Clever watering systems.
Every drop counts.

gardena.com
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Every drop counts
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.
A beautiful lawn can be quite challenging: it needs regular cutting, some fertilizer 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.

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. 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

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

4. 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

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

7. LAWNS: Sprinkler system irrigation: good for you and your lawn. Page 28

8. 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

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

11. MULTI-CHANNEL CONTROL SYSTEM – UNDERGROUND: As the pipe work is placed underground, nothing will be visible above ground. Page 40

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.
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
• It 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.
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.

How does it work?
It uses a spray nozzle and a water stopper.

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.

What does it look like?
The light grey of the hose blends in harmoniously with the architecture and design.

Outdoor Cooling Mist Set

Mounting clip for quick installation
This allows you to easily clamp the Cooling Mist Set whenever 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.

City gardening
Outdoor Cooling Mist Set consists of:
10 m hose, 7 Micro Mist Nozzles (incl. 1 Micro Mist Nozzle with water stop), 13 fixing clamps, hose connector and Control valve coupling.
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 day.
- 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).

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**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.
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.

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, route 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!

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

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, verbena, pelargoniums, 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

Ideal water supply
Either constant or adjustable water flow.

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.

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

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.
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 nozzles, everything is possible and all elements can be used in conjunction with each other.

Extending and regulating

Simply screw the extension pipe into the pipe and use the pipe guide to steady it.

Fit regulator in front of the nozzle.

The extension pipe can be used to extend the spray nozzles. You can regulate the flow rate and the reach.

Use a pipe clip to secure to the ground.

Thicker pipe: better pressure, more water.

With the T-Joint for Spray Nozzles (8332) spray nozzles can be fixed in the MDS-Supply Pipe 4.6 mm.
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.

Above-ground for hedges

13 mm (½”) 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.

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.

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.
Overview Pipeline and Sprinklersystem

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 newfound freedom from having to water your garden.

Connecting Point

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

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.

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.

Frost protection
The automatic drain valves protect the system against frost.

GARDENA Pipeline
Have you had enough of dragging your hose all over your garden? Then the GARDENA Pipeline is the ideal solution for you. It is laid permanently underground, allowing you to create discreet water supply points in the garden.

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.

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.

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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 now you 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.

Connecting Point

The connecting point is the practical system start for the pipeline and Sprinklersystem. It connects the tap to the below-ground GARDENA sprinkler system, 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.
As if by magic: It’s raining from below

Connecting Point
Valve Box
T-piece with Drain Valve

AquaContur
Individually tailor your irrigation system to the perimeter of your garden. Use outline corner points as an easy way to programme the perimeter of your garden.

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 m². 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 m². Can be used with other S-model pop-up sprinklers within a pipeline. For narrow irrigation areas through to 360°.

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

Do it yourself
Page 64
GARDENA Irrigation Planner „My Garden“ on www.gardena.com/mygarden
Service
Phone: +49 (0) 7 31/4 90-246
Telefax: +49 (0) 7 31/4 90-389
service@gardena.com

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.

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.

Connection technology
Can be assembled in no time thanks to patented Quick&Easy quick connection technology.

Drain valve
Winter frost? No problem! The automatic drain valves protect the system against frost.
GARDENA smart system

With an intelligent irrigation system and robotic lawnmower, your garden is taken care of, from anywhere.

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

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.

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

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.

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 m². 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 Gateway
Connecting your GARDENA smart App to your smart garden, via your home WiFi or LAN cable.

Start with the application of your choice
The smart system stars

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

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 Sprinkler system
- Can be used with up to six smart Sensors

smart Sensor

What for
- Measures light intensity, 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

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

You can find out more about the GARDENA smart system at www.gardena.com/smart

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.

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!
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- 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.

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

You can find out more about the GARDENA smart system at www.gardena.com/smart

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: 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. You fit this system straight to the tap and the water starts to flow, fully automatically, according to your time settings.

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.

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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.

Special features

- **UNIQUE USER INTERFACE**
  - Simple and intuitive programming thanks to the push and turn principle
  - The model-based, user-oriented time setting ensures that each user finds the ideal device for them
  - Menu language can be selected (only Water Control Master)

- **HIGH QUALITY**
  - Weather-resistant electronics
  - Corrosion-resistant valve
  - Pressure-resistant 0.5–12 bar

- **BATTERY OPERATED**
  - 1 x 9V battery (not incl.), sufficient for a whole season

- **MANUAL WATERING**
  - At the touch of a button, it is possible to manually water your garden or retrieve water, to fill a bucket at any time without needing to remove the control system

- **DETACHABLE CONTROL PANEL**
  - Can be conveniently adjusted thanks to the detachable, sloping control panel (does not apply to Manual Tap Timer)

- **SAFE STOP**
  - For an even better feeling: 100% safe closing. The irrigation process will not start if the battery is too low for it to stop again
  - Battery status indication

- **KEY LOCK**
  - A simple key lock means you avoid accidentally altering the settings

- **OPTION TO CONNECT**
  - A SOIL MOISTURE SENSOR
  - Water your garden even more efficiently when combined with a sensor — irrigation is paused if the soil is already sufficiently moist

Tips and tricks

For those who appreciate efficiency

You can use the twin-tap connector to connect two connection devices to a tap at the same time. Fit a GARDENA Water Control or Manual Tap Timer to the distributor. This allows you to keep the other outlet free.

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

Not sure when, how long and how often you should water your garden?
When: The ideal time is early in the morning as there will be less evaporation and plants will be healthier.
Duration and frequency: Adjust according to the plants’ needs – water planters little and often, such as for 10 minutes every 24 hours. Water planted areas for a bit longer, daily or every two days. Water lawns intensively two to three times per week. This will enable the roots to grow deeper and the grass will become stronger.
Put an end to watering. Your garden can do that itself

With the Multi-Channel Control for the complex 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 are sent 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 fully automatically and cable-free: Just enter the data into the Programming Unit 1 and press the button to transfer it to the Controller 2. Now fit the Controller to the 9 V Irrigation Valve 3 in the Valve Box 4. A Soil Moisture Sensor 5 can be connected to the Controller as an option. Battery operation renders GARDENA Irrigation Valves independent from the power supply. You can install the valve boxes anywhere in the garden.

Tips and tricks

smart Irrigation Control
With the GARDENA smart Irrigation Control, up to six completely independent irrigation zones can be controlled flexibly via the smart App.
Product overview

NatureUp!

Sets with automatic irrigation

Outdoor Cooling Mist Set

Holiday and Balcony Watering

---

NatureUp! Vertical Basic Set
NatureUp! Vertical Wall Bracket
NatureUp! Connection Clip
NatureUp! Fastener

Contents Water Control Easy Plus, 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

Art. No. 13137 13138

NatureUp! Basic Vertical Set with irrigation
NatureUp! Vertical Watering Set Tap
NatureUp! Corner Watering Set Tap
NatureUp! Extension Watering Set Water Container

Contents 5 vertical planters (including 5 covers and 20 clips), 1 base plate, 2 braces, NatureUp! Vertical Watering Set Tap (13156)

Art. No. 13151 13155 13153 13162

NatureUp! Corner Basic Set
NatureUp! Corner Wall Bracket

Art. No. 13150 13153 13162

NatureUp! Vertical Wall Bracket

Art. No. 13163 13164 13166

NatureUp! Vertical Watering Set Tap
NatureUp! Corner Watering Set Tap

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

Art. No. 13157

NatureUp! Connection Clip

Art. No. 13164 13166

NatureUp! Fastener

Art. No. 13168

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Outdoor Cooling Mist Set

City gardening Outdoor Cooling Mist Set automatic
City gardening Micro Mist Nozzle

Contents Water Control Easy Plus, 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

Art. No. 13137 13138

---

Holiday and Balcony Watering

City gardening Holiday Watering
City gardening Holiday Watering with water container
City gardening Balcony Watering
Solar-powered Irrigation Aquablue Set

Use outdoor/indoor Indoor Indoor Indoor Outdoor Outdoor
Water connection required — — — — —
Power connection required • • • • •

Art. No. 1265 1266 1407 13300

---
Micro-Drip-System System start and accessories

<table>
<thead>
<tr>
<th>Product Overview</th>
<th>Pressure - filtering</th>
<th>Fertilisation</th>
<th>Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Master Unit 10001/h</td>
<td>To operate the GARDENA Micro-Drip-System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Master Unit 20001/h</td>
<td>To operate the GARDENA Micro-Drip-System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Fertilizer Dispenser¹</td>
<td>With level indicator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Installation Tool</td>
<td>Multi-functional tool for the easy installation of the GARDENA Micro-Drip-System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Pipes and accessories

<table>
<thead>
<tr>
<th>Product Overview</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Connecting Pipe</td>
<td>Central supply line for the micro-drip system, can be laid above-ground or underground</td>
<td>For guiding and fastening the connecting pipe/supply pipe in connection with a 4-piece for spray nozzles and extension pipes</td>
<td></td>
</tr>
<tr>
<td>2. Supply Pipe</td>
<td>For guiding and fastening the connecting pipe/supply pipe in connection with a T-piece for spray nozzles and extension pipes</td>
<td>For directing and fastening the connecting pipe/supply pipe</td>
<td></td>
</tr>
<tr>
<td>3. Shut-Off Valves¹</td>
<td>Shut-off device for individual strands of the connecting pipe 13 mm (½&quot;) (Art. No. 1348/1350) and infinitely variable control of the range of the 360° spray nozzle</td>
<td>Universal tool for installing various items and perforating the connecting pipe</td>
<td></td>
</tr>
</tbody>
</table>

### Pipe pegs

<table>
<thead>
<tr>
<th>Product Overview</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pipe Pegs</td>
<td>The Pipe Peg is used to route and securely fasten the supply pipe in the ground</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Pipe Peg Guide</td>
<td>To fasten the pipes in the ground.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Accessories for spray nozzles and sprinklers

<table>
<thead>
<tr>
<th>Product Overview</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. T-Joint for Spray Nozzles</td>
<td>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 nozzle with an extension pipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Extension Pipe for Spray Nozzles</td>
<td>Enables the spray nozzles to water taller plants</td>
<td>Regulates water flow and spray nozzle range</td>
<td></td>
</tr>
<tr>
<td>3. Control Valve for Oscillating Sprinkler</td>
<td>For accurately changing the direction of the oscillating sprinkler</td>
<td>To control the water flow and range of the oscillating sprinkler</td>
<td></td>
</tr>
</tbody>
</table>

### Pipe connectors

<table>
<thead>
<tr>
<th>Product Overview</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 4-Way Couplings</td>
<td>Junction for the connecting pipe/supply pipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Reducing T-Joint</td>
<td>Adapter from the connecting pipe to the supply pipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. T-joints</td>
<td>For accurately changing the direction of the connecting pipe/supply pipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Connectors</td>
<td>For extending the connecting pipe/supply pipe</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Plug

<table>
<thead>
<tr>
<th>Product Overview</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Plug</td>
<td>For sealing off the connecting pipe/supply pipe</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

###管道和配件

<table>
<thead>
<tr>
<th>产品概览</th>
<th>压力过滤</th>
<th>肥料化</th>
<th>组装</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 连接管</td>
<td>微滴灌系统中央供料线，可铺设于地面或地下</td>
<td>用于连接管道/供水管的管道</td>
<td></td>
</tr>
<tr>
<td>2. 供水管</td>
<td>用于引导和固定连接管道/供水管</td>
<td>用于连接管道/供水管</td>
<td></td>
</tr>
<tr>
<td>3. 截断阀¹</td>
<td>单个喷头的切断装置</td>
<td>用于安装各种物品和钻孔连接管</td>
<td></td>
</tr>
</tbody>
</table>

###管道搭扣

<table>
<thead>
<tr>
<th>产品概览</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 管道搭扣</td>
<td>用于铺设和固定管道/供水管</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. 管道导管</td>
<td>用于管路的固定</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

###喷头和洒水器的附件

<table>
<thead>
<tr>
<th>产品概览</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. T形接头</td>
<td>用于喷头的连接</td>
<td>调整洒水器的喷射范围</td>
<td></td>
</tr>
<tr>
<td>2. 扩展管</td>
<td>用于洒水器的延伸和控制</td>
<td>调整洒水器的喷射范围</td>
<td></td>
</tr>
<tr>
<td>3. 控制阀</td>
<td>调节洒水器的喷射范围</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 扩展管</td>
<td>用于洒水器的切换</td>
<td>调整洒水器的喷射范围</td>
<td></td>
</tr>
</tbody>
</table>
Micro-Drip-System for Flower Pots and Planters

Starter Sets

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starter Set Flower Pots S</td>
<td>13000</td>
</tr>
<tr>
<td>For 5 plant pots</td>
<td></td>
</tr>
<tr>
<td>Starter Set Flower Pots M</td>
<td>13001</td>
</tr>
<tr>
<td>For 7 plant pots or 3 plant troughs</td>
<td></td>
</tr>
<tr>
<td>Starter Set Flower Pots M automatic</td>
<td>13002</td>
</tr>
<tr>
<td>For extending (5) Flower Pots M</td>
<td></td>
</tr>
<tr>
<td>Extension Set Flower Pots</td>
<td>13005</td>
</tr>
<tr>
<td>Extension Set Planters</td>
<td>13006</td>
</tr>
</tbody>
</table>

Endline drip heads

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endline Drip Head</td>
<td>1372</td>
</tr>
<tr>
<td>Adjustable Endline Drip Head</td>
<td>1370</td>
</tr>
<tr>
<td>Adjustable Endline Drip Head Pressure equalizing, self-cleaning, self-closing</td>
<td>1396</td>
</tr>
<tr>
<td>Adjustable Endline Drip Head Pressure equalizing and self-cleaning</td>
<td>1369</td>
</tr>
</tbody>
</table>

Inline drip heads for plant troughs

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inline Drip Head</td>
<td>8343</td>
</tr>
<tr>
<td>Adjustable Inline Drip Head</td>
<td>8311</td>
</tr>
<tr>
<td>Adjustable Inline Drip Head Pressure equalizing, self-cleaning, self-closing</td>
<td>8332</td>
</tr>
<tr>
<td>Adjustable Inline Drip Head Pressure equalizing and self-cleaning</td>
<td>8317</td>
</tr>
</tbody>
</table>

Spray nozzles for planted beds

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endline Micro Strip Sprinkler</td>
<td>13015</td>
</tr>
<tr>
<td>Endline Micro Strip Sprinkler 90°</td>
<td>13000</td>
</tr>
<tr>
<td>Endline Micro Strip Sprinkler 180°</td>
<td>13001</td>
</tr>
<tr>
<td>Endline Micro Strip Sprinkler 360°</td>
<td>13002</td>
</tr>
<tr>
<td>Micro Strip Sprinkler</td>
<td>13003</td>
</tr>
<tr>
<td>6-Pattern Spray Nozzle</td>
<td>13004</td>
</tr>
<tr>
<td>Micro Rotor Sprinkler 360˚</td>
<td>13005</td>
</tr>
<tr>
<td>Micro Mist Nozzle</td>
<td>13006</td>
</tr>
</tbody>
</table>

Spray nozzles and sprinklers for planted beds

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oscillating Sprinkler OS 90</td>
<td>13007</td>
</tr>
<tr>
<td>Oscillating Sprinkler OS 90 Watering of square and rectangular areas</td>
<td>13008</td>
</tr>
</tbody>
</table>

Micro-Drip-System for Planted areas

Starter set

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starter Set Planted Areas</td>
<td>13015</td>
</tr>
</tbody>
</table>

Spray nozzles for planted beds

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
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<td>Endline Micro Strip Sprinkler</td>
<td>13015</td>
</tr>
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</tr>
<tr>
<td>Endline Micro Strip Sprinkler 180°</td>
<td>13001</td>
</tr>
<tr>
<td>Endline Micro Strip Sprinkler 360°</td>
<td>13002</td>
</tr>
<tr>
<td>Micro Strip Sprinkler</td>
<td>13003</td>
</tr>
<tr>
<td>6-Pattern Spray Nozzle</td>
<td>13004</td>
</tr>
<tr>
<td>Micro Rotor Sprinkler 360˚</td>
<td>13005</td>
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Spray nozzles and sprinklers for planted beds

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</tr>
<tr>
<td>Oscillating Sprinkler OS 90 Watering of square and rectangular areas</td>
<td>13008</td>
</tr>
</tbody>
</table>
Micro-Drip-System for rows of plants

Starter sets drip irrigation line

<table>
<thead>
<tr>
<th>Length</th>
<th>to 15 m</th>
<th>to 25 m</th>
<th>Automatic</th>
<th>to 50 m</th>
<th>to 50 m underground</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Set for Rows of Plants S Above Ground Drip Irrigation Line¹</td>
<td>Set</td>
<td>Set</td>
<td>Set</td>
<td>Set</td>
<td>Set</td>
</tr>
<tr>
<td>Internal pipe diameter</td>
<td>4.6 mm (¾&quot;)</td>
<td>13 mm (½&quot;)</td>
<td>13 mm (½&quot;)</td>
<td>13 mm (½&quot;)</td>
<td>13.7 mm</td>
</tr>
<tr>
<td>Contents</td>
<td>With Master Unit and Pipe Peg</td>
<td>With Master Unit and Pipe Peg</td>
<td>With Water Control, Master Unit and Pipe Peg</td>
<td>With Master Unit</td>
<td>With Master Unit</td>
</tr>
<tr>
<td>Art. No.</td>
<td>13010</td>
<td>13011</td>
<td>13012</td>
<td>13013</td>
<td>1389</td>
</tr>
</tbody>
</table>

Extension sets drip irrigation line

<table>
<thead>
<tr>
<th>Length</th>
<th>above-ground</th>
<th>underground</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension for Rows of Plants Above Ground Drip Irrigation Line 4.6 mm (3/16&quot;)</td>
<td>For extending the starter set for plant rows S</td>
<td>For extending the starter set for plant rows M</td>
</tr>
<tr>
<td>Internal pipe diameter</td>
<td>4.6 mm (¾&quot;)</td>
<td>13 mm (½&quot;)</td>
</tr>
<tr>
<td>Contents</td>
<td>15 m Drip line, without fittings</td>
<td>25 m Drip line, without fittings</td>
</tr>
<tr>
<td>Art. No.</td>
<td>1302</td>
<td>1331</td>
</tr>
</tbody>
</table>

Pipes and System start

<table>
<thead>
<tr>
<th>Usage</th>
<th>Connecting Pipe</th>
<th>Connecting Pipe</th>
<th>Connecting Pipe</th>
<th>Connecting Pipe</th>
<th>Central Filter</th>
<th>Regulator and Shut-Off Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>25 m</td>
<td>50 m</td>
<td>10 m</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Art. No.</td>
<td>2700</td>
<td>2701</td>
<td>2718</td>
<td>2722</td>
<td>1510</td>
<td>2724</td>
</tr>
</tbody>
</table>

Connections and Pipe connectors

<table>
<thead>
<tr>
<th>Usage</th>
<th>Connector 25 mm x 1&quot; female thread</th>
<th>Connector 25 mm x 1&quot; male thread</th>
<th>Connector 25 mm x 1&quot; female thread</th>
<th>T-Piece 25 mm</th>
<th>L-Piece 25 mm</th>
<th>Connector 25 mm</th>
<th>End-Piece 25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>2761</td>
<td>2762</td>
<td>2763</td>
<td>2771</td>
<td>2773</td>
<td>2775</td>
<td>2776</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Usage</th>
<th>„Profi“ Maxi-Flow System Connector Set¹</th>
<th>„Profi“ Maxi-Flow System Connection Set¹</th>
<th>Adapter Piece</th>
<th>Drain Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>1505</td>
<td>2713</td>
<td>1513</td>
<td>2760</td>
</tr>
</tbody>
</table>

¹ Made in Germany

Couplers for 13.9-mm drip pipes underground can be obtained via the Service team.
Sprinklersystem

Pop-up Sprinklers

**MADE IN GERMANY**

<table>
<thead>
<tr>
<th>Turvo-driven Pop-up Sprinkler T100</th>
<th>Turvo-driven Pop-up Sprinkler T200</th>
<th>Turvo-driven Pop-up Sprinkler T300</th>
<th>Turvo-driven Oscillating Sprinkler OS 140</th>
<th>Pop-up Sprinkler 80</th>
<th>Pop-up Sprinkler 280/300</th>
<th>AquaContour automatic</th>
</tr>
</thead>
</table>

**Watering areas**
- Up to 10 m²
- Up to 20 m²
- Up to 40 m²
- Up to 60 m²
- Up to 80 m²
- Up to 100 m²
- Up to 200 m²
- Up to 350 m²
- Up to 450 m²

**Connection thread**
- 1/2” female thread
- 3/4” female thread
- 1” male thread
- 3/4” female thread

**Wiring sectors**
- Fully adjustable from 70°-360°
- Fully adjustable from 25°-360°
- Fully adjustable from 25°-360°
- Fully adjustable from 25°-360°

**Range**
- Can be adjusted from 2.5–5 m
- Can be adjusted from 5–9 m
- Adjustable from 2.5–5 m
- Adjustable from 2.5–9 m
- Select from 2.5–9 m (2 bar) / 4–10 m (5 bar)

**Pipelining**

<table>
<thead>
<tr>
<th>L-Piece 25 mm</th>
<th>Angle Piece 25 mm</th>
<th>T-Piece 25 mm</th>
<th>L-Piece 25 mm</th>
<th>Angle Piece 25 mm</th>
<th>T-Piece 25 mm</th>
<th>Connector 25 mm</th>
<th>T-Piece 25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1509</td>
<td>8203</td>
<td>8205</td>
<td>1509</td>
<td>8203</td>
<td>8205</td>
<td>8235</td>
<td>8233</td>
</tr>
</tbody>
</table>

Art. No.
- 2780
- 2782
- 2786
- 2781
- 2783
- 2787
- 2761
- 2780

**Connections for Pop-up Sprinklers**

**Starter sets**

<table>
<thead>
<tr>
<th>Irrigation Control</th>
<th>Multi-Channel</th>
<th>Home &amp; Garden Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>smart system Start Set</td>
<td>smart Sensor Control Set</td>
<td>smart Water Control Set</td>
</tr>
<tr>
<td>Mow lawns and water plants using the smart App</td>
<td>Water plants using the smart App</td>
<td>Water plants using the smart App</td>
</tr>
</tbody>
</table>

**Extension – Irrigation**

<table>
<thead>
<tr>
<th>smart Water Control</th>
<th>smart Irrigation Control</th>
<th>smart Sensor</th>
<th>smart Automatic Home &amp; Garden Pump 5000/5 Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic irrigation via smart App, ideal for use with Micro-Drip System or Pop-up Sprinklersystem</td>
<td>Water multiple areas via smart App, control six 24 V irrigation valves per device</td>
<td>Measures soil moisture, light intensity and external temperature and includes the soil moisture in the watering schedules using the smart App</td>
<td>Automatic utilisation of non-potable water – for garden irrigation or domestic use</td>
</tr>
</tbody>
</table>

**Contents**
- smart SILENO city Robotic Lawnmower, smart Water Control, smart Sensor, smart Gateway
- smart Water Control, smart Sensor, smart Gateway
- smart Water Control, smart Sensor, smart Gateway

**Art. No.**
- 19031
- 19032
- 19030

**Useful for**
- all smart system Sets
- smart Water Distribution automatic (Art. No. 1197)
- smart Irrigation Valve (Art. No. 1278)
- all smart system Sets

**Art. No.**
- 8250
- 8254
- 8255

**Water Connector**

<table>
<thead>
<tr>
<th>Water Connector</th>
<th>Water Plug</th>
<th>Starter Set for Garden Pipeline</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Starter Set for Garden Pipeline</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Starter Set for Garden Pipeline</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Starter Set for Garden Pipeline</td>
</tr>
</tbody>
</table>

**Requirements**
- Gateway, (Wi-Fi) router and Internet access – smartphone, tablet or pc

More GARDENA smart system products can be found at: www.gardena.com/smart
**Irrigation Control**

**Manual Tap Timer**
Practical switch-off automatically after the defined running time.

**Select**
Short cycles for watering pot plants – ideal for use with the GARDENA Micro-Drip System, innovative turn and push feature.

**Master**
Individual setting options of three independent schedules, intuitive operation with just one button.

**MultiControl duo**
Flexible thanks to 36 programming options. Fully automatic operation with soil moisture sensor.

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

**Watering schedules**
- 1 min.–4 hrs.
- 1 min.–10 h
- 1 min.–9 hr 59 min.
- 1 min.–3 hr 59 min.

**Energy supply**
- 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)

**Watering duration**
- 5–120 min.
- 5–120 min.
- 5–120 min.
- 5–120 min.

**Watering frequency**
- Every 4/6/8/12/24/48/72 hours, up to 6 times daily
- Every 4/6/8/12/24/48/72 hours, up to 6 times daily
- Every 4/6/8/12/24/48/72 hours, up to 6 times daily
- Every 4/6/8/12/24/48/72 hours, up to 6 times daily

**Watering Channel**
- Soil Moisture Sensor (Art. No. 1188)
- Soil Moisture Sensor (Art. No. 1188)
- Soil Moisture Sensor (Art. No. 1188)
- Soil Moisture Sensor (Art. No. 1188)

**Art. No.**
- 1169
- 19031
- 1242
- 1197

**Multi-Channel Control**

**Control**

**24 V | Electricity supply**

**Classic Irrigation Control System 4030**
Controlling of up to 4 Irrigation Valves 24 V for indoor and outdoor use.

**Classic Irrigation Control System 6030**
Controlling of up to 4 Irrigation Valves 24 V for indoor and outdoor use.

**9 V | Battery powered**

**smart Irrigation Control**
Water multiple areas via smart App, control up to 4 Irrigation Valves per device.

**Programming Unit**
For programming the Controller 9 V.

**Accessories**

**24 V | Electricity supply**

**Irrigation Valve 24 V**
Connection to a GARDENA Irrigation Control System via cable.

**Connection Cable 24 V**
Connection of up to 6 Irrigation Valves 24 V to a GARDENA Irrigation Control.

**Cable Clip 24 V**
For connecting the Connection Cable 24 V to an Irrigation Valve 24 V with a water-tight connection when using Valve Box V1.

**Controller 9 V**
For controlling Irrigation Valves 9 V.

**Irrigation Valve 9 V**
Control of irrigation systems when no power connection available.

**9 V | Battery powered**

**smart Irrigation Control**
Water multiple areas via smart App, control up to 4 Irrigation Valves per device.

**Programming Unit**
For programming the Controller 9 V.

**Accessories**

**24 V | Electricity supply**

**Irrigation Valve 24 V**
Connection to a GARDENA Irrigation Control System via cable.

**Connection Cable 24 V**
Connection of up to 6 Irrigation Valves 24 V to a GARDENA Irrigation Control.

**Cable Clip 24 V**
For connecting the Connection Cable 24 V to an Irrigation Valve 24 V with a water-tight connection when using Valve Box V1.

**Controller 9 V**
For controlling Irrigation Valves 9 V.

**Irrigation Valve 9 V**
Control of irrigation systems when no power connection available.

**9 V | Battery powered**

**smart Irrigation Control**
Water multiple areas via smart App, control up to 4 Irrigation Valves per device.

**Programming Unit**
For programming the Controller 9 V.

**Accessories**

**24 V | Electricity supply**

**Irrigation Valve 24 V**
Connection to a GARDENA Irrigation Control System via cable.

**Connection Cable 24 V**
Connection of up to 6 Irrigation Valves 24 V to a GARDENA Irrigation Control.

**Cable Clip 24 V**
For connecting the Connection Cable 24 V to an Irrigation Valve 24 V with a water-tight connection when using Valve Box V1.

**Controller 9 V**
For controlling Irrigation Valves 9 V.

**Irrigation Valve 9 V**
Control of irrigation systems when no power connection available.
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.

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).

Tip
Use the colours to help you when making your purchase. The packaging is also labelled pink, blue, yellow and brown.
2. Assembling your Micro-Drip-System

Three things you need to know:
1. The master unit is the starting point and defines the consumption 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.

<table>
<thead>
<tr>
<th>Installation type 1</th>
<th>Recommended connection value/Pipe length**</th>
<th>Pipe length**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation type 2</td>
<td>Recommended connection value/Pipe length**</td>
<td>Pipe length**</td>
</tr>
<tr>
<td>Installation type 3</td>
<td>Recommended connection value/Pipe length**</td>
<td>Pipe length**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Installation</th>
<th>Recommended connection value/Pipe length**</th>
<th>Planned number</th>
<th>Total consumption value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation M1 M2 M3</td>
<td>Planned number</td>
<td>Total consumption value</td>
<td></td>
</tr>
<tr>
<td>1340 / 8310 Endline Drip Head</td>
<td>2</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>1391 Adjustable Endline Drip Head</td>
<td>10</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>8316 Adjustable Endline Drip Head</td>
<td>8</td>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>8343 / 8311 Inline Drip Head</td>
<td>4</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>8392 Adjustable Inline Drip Head</td>
<td>20</td>
<td>20</td>
<td>–</td>
</tr>
<tr>
<td>8317 Adjustable Inline Drip Head</td>
<td>16</td>
<td>16</td>
<td>–</td>
</tr>
<tr>
<td>8320 Small Area Spray Nozzle</td>
<td>–</td>
<td>–</td>
<td>70</td>
</tr>
<tr>
<td>8321 Small Area Spray Nozzle</td>
<td>70</td>
<td>25</td>
<td>–</td>
</tr>
<tr>
<td>1365 Spray Nozzle 360°*</td>
<td>125</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>1367 Spray Nozzle 180°*</td>
<td>110</td>
<td>100</td>
<td>60</td>
</tr>
<tr>
<td>1368 Spray Nozzle 90°*</td>
<td>85</td>
<td>50</td>
<td>85</td>
</tr>
<tr>
<td>1370 Micro Strip Sprinkler</td>
<td>70</td>
<td>50</td>
<td>70</td>
</tr>
<tr>
<td>1372 Endline Micro Strip Sprinkler</td>
<td>70</td>
<td>50</td>
<td>70</td>
</tr>
<tr>
<td>1371 Micro Mist Nozzle</td>
<td>40</td>
<td>25</td>
<td>40</td>
</tr>
<tr>
<td>1369 Micro Power Sprinkler 360°*</td>
<td>110</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>1396 6-Pattern Spray Nozzle</td>
<td>125</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>1394 Oscillating Sprinkler OS 90°</td>
<td>–</td>
<td>–</td>
<td>1500</td>
</tr>
<tr>
<td>1310 / 13002 Drip line 4.6 mm (1/16”)**</td>
<td>4</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>13001 / 13002 / 13013 / 13131 Drip line 13 mm (1/2”)***</td>
<td>10</td>
<td>9.5 metres</td>
<td>95</td>
</tr>
</tbody>
</table>

Total 203

* 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.

Example Calculation

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.
4. If the consumption value of the system is less than the connection value, the system can be operated smoothly.
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

So we continue, step by step

1. Mark water source for 4.6 mm ¼“ oder 13 mm ½”

Water supply

2. Plot Master Unit

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 ¼“ oder 13 mm ½”

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

6. Register reinforcement for 4.6 mm ¼“ oder 13 mm ½”

- Pipe Pegs
- Pipe Guide
- Pipe Clip

7. Add to shopping list
Add the products to the shopping list on page 78.
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:**
- **Installation Tool:** use the tip to make a hole; use this part to tighten drip heads; use this part to tighten the extension
- **Master Unit**
- **Pipe Couplings:**
  - Pipe coupling to branch a 4,6-mm pipe off from a 13-mm pipe
- **Plugs**
- **Connecting Pipe 13 mm**
- **Drip irrigation line underground 13,9 mm**
- **Drip irrigation line above-ground 13 mm**
- **Drip irrigation line 4,6 mm**
- **Supply Pipe 4,6 mm**
- **Endline Drip Heads**
- **Control Valve for Spray Nozzles**
- **6-Pattern Spray Nozzle**
- **Pipe Peg for securing pipes in the ground**
- **Oscillating Sprinkler**
- **Micro Mist Nozzle**
- **Shut-Off Valves**

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.
5. Installation – simple to assemble

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

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.

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.

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.

Connect the hose
Connect the master unit as system start
Connect inline drip heads for plant troughs
Use the installation tool to make a hole
Screw in endline drip heads for plant pots
Screw the drip head into the hole
Simply plug together
Attach the pipe guide to the pre-drilled hole
Connect the ready-to-use, above-ground drip pipe and you’re done!
Screw the extension into the pre-drilled hole
Connect the plug to the end of the system
Connect the plug to the end of the system
Screw in pipe pegs to fasten the pipe

Use the GARDENA Micro-Drip-System Planner 6362 to plan your micro-drip irrigation system.
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.

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.

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

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

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
## Overview

<table>
<thead>
<tr>
<th>Type</th>
<th>Designation</th>
<th>Planning range</th>
<th>Sector</th>
<th>Sprinkler consumption values (for planning page 71)</th>
<th>Possible connections</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Other areas</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Flexible Turbomotor** | Turbo-driven Pop-up Sprinkler T 100 | Radius 4–6 m   | 70–360°           | 70–90° = 7  
91–180° = 10  
181–270° = 14  
271–360° = 17 | T-Piece  
Art. No. 2786  
Angle Piece  
Art. No. 2782  
L-Piece  
Art. No. 2780 |
|                      | Turbo-driven Pop-up Sprinkler T 200 | Radius 5–8 m   | 25–360°           | 25–90° = 9  
91–180° = 13  
181–270° = 17  
271–360° = 20 | T-Piece  
Art. No. 2786  
Angle Piece  
Art. No. 2782  
L-Piece  
Art. No. 2780 |
|                      | Turbo-driven Pop-up Sprinkler T 380 | Radius 6–11 m  | 25–360°           | 25–90° = 15  
91–180° = 20  
181–270° = 25  
271–360° = 30 | T-Piece  
Art. No. 2787  
Angle Piece  
Art. No. 2783  
L-Piece  
Art. No. 2781 |
| **Rectangular areas**| Pop-up Oscillating Sprinkler OS 140 | Range 2–15 m   | Width of spray 1–9,5 m | = 22 |                     |
|                      |                                    |                |                    |                                                    |                     |
| **Other areas up to 80 m²** | Pop-up Sprinkler S 80 | Radius 2.5–5 m | 5–360°           | 5–90° = 9  
91–180° = 17  
181–270° = 25  
271–360° = 32 | T-Piece  
Art. No. 2786  
Angle Piece  
Art. No. 2782  
L-Piece  
Art. No. 2780 |
|                      | Pop-up Sprinkler S 80/300 | Radius 2.5–5 m | 5–360°           | 5–96° = 13  
91–180° = 21  
181–270° = 29  
271–360° = 35 | T-Piece  
Art. No. 2790  
Connector*  
Art. No. 2761 |
| **For higher plants** | AquaContour automatic | 2.5–9 m       | 25–360°           | = 17 | L-Piece  
Art. No. 2781 |

* Connection also fits the drain valve
2. Choosing sprinklers

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

For individual areas

If you favour the AquaContour automatic, one sprinkler will cover up to 350 m². As this large-area pop-up sprinkler defines the shape of your plot with up to 50 contour points that you can save, it waters the delineated area and hits every spot. Its range covers up to 10.5 m. It should be your first choice if you want to install one sprinkler rather than several.

For square and rectangular areas

If you wish to water areas between 2 and 140 m² 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.

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.

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.

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3. Choosing the lines

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.

Calculating the additional time to add for distance
• How many metres are there between the tap or pump and the farthest 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 Computer, 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.

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

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

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.

Channel 1 22 + 9 + 13 + 13 = 59 = 29.5 m
Channel 2 17 + 9 + 10 = 36 = 16 m
Channel 3 17 = 17 = 10.5 m = a total of 56 m

Connecting to GARDENA pumps
If you are planning to operate your Sprinkler system 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
<table>
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<tr>
<th>Garden Pumps</th>
<th>Suction height up to Art. No.</th>
<th>3 m</th>
<th>5 m</th>
<th>7 m</th>
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<tr>
<th>Automatic Home &amp; Garden Pumps / smart Automatic Home &amp; Garden Pump</th>
<th>Suction height up to Art. No.</th>
<th>3 m</th>
<th>5 m</th>
<th>7 m</th>
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<tr>
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<td>9</td>
<td>12</td>
<td>18</td>
<td></td>
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</table>

<table>
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<tr>
<th>Submersible Pressure Pumps</th>
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<th>5 m</th>
<th>7 m</th>
<th>10 m</th>
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<td>14</td>
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<td>1476</td>
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<td>11</td>
<td>12</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>GARDENA SPRINKLER SYSTEM PLANNER</th>
<th>Garden Pumps</th>
<th>Suction height up to Art. No.</th>
<th>3 m</th>
<th>5 m</th>
<th>7 m</th>
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<td>1461</td>
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</table>
4. Choosing connections and connectors

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

**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.

**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 75.

**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.

**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

A 9 V Irrigation Valve (1251) is connected before every irrigation channel. Scheduling data is sent to a battery-operated Controller (1250) via a battery-operated Programming Unit (1242). The valves are opened and closed via controllers that are connected directly. 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 Sprinkler system

- **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 connection, 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.*

1. 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.

2. 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.

3. 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.

4. 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.

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

6. 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.

7. 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.

8. 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.

9. 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.

10. 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).

11. 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 cause your sprinkler to malfunction. Therefore, always use a central filter if the water is supplied via a pump.

Changing from 19 mm to 25 mm pipe connections
Did you install your GARDENA Sprinklersystem before 2005 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 item no. 1513 combined with the Connector 25 mm × 1” male thread item no. 2763.

Continuous pressure-resistant connection
To guarantee a continuous pressure-resistant connection, the tap and connecting point should be connected using a ½” hose and two adapter pieces (1513).

Combing 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.

Sprinklersystem shopping list
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<tbody>
<tr>
<td>1509</td>
<td>Large-Area Pop-up Irrigation-AquaContour automatic 1” female thread</td>
<td>1263</td>
<td>Multi-Channel Control System with Electricity supply</td>
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<td>8223</td>
<td>Pop-up Oscillating Sprinkler CS 140 1” female thread</td>
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<td>Irrigation Control System 4030</td>
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<td>Turbo-driven Pop-up Sprinkler T 100 1” female thread</td>
<td>19109</td>
<td>smart Irrigation Control Sensor Set</td>
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<td>24 V Irrigation Valve</td>
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<td>Water Connector</td>
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<td>Starter Set for Garden Pipelines</td>
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<th>Item. no.</th>
<th>2763 Connector 25 mm × 1” male thread</th>
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<td>Art. No.</td>
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### Micro-Drip-System shopping list

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<th>Designation</th>
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</table>
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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.

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  www.gardena.com/mygarden
• The GARDENA customer service team will answer your questions or will refer you to the relevant planning and installation service upon request.
• Videos on YouTube with informative films about our irrigation solutions

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