The easy path to your own irrigation system

Would you like to have a convenient irrigation system in your garden?

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

More at: www.gardena.com

Who and what else can help you

- Micro-Drip-System Online Product Advisor which set fits your requirements? Here you will find helpful advice to support you in your purchase decision.
 www.gardena.com/micro-drip-system-planer
- GARDENA My Garden the free online tool also offers automatic planning for Sprinklersystems www.gardena.com/mygarden
- 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 solutions

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 or subscribe to our free-of-charge newsletter at www.gardena.com/newsletter

Planning / Consulting

Irrigation Systems

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GARDENA smart system

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We reserve the right to make changes, including product changes. $\textcircled{\mbox{\scriptsize C}}$ GARDENA 2023

gardena.com



GARDENA Irrigation Control

Above-ground Water Controls

Flex

Balcony & terrace / micro irrigation



Use

- · For watering potted plants/balcony plants · Flexible setting with short cycles and high
- watering frequencies (up to every 4 hours)
- Ideal in combination with the GARDENA Micro-Drip-System

Watering schedules	1
Start time	flexible
Duration	1 sec 99 min.
Intervals	every 4/6/8/12/24/48/72 hours
Selection of weekdays	predefined cycles
Watering cycles/day	up to 6 (every 4 hours)
Water-saving option	with Soil Moisture Sensor
Manual watering	•
ArtNo.	1890

App based watering controls

Bluetooth®

Via GARDENA Bluetooth® App / all garden areas

Use

- For convenient, flexible watering per Bluetooth[®] App
- Up to three individual watering schedules
- Ideal in combination with Sprinklers or Micro-Drip-System

Benefits of the Bluetooth® App:



Select

MultiControl duo



Use

- For convenient, flexible watering
- 3 individual watering schedules including start time, duration, week days - ideal e.g. for pre-watering the soil
- Ideal in combination with Sprinklers or Micro-Drip-System

Up to 2 areas

- Use
 - · For independent watering of 2 areas · For instance the lawn behind the house
 - and the flower beds in front of it

Watering schedules	3
Start time	flexible based on schedule
Duration	1 sec - 7 hrs 59 min per schedule
Intervals	weekdays per schedule
Selection of weekdays	per schedule
Watering cycles/day	up to 3
Water-saving option	with Soil Moisture Sensor
Manual watering	•
ArtNo.	1891

Watering schedules 2 x 1 Start time flexible based on schedule 1 sec - 3 hrs 59 min per outlet Duration selection of weekly programs or Intervals in cycles every 8/12/24 hrs every 2nd/3rd/7th day Selection of weekdays · for each schedule Watering cycles/day up to 3 (every 8 hours) Water-saving option • with Soil Moisture Sensor Manual watering . Art.-No. 1874

Master



6 watering schedule / very flexible settings / up to 6 areas

Use

- For automatic watering of a large area in the garden with a maximum of flexibility in time
- 6 individual watering schedules including start time, duration, week days
- Watering of up to 6 different areas in combination with the O Water Distributor automatic.

Watering schedules	6
Start time	flexible based on schedule
Duration	1 sec - 4 hrs per schedule
Intervals	weekdays
Selection of weekdays	for each schedule
Watering cycles/day	up to 6
Water-saving option	with Soil Moisture Sensor
Manual watering	•
ArtNo.	1892



Control via GARDENA smart app

smart Water Control

With the smart Water Control you can flexibly set the watering schedules in the GARDENA smart App and adjust them as needed at any time.

Benefits of the smart App:



More information on the GARDENA smart System on page 50.

Add-ons for analog or app-based watering controls



smart Water Control

Soil Moisture Sensor Measures and skips scheduled watering cycles as soon as a pre-set moisture level is reached. For optimized, water-conserving watering in connection with a GARDENA Water Control.

Art.-No. 1867

Water Distributor automatic

Perfect in combination with the Water Control Master. With several irrigation lines, e.g. for GARDENA Sprinklers, Micro-Drip-System or Sprinklersystem. Each line can be triggered up to once per day by the Water Control Master. Ideal for planted areas with different watering needs or if the water pressure is too low to water them all at the same time.

Art.-No. 1197





Watering schedules	3
Start time	flexible per schedule
Duration	1 min - 8 hrs per schedule
Intervals	weekdays per schedule
Selection of weekdays	 for each schedule
Watering cycles/day	up to 3
Water-saving option	the Soil Moisture Sensor
Manual watering	•
ArtNo.	1889



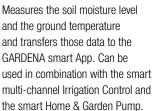
V)

smart

free selectable
flexible per schedule
1 sec - 10 hrs
weekdays
per schedule
individual
with smart Sensor
•
19031 or supplied with smar system sets



smart Sensor



Art.-No. 19040



Product overview

Micro-D	rip-System Systei	n Start			
MADE IN	Connection to the tap		Pressure regulator and fil	Installation	
EUROPE	Tap Fitting 13 mm (1/2") – G 3/4"	New! Tap Fitting 4.6 mm (³ /16") – G 3/4"	New!	New!	New!
Use	For connecting the Connecting Pipe Flex 13 mm (1/2") to the Master Unit 1000/2000 (Art. No. 13333/13310) or directly to the water connection of a cistern (3/4") with maximum 1.5 bar	For connecting the Supply Pipe 4.6 mm (3/4") to the Master Unit 1000/2000 (Art. No. 13333/13310) or directly to the water connection of a cistern (3/4") with maximum 1.5 bar	Starter component of the Micro-Drip-System for reducing pressure to 1.5 bar and for filtering the water	Starter component of the Micro-Drip-System for reducing pressure to 1.5 bar and for filtering the water	Universal tool for the fitting of various articles and piercing of the connecting pipe
Water flow	-	-	up to 1,000 l/h	up to 2,000 I/h	-
Article No.	13222	13224	13333	13310	13313

Micro-Drip-System Pipes, Connectors and Accessories

Pipes and accessories

	13 mm (1/2")	13 mm (1/2")			13 mm (1/2")	4.6 mm (3/16'')
² MADE IN EUROPE					New!	#
	Connecting Pipe Flex ¹	Connecting Pipe Flex ²	Supply Pipe ²		Shut-off/Regulation	n Valves ¹
Diameter	13 mm (1/2")	13 mm (1/2")	4.6 mm (3/16")	4.6 mm (3/16")	13 mm (1/2")	4.6 mm (3/16")
Use	Central supply pipe in the can be laid above or belo due to unique flexible teo	ow ground, very supple	Supply pipe for drip heads and spray nozzles, can be laid above or below ground		Shutting off individual pipelines 13 mm (1/2") (Art. No. 1346/1347)	Shutting off individual pipelines 4,6 mm (3/16") (Art. No. 1348/1350)
Contents	15 m	50 m	15 m	50 m	1 piece	2 pieces
Article No.	1346	1347	1350	1348	13207	13217

Pipe Pegs

	13 mm (1/2")	4.6 mm (3/16")
¹ MADE IN GERMANY	C	
	Pipe Pegs 13 mm (1/2") ¹	Pipe Pegs 4.6mm (3/16")
Use	The pipe peg is used for guiding and securing the supply pipe in the ground. Gu	iding and fixing the connecting/supply pipe.
Contents	10 pieces	15 pieces
Article No.	13208	13218

Micro-Drip-System Pipes, Connectors and accessories

Connectors

	4.6 mm (3/16'')	4.6 mm (3/16")							
MADE IN EUROPE	New!	New New		New	New!	New			
	Connector	L-Joint	T-Joint	4-Way Coupling	Plug	T-Joint Nozzles/ Endline Drip Heads			
Use	Extension of the Supply Pipe	Precise branching of the Supply Pipe 4.6 mm (3/16") (Art. No. 1348/1350)	For branching off the Supply Pipe 4.6 mm (3/16") (Art. No. 1348/1350)	For branching off the Supply Pipe 4.6 mm (3/16") (Art. No. 1348/1350)	For sealing off the Supply Pipe 4.6 mm (3/16"), for sealing a hole in the Connecting Pipe 13 mm (1/2")	For fixing Spray Nozzles and Endline Drip Heads in the Supply Pipe 4.6 mm (3/16") (Art. No. 1348/1350)			
Contents	10 pieces	10 pieces	10 pieces	10 pieces	10 pieces	5 T- pieces, 1 Closing cap			
Article No.	13213	13212	13211	13214	13215	13216			

	13 mm (1/2")						
MADE IN EUROPE	New!	New!	New!	New!	New!	New!	New!
	Connector	L-Joint	T-Joint	Connector 13 mm (1/2") - 4.6 mm (3/16")	Plug	T-Joint Spray Nozzles	Universal Connector
Use	Extension of the Connecting Pipe Flex and Supply Pipe 13 mm (1/2") (Art. No. 1346/1347, 13503, 13504)	Precise branching off the Connecting ipe Flex 13 mm (1/2") (Art. No. 1346/1347)	Branching off the Connecting Pipe Flex 13 mm (1/2") (Art. No. 1346 /1347)	Transition from Connecting Pipe Flex 13 mm (1/2") to Supply Pipe 4.6 mm (3/16") (Art. No. 1348/1350)	Sealing of Connec- ting Pipe Flex 13 mm (1/2") (Art. No. 1346/1347)	For fixing Spray Nozzles in the Connecting Pipe Flex 13 mm (1/2") (Art. No. 1346, 1347)	For connecting the underground Dripline Pipe (Art. No. 1389/1395) with Connecting Pipe Flex 13 mm (1/2") (1346/1347), Dri- pline 13 mm (1/2") (13503/13504) for connecting the Connection Pipe Flex (Art. No. 1346/1347) with standard supply pipes 13-16 mm.
Contents	3 pieces	2 pieces	2 pieces	5 pieces	5 pieces	5 pieces	1 pieces
Article No.	13203	13202	13201	13204	13205	13206	13220

Micro-Drip-System for Potted Plants

Starter Sets	New! Set	New! Set
Counts.	Micro-Drip-Irrigation Balcony Set For 15 plants	Micro-Drip-Irrigation Terrace Set For 30 plants
Contents	1 Master Unit 1000, 20 m Supply Pipe 4.6 mm (3/16"), 10 Pipe Pegs 4.6 mm (3/16"), 15 Inline Drip Heads pressure-compensating 2 l/h, 5 T-Joints 4.6 mm (3/16"), 2 Regulation and Shut-Off Valvels 4.6 mm (3/16"), 5 Plug 4.6 mm (3/16")	1 Master Unit 1000, 15 m Connecting Pipe Flex 13 mm (1/2"), 10 Connectors 13 mm (1/2") - 4.6 mm (3/16"), 2 Plugs 13 mm (1/2"), 20 m Supply Pipe 4.6 mm (3/16"), 20 Pipe Pegs 4.6 mm (3/16"), 5 Plugs 4.6 mm (3/16"), 5 T-Joints 4.6 mm (3/16"), 3 Regulation and Shut-Off Valves 4.6 mm (3/16"), 10 Adjustable Endline Drip Heads 0-15 l/h, 20 Inline Drip Heads 2 l/h, 1 Cleaning Needle
Artikel No.	13401	13400

Endline Dripper

¹ MADE IN GERMANY ² MADE IN EUROPE	New!	New!	New!	New!
Every drop counts, consecutive	Endline Drip Head 2 I/h ¹	Endline Drip Head 2 I/h, pressure-compensating ²	Adjustable Endline Drip Head 0–15 l/h 1	Adjustable Endline Drip Head pressure- compensating ²
Water flow	2 l/h	Constant 2 l/h independent of the water pressure	Adjustable from 0-15 l/h	Adjustable from 1-8 l/h, independent of the water pressure
Special features		Self -cleaning with membrane/ labyrinth technology, constant water output, self-sealing when system switched off	Fully adjustabe endline drip head with integrated cleaning needle	Adjustable with volume scale, self-cleaning with membrane/labyrin- th technology, constant water output, self sealing when system switched off
Contents	25 Endline Drip Heads, 1 Cleaning Needle	10 pieces	10 pieces	5 pieces
Article No.	13307	13302	13305	13304

Inline Dripper

	For Potted Plants	For Potted Plants					
	For Plant Areas						
¹ MADE IN GERMANY ² MADE IN EUROPE	New!	New!	New!	New!			
Every drop counts. He com/carefull	Inline Drip Head 2 I/h 1	Inline Drip Head 2 l/h pressure-compensating ²	Adjustable Inline Drip Head 0-15 l/h ¹	Adjustable Inline Drip Head ¹ pressure-compensating			
Water flow	2 l/h	2 l/h	0–15 l/h	1–8 l/h			
Special features	Can also be used as Endline Drip Head	Self-cleaning with membrane/ labyrinth technology, constant water flow, self-sealing when system switched off	Fully adjustable spray head with integrated cleaning needle	Adjustable, with volume scale. Self-cleaning with membrane/ labyrinth technology, constant water output, self-sealing when system switched off			
Contents	10 Inline Drip Heads, 1 Plug, 1 Cleaning Needle	10 Inline Drip Heads, 1 Plug	10 Inline Drip Heads, 1 Plug	5 Inline Drip Heads, 1 Plug			
Article No.	13317	13312	13315	13314			

Holiday and Balcony Watering

Watering with power supply







	Holiday Irrigation Set	Holiday Irrigation Set with Water Reservoir	city gardening Balcony Watering
Use indoor/outdoor	Indoor, for up to 36 pot plants	Indoor, up to 36 pot plants	Outdoor, up to 25 plants
Water connection required	-	-	-
Power connection required	•	•	•
Contents	Transformer, pump, 3 drip distributors with 12 outlets each, 9 m Distribution Pipe, 30 m Drip Pipe, 36 Pipe Pegs, 20 Plugs	10.5 l extendable water reservoir, transformer, pump, 3 drip distributors with 12 outlets each, 9 m Supply Pipe, 30 m Drip Pipe, 36 Pipe Pegs, 20 Plugs	Water Control for pump, 25 Inline Drip Heads approx. 2 I/h with Plug and Cleaning Needle, 10 m Distribution Pipe 4.6 mm (3/16"), 15 Pipe Pegs
Article No.	1265	13366	1407

Solar-powered Watering

	Set	Set	
reddot winner 2020 innovative product	$\begin{array}{c} \hline \\ \hline $	Solar-powered AquaBloom Water Reservoir Set	Water Reservoir ^{1,2}
Use indoor/outdoor	Outdoor, up to 20 plants	Outdoor, up to 20 plants	Outdoor
Water connection required	-	-	-
Power supply required	-	_	-
Contents	1 x Main-Unit with integrated pump and solar panel, 20 x 0.5 l/h pressure-compensating Inline Drip Heads, 15 x (3/16") Pipe Pegs, 3 x rechargeable AA batteries 1.2 V, 2,400 mAh, 8 x (3/16") Plugs, 1 x Filter, 20 m (3/16") Distribution Pipe	1 x 10.5 I Water Reservoir extendable with Plug, 1 x Main-Unit with integrated pump and solar panel, 20 x 0.5 I/h Inline Drip Heads pressure- compensating, 15 x (3/16") Pipe Peg, 3 x rechargeable AA batteries 1.2 V 2,400 mAh, 8 x (3/16") T-Joints, 8 x (3/16") Plugs, 1 x filter, 20 m (3/16") Distribution Pipe	1 x 10.5 l Water Reservoir 1 x Plug (3/16")
Article No.	13300	13301	13367







Micro-Drip-System for Plant Areas Starter Sets MADE IN Set

For up to 60 m² vegetable bed/flower border

1 Master Unit 1000, 1 Installation Tool, 25 m Connecting Pipe Flex 13 mm

(1/2"), 15 Pipe Pegs 13 mm (1/2"), 2 T-Joints 13 mm (1/2"), 2 L-Joints 13 mm (1/2"), 3 Plugs 13 mm (1/2"), 5 Control Valves 4.6 mm (3/16"), 4 Spray

Nozzles 90°, 1 Spray Nozzle 360°, 5 Extension Pipes for Spray Nozzles



1 Master Unit 1000, 1 Installation Tool, 15 m Connecting Pipe Flex 13 mm (1/2"), 5 Pipe Pegs 13 mm (1/2"), 1 T-Joint 13 mm (1/2"), 2 L-Joints 13 mm (1/2"), 5 Connectors 13 mm (1/2") - 4.6 mm (3/16"), 2 Plugs 13 mm (1/2"), 15 m Distribution Pipe 4.6 mm (3/16"), 20 Pipe Pegs 4.6 m m(3/16"), 35 Inline Drip Heads 2 I/h pressure-compensating, 2 Regulation and Shut-off Valves 4.6 mm (3/16"), 5 Plugs 4.6 mm (3/16") 13455

6 in 1

6 in 1 Spray Nozzle

Flexible use for different

New! Set

Article No. 13450

Contents

Contents

Article No.

Spray Nozzles MADE IN 90° (•< *****{ New! New! 180° New! Endline Micro Strip Micro Strip Spray Nozzle 90° Spray Nozzle 180° Spray Nozzle 360° Sprinkler Sprinkler Use For covering beds with For covering long, For covering long, For covering beds with For covering beds with narrow beds with fine narrow beds with fine fine spray from the 180° fine spray 360° fine spray spray spray corner Irrigation diameter _ 6 m _ _ Range approx. 2.75 m approx. 5.5 m approx. 2.5 m approx. 2.5 m approx. 3 m Sprinkling width

garden areas _ adjustable approx. 0.6 m approx. 0.6 m _ _ _ _ 5 pieces 5 pieces 5 pieces 5 pieces 2 pieces 13319 13320 13321 13322 13324

Nozzles, Sprinklers & Accessories

5 pieces

13318

	Nozzles			Sprinklers	Accessories		
MADE IN GERMANY	New!	New!	New!	1-90m ² New!	New!	New!	New!
dry tricler some				7		#	
	Micro Mist Nozzle	Small Area Spray Nozzle	Inline Small Area Spray Nozzle	Oscillating Sprinkler OS 90	Extension Pipe for Spray Nozzles	Regulierventil	Extension Pipe OS 90
Use	For covering newly planted beds with fine spray from above	Accurate watering of small areas such as shrubs and flower bushes	Accurate watering of small areas such as shrubs and flower bushes	Watering of square and rectangular areas	For Spray Nozzles for watering over tall plants	For adjusting the flow rate and range of Spray Nozzles	For Oscillating Sprinkler OS 90
Area coverage	Ø1m	Ø 10–40 cm	Ø 10–40 cm	1–90 m ²	-	-	-
Range	-	-	-	Adjustable from 0.5–7 m	_	-	-
Sprinkling width	-	-	-	Adjustable from 1.5–13 m	_	-	-
Contents	5 pieces	10 pieces	10 Small Area Nozzles, 1 Plug	1 Oscillating Sprink- ler, 1 Plug	5 pieces	5 pieces	2 pieces
Article No.	13323	13306	13316	13325	13326	13231	13334

D Note

For an overview of Inline Drip Heads for plant areas, please to go page 56.

Micro-Drip-System for Plant Rows

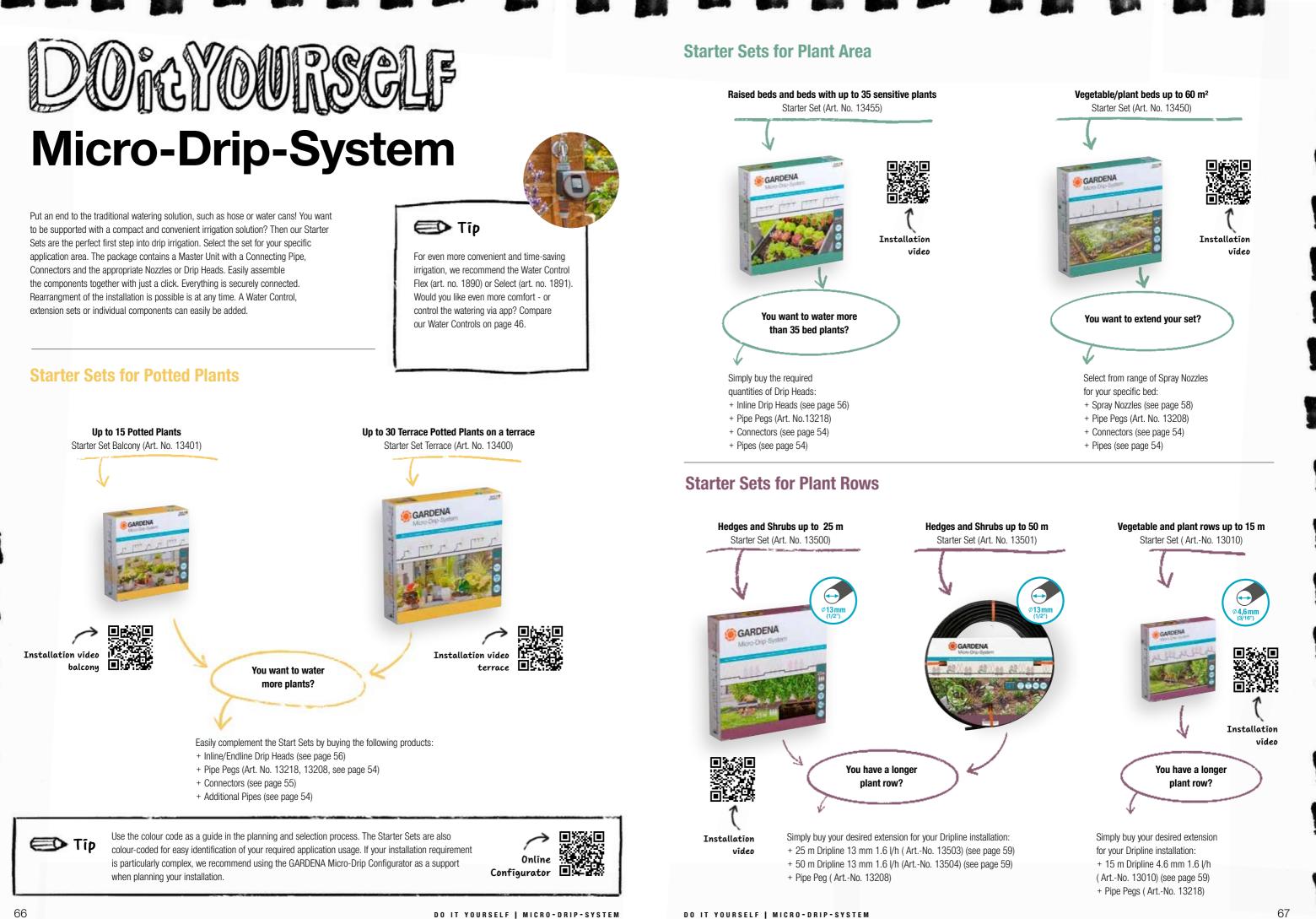
Starter Sets

	4.6 mm (3/16'')	13 mm (1/2")	
MADE IN EUROPE	New! Set	New! Set	New! Set
	Micro-Drip-Irrigation Vegetable/Plant Row Set (15 m) For 15 m planting row or sensitive kitchen garden and ornamental plants	Micro-Drip-Irrigation Hedge/Bush Set 25 m For 25 m planting row (e.g. hedges or planted borders)	Micro-Drip-Irrigation Hedge/Bush Set 50 m For 50 m planting row (e.g. hedges or planted borders)
Internal pipe diameter	4.6 mm (3/16")	13 mm (1/2")	13 mm (1/2")
Water output	1.6 l/h per section of 30 cm	1.6 l/h per section of 30 cm	1.6 l/h per section of 30 cm
Installation	only above ground	above and below ground	above and below ground
Contents	1 Master Unit 1000, 15 m Drip Irrigation Line 4.6 mm (3/16"), 15 Pipe Pegs 4.6 mm (3/16"), 1 Plug 4.6 mm (3/16")	1 Master Unit 1000, 25 m Drip Irrigation Line 13 mm (1/2"), 15 Pipe Pegs 13 mm (1/2"), 1 Plug 13 mm (1/2")	1 Master Unit 1000, 50 m Drip Irrigation Line 13 mm (1/2"), 1 Plug 13 mm (1/2")
Article No.	13010	13500	13501

Drip Lines

	4.6 mm (3/16")	13 mm (1/2")		
MADE IN EUROPE	New!			
	Dripline 4.6 mm (3/16") 15 m	Dripline 13 mm (1/2") 25 m	Dripline 13 mm (1/2") 50 m	
Internal pipe diameter	4.6 mm (3/16")	13 mm (1/2")	13 mm (1/2")	
Water output	1.6 l/h per section of 30 cm	1.6 l/h per section of 30 cm	1.6 l/h per section of 30 cm	
Use	15 m planting row for sensitive kitchen garden and ornamental plants	For extending the above and below ground Drip Irrigation Lines for planted borders or lawns	For extending the above and below ground Drip Irrigation Lines for planted borders or lawns	
Installation	only above ground	above or below ground	above or below ground	
Contents	15 m Drip Irrigation Line without fittings	25 m Drip Irrigation Line without fittings	50 m Drip Irrigation Line 13 mm (1/2") without fittings	
Article No.	1362	13503	13504	





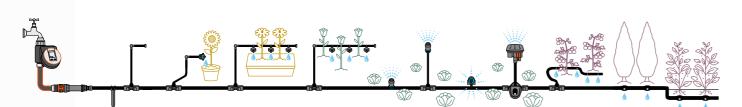
DO IT YOURSELF | MICRO-DRIP-SYSTEM

66

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. Just follow a few simple steps and you will quickly have your individual and convenient watering solution.



System Start

At the beginning you set the Water Control and then the so-called Master Unit. The Master Unit regulates the pressure and filters the water.

Connection There are 2 different connection sizes. 13 mm Pipes and Connectors for larger areas and 4.6 mm

Potted Plants For pots or flower boxes choose Drip Heads or Starter Sets marked in yellow.

Plant Areas For beds you select Drip Heads, Spray Nozzles or Starter Sets marked in green.

Plant Rows Pipeline for above and below ground irrigation of plant rows. Select the practical-Starter Sets marked in purple and extend them with Extension Pipes if desired.

2a. Select the ideal installation method of Connection and Supply Pipes

Installation type 1

4.6 mm and 13 mm pipes

To be able to cover more plants, the Supply Pipe 4.6 mm is used in combination with the Connection Pipe 13 mm. The main line is the connection pipe, the small supply pipe transports the water to the plants. Maximum combination is approx. 60 m Connection pipe and approx. 15 m supply pipe.



Installation type 2

4.6 mm pipes

In this installation method only the supply pipe and drip line 4,6 mm is used. It is ideal for small garden beds or balconies. Maximum length is approx. 30 m.*



The planning process

Do you want to extend your your existing system or would like to cover an area in your garden that goes beyond the components included in the Starter Sets? Would you like to create your bespoke Micro-Drip solution and cover different areas in your garden? We are going to show you how many plants you can water with just one connection attached to the water tab.

Pipes and Connectors for

balconies.

smaller surfaces, such as

- 1. Select number of water outlets available to cover the designated areas.
- Then identify the load capacity of your irrigation system - the connection value. This is defined by considering following factors:
- a.) Mode of installation of the Connection and Supply Pipes
- b.) Positioning of the Master Unit
 You can then compare the connection value of your system with the consumption values of all your planned application devices.



Installation type 3 13 mm pipes

Only the pipe and drip line 13 mm is used e. g. 13 mm drip line or connection pipe in combination with spray nozzles or endline drip heads. Maximum length is approx. 60 m

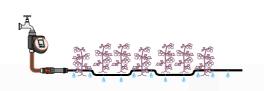


* The maximum pipe length is given as a guide only. The value can vary based on the number of connected components

2b. Positioning of the Master Unit

The Master Unit is an important component of the Micro-Drip-System. With this ready-to-connect Master Unit the water pressure is regulated and the water is filtered. If you place the Master Unit centrally in the pipe run, you can easily double the length of the pipe system (see 3. Connection values). If the system starts further away from the tap, then you can bridge the distance with an underground GARDENA pipeline or a garden hose. Like this you prevent loss of water pressure.

Master Unit is placed at the System Start



For example:

1. Assemble the irrigation equipment

Map out the number of pots or size of areas you want to cover. Define the suitable components based on the type of usage application,

such as Drip Heads, Dripline or Spray Nozzles. Check out pages 56-59 and discover the range of components available by usage

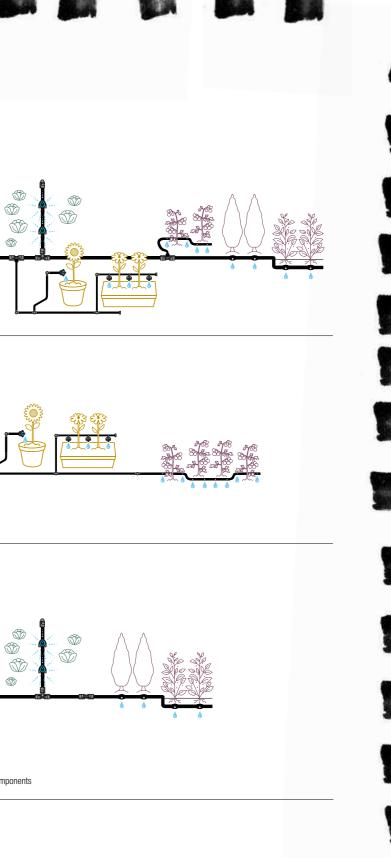
Terrace with 4 potted plants and 1 plant tray with 5 plants

- 4 x Adjustable Endline Drip Head 1-8 l/h for 4 plant pots
- $5\ x$ Inline Drip Head pressure-compensating for plant pot with 5 plants in row

Narrow flower bed at the edge of the terrace 2 x Endline Micro Strip Sprinkler 1 x Micro Strip Sprinkler

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application.



Master Unit is placed centrally in the pipe run



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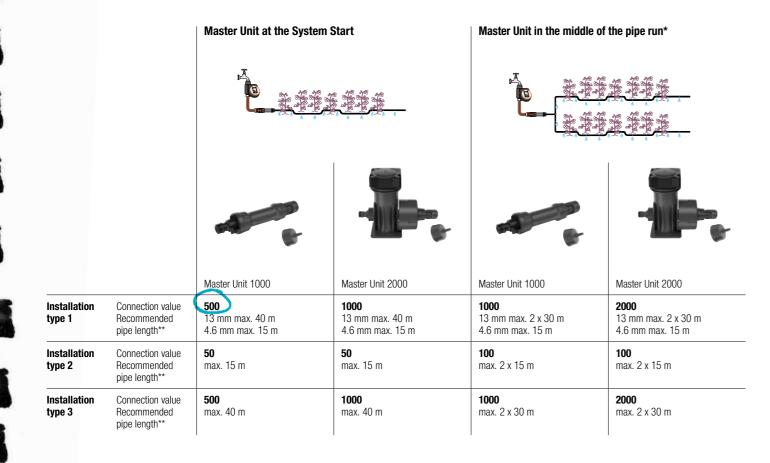
3. Comparison of consumption value and connection value

Three things you need to know:

- The Master Unit is the starting point and defines the connection value, depending on the model and installation type.
- The connection value defines the capacity available for the maximum installation of Drip Heads, Spray Nozzles and Driplines.
- The connection value of the system must be higher than the consumption value of the installation.

The connection value depends on your selection of pipe combination and positioning of the master unit. You might notice in the below table that the connection value with a 13 mm pipe is higher than with a 4.6 mm pipe. Now enter how many Drip Heads and Spray Nozzles you are planning to install in your system. If the consumption value is below the connection value, you will have a reliable irrigation system.

Connection values



Installation type 1 4.6 mm and 13 mm pipes

Installation type 2 4.6 mm pipes







Installation type 3

13 mm pipes

 $^{\star}\,$ If the base unit is positioned centrally in the pipe run, then the connected value of each pipe is halved.

** The maximum pipe length is given as a guide only. The value can vary based on the number of connected components.

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This is how you proceed ...

To get the most out of your Micro-Drip-System, we recommend **installation type 1**. This way you can make the most of your system and maximise its capacity to cover even larger plant areas and support an extension of the system. Depending on your individual needs, the other two types of installation are also a good option.

Your to-do list:

- 1. Determine required quantities of the suitable components based on the type of usage application (Drip Heads, Dripline or Spray Nozzles).
- 2. Determine consumption values of the system

(number of application devices x consumption value in the table).3. Add up the total consumption values. If the consumption value of the system is less than the connection value, the system will operate smoothly.

Consumption values

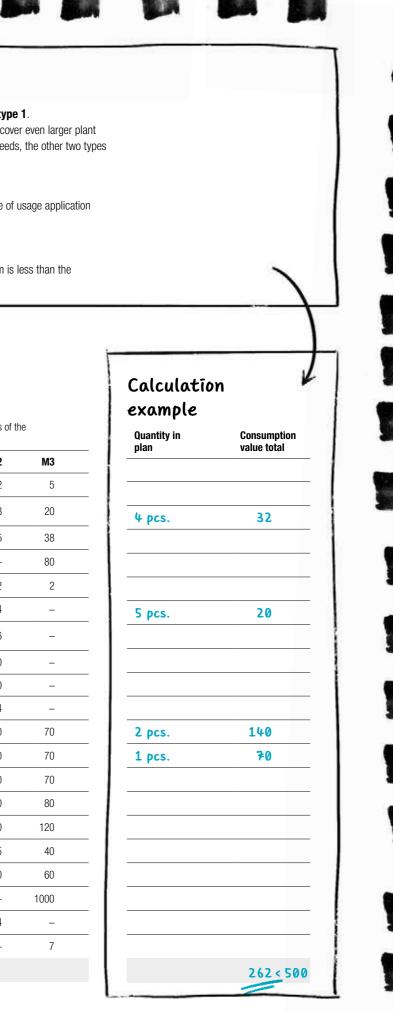
Art. No.	Name		ption values ion devices
Installation type)	M1	M2
13302	Endline Drip Head 2 I/h, pressure-compensating	2	2
13304	Adjustable Endline Drip Head 1-8 l/h, pressure-compensating	8	8
13305	Adjustable Endline Drip 1-15 l/h*	15	15
13306	Small Area Spray Nozzle*	-	-
13307	Endline Drip 2 I/h	2	2
13312	Inline Drip Head 2 I/h, pressure-compensating	4	4
13314	Adjustable Inline Drip Head 1-8 l/h, pressure-compensating	16	16
13315	Adjustable Inline Drip Head1-15 I/h*	30	30
13316	Inline Small Area Spray Nozzle*	80	40
13317	Inline Drip Head 2I/h	4	4
13318	Endline Micro Strip Sprinkler	70	50
13319	Micro Strip Sprinkler	70	50
13320	Spray Nozzle 90°	90	50
13321	Spray Nozzle 180°	120	100
13322	Spray Nozzle 360°	140	100
13323	Micro Mist Nozzle	40	25
13324	6 in 1 Spray Nozzle*	125	50
13325	Oscillating Sprinkler OS 90	-	-
13010/1362	Dripline 4.6 mm (3/16")**	-	4
13503 / 13504	Dripline 13 mm (1/2")**	-	-
Total value			

* Flexible adjustable Drip Heads/Nozzles are average values. In individual cases, the value may be higher or lower than stated here, depending on your setting. ** Data per metre of Dripline. If you carry out the installation yourself, we ask for your understanding that we accept no liability and no guarantee for costs and

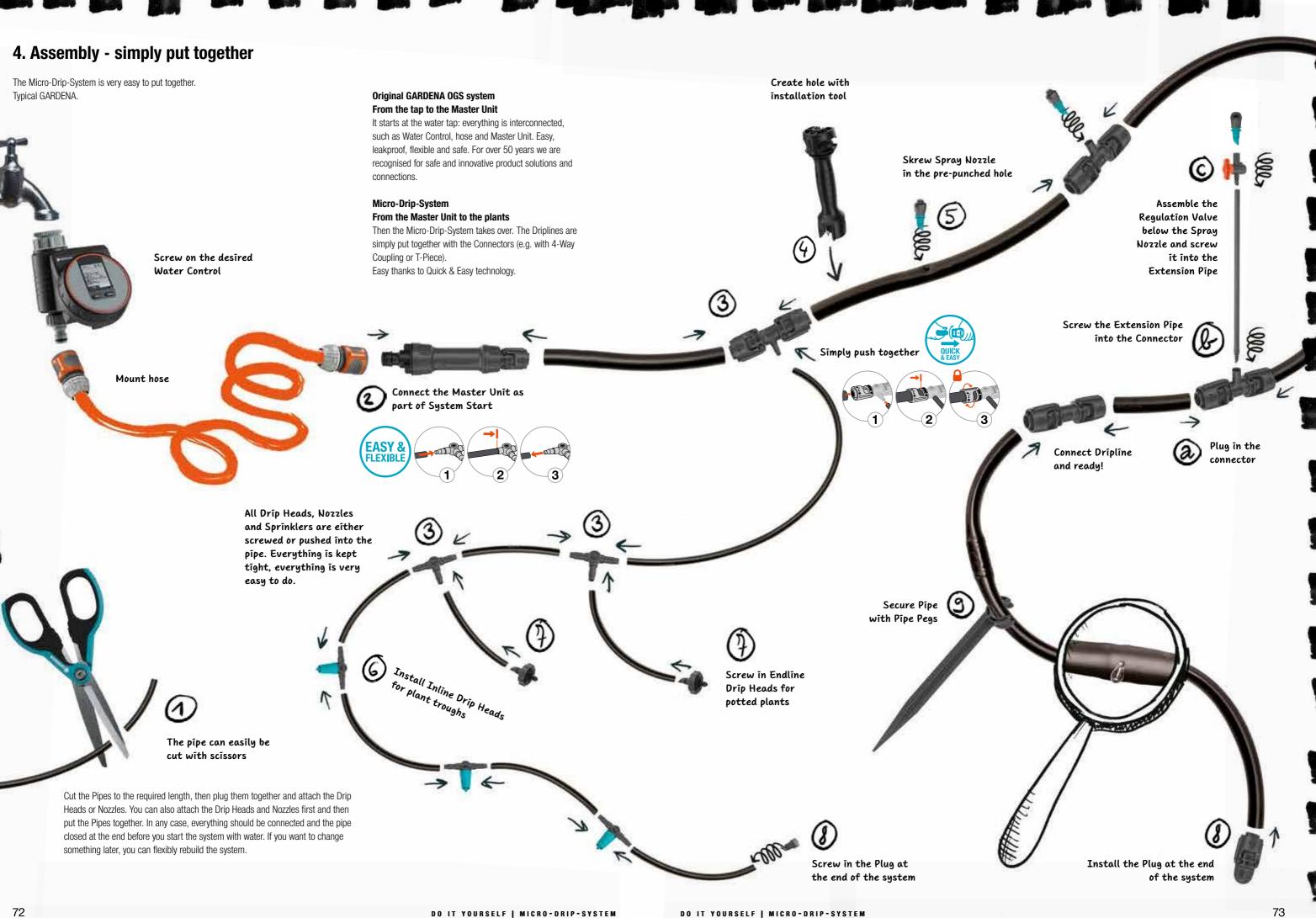
damage that may arise during the implementation of the planning.

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Shopping list GARDENA Micro-Drip-System

Systemstart and Accessories 13333 Master Unit (flow rate up to 1000 l/h) 1 13222 Tap Fitting 13 mm (1/2") - 6 3/4" 1 13224 Tap Fitting 14.6 mm (3/16") - 6 3/4" 1 13313 Installation Tool 1 Pipes and Accessories 1346 Connecting Pipe Flex 13 mm (1/2"), 15 m 1 1350 Supply Pipe 4.6 mm (3/16"), 50 m 1 13207 Shut-Off/Regulation Valve 4.6 mm (3/16") 1 13217 Shut-Off/Regulation Valve 4.6 mm (3/16") 2 13218 Pipe Pegs 13 mm (1/2") 10 13212 L-Joint 4.6 mm (3/16") 10 13213 Connector 4.6 mm (3/16") 10 13214 4-Way Coupling 4.6 mm (3/16") 10 13215 Plug 4.6 mm (3/16") 10 13214 4-Way Coupling 4.6 mm (3/16") 10 13215 Plug 13 mm (1/2") 2 13202 L-Joint 13 mm (1/2") 2 13203 Connector 13 mm (1/2") 3 13204 A for y 5 </th <th>Article No.</th> <th>Name</th> <th>Content</th> <th>Piece</th>	Article No.	Name	Content	Piece
13310 Master Unit (How rate up to 2000 (/h) 1 13222 Tap Fitting 13 mm (1/2") - 6 3/4" 1 13224 Tap Fitting 4.6 mm (3/16") - 6 3/4" 1 13313 Installation Tool 1 Pipes and Accessories 1 1346 Connecting Pipe Flex 13 mm (1/2"), 15 m 1 1350 Supply Pipe 4.6 mm (3/16"), 15 m 1 1353 Supply Pipe 4.6 mm (3/16"), 50 m 1 13207 Shut-Off/Regulation Valve 13 mm (1/2") 1 13218 Pipe Pegs 13 mm (1/2") 10 13218 Pipe Pegs 4.6 mm (3/16") 10 13212 L-Joint 4.6 mm (3/16") 10 13213 Connector 4.6 mm (3/16") 10 13214 4-Way Coupling 4.6 mm (3/16") 10 13215 Plug 4.6 mm (3/16") 10 13216 T-Joint Nozzles/Endline Drip Heads 4.6 mm 5 (3/16") 10 13216 T-Joint Nozzles/Endline Drip Heads 4.6 mm 5 13202 L-Joint 13 mm (1/2") 2 13200 13200 13200	Systemst	art and Accessories		
13222 Tap Fitting 13 mm (1/2") - 6 3/4" 1 13224 Tap Fitting 4.6 mm (3/16") - 6 3/4" 1 1313 Installation Tool 1 Pipes and Accessories 1 1346 Connecting Pipe Flex 13 mm (1/2"), 15 m 1 1347 Connecting Pipe Flex 13 mm (1/2"), 50 m 1 1350 Supply Pipe 4.6 mm (3/16"), 15 m 1 1348 Supply Pipe 4.6 mm (3/16"), 50 m 1 13207 Shut-Off/Regulation Valve 13 mm (1/2") 1 13218 Pipe Pegs 13 mm (1/2") 10 13218 Pipe Pegs 4.6 mm (3/16") 10 13219 Connector 4.6 mm (3/16") 10 13211 T-Pieces 4.6 mm (3/16") 10 13212 L-Joint 4.6 mm (3/16") 10 13214 4-Way Coupling 4.6 mm (3/16") 10 13215 Piug 4.6 mm (3/16") 10 13216 T-Joint Nozzles/Endline Drip Heads 4.6 mm 5 (3/16") 10 13216 1-Joint Nozzles/Endline Drip 4.6 mm (3/16") 13202 L-Joint 13 mm (1/2") 2<	13333	Master Unit (flow rate up to 1000 l/h)	1	
Installation Tool Image (s) (1, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	13310	Master Unit (flow rate up to 2000 l/h)	1	
13313 Installation Tool 1 Pipes and Accessories 1 1346 Connecting Pipe Flex 13 mm (1/2"), 15 m 1 1350 Supply Pipe 4.6 mm (3/16"), 15 m 1 1348 Supply Pipe 4.6 mm (3/16"), 50 m 1 13207 Shut-Off/Regulation Valve 13 mm (1/2") 1 13217 Shut-Off/Regulation Valve 4.6 mm (3/16") 2 13208 Pipe Pegs 13 mm (1/2") 10 13218 Pipe Pegs 4.6 mm (3/16") 10 13212 L-Joint 4.6 mm (3/16") 10 13213 Connector 4.6 mm (3/16") 10 13214 4-Way Coupling 4.6 mm (3/16") 10 13215 Plug 4.6 mm (3/16") 10 13216 T-Joint Nozzles/Endline Drip Heads 4.6 mm 5 13203 Connector 13 mm (1/2") 2 13204 Connector 13 mm (1/2") 2 13205 Plug 13 mm (1/2") 5 13206 T-Joint Nozzles/Endline Drip Head 5.6 mm (3/16") 5 13205 Plug 13 mm (1/2") 1 1 <	13222	Tap Fitting 13 mm (1/2") - G 3/4"	1	
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13208 Pipe Pegs 13 mm (1/2") 10 13218 Pipe Pegs 4.6 mm (3/16") 15 Connection 13213 Connector 4.6 mm (3/16") 10 13214 L-Joint 4.6 mm (3/16") 10 13215 L-Joint 4.6 mm (3/16") 10 13214 4-Way Coupling 4.6 mm (3/16") 10 13215 Plug 4.6 mm (3/16") 10 13203 Connector 13 mm (1/2") 10 13204 T-Joint Nozzles/Endline Drip Heads 4.6 mm (3/16") 5 13202 L-Joint 13 mm (1/2") 2 13204 Connector 13 mm (1/2") 2 13205 Plug 13 mm (1/2") 5 13204 Connector 13 mm (1/2") 5 13205 Plug 13 mm (1/2") 5 13205 Plug 13 mm (1/2") 1 Micro-Drip-System for Potted Plants 5 13401 Micro-Drip-Irrigation Balcony Set 1 13400 Micro-Drip-Irrigation Terrace Set 1 13307 Endline Drip Head 2 l/h, pressure-compensating 10	13207	Shut-Off/Regulation Valve 13 mm (1/2")	1	
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Image:	13214	4-Way Coupling 4.6 mm (3/16")	10	
(3/16") 3 13203 Connector 13 mm (1/2") 3 13202 L-Joint 13 mm (1/2") 2 13201 T-Joint 13 mm (1/2") 2 13204 Connector 13 mm (1/2") 2 13205 Plug 13 mm (1/2") 5 13206 T-Joint Spray Nozzles 13 mm (1/2") 5 13200 Universal Connector 13 mm (1/2") 5 13200 Universal Connector 13 mm (1/2") 1 Micro-Drip-System for Potted Plants 5 Starter Sets 1 13401 Micro-Drip-Irrigation Terrace Set 1 13400 Micro-Drip-Irrigation Terrace Set 1 13307 Endline Drip Vh 25 13307 Endline Drip Head 2 l/h, pressure-compensating 10 13305 Adjustable Endline Drip 0-15 l/h 10 13304 Adjustable Endline Drip Head 1-8 l/h, 5 5 13317 Inline Drip Head 2 l/h, pressure-compensating 10 13312 Inline Drip Head 2 l/h, pressure-compensating 10 13312 Inline Drip Head 2 l/h	13215	Plug 4.6 mm (3/16")	10	
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13204 Connector 13 mm (1/2") - 4.6 mm (3/16") 5 13205 Plug 13 mm (1/2") 5 13206 T-Joint Spray Nozzles 13 mm (1/2") 5 13200 Universal Connector 13 mm (1/2") 1 Micro-Drip-System for Potted Plants Starter Sets 13401 Micro-Drip-Irrigation Balcony Set 1 13400 Micro-Drip-Irrigation Terrace Set 1 Indline Drip heads 13307 Endline Drip 2 l/h 25 13302 Endline Drip Head 2 l/h, pressure-compensating 10 13305 Adjustable Endline Drip 0-15 l/h 10 13304 Adjustable Endline Drip Head 1-8 l/h, 5 5 13317 Inline Drip Head 2 l/h, pressure-compensating 10 13317 Inline Drip Head 2 l/h 10 13312 Inline Drip Head 2 l/h, pressure-compensating 10 13312 Inline Drip Head 2 l/h, pressure-compensating 10 13312 Inline Drip Head 2 l/h, pressure-compensating 10 13314 Adjustable Inline Drip Head 1-8 l/h, 5 5	13202	L-Joint 13 mm (1/2")	2	
13205 Plug 13 mm (1/2") 5 13206 T-Joint Spray Nozzles 13 mm (1/2") 5 13200 Universal Connector 13 mm (1/2") 1 Micro-Drip-System for Potted Plants 5 Starter Sets 1 13401 Micro-Drip-Irrigation Balcony Set 1 13400 Micro-Drip-Irrigation Terrace Set 1 Endline Drip heads 1 13307 Endline Drip 2 l/h 25 13302 Endline Drip Head 2 l/h, pressure-compensating 10 13305 Adjustable Endline Drip 0-15 l /h 10 13304 Adjustable Endline Drip Head 1-8 l/h, 5 5 13317 Inline Drip Head 2 l/h, pressure-compensating 10 13312 Inline Drip Head 2 l/h, pressure-compensating 10 13317 Inline Drip Head 2 l/h, pressure-compensating 10 13312 Inline Drip Head 2 l/h, pressure-compensating 10 13315 Adjustable Inline Drip Head 0-15 l/h 10 13314 Adjustable Inline Drip Head 1-8 l/h, 5 5	13201	T-Joint 13 mm (1/2")	2	
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13314 Adjustable Inline Drip Head 1-8 I/h, 5	13312	Inline Drip Head 2 l/h, pressure-compensating	10	
	13315	Adjustable Inline Drip Head 0-15 l/h	10	
	13314		5	

Article No.	Name	Content	Piece
Holiday a	nd Balcony Watering		
1265	Holiday Irrigation Set	1	
13366	Holiday Irrigation Set with Water Reservoir	1	
1407	city gardening Balcony Watering	1	
13300	Solar-powered Irrigation AquaBloom Set	1	
13301	Solar-powered Irrigation AquaBloom Water Reservoir Set	1	
13367	Water Reservoir	1	
Micro-Dr Starter Se	ip-System for Plant Areas ets		
13450	Micro-Drip-Irrigation Vegetable Bed/Flower Border Set (60 m ²)	1	
13455	Micro-Drip-Irrigation Raised Bed/Bed Set	1	
Spray Noz	zzles and Sprinklers		
13318	Endline Micro Strip Sprinkler	5	
13319	Micro Strip Sprinkler	5	
13320	Spray Nozzle 90°	5	
13321	Spray Nozzle 180°	5	
13322	Spray Nozzle 360°	5	
13324	6 in 1 Spray Nozzle	2	
13323	Micro Mist Nozzle	5	
13306	Small Area Spray Nozzle	10	
13316	Inline Small Area Spray Nozzle	10	
13325	Oscillating Sprinkler OS 90	1	
Accessori	ies for Spray Nozzles and Sprinklers		
13326	Extension Pipe for Spray Nozzles	5	
13231	Regulation Valve Sprayers	5	
13334	Extension Pipe OS 90	2	
Inline Drip) Heads		
13317	Inline Drip Head 2 I/h	10	
13312	Inline Drip Head 2 l/h, pressure-compensating	10	
13315	Adjustable Inline Drip Head 0-15 l/h	10	
13314	Adjustable Inline Drip Head 1-8 l/h, pressure-compensating	5	
Micro-Dr Starter Se	ip-System for Plant Rows ets		
13010	Micro-Drip-Irrigation Vegetable/Plant Row Set (15 m)	1	
13500	Micro-Drip-Irrigation Hedge/Bush Set (25 m)	1	
13501	Micro-Drip-Irrigation Hedge/Bush Set (50 m)	1	
Driplines			
1362	Dripline 4.6 mm, 3/16" (15 m)	1	
13503	Dripline 1.6 l/h for Above and Below Ground Irrigation (25 m)	1	
13504	Dripline 1.6 I/h for Above and Below Ground Irrigation (50 m)	1	

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