Up to 380 m <sup>2</sup>
Watering sector	Fully adjustable from 70–360°	Fully adjustable from 25–360°	Fully adjustable from 25–360°
Range	Can be adjusted from 4–6 m	Can be adjusted from 5–8 m	Can be adjusted from 6–11 m
Connection thread	½" female thread	½" female thread	¾" female thread
Art. No.	8201	8203	8205

## Connection for Pop-up Sprinklers and Accessories

<b>Sprinkler Connection ¾" x ½"</b>	<b>Sprinkler Connection ¾" x ¾"</b>	<b>Sattle Clamp 25 mm x ¾" female thread</b>	<b>Cutter for Sattle Clamp ¾" thread</b>
Use	For flexible "outline" sprinkler connection in combination with the Sattle Clamps or the T/L-Pieces with female thread 1552   1553   1554   1555   1569   8201   8203	Sprinkler connection within the run of the pipe, in combination with the flexible connectors 2739 and 2740, for flexible outlining of the Pop-up Sprinklers S 30, S 50, S 80, S-ES and S-CS, Turbo-driven Pop-up Sprinklers T 100, T 200 and T 360	Simple pipe perforation without drilling machine
Art. No.	2739	2740	2728

## Connections for Pop-up Sprinklers

MADE IN GERMANY	½" male thread			¾" male thread			¾" female thread				
Connection for Art. No.	1552   1553   1554   1555   1569   8201   8203			8205   8223		8205   8223		8205   8223		2722   8250   2724   1510   1566   8254	
Art. No.	2780	2782	2786	2781	2783	2787	2761	2790	2784	2764	

## GARDENA smart system – Irrigation

### Starter sets

reddot award 2016 winner

	Irrigation Control	Multi-Channel	Home & Garden Pump
<b>smart system Start Set</b>	<b>smart Sensor Control Set</b>	<b>smart Water Control Set</b>	<b>smart Automatic Home &amp; Garden Pump 5000/5 Set</b>
Mow lawns and water plants using the smart App	Water plants using the smart App	Water plants using the smart App	Automatic utilisation of non-potable water – for garden irrigation or domestic use
Contents	smart SILENO city Robotic Lawnmower, smart Water Control, smart Sensor, smart Gateway	smart Water Control, smart Sensor, smart Gateway	smart Water Control, smart Gateway
Art. No.	19200	19202	19103

## Extensions – Irrigation

More GARDENA smart system products can be found at: [www.gardena.com/smart](http://www.gardena.com/smart)

Combined with all smart system Sets			
<b>smart Water Control</b>	<b>smart Irrigation Control</b>	<b>smart Sensor</b>	<b>smart Automatic Home &amp; Garden Pump 5000/5</b>
Useable for	all smart system Sets, Water Distributor automatic (Art. No. 1197)	24 V Irrigation Valve (Art. No. 1278), smart Sensors, all smart system Sets	all smart system Sets
Requirements	Gateway, (Wi-Fi) router and Internet access – smartphone, tablet or pc		
Art. No.	19031	19032	19040

## Pipeline

			
	<b>Water Connector</b>	<b>Water Plug</b>	<b>Starter Set for Garden Pipeline</b> Starter Set with 2 water tapping points
Art. No.	8250	8254	8255

## Irrigation Control

 							
	<b>Manual Tap Timer</b> Practical: switches off automatically after the defined running time	<b>Flex</b> Short cycles for watering pot plants – ideal for use with the GARDENA Micro-Drip-System, innovative turn and push feature	<b>Select</b> Individual setting options of three independent schedules, intuitive operation with just one button	<b>Water Control Bluetooth®</b> Control your watering with the GARDENA Bluetooth® App from up to 10 m	<b>Master</b> Individual setting options of six independent schedules, intuitive operation with just one button	<b>MultiControl duo</b> Flexible thanks to free programming options. Fully automatic operation with soil moisture sensor	<b>smart Water Control<sup>1</sup></b> Irrigation times can be flexibly set and adjusted as required at any time using the GARDENA smart App
Watering schedules	–	1	3	3	6	1 (per outlet)	freely selectable
Energy supply	Mechanical	1 x 9 V alkaline battery (not included)	1 x 9 V alkaline battery (not included)	1 x 9 V alkaline battery (not included)	1 x 9 V alkaline battery (not included)	1 x 9 V alkaline battery (not included)	3 x AA 1.5 V alkaline batteries (LR6, not included)
Watering duration	5–120 min.	1 sec.–99 min.	1 min.–7 hrs. 59 min. per schedule	1 min.–8 hrs. per schedule	1 min.–4 hrs. per schedule	1 min.–3 hr 59 min (per outlet)	1 min.–10 h
Watering frequency	–	Every 4/6/8/12/24/48/72 hours, up to 6 times daily	Days of the week, up to 3 times per day	Days of the week per schedule	Days of the week, up to 6 times per day	Days of the week or every 2 <sup>nd</sup> / 3 <sup>rd</sup> / 7 <sup>th</sup> day	Days of the week
Can be used with	–	Soil Moisture Sensor (Art. No. 1867)	Soil Moisture Sensor (Art. No. 1867)	Soil Moisture Sensor (Art. No. 1867)	Water Distributor automatic (Art. No. 1197) Soil Moisture Sensor (Art. No. 1867)	Soil Moisture Sensor (Art. No. 1867)	all smart system Sets, smart Sensor (Art. No.19030), Water Distributor automatic (Art. No. 1197)
Art. No.	1169	1890	1891	1889	1892	1874	19031

## Accessories

				
	<b>Soil Moisture Sensor</b> For optimised water saving irrigation. Connection to a GARDENA Water Control. Measures soil moisture and skips scheduled watering when a preset moisture level is reached	<b>Extension Cable</b> Length 10 m. For extension of up to 105 m of the sensor's power cable	<b>smart Sensor<sup>1</sup></b> Measures soil moisture and near-ground temperature and includes the soil moisture in the watering schedules using the smart App	<b>Water Distributor automatic</b> Fully-automatic control of up to 6 accessories, one after the other, with Water Control Master (not included)
Art. No.	1867	1868	19040	1197

## Multi-Channel Control

24 V | Electricity supply

			
	<b>Classic Irrigation Control System 4030</b> Controlling of up to 4 Irrigation Valves 24 V, for indoor and outdoor use	<b>Classic Irrigation Control System 6030</b> Controlling of up to 4 Irrigation Valves 24 V, for indoor and outdoor use	<b>smart Irrigation Control</b> Water multiple areas via smart App, control six 24 V Irrigation Valves per device
Number of Irrigation Valves 24 V which can be controlled	4 (24 V)	6 (24 V)	6 (24 V)
Individual irrigation schedules per valve	3	3	Configured individually via smart App
Watering duration per schedule	1 min.–3 h 59 min., centrally adjustable by 0–200 %		
Control via smart App	–	–	•
Art. No.	1283	1284	19032

## Accessories

24 V | Electricity supply

9 V | Battery powered

					
	<b>Irrigation Valve 24 V</b> Connection to a GARDENA Irrigation Control System via cable	<b>Connection Cable 24 V</b> Connection of up to 6 Irrigation Valves 24 V to a GARDENA Irrigation Control	<b>Cable Clip 24 V</b> For connecting the Connection Cable 24 V to an Irrigation Valve 24 V with a water-tight connection when using Valve Box V1	<b>Irrigation Valve 9 V Bluetooth®</b> Battery operated valve control of irrigation systems without 230 V mains connection. Simple configuration with the GARDENA Bluetooth® App. 6 individual schedules	<b>Control Unit 9 V Bluetooth®</b> Battery operated valve control through App configuration. Accessorie to upgrade existing GARDENA 9 V installation with Art. 1251
Art. No.	1278	1280	1282	1285	1287

## Valve Boxes

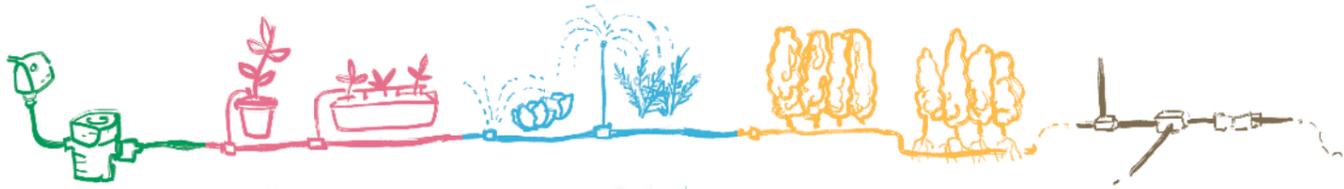
				
	<b>Valve Box 9 V Bluetooth® Set</b> Valve Box including 3 Irrigation Valves 9 V Bluetooth®	<b>Valve Box V1</b> For 1 Irrigation Valve 9 V or 24 V	<b>Valve Box V3</b> For up to 3 Irrigation Valves 9 V or 24 V	<b>Connector for Valve Boxes V3</b> For connecting two Valve Boxes V3
Art. No.	1286	1278	1280	2758

# DO it YOURSELF

## Micro-Drip-System

Let's get started. How to build your own Micro-Drip-System

You'll be amazed: Assembling your own MDS solution is easier than you think. Work step by step and you will very quickly create your individual and convenient irrigation solution.



### System start

Start off by choosing the automatic control system and then the master unit. The master unit reduces the pressure and filters the water.

### For flower pots

For pots or flower boxes, choose the pipe solution and drip heads marked in pink.

### For planted areas

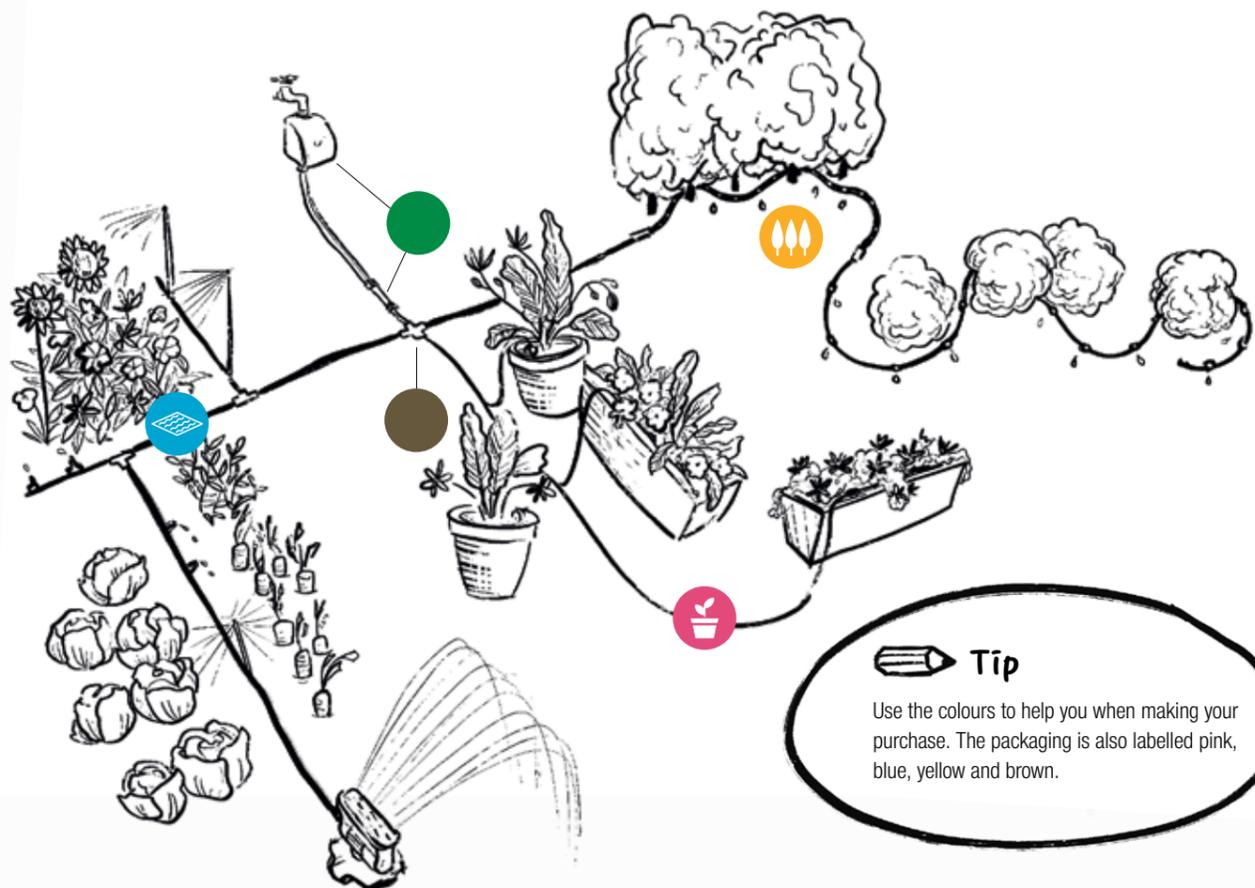
For this, choose the pipes, nozzles and sprinklers marked in blue.

### For rows of plants

For this, choose the pipes marked in yellow. Here are some options for underground and above-ground installation. You can also buy the practical sets marked in yellow and supplement them with extension pipes.

### Connection technologies

To help you connect the pipes, you can choose from items such as four-way couplings, T-pieces, L-pieces. This means you can create your own Micro-Drip-System to suit your requirements.



### Tip

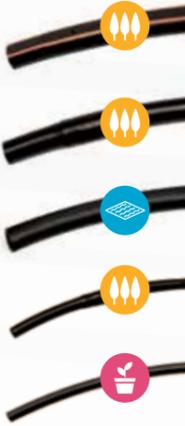
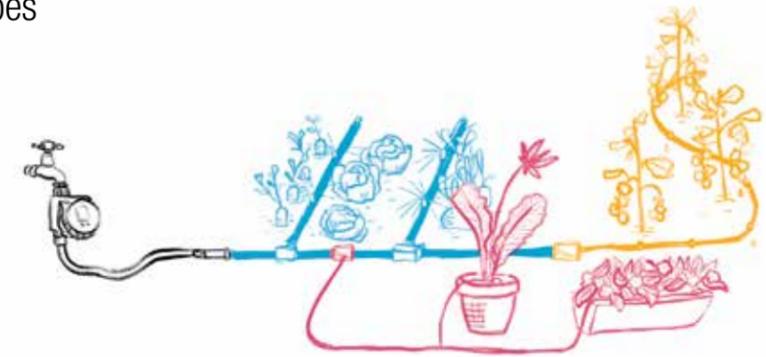
Use the colours to help you when making your purchase. The packaging is also labelled pink, blue, yellow and brown.

## 1. Types of installation

### Installation type 1

4.6 mm und 13 mm pipes

This installation type uses a combination of the system for ● flower pots with the system for ● planted areas and/or ● rows of plants. (combination 4.6 mm + 13 mm)



### Installation type 2

4.6 mm pipes

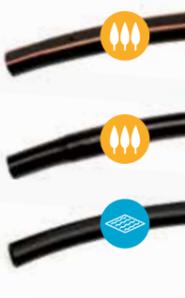
This installation type uses the system for ● flower pots and plant troughs and/or ● rows of plants. (4.6 mm pipe only)



### Installation type 3

13 mm pipes

This installation type uses the system for ● planted areas and/or ● rows of plants. (13 mm pipes and/or 13 mm drip irrigation line above-ground). With this installation type, you insert the drip heads and/or spray nozzles directly into the 13 mm pipe.



## Positioning the master unit

The master unit is a key component of the Micro-Drip-System. This ready-to-use master unit reduces the input pressure and filters the water. If you position the master unit in the middle of the pipe run, you can double the length of the pipe system (see table 56).

### Master unit is positioned at the system start



### Master unit is positioned in the middle of the pipe run



## 2. Assembling your Micro-Drip-System

### Three things you need to know:

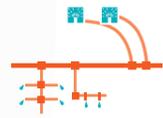
1. The master unit is the starting point and defines the connection value.
2. The master unit defines the amount of water available in the system.
3. The connection value of the system must be greater than the consumption value.

## Determining consumption values (for larger/combined systems)

Irrigate several areas of the garden in combination. Combine your different applications.

### Installation type 1

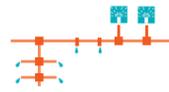
The delivery device is installed in the 4.6 mm pipe and the supply is enabled via the 13 mm pipe.



- 13 mm (½") Connecting Pipe
- 4.6 mm (⅜") Supply Pipe

### Installation type 2

The delivery device is installed in the 4.6 mm pipe, supply via the 4.6 mm pipe.



### Installation type 3

The delivery device is installed directly in the 13 mm pipe.



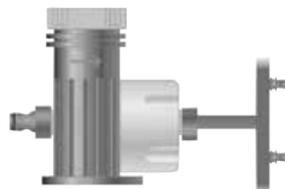
## Connection values

Installation type	Recommended connection value Pipe length**	Installation of the base unit at the start of the pipe		Installation of the base unit in the centre of the pipe*	
		Master Unit 1000	Master Unit 2000	Master Unit	Master Unit 2000
Installation type 1	500 13 mm max. 40 m 4.6 mm max. 15 m	1000 13 mm max. 40 m 4.6 mm max. 15 m	1000 13 mm max. 2 x 30 m 4.6 mm max. 15 m	2000 13 mm max. 2 x 30 m 4.6 mm max. 15 m	
Installation type 2	50 max. 15 m	50 max. 15 m	100 max. 15 m	100 max. 15 m	
Installation type 3	500 max. 40 m	1000 max. 40 m	1000 max. 2 x 30 m	2000 max. 2 x 30 m	

## Example Calculation

### Recommended installation type 1

Determine connection value



1. Determine the number and type of delivery devices (spray nozzles/drip heads/drip line)
2. Determine the consumption values of the system (number of delivery devices x consumption value in the table)
3. Add the values to obtain the sum total of the consumption values. If the consumption value of the system is less than the connection value, the system can be operated smoothly.

## Consumption values

Art. No.	Designation	Accessory consumption values			Planned number	Total consumption value
		M1	M2	M3		
<b>Installation</b>						
1340/8310	Endline Drip Head	2	2	5		
1391	Adjustable Endline Drip Head	10	10	25		
8316	Adjustable Endline Drip Head	8	8	20		
8343/8311	Inline Drip Head	4	4	—	12 pc.	48
8392	Adjustable Inline Drip Head	20	20	—		
8317	Adjustable Inline Drip Head	16	16	—		
8320	Small Area Spray Nozzle	—	—	70		
8321	Small Area Spray Nozzle	70	25	—		
1365	Spray Nozzle 360°	125	100	100		
1367	Spray Nozzle 180°	110	100	80		
1368	Spray Nozzle 90°	85	50	65		
1370	Micro Strip Sprinkler	70	50	70		
1372	Endline Micro Strip Sprinkler	70	50	70		
1371	Micro Mist Nozzle	40	25	40		
1369	Micro Rotor Sprinkler 360°	110	100	80	1 pc.	80
1396	6-Pattern Spray Nozzle	125	50	60		
8364	Oscillating Sprinkler OS 90	—	—	1000		
13010/1362	Drip line 4.6 mm (⅜")***	4	4	—		
13001/13002 13013/13131	Drip line 13 mm (½")***	—	—	10	0,5 metres	05
<b>Total</b>						<b>203</b>

\* The connection value of each half of the line is half the connection value when the base unit is installed in a central position.

\*\* Specification of the maximum pipe length is used as a guideline value only. It is dependent on the number of connected delivery devices in each case.

\*\*\* Consumption value per metre of drip line.

### 3. Planning and purchasing

#### Use pens and paper to draw up your plan

1. Draw your plot precisely to scale.
2. Draw the planted areas (e.g. hedge, bed, flower boxes etc.).
3. Draw all the individual plants.

#### Our tip: Use our online guides

##### Create a sketch of your garden online

You can use "my garden" to create your personal garden sketch. This provides you with a clean basis for any manual drawings you subsequently create for your Micro-Drip-System.  
[www.gardena.com/mygarden](http://www.gardena.com/mygarden)

#### So we continue, step by step

When plotting your sketch, it's best to use different colours and icons. This will help create the best overview.

##### 1. Mark water source for 4.6 mm 3/16" oder 13 mm 1/2"



##### 2. Plot Master Unit



Decide where you want to install the master unit. Either right at the beginning as system start or in the middle of the pipe run. If the system start is placed far away from the water connection, use a pipeline or OGS hose to bridge the gap between the tap and the master unit. This means you will prevent a loss in water pressure.

##### 3. Sketch the chosen connecting pipes and distribution pipes in colour

- Micro-Drip-System for Plant pots and -troughs
- Micro-Drip-System for Planted areas
- Micro-Drip-System for Rows of plants

##### 4. List the chosen drips heads and nozzles. Make a note of what number of each you will need.

##### 5. Register connection parts for 4.6 mm 3/16" oder 13 mm 1/2"

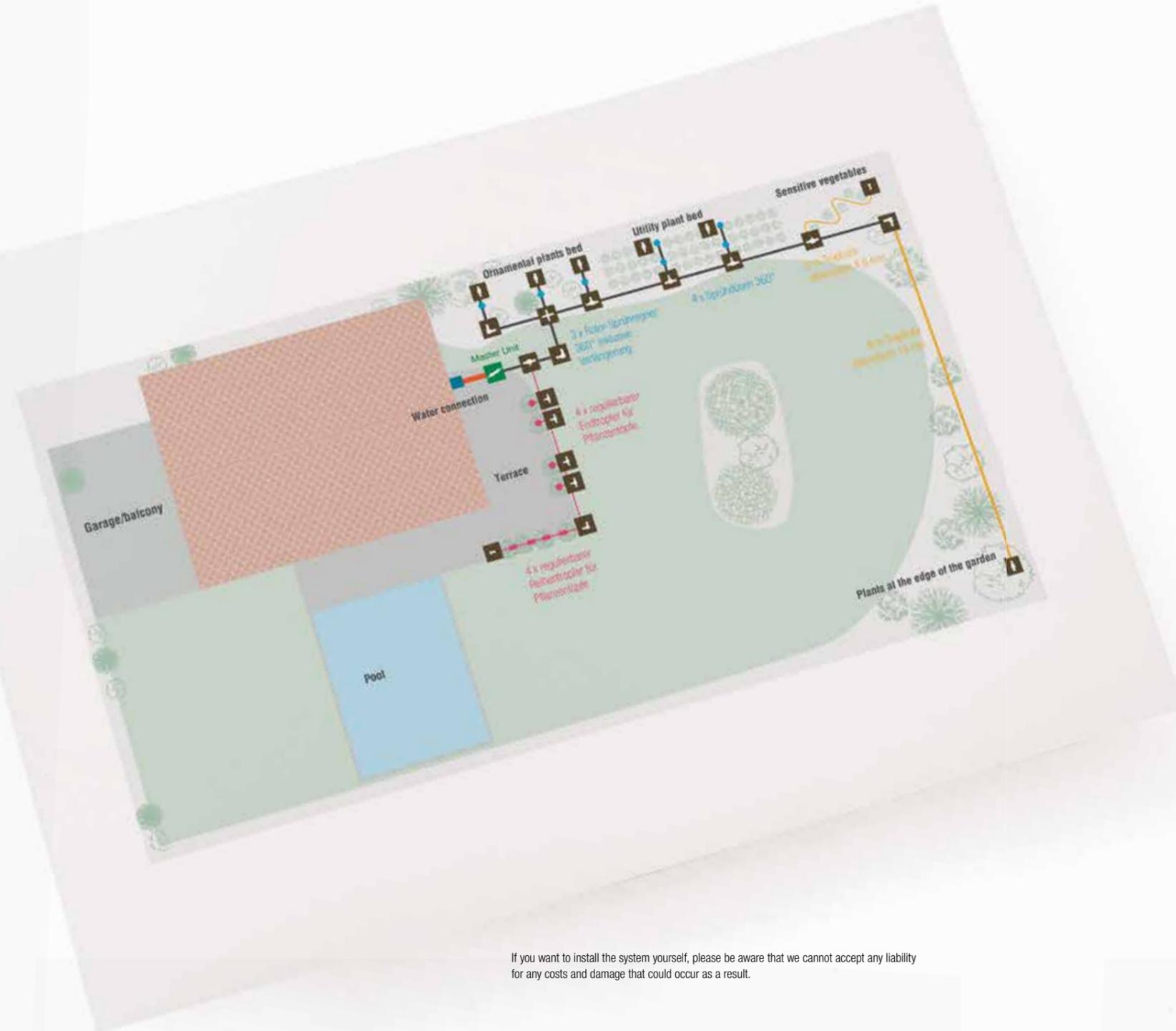
- |                |                  |         |
|----------------|------------------|---------|
| 4-Way Coupling | Connector        | T-piece |
| L-piece        | Reducing T-Joint | Plug    |

##### 6. Register reinforcement für 4.6 mm 3/16" oder 13 mm 1/2"

- |           |            |           |
|-----------|------------|-----------|
| Pipe Pegs | Pipe Guide | Pipe Clip |
|-----------|------------|-----------|

##### 7. Add to shopping list

Add the products to the shopping list on page 78.



If you want to install the system yourself, please be aware that we cannot accept any liability for any costs and damage that could occur as a result.

## 4. Installation – Overview of tools and elements

### Everything at a glance

This is where you will be shown the individual elements for the Micro-Drip-System, together with their correct descriptions. The tools are also shown and named, making installation easier for you later.



Scissors

use the tip to make a hole



Installation Tool

use this part to tighten drip heads

use this part to tighten the extension



Master Unit

Drip irrigation line underground 13,7 mm

Drip irrigation line above-ground 13 mm

Drip irrigation line 4,6 mm

Connecting Pipe 13 mm

Supply Pipe 4,6 mm



Pipe Couplings



Pipe coupling to branch a 4.6-mm pipe off from a 13-mm pipe

Plugs



Inline Drip Head



Oscillating Sprinkler



6-Pattern Spray Nozzle

Micro Mist Nozzle



Endline Drip Heads



Extension

Control Valve for Spray Nozzles



Shut-Off Valves



Pipe Guide for securing pipes in the ground and for fastening spray nozzles



Pipe Peg for securing pipes in the ground

## 5. Installation – simple to assemble

The Micro-Drip-System is easy to assemble. As you would expect from GARDENA.

### Original GARDENA System

#### From the tap to the master unit

It's all go at the tap: Everything is connected to everything else. This is where the Water Control, the hose and the master unit are connected. Simple, waterproof, flexible and safe. We have been providing safe and innovative product solutions and connections for 50 years.

### Micro-Drip-System

#### From the master unit to the plants

The Micro-Drip-System then takes control. Connectors (e.g. four-way coupling or T-piece) are used to easily connect the drip pipes. Easy peasy thanks to Quick&Easy technology.



There is the option to connect the Water Control

Connect the hose

2 Connect the master unit as system start

All drip heads, nozzles and sprinklers are either screwed or plugged in. Everything keeps you on the right track, it's all easy to do. There are no smoke and mirrors.



1 You can easily use scissors to trim the hose

6 Connect inline drip heads for plant troughs

7 Screw in endline drip heads for plant pots

8 Connect the plug to the end of the system

8 Connect the plug to the end of the system

Use the installation tool to make a hole

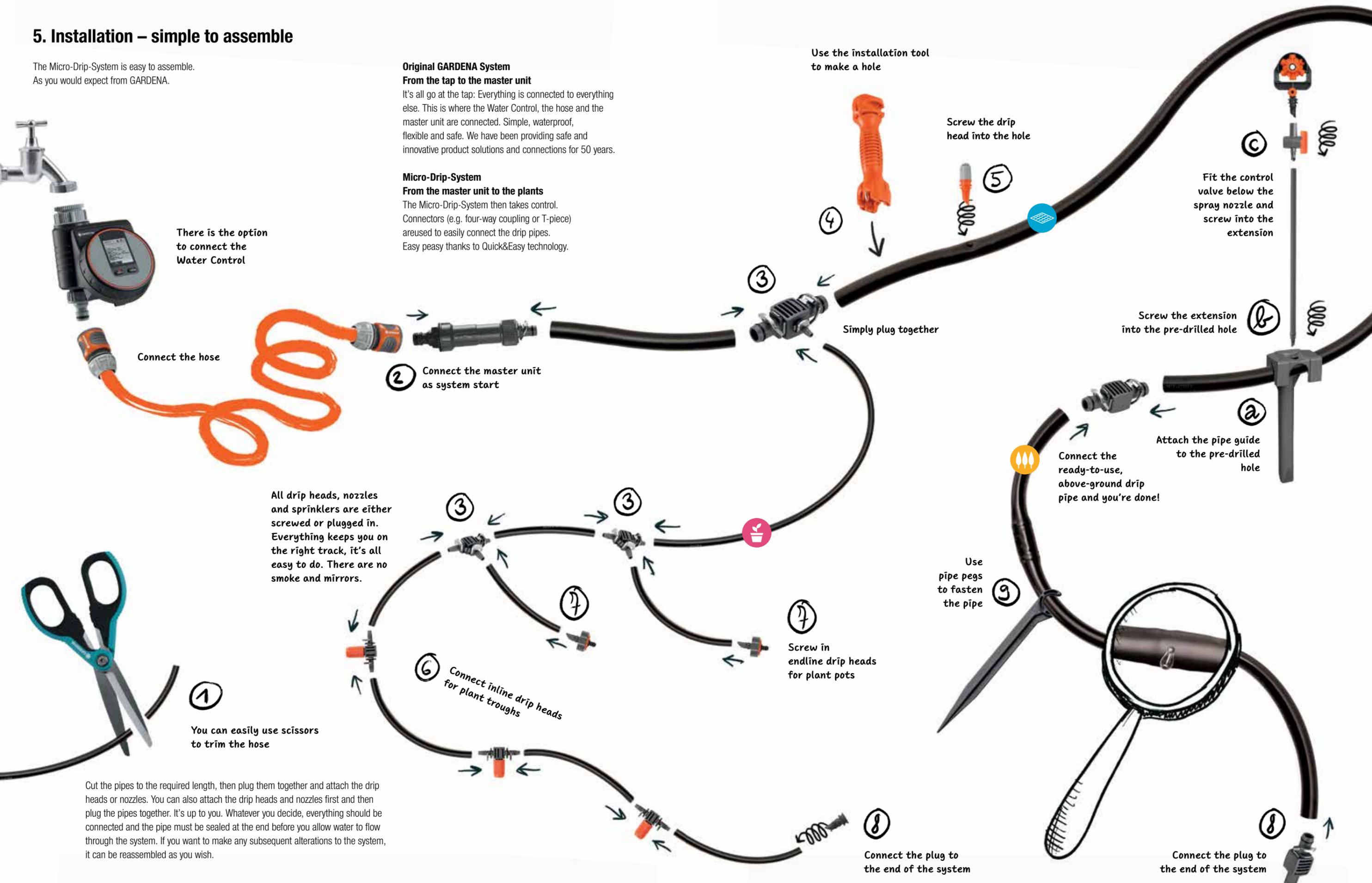
Screw the drip head into the hole

Screw the extension into the pre-drilled hole

Attach the pipe guide to the pre-drilled hole

Connect the ready-to-use, above-ground drip pipe and you're done!

Use pipe pegs to fasten the pipe



Cut the pipes to the required length, then plug them together and attach the drip heads or nozzles. You can also attach the drip heads and nozzles first and then plug the pipes together. It's up to you. Whatever you decide, everything should be connected and the pipe must be sealed at the end before you allow water to flow through the system. If you want to make any subsequent alterations to the system, it can be reassembled as you wish.

# Planning the Sprinklersystem

The GARDENA Irrigation Planner

Irrigation couldn't be simpler. Install your automatic sprinkler system and enjoy the freedom and convenience in no time at all. We'll show you how. From do-it-yourself to letting something else take over: Take a look at what is best for you. Our online guides and customer service team are there to help you.



## A Plan it yourself

Create the individual irrigation plan for your garden. Instructions can be found over the next few pages. These instructions explain everything step by step. You can find a cut-out shopping list on page 77.

## B Online planning

You can plan your own irrigation system with the help of the GARDENA Irrigation Planner "My Garden" on the GARDENA homepage: [www.gardena.com/mygarden](http://www.gardena.com/mygarden)

## C Use the GARDENA customer service

No time or energy to plan your irrigation system? Our GARDENA customer service team is happy to help. Also enquire about the cost of your individual plan.

### Contact service

Phone +49 (0)7 31/4 90 246  
Telefax +49 (0)7 31/4 90 389  
[www.gardena.de/kontakt](http://www.gardena.de/kontakt)

If you want to install the system yourself, please be aware that we cannot accept any liability for any costs and damage that could occur as a result.

# DO it YOURSELF

Plan it all yourself – automatic irrigation in six steps

1. Plan the system
2. Choose the sprinklers
3. Choose the lines
4. Choose the connections and connectors
5. Choose a control system
6. Install the system

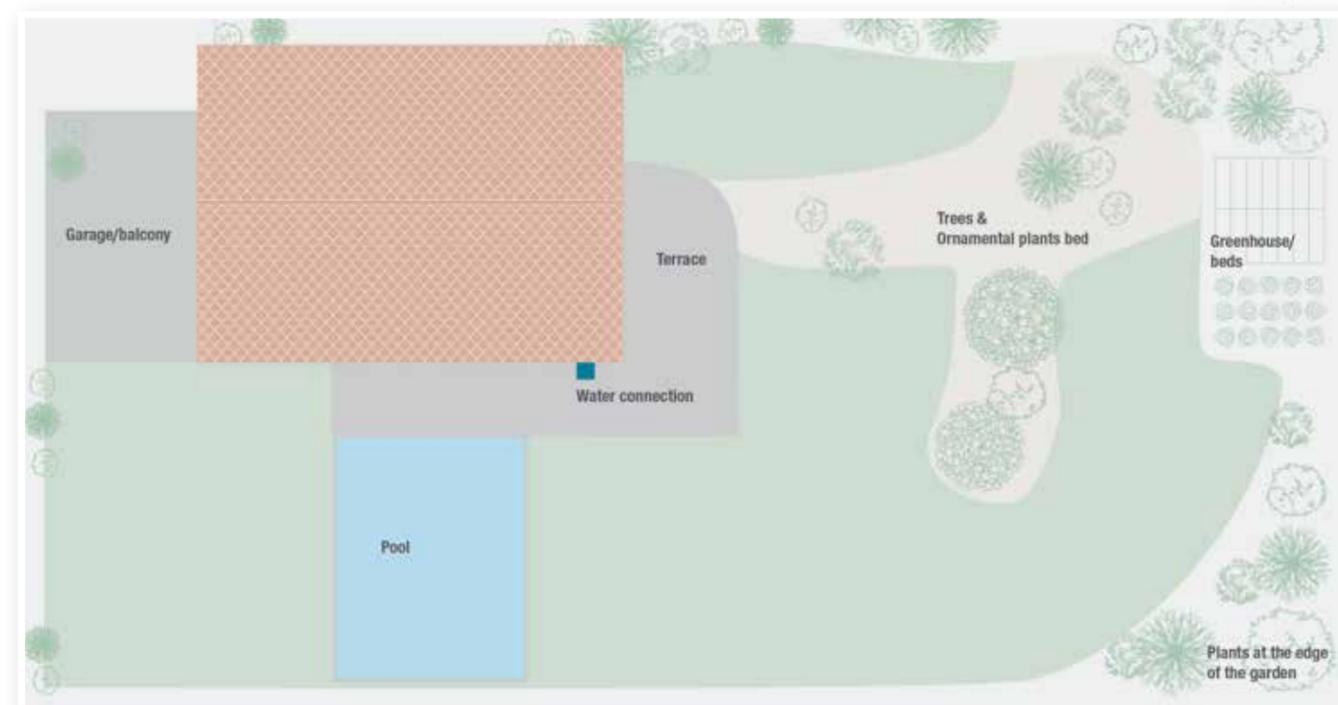
### And off you go!

The next few pages will tell you all you need to know about automatic irrigation of your garden. Our long-standing expertise, perfected GARDENA technology and a shared passion for gardens create the best solutions. All of this, so that you will very soon be able to enjoy your sprinkler system without having to do the watering yourself.

## 1. The basis: Draw a sketch of your garden

### Sketch

1. Draw a sketch of your plot to scale 1:100 (1 cm = 1 m) or on a scale of 1:200 (1 cm = 2 m)
2. Mark the water supply (tap, well, tank)
3. Mark all areas that need to be watered



## 2. Choosing sprinklers

This is where you will find the perfect choice of sprinklers for your project



### For the individual combination

If you want to water different areas and put your own personal combination together, you have the option of using S-models and T-models to assemble your Sprinklersystem for efficient irrigation of your garden. Cover corner areas at 90 degrees or 270 degrees. Plan border areas at 180 degrees or with other sub-areas. Please note: Always connect T-models and S-models to a separate line.



### For square and rectangular areas

If you wish to water areas between 2 and 140 m<sup>2</sup> in size, the OS 140 Pop-Up Oscillating Sprinkler is ideal. It is also ideal for watering particularly small or narrow areas. It covers large surfaces thanks to its adjustable range of up to 15 m. An alternative to using several sprinklers at once.

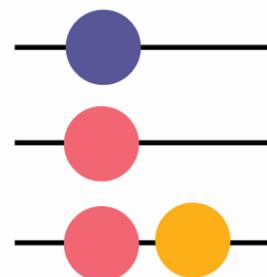


### !!! Important instructions

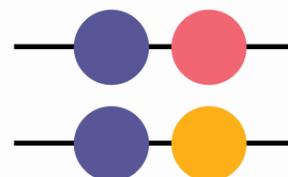
#### T- and S models ● / ●

Always insert in different lines.  
The reason is different amounts of precipitation.

#### right



#### not correct



#### T models and Pop-up Oscillating Sprinkler (OS 140) ● ●

Can be connected to the same line.



### Overview sprinklers

	S models						T models			Rectangular areas
Watering areas	Up to 30 m <sup>2</sup>	Up to 50 m <sup>2</sup>	Up to 80 m <sup>2</sup>	6–24 m <sup>2</sup>	3–12 m <sup>2</sup>	Up to 80 m <sup>2</sup>	Up to 100 m <sup>2</sup>	Up to 200 m <sup>2</sup>	Up to 380 m <sup>2</sup>	2–140 m <sup>2</sup>
Watering sector	5–360°	5–360°	5–360°	1–2 m	1–2 m	5–360°	70–360°	25–360°	25–360°	Width of spray 1–9,5 m
Range	1.5–3 m	2–4 m	2.5–5 m	6–12 m	3–6 m	2.5–5 m	4–6 m	5–8 m	6–11 m	2–15 m
Sprinkler distance	2–4 m	3–5 m	4–7 m	3–6 m	3–6 m	4–7 m	5–8 m	7.5–10 m	9–15 m	–

All information at 2 bar

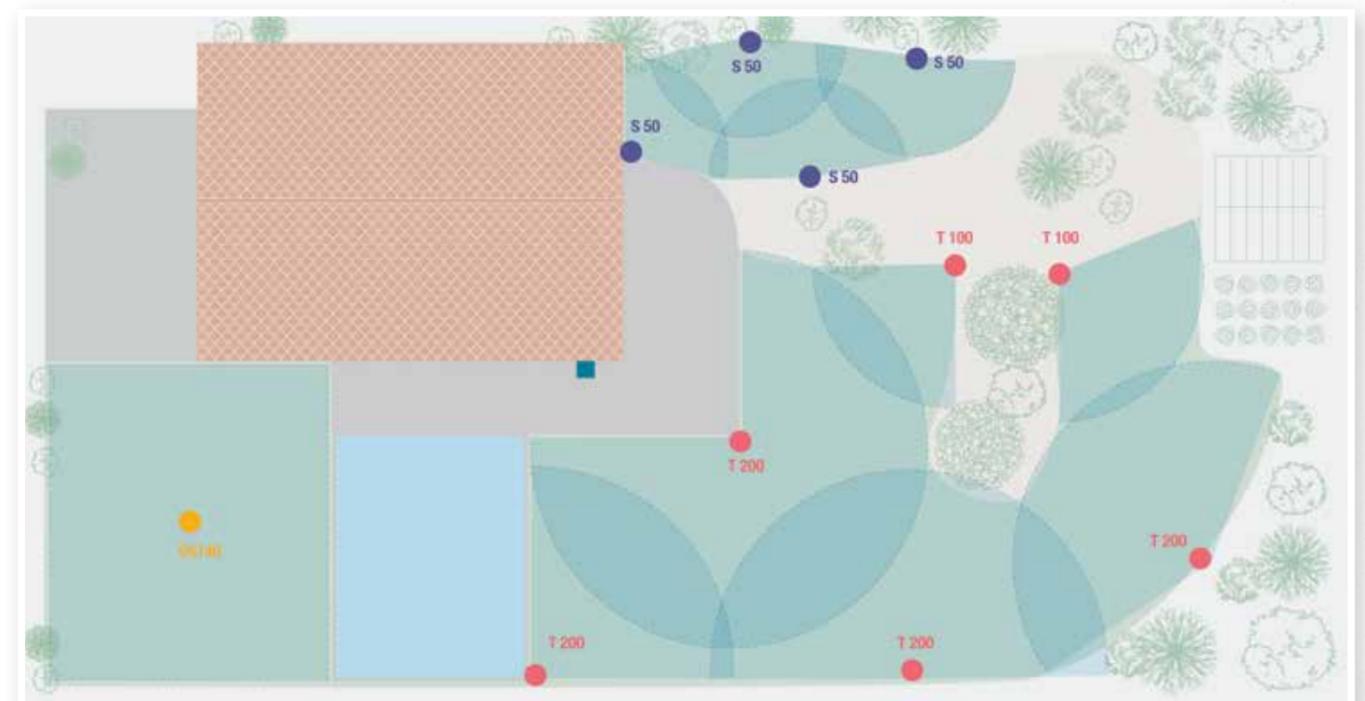
### What you need to know for planning

- Circular sprinklers may and should dispense water by overlapping, as this ensures that water is spread uniformly across the entire area.
- In particularly windy areas, you should reduce the distance between the sprinklers to prevent drift.

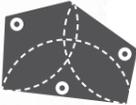
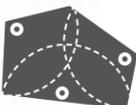
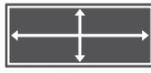
### Sketch

Now take your garden sketch and complete the following:

1. Choose the appropriate sprinklers for the areas in your garden.
2. Add the sprinklers to the sketch. When doing so, note the important information about positioning sprinklers on page 68.
3. Add your chosen sprinklers, with the correct descriptions and required number, to your shopping list.



# Overview

Type	Designation	Planning range	Sector	Sprinkler consumption values (for planning page 71)				Connections	
				5–90° = 6	91–180° = 11	181–270° = 16	271–360° = 20		
Other areas up to 80 m <sup>2</sup> 	S-Models Pop-up Sprinkler	<b>Pop-up Sprinkler S30</b> Pop-up height 100 mm ½" female thread  Art. No. 1554	Radius 1.5–3 m 	5–360°  Distance between sprinklers 2–4 m					½" female thread
		<b>Pop-up Sprinkler S50</b> Pop-up height 100 mm ½" female thread  No. 1555	Radius 2–4 m 	5–360°  Distance between sprinklers 3–5 m					½" female thread
		<b>Pop-up Sprinkler S80</b> Pop-up height 100 mm ½" female thread  Art. No. 1569	Radius 2.5–5 m 	5–360°  Distance between sprinklers 4–7 m					½" female thread
		<b>Pop-up Sprinkler S-CS</b> Pop-up height 100 mm ½" female thread  Art. No. 1552	6–12 m 	Width of spray 1–2 m  Distance between sprinklers 3–6 m	= 15 				½" female thread
		<b>Pop-up Sprinkler S-ES</b> Pop-up height 100 mm ½" female thread  Art. No. 1553	3–6 m 	Width of spray 1–2 m  Distance between sprinklers 3–6 m	= 8 				½" female thread
For higher plants 	<b>Pop-up Sprinkler S80/300</b> Pop-up height 300 mm ¾" male thread  Art. No. 1566	Radius 2.5–5 m 	5–360°  Distance between sprinklers 4–7 m					¾" male thread	
Other areas 	T-Models Turbo-driven Pop-up Sprinklers	<b>Turbo-driven Pop-up Sprinkler T100</b> ½" female thread  Art. No. 8201	Radius 4–6 m 	70–360°  Distance between sprinklers 5–8 m					½" female thread
		<b>Turbo-driven Pop-up Sprinkler T200</b> ½" female thread  Art. No. 8203	Radius 5–8 m 	25–360°  Distance between sprinklers 7,5–10 m					½" female thread
		<b>Turbo-driven Pop-up Sprinkler T380</b> ¾" female thread  Art. No. 8205	Radius 6–11 m 	25–360°  Distance between sprinklers 9–15 m					¾" female thread
Rectangular areas 	<b>Pop-up Oscillating Sprinkler OS 140</b> ¾" female thread  Art. No. 8223	Range 2–15 m 	Width of spray 1–9,5 m 	= 22 				¾" female thread	

## Connections for ½" female thread

### Flexible Connection New!



Art. No. 2739



T-Piece  
Art. No. 2790



Angle Piece  
Art. No. 2764



L-Piece  
Art. No. 2784

### Rigid Direct Connection



T-Piece  
Art. No. 2786



Angle Piece  
Art. No. 2782



L-Piece  
Art. No. 2780

## Connection for ¾" male thread



Art. No. 2761

## Connections for ¾" female thread

### Flexible Connection New!



Art. No. 2740



T-Piece  
Art. No. 2790



Angle Piece  
Art. No. 2764



L-Piece  
Art. No. 2784

### Rigid Direct Connection



T-Piece  
Art. No. 2787



Angle Piece  
Art. No. 2783



L-Piece  
Art. No. 2781

### 3. Choosing the lines

#### A Calculating the connection capacity

Your sprinkler system has a specific need for water. This is what you need to bear in mind when making your choice. If the need for water is greater than the quantity of water that your connection to the water supply can deliver, then include multiple lines in your plan.

If you want to use different amounts of water to water different areas in your garden on an individual basis, you will also need multiple lines that water the areas one after the other. You must determine the connection value of your tap so that you know how many irrigation channels

you can connect. To do this, you first have to calculate the filling time:

- Turn your tap on full and fill a 10-litre bucket.
- Measure the time in seconds it takes to fill the bucket.

#### B Calculating the additional time to add for distance

- How many metres are there between the tap or pump and the furthest sprinkler? Make a note of the distance.

- For each 25 m, one second is added to the bucket fill time. See the sample.

- With a filling time of under 14 seconds and the use of a Water Control, a Water Distributor automatic or a Twin-Tap Connector or Four Channel Water Distributor, an additional 3 seconds are to be added to the filling time.

#### C Connection value

Add the bucket fill time to the additional time to add for distance. Take the connection value from the table.

Seconds	bis 9	10–13	14–19	20–24	25–30
Connection value	100	80	60	40	20

#### Example

Fill time in seconds: + 1 sec per 25 m (here, for example, 29.5 m) = total in seconds  
**10 + 2 = 12 seconds = connection value 80**

#### D Calculating the number of supply lines (irrigation channels)

- Label the sprinklers in your planning sketch with sprinkler consumption values.
- Draw the pipelines (starting at the water supply).

- Please note: Note the connection value. When adding sprinklers to the supply line, ensure that the connection value is not exceeded.
- Please consider the information regarding compatibility on page 68.

- Measure how many metres of connecting pipe you need for your lines. See the sample and garden sketch on the right.

#### Connecting to GARDENA pumps

If you are planning to operate your Sprinklersystem using a pump, connect a piece of 19 mm (¾") hose approximately 1 m in length to the pump using a GARDENA "Profi" Maxi-Flow System Connector Set (Art. No. 1505) to measure the filling time.

#### Pump fill time in seconds for ten-litre buckets

Garden Pumps	Suction height up to		
	3 m	5 m	7 m
Art. No.			
1732	12	15	22
1734	9	12	18
1736	7	10	14

Submersible Pressure Pumps	Delivery height up to			
	3 m	5 m	7 m	10 m
Art. No.				
1771	9.9	10.3	11.3	12.6
1773	9.0	9.3	9.7	10.3
1766	11.6	12.5	14.2	16.8
1476	10	11	12	13
1489	11	12	13	14
1492	10	11	12	13
1499	10	11	12	13

Automatic Home & Garden Pumps / smart Automatic Home & Garden Pump	Suction height up to		
	3 m	5 m	7 m
Art. No.			
1757	20	28	40
1758	12	15	22
1759, 19080, 19106	9	12	18
1760	7	10	14

#### Sprinkler consumption values

Area	S models						T models			Pop-up Oscillating Sprinkler OS 140
	Pop-up Sprinkler S 30	Pop-up Sprinkler S 50	Pop-up Sprinkler S 80	Pop-up Sprinkler S-CS	Pop-up Sprinkler S-ES	Pop-up Sprinkler S 80/300	Turbo-driven Pop-up Sprinkler T 100	Turbo-driven Pop-up Sprinkler T 200	Turbo-driven Pop-up Sprinkler T 380	
0–90°	6	8	9	–	–	13	7	9	15	–
91–180°	11	15	17	–	–	21	10	13	20	–
181–270°	16	22	25	–	–	29	14	17	25	–
271–360°	20	26	32	–	–	35	17	20	30	–

#### Example

##### Calculate the supply lines based on the sprinkler consumption values

The connection value (80 in this example) must not be exceeded by the sprinkler consumption values that you have added up for a supply line.

##### Pipe length per channel

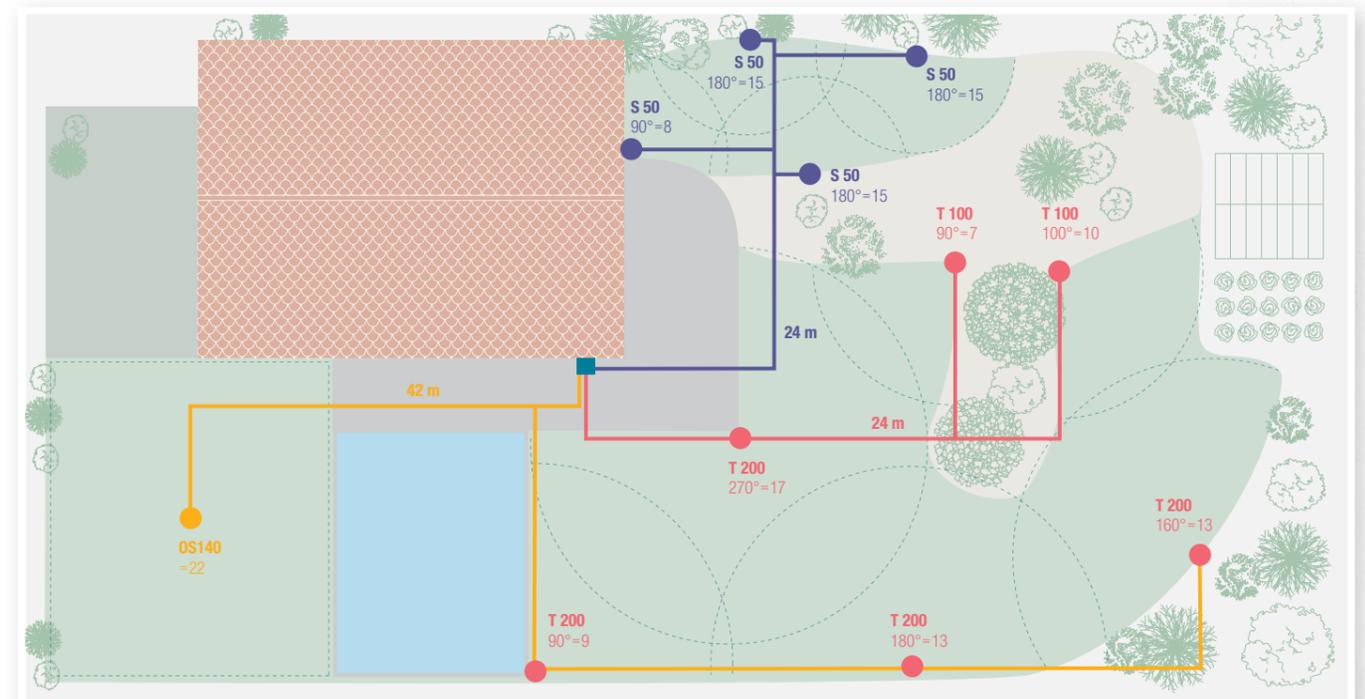
**Channel 1**      22 ■ + 9 ● + 13 ● + 13 ● = 57      = 42 m = a total of 90 m

**Channel 2**      17 ● + 7 ● + 10 ● = 34      = 24 m

**Channel 3**      8 ● + 15 ● + 15 ● + 15 ● = 53      = 24 m

#### Expanding your garden sketch

1. Make a note of the connection value you worked out.
2. Now plot the necessary lines. Keep in mind that the connection value must not be exceeded by the sprinkler consumption values you have added up.
3. Write down the lengths of the pipes and add them up. Connecting pipes come in lengths of 10 m, 25 m and 50 m.

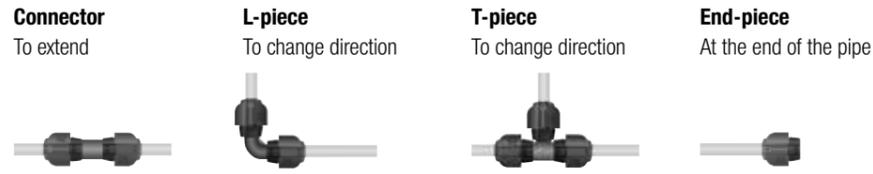


## 4. Choosing connections and connectors

We now turn our attention to line connections, sprinkler connections and drainage valves

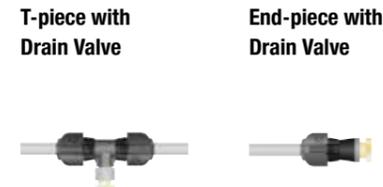
### A Pipe connections

Now work out the connecting parts for the pipe connections and add the quantities you have calculated to your shopping list. See the product overview on page 49.



### B Frost protection

Fit a drain valve for each line to protect your sprinkler system from frost damage. Always install the valve at the lowest point of the pipeline. See the product overview on page 49. Installation instructions on page 75.

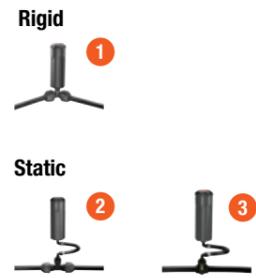


### C Sprinkler connections

Now work out the connecting parts for the sprinkler connections and add them to your shopping list. When doing so, bear in mind which coupler fits your sprinkler. See the product overview on page 50/51 and 68/69.

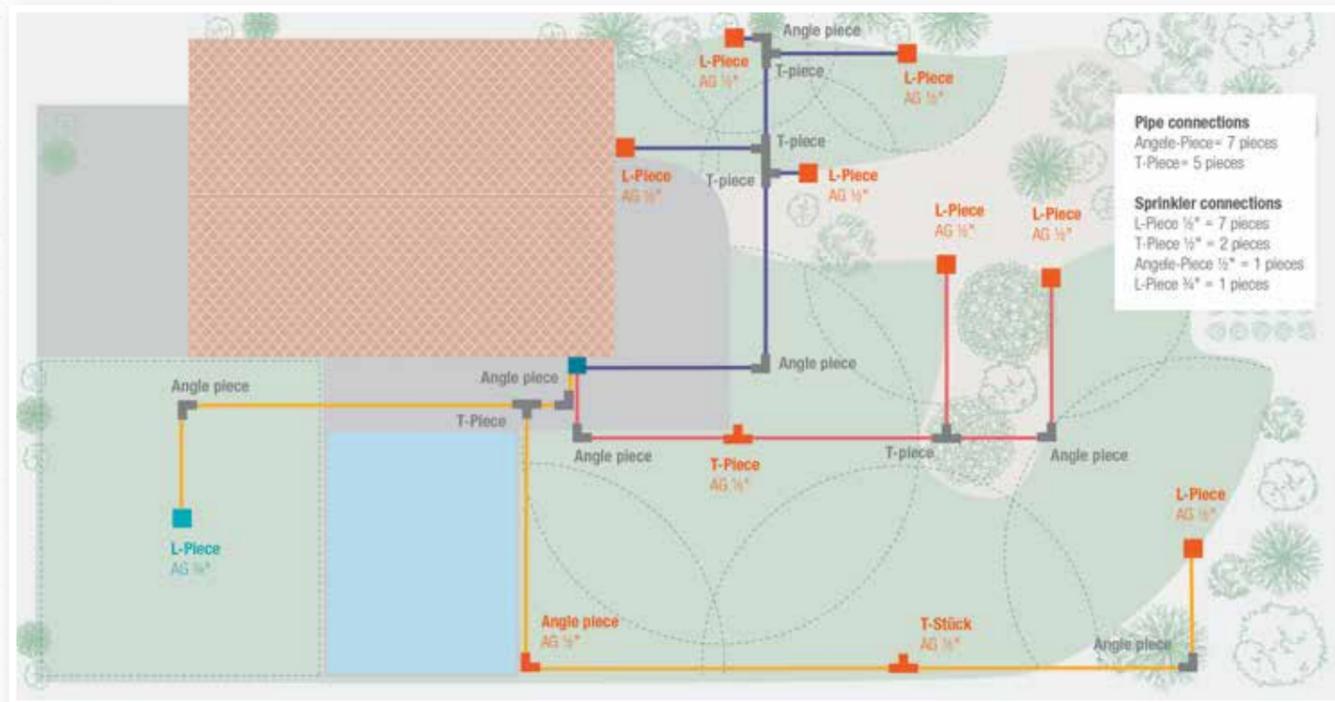
#### Sprinkler connection options for flexible installation

Patented Connection Technology "Quick & Easy" 1 or in combination with the flexible Sprinkler Connections 2739 and 2740 2, for flexible outlining of the Turbo-driven Pop-up Sprinklers and Pop-up Sprinklers. Different options are possible: Within the run of the pipe with T-Piece, corner connection with Angle Piece or end connection with L-Piece. As alternative to the T-Piece: 3 Sattle Clamp for mounting without pipe disconnection.



## Expanding your garden sketch

1. Choose suitable pipe connections and plot them on your plan, adding the required number to your shopping list
2. Choose suitable sprinkler connections and plot them on your plan, adding the required number to your shopping list



## 5. Choosing a control system

Now we come to the control system. This is the heart of the system.

Sprinkler systems come in either single-channel or multi-channel systems. Multi-channel systems are systems with two or more irrigation lines. If you favour a multi-channel solution, you will always have the option of expanding the system at a later date if you wish to add other irrigation areas.

### Electricity supply available

#### Up to 6 irrigation channels

A 24 V Irrigation Valve (1278) is connected before every irrigation channel. The GARDENA Irrigation Control System sends signals to the Irrigation Valves to open and close up to 6 irrigation channels via the Connection Cable.

You can find more information about Multi-Channel Control systems on page 40.



### No electricity supply available

#### Any number of irrigation channels

An Irrigation Valve 9 V Bluetooth® (1285) is connected before every irrigation channel. All configuration is done in the GARDENA Bluetooth® App and - via Bluetooth® - sent to the control unit on top of the valve. The valves are opened and closed then according to the scheduled settings in the app. The benefit for you is that you can position the valves anywhere in the garden. A new 9 V battery works for a whole season.

You can find more information about Multi-Channel Control systems on page 40.



### Connecting the system

The system can be connected in no time at all thanks to Quick&Easy technology. The detailed product overview can be found on page 49. Add all necessary products to your shopping list. We recommend the following products when it comes to connecting the system:



#### Connecting Point

For the underground connection of Pipeline and Sprinklersystem

#### "Profi" Maxi-Flow System Connector Set

For the connection of the Pipeline and the Sprinkler-system to the water tap

#### "Profi" Maxi-Flow System Connection Set

Komplett-Set zum Anschluss von Pipeline und Sprinklersystem an die Wasserversorgung

#### Valve Box V3

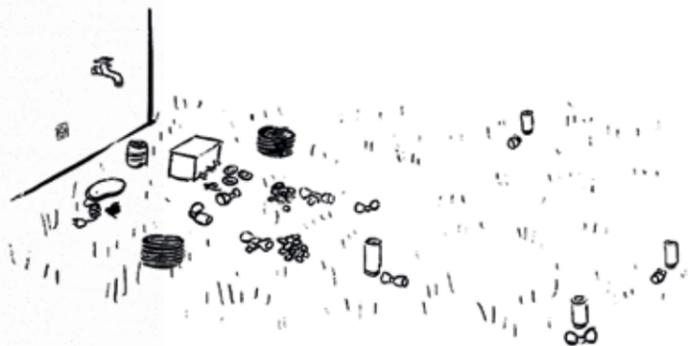
For up to 3 Irrigation Valves 9 V or 24 V

#### Various connection pieces

To connect to connecting points, water connectors, valves and valve boxes or to connect directly to home wiring

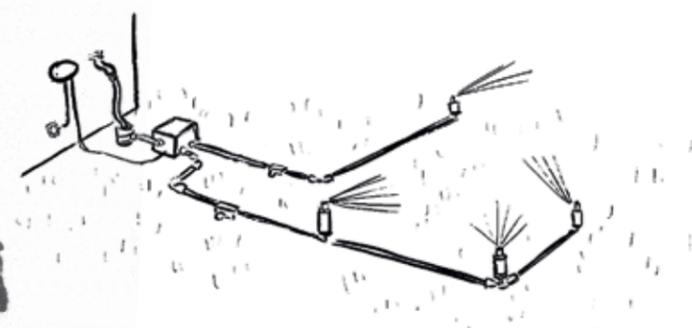
## 6. Installing the system

There are only a few more things you need to do before you can sit back and relax whilst irrigation takes place. Here are a few easy steps to allow you to professionally install your sprinkler system.\*



**A** Lay out all the parts in your garden in accordance with the plan. When doing so, start at the beginning of your watering system.

**Tip: Unwinding the pipelines one to two hours beforehand and laying them out in the sun makes them easy to straighten.**



**E** **Important! Now check that your sprinkler system is watertight.** To check this, carry out a test run before you lay the system underground. If the sprinkler system is watertight, continue to Step F. If it is not watertight, check to see if the pipes are actually placed as far as they will go into the coupler.



**I** Now replace the soil, lay the turf on the soil and tread down. Everything will grow back faster if you water the soil and turf beforehand. After two to three weeks, you will not be able to see the system any more.



clean

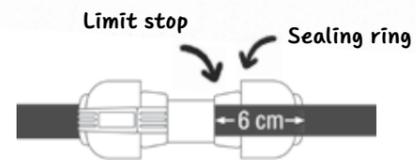
deburr

**B** Cut the pipes to the correct length in accordance with the plan. Make sure that no soil enters the pipeline. If necessary, deburr the pipe, i.e. remove any dirty cut edges.



**F** Use a spade to cut out a v-shaped pipe trench approx. 20-25 cm deep. When doing so, carefully remove the turf that you have dug out and dig out the trench. Remove any stones from the trench.

**Tip: Mow the lawn and water it beforehand. This will make the process easier.**

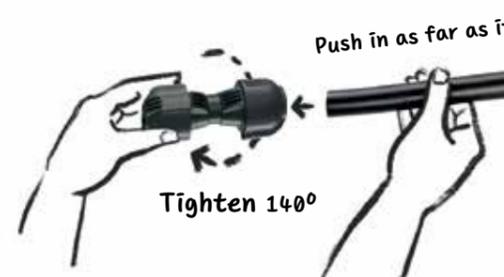


Limit stop

Sealing ring

Push in as far as it will go

Tighten 140°



**C** Now connect the elements. Push the pipes approx. 6 cm into the connecting part over the O-ring, creating a water-tight connection. Caution: a sealing ring is positioned after approx. 4 cm. At this point, push the pipe further into the hole.



**G** Lay lines with sprinklers and components connected in the trench. All sprinklers, connecting points, and water connectors must be installed flush with the ground surface. The head including recessed grip should be above the ground for regular cleaning.



**D** Now adjust the spray direction, the sectors and the reach on the sprinkler. Simply use a screwdriver to turn the upper screw. This will allow you to regulate the range.



**H** The drain valves are installed at the lowest points of the system. On slopes, the height difference between the drain valves must not exceed 2 m. Install several drain valves on slopes if necessary. To improve drainage and to protect the drain valve underlay it with a seeping water drain packing (washed, coarse gravel, approx. 20 × 20 × 20 cm). Before fitting the drain valves, flush the system to remove any contamination that may have entered the system during installation. The drain valves automatically open after watering, as soon as the water pressure is less than 0.2 bar, and drain the line.

\* If you want to install the system yourself, please be aware that we cannot accept any liability for any costs and damage that could occur as a result.

## Maintenance tips & tricks

Here are some tips that will help you prolong the life of your system.



### Central Filter

If water is supplied to the irrigation system via a pump, sand may enter the pipeline system and causes your sprinkler to malfunction. Therefore, always use a central filter if the water is supplied via a pump.



### Changing from 19 mm or 32 mm to 25 mm pipe connections

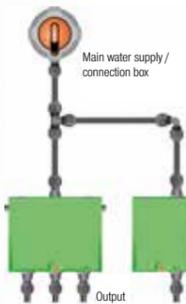
Did you install your GARDENA Sprinklersystem before 2020 and now want to extend or upgrade it?

- For changing from the 19 mm connecting pipe to the 25 mm pipe, use the Adapter Piece art. no. 1513 combined with the Connector 25 mm × 1" male thread Art. no. 2763.
- For changing from the 32 mm connecting pipe to the 25 mm pipe, use the Reduction Connector Art. no. 2777.



### Continuous pressure-resistant connection

To guarantee a continuous pressure-resistant connection, the tap and connecting point (2722) should be connected using a 3/4" hose and two adapter pieces (1513).



### Combining V3 valve box with V1 valve box

The V3 valve box is connected to the water supply. You can also combine it with a V1 valve box. To do so, branch off a connecting pipe and connect it to the V1 valve box.

**Tip:** If you want to install more than one valve box next to each other, we recommend screwing the valve boxes to a wooden board, thus fixing them into place.



### High water pressure

The sprinklers and pipes are approved for an operating pressure of up to 6 bar. If the water pressure is higher, a pressure reduction unit must be fitted. For questions regarding correct connection to the domestic water supply network, please ask your local sanitary works specialist.



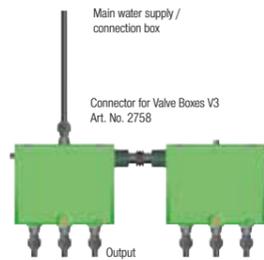
### Frost protection

Disconnect your irrigation system from the supply line before the first frost sets in. Observe the notes on frost protection for the individual products.



### Most commonly used tools

Secateurs to cut pipes, screwdrivers (flat-tip or Phillips-head) to adjust the sprinkler, spades to bury pipes.



### Combining V3 and V3 valve box

V3 valve boxes can be very easily combined with each other, assembled and disassembled. The telescopic screw connection ensures this can be done.



## Sprinklersystem shopping list

Art. No.	Designation
<b>Pop-up Sprinkler</b>	
8223	Pop-up Oscillating Sprinkler OS 140 3/4" female thread
8201	Turbo-driven Pop-up Sprinkler T 100 1/2" female thread
8203	Turbo-driven Pop-up Sprinkler T 200 1/2" female thread
8205	Turbo-driven Pop-up Sprinkler T 380 3/4" female thread
1554	Pop-up Sprinkler S 30 1/2" female thread
1555	Pop-up Sprinkler S 50 1/2" female thread
1569	Pop-up Sprinkler S 80 1/2" female thread
1552	Pop-up Sprinkler S-CS 1/2" female thread
1553	Pop-up Sprinkler S-ES 1/2" female thread
1566	Pop-up Sprinkler S 80/300 3/4" male thread
<b>Sprinkler connection</b>	
2780	L-Piece 25 mm × 1/2" male thread
2782	Angle Piece 25 mm × 1/2" male thread
2784	L-Piece 25 mm × 3/4" male thread
2764	Angle Piece 25 mm × 3/4" female thread
2739	Sprinkler Connection 3/4" × 1/2"
2740	Sprinkler Connection 3/4" × 3/4"
2728	Saddle Clamp 25 mm × 3/4" female thread
2765	Cutter for Saddle Clamp 3/4" thread
2786	T-Piece 25 mm × 1/2" male thread
2781	L-Piece 25 mm × 3/4" male thread
2783	Angle Piece 25 mm × 3/4" male thread
2787	T-Piece 25 mm × 3/4" male thread
2790	T-Piece 25 mm × 3/4" female thread
2761	Connector 25 mm × 3/4" female thread
<b>Supply line</b>	
2718	10 m – Connecting Pipe 25 mm
2700	25 m – Connecting Pipe 25 mm
2701	50 m – Connecting Pipe 25 mm
<b>Supply line connections</b>	
2771	T-Piece 25 mm
2773	L-Piece 25 mm
2775	Connector 25 mm
2777	Reduction Connector 32 mm – 25 mm
2778	End-Piece 25 mm
<b>Frost protection</b>	
2760	Drain Valve (connection 3/4" male thread)

Art. No.	Designation
<b>Multi-Channel Control System with electricity supply</b>	
1283	Irrigation Control System 4030
1284	Irrigation Control System 6030
19209	smart Irrigation Control Sensor Set
1278	24 V Irrigation Valve
1280	Connection Cable, 15 m
1282	Cable Clip (contents: 6 pieces)
<b>Multi-Channel Control System without electricity supply</b>	
1285	Irrigation Valve 9V Bluetooth®
1286	Valve Box 9V Bluetooth® Set
1287	Control Unit 9V Bluetooth®
<b>Multi-Channel Control System Valve Boxes</b>	
1254	Valve Box V1
1255	Valve Box V3
1286	Valve Box 9V Bluetooth® Set
2758	Connector for Valve Boxes V3
<b>System connection</b>	
2722	Connecting Point
1505	"Profi" Maxi-Flow System Connector Set
2713	"Profi" Maxi-Flow System Connection Set
1513	Adapter Piece 26.5 mm (G3/4") / 33.3 mm (G1")
1510	Central Filter
2724	Regulator and Shut-Off Valve
2762	Connector 25 mm × 1" female thread
2763	Connector 25 mm × 1" male thread
<b>Expansions Sensor</b>	
1867	Soil Moisture Sensor
19040	smart Sensor
<b>Expansions Pipeline</b>	
8250	Water Connector
8254	Water Plug
8255	Starter Set for Garden Pipeline

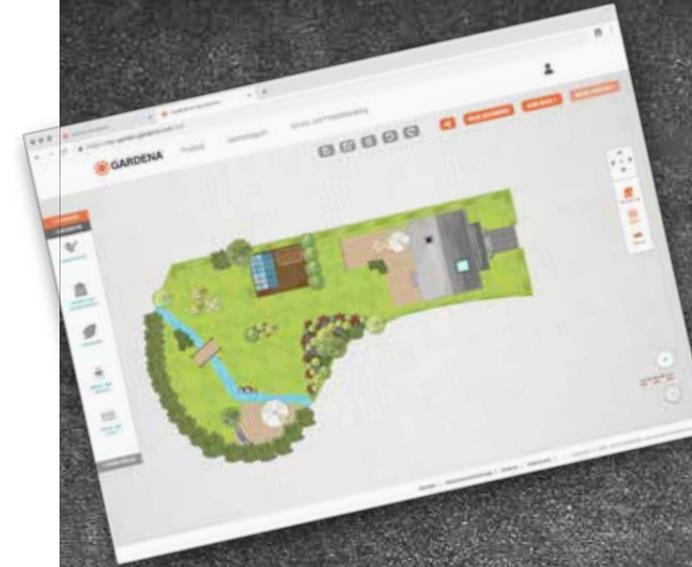
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## Micro-Drip-System shopping list

Art. No.	Designation	Content	Quant
<b>System start and accessories</b>			
1	1355 Master Unit (water flow up to 1000l/h)	1	
2	1354 Master Unit (water flow up to 2000l/h)	1	
3	8313 Fertilizer Dispenser	1	
4	8322 Installation Tool	1	
<b>Supply Lines and Pipe Guides</b>			
5	1346 Connecting Pipe (13 mm, 1/2"), 15 m	1	
5	1347 Connecting Pipe (13 mm, 1/2"), 50 m	1	
6	1350 Supply Pipe (4.6 mm, 3/16"), 15 m	1	
6	1348 Supply Pipe (4.6 mm, 3/16"), 50 m	1	
7	8358 Shut-Off Valve (13 mm 1/2")	1	
7	8357 Shut-Off Valve (4.6 mm 3/16")	2	
8	8380 Pipe Clip (13 mm 1/2")	2	
8	8379 Pipe Clip (4.6 mm 3/16")	5	
9	1328 Pipe Pegs (13 mm 1/2")	5	
9	1327 Pipe Pegs (4.6 mm 3/16")	10	
10	8328 Pipe Guide (13 mm 1/2")	3	
10	8327 Pipe Guide (4.6 mm 3/16")	3	
<b>Connectors and Accessories</b>			
11	8339 4-Way Coupling (13 mm 1/2")	2	
11	8334 4-Way Coupling (4.6 mm 3/16")	10	
12	8333 Reducing T-Joint (13 mm 1/2")	5	
13	8329 T-Joint (13 mm 1/2")	2	
13	8330 T-Joint (4.6 mm 3/16")	10	
14	8382 L-Joint (13 mm 1/2")	2	
14	8381 L-Joint (4.6 mm 3/16")	10	
15	8356 Connector (13 mm 1/2")	3	
15	8337 Connector (4.6 mm 3/16")	10	
16	8324 Plug (13 mm 1/2")	5	
16	1323 Plug (4.6 mm 3/16")	10	
17	8331 T-Joint for Spray Nozzles (13 mm 1/2")	5	
17	8332 T-Joint for Spray Nozzles (4.6 mm 3/16")	5	
18	1377 Extension Pipe for Spray Nozzles	5	
19	1374 Control Valve for Spray Nozzles	5	
20	8363 Extension Pipe for Oscillating Sprinkler OS 90	2	

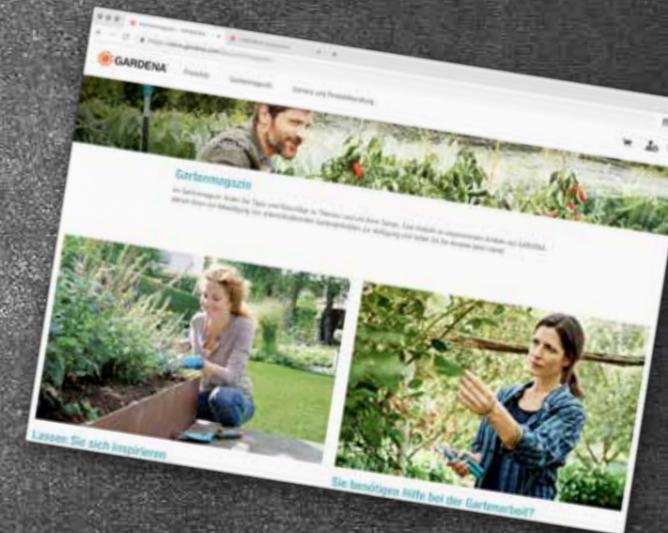
Art. No.	Designation	Content	Quant
<b>Start Sets for plant pots</b>			
	13000 Start Set Flower Pots S	1	
	13001 Start Set Flower Pots M	1	
	13002 Start Set Flower Pots M automatic	1	
<b>Endline drip heads for plant pots</b>			
21	1340 Endline Drip Head, 2l/h	25	
22	8310 Endline Drip Head (pressure equalizing), 2l/h	10	
23	1391 Adjustable Endline Drip Head, 0–10l/h	10	
24	8316 Adjustable Endline Drip Head (pressure equalizing), 1–8l/h	5	
<b>Inline drip heads for plant troughs</b>			
25	8343 Inline Drip Head, 2l/h	10	
26	8311 Inline Drip Head (pressure equalizing), 2l/h	10	
27	8392 Adjustable Inline Drip Head, 0–10l/h	10	
28	8317 Adjustable Inline Drip Head (pressure equalizing), 1–8l/h	5	
<b>Start Sets for Planted areas</b>			
	13015 Start Set Planted Areas	1	
<b>Nozzles and Sprinklers for Planted areas</b>			
29	1372 Endline Micro Strip Sprinkler	5	
30	1370 Micro Strip Sprinkler	5	
31	1396 6-Pattern Spray Nozzle	2	
32	1369 Micro Rotor Sprinkler 360°	2	
33	1371 Micro Mist Nozzle	5	
34	1365 Spray Nozzle 360°	5	
34	1367 Spray Nozzle 180°	5	
34	1368 Spray Nozzle 90°	5	
35	8320 Small Area Spray Nozzle	10	
36	8321 Small Area Spray Nozzle (4.6 mm 3/16")	10	
37	8364 Oscillating Sprinkler OS 90	1	
<b>Start Sets for Rows of plants</b>			
	13010 Start Set Rows of Plants S	1	
	13011 Start Set Rows of Plants M	1	
	13012 Start Set Rows of Plants M automatic	1	
	13013 Start Set for Rows of Plants L	1	
	1389 Start-Set Irrigation Line for Rows of Plants, subterranean,	1	
<b>Water Controls</b>			
	1169 Water Timer	1	
	1890 Flex	1	
	1891 Select	1	
	1889 Bluetooth®	1	
	1892 Master	1	
	1874 MultiControl duo	1	
	19031 smart Water Control	1	
	19040 smart Sensor	1	
	1867 Soil Moisture Sensor	1	
	1868 Extension Cable	1	
	1197 Water Distributor automatic	1	

# Discover GARDENA online



## GARDENA My Garden

This is where you can design and plan your dream garden. The free online tool also offers automatic planning for sprinkler systems.  
[www.gardena.com/mygarden](http://www.gardena.com/mygarden)



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