

The **A B C** guide to **Automatic Watering**

Let your
garden
water itself ..



.. while
you relax



HOZELOCK

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The easy way to get into automatic watering, everything you need is in one box

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Here we list all the tools you need, and explain how to plan your system:

- Planning instructions
- Drawing sheet
- Shopping list
- Helpline details



What is Automatic Watering?



- Perfect for holiday watering
- Takes the work out of watering
- Available as a complete kit

Automatic watering is a system that takes water from the tap to your plants using a simple network of narrow pipes and outlets hidden in the garden. This can be controlled manually or by a timer.

An automatic watering system takes the work out of watering. It waters your plants properly all through the season, even if you are away.

This booklet shows you how to create your own watering system using Hozelock's easy to install and simple to use drip system. Then we show you how to make it work automatically by combining it with a Hozelock timer.

If you are looking for a simple system to water your container plants when you are away on

holiday or a sophisticated system to water your entire garden, you'll find that an automatic watering system helps you manage your garden much more easily, allowing you to spend more time doing the things you want, rather than the things you have to.

THE SYSTEM

- Simple network of pipes
- Quick and easy to install
- Easy to extend

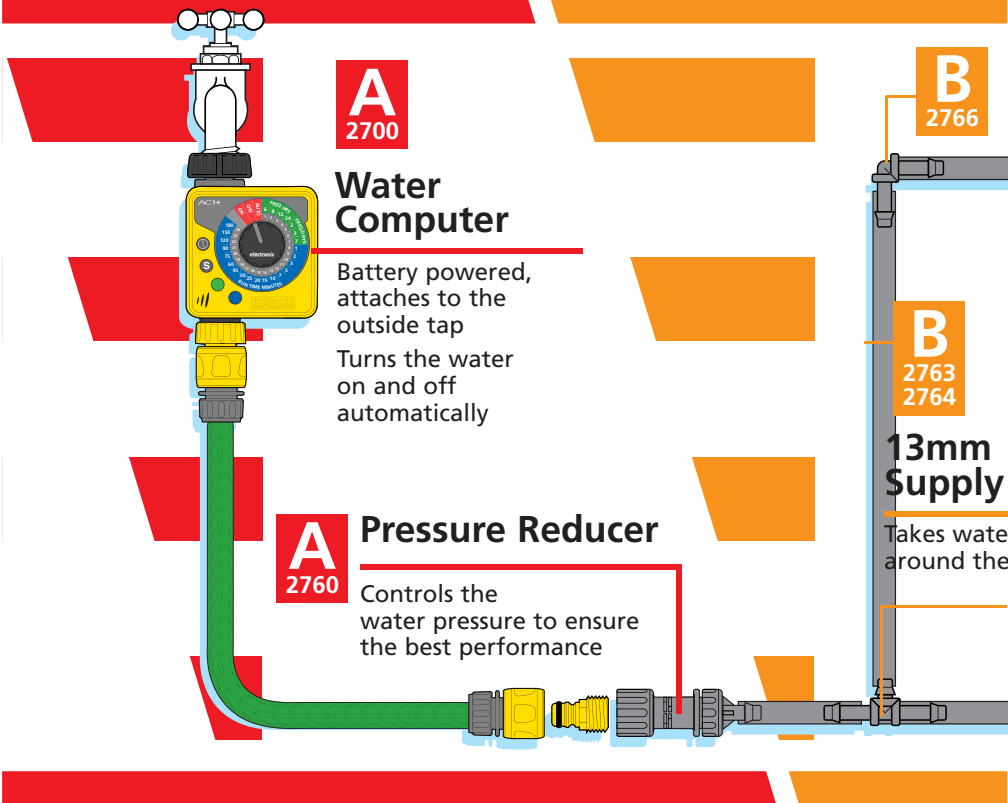
Automatic watering is a simple network of pipes that carry the water around the garden, and outlets that deliver it to the plants. Most systems can be installed in a few hours and all can be extended as your garden grows.

A TAP

Connects the automatic watering system to your tap

B PIPELINE

Super flexible, takes all around your garden



The Hozelock automatic watering system has been designed to be as easy as possible to understand, buy and install.

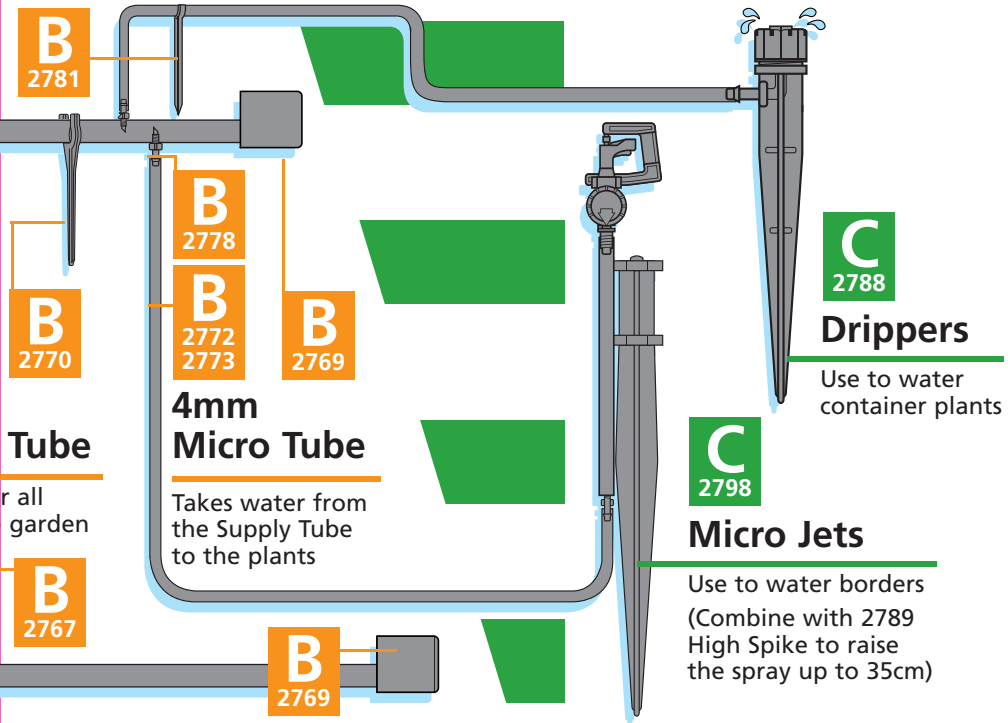
The system is split into three sections, each is in colour coded packaging.

- A** - **TAP** (red packaging)
Connects the system to your tap
- B** - **PIPELINE** (amber packaging)
Takes water all around your garden
- C** - **DRIPPER** (green packaging)
Use to water your plants and borders

E
es water
arden

C DRIPPER

Attach to pipe and use to water your container plants and borders



Tube
r all
garden

**4mm
Micro Tube**

Takes water from the Supply Tube to the plants

C 2788
Drippers

Use to water container plants

C 2798
Micro Jets

Use to water borders (Combine with 2789 High Spike to raise the spray up to 35cm)

A TAP

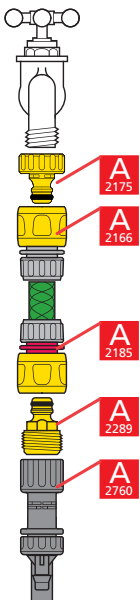
- Connects system to tap
- Always use a pressure regulator

The tap connection is vital. It connects the automatic watering system to the mains water supply. There are three different ways to make this connection. Always use a pressure reducer to control the water pressure to ensure the best performance.

All installations below can be automated by adding a Hozelock water computer.

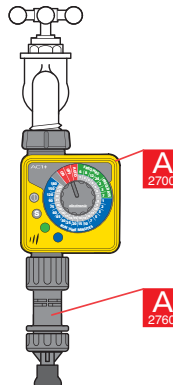
1 Remote connection

To make a remote connection to the automatic watering system, make a connector hose with hose end connectors at each end of some good quality garden hose. Screw an adaptor to the pressure regulator then click-fit together. Attach to a tap with a threaded tap connector.



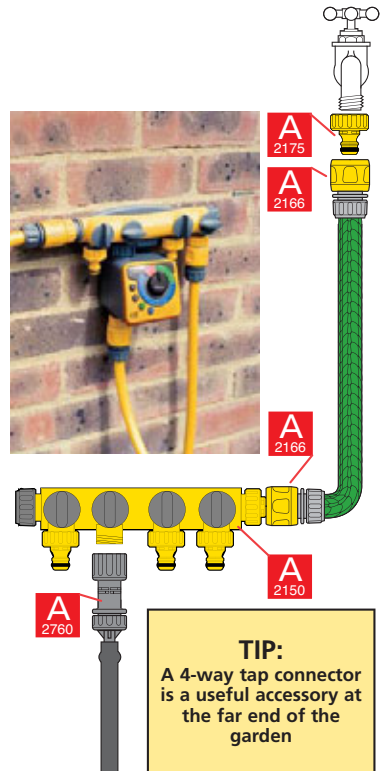
2 Direct connection

To make a direct connection to the automatic watering system, screw the pressure regulator directly onto your outside tap or electronic water timer.



3 Total Flexibility

For the most flexible connection, use a 4-way tap connector (2150) and screw the pressure regulator onto one of the four outlets



TIP:
A 4-way tap connector is a useful accessory at the far end of the garden

Water Computers

- Automate - Add a water computer
- Water even when you're away

Aqua Control timers automate the watering system completely. They save you time and make sure your plants are regularly watered, even when you are away. Hozelock's programmable, battery-powered timers are simply screwed to an outside tap. Programming is easy and there's a manual over-ride for other watering tasks.

2705 Aqua Control 1 - *Ultra simple*



- Ideal for:**
- Simple garden use
 - Holiday watering
 - Pots and containers
- Programmes:** 13 pre-set programmes
- Waters:** From once a week to 4 times a day
- Manual setting:** Up to one hour

2700 Aqua Control 1+ - *Simple and flexible*



- Ideal for:**
- Simple garden use
 - Holiday watering
 - Pots and containers
- Programmes:** Flexible
- Waters:** From once a week to 4 times a day
- Manual setting:** Up to one hour

2706 Aqua Control 2 - *Total digital control*



- Ideal for:**
- Advanced garden use
 - Holiday watering
 - Hanging baskets
- Programme:** Totally flexible
- Waters:** From once a week to twice a day
- Manual setting:** Up to six hours

2707 Aqua Control 4 - *Total digital control*



- Ideal for:**
- Garden experts
 - Greenhouses
 - Early season vegetables
 - Holiday watering
- Programme:** Totally flexible
- Waters:** From once per week to four times a day
- Manual setting:** Up to twelve hours

Maintenance: Install new batteries at the start of each season by simply unscrewing the back of the unit. Protect from frost in winter.



B PIPELINE

13mm supply hose system

- Hozelock's 13mm tubing is supple, long lasting and UV resistant.

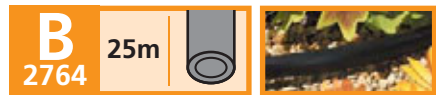
Use elbows, t-pieces and joiners to make the network.
Use wall clips and stakes to secure it in place.

The pipe can be buried up to 5cm in the ground or covered with mulch.
The tables below show the pack quantities available for each product



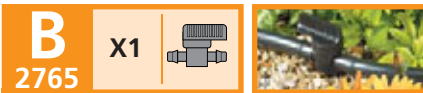
13mm Supply Tube*

10 metres of highly flexible UV stable supply tube



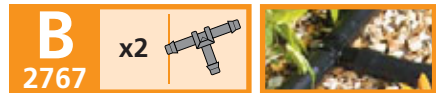
13mm Supply Tube

25 metres of highly flexible UV stable supply tube



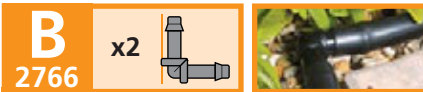
Flow Control Valve

Shuts off or adjusts flow in supply tube



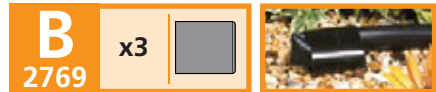
'T' Piece

For branching 13mm supply tube



90° Elbow Connector

For making 90° turns in supply tube



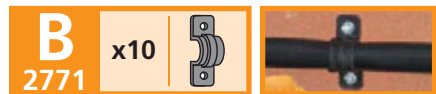
End Plug

For closing off ends of supply tube



Straight Connector

For extending the supply tube



Wall Clip

Secures supply tube to walls or fences



Stake

Holds supply tube in position



Blanking Plug



Seals holes in supply tube

4mm micro tube system

- The 4mm micro tubing takes water from the supply tube to the plants.



Hozelock thick walled tubing is kink, crush and UV resistant.

Use with t-pieces and in-line connectors and secure in place with stakes.

B
2772 | 10m |  


4mm Micro Tube

10m of highly flexible UV stable micro tube

B
2773 | 25m |  



4mm Micro Tube*

25m of highly flexible UV stable micro tube

B
2776 | X2 |  

Flow Control Valve

Shuts off or adjusts flow in micro tube

B
2777 | x10 |  


'T' Piece

For branching 4mm supply tube

B
2781 | x10 |  

Stake

Holds micro tube in position

B
2778 | x10 |  



Straight Connector

For attaching 4mm pipe to supply tube or extending the micro tube

B
2782 | x10 |  

Wall Clip

Secures micro tube to walls or fences

B
2799 | x1 |  

Hole Punch

For punching holes in 13mm tube



























* Not available in the U.K

C DRIPPERS

You can fit any combination of Drippers, Microjets and Mini Sprinklers, depending on the plants and where you want to water. Choose the best drippers for your needs from the table below.

The length of time your system needs to run for will depend on several factors, eg, the time of year, the weather and the type of plants.

Experiment until you get the best performance from your system.

Part No	Description	Pack Quantity	Area Coverage	Action Shot	Flow Rate	Hanging baskets
2783	Fixed 4 lph Dripper	10			4 lph max	
2784	Automatic 4 lph In-line Dripper	5			4 lph Auto	●
2785	Auto. 4 lph End of line Dripper	5			4 lph Auto	●
2786	In-line Mini Adjust. Sprinkler	5			0-40 lph	●
2787	End-line Mini Adjust. Sprinkler	10			0-40 lph	●
2788	End-Line Mini Adj. Sprinkler on stake	5			0-40 lph	●
2790	90° Microjet	6			55 lph	
2791	180° Microjet	6			55 lph	
2792	360° Microjet	6			55 lph	
2793	90° Adjustable Microjet *	3			0-55 lph	
2794	180° Adjustable Microjet *	3			0-55 lph	
2795	360° Adjustable Microjet *	3			0-55 lph	
2796	Strip Microjet	6			33 lph	
2797	Mister Microjet	6			55 lph	
2798	360° Mini Sprinkler	2			82 lph	

Save water and help your plants by putting drippers and sprinklers close to the roots and in the shade of leaves.

This way your plants will take up more water, the soil will remain moist and evaporation will be lower. (The number of drippers your tap will support needs to be calculated – see page 15 for details.)

CHOOSE THE BEST DRIPPER FOR EACH WATERING TASK						Where & how to use
Troughs/ Growbags	Round containers	Borders	Green- houses	Cloches/ Cold frames	Vegetable gardens	
●	●					Simple Dripper. Use at the base of small plants. Secure with Stake
●		●	●	●	●	Advanced dripper. Ideal for all uses especially container plants and hanging baskets. Secure with a stake
●	●	●	●	●	●	
●		●	●	●	●	Use amongst group of small plants and at the roots of larger ones. Use upside down above hanging baskets. Use with Stake to secure.
●	●	●	●	●	●	
●	●	●	●	●	●	Supplied with Stake fitted
		●	●		●	Different patterns to ensure complete coverage of flowerbeds and border. Overlap to avoid dry patches.
		●	●		●	
		●	●		●	
		●	●		●	Flow is fully adjustable. Different patterns to ensure complete coverage of flowerbeds and border. Overlap to avoid dry patches.
		●	●		●	
		●	●		●	
		●			●	For delicate plants and seedlings. Use under glass only
			●	●		
		●			●	Fully adjustable flow. Overlap to avoid dry patches

Combine with 2789 High Jet to raise pattern by 35cm

KITS

■ Kits include everything you need to install your own system

If you still don't know where to start or you want the convenience of a kit where everything is supplied in one box then pick one of our starter sets.



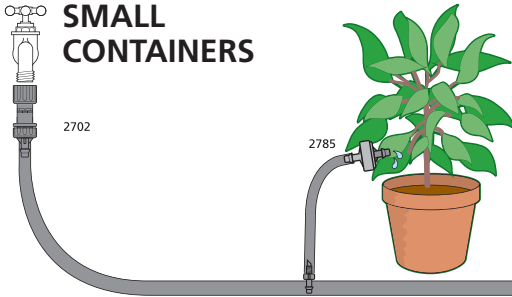
Maxi AutoKit
Comprehensive kit for larger gardens

Mini AutoKit
Ideal for hanging baskets and patios

Deluxe AutoKit
All-in-one kit for larger gardens - includes AC1+ Water Computer

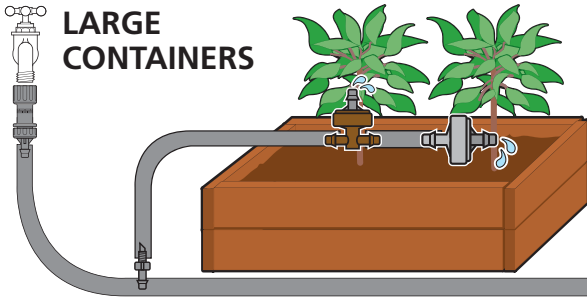
Kit	Water Computer	Hose Supplied	Waters up to			
			Small Containers	Large Containers	Hedge	Border
Mini AutoKit	X	15m of 4mm	15	7	7.5m	3 x 2m
Maxi AutoKit	X	10m of 4mm 15m of 13mm	20	10	10m	5 x 2m
Deluxe AutoKit	✓	10m of 4mm 15m of 13mm	20	10	10m	5 x 2m

SMALL CONTAINERS



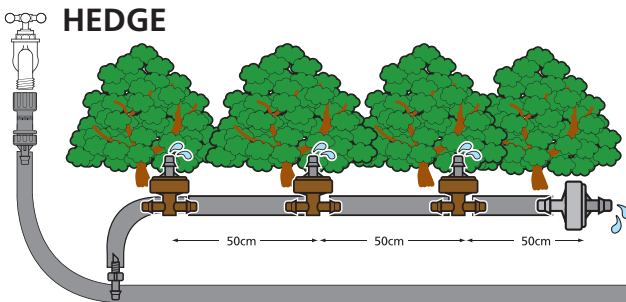
Mini AutoKit	Maxi AutoKit	Deluxe AutoKit
x15	x20	x20

LARGE CONTAINERS



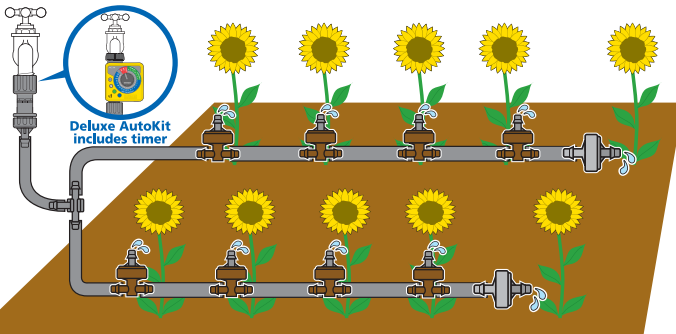
Mini AutoKit	Maxi AutoKit	Deluxe AutoKit
x7	x10	x10

HEDGE



Mini AutoKit	Maxi AutoKit	Deluxe AutoKit
Maximum length of hedge		
7.5m	10m	10m

BORDER



Mini AutoKit	Maxi AutoKit	Deluxe AutoKit
Maximum size of border		
3 x 2m	5 x 2m	5 x 2m

KITS

DESIGN YOUR OWN SYSTEM





DESIGN YOUR OWN SYSTEM

- Follow these simple steps to plan a tailor-made system and fill in the shopping list on page 15. Even if you don't build exactly to plan, you will have enough information to buy the components you need.



You need paper, a pencil, some coloured pens and a long tape measure.

Use the paper to sketch the area where you are going to build the system. Note the dimensions as you measure. Transfer the measurements to the squared paper afterwards.

- 1** Measure (preferably in metres and centimetres) and mark on your sketch:

- The fixed elements - house, outside tap etc.
- Distance from outside tap to start of system
- Length of fences, walls, beds where supply tube and micro tube will run.
- Key planting areas - container groups, thirsty and precious plants, seedlings etc.
- Any obstacles, e.g. paths or driveways.
- Height of fence panels, walls etc if hanging baskets are to be watered.

- 2** Carefully transfer your measurements to the squared paper. Depending on the size of the area, use one of the following scales:

1cm square = 0.50 metres (1:50)
1cm square = 1 metre (1:100)

- 3** Draw the supply tube, showing angles and joints for connectors.
- 4** Plan in flow control valves where supply tube is likely to be longer than 50m, or use two Aqua Control timers and a four-way tap connector (see page 6).
- 5** Using a different colour, show the lines of micro-tubing.
- 6** Mark the outlets, using different coloured pens for each type (see page 10 for table of drippers).
- 7** Count up the outlets, connections, fixings and length of tubing and complete your shopping list.

SHOPPING LIST

	Code	Description	Pack Amount	Quantity Req'd		Code	Description	Pack Amount	Quantity Req'd	
A	2760	Pressure Reducer	1		C	DRIPPERS				
	2705	Aqua Control 1	1			2783	4 lph End of Line Dripper	10		
	2700	Aqua Control 1+	1			2784	4 lph In Line Pressure Compensating Dripper	5		
	2706	Aqua Control 2	1			2785	4 lph End of Line Pressure Compensating Dripper	5		
	2707	Aqua Control 4	1			MINI SPRINKLERS				
	2175	Threaded Tap Connector	1			2786	In Line Adjustable Mini Sprinkler	5		
	2150	4 way Tap Connector	1			2787	End Line Adjustable Mini Sprinkler	10		
	2166	Hose End Connector	1			2788	Stake Adjustable End of Line Mini Sprinkler	5		
	13mm						MICRO JETS			
	2763	Supply Tube *	10m			2790	90° Micro Jet	6		
2764	Supply Tube	25m		2791	180° Micro Jet	6				
2765	Flow Control Valve	1		2792	360° Micro Jet	6				
2766	Elbow Connector	2		2793	90° Adjustable Micro Jet *	3				
2767	'T' Piece	2		2794	180° Adjustable Micro Jet *	3				
2768	Straight Connector	2		2795	360° Adjustable Micro Jet *	3				
2769	End Plug	3		2796	Strip Micro Jet	6				
2779	Blanking Plug	10		2797	Mister Micro Jet	6				
2770	Stake	5		2798	360 deg Mini Sprinkler	2				
2771	Wall Clip	10		2789	High Spike	3				
2799	Hole Punch	1		2754	Mini Autokit	1				
4mm					2755	Maxi AutoKit	1			
2772	Micro Tube	10m		2756	Deluxe Autokit	1				
2773	Micro Tube*	25m								
2776	Flow Control Valve	2								
2777	'T' Piece	10								
2778	Tube Adaptor	10								
2781	Micro Tube Stake	10								
2782	Wall Clip	10								

* Not available in the U.K.

To calculate the capacity of your system

Fit the pressure regulator (2760) to the tap. With the tap fully on, fill a bucket and count the number of seconds it takes to fill. Multiply the number of litres your bucket holds by 3600, and divide by the number of seconds it took to fill. This will give the maximum flow rate per hour.

Example: A 9 litre bucket filled in 15 seconds: (litres) $9 \times 3600 \div 15$ (seconds) = 2160 l/h

Each outlet has a flow rate. For example: Microjets use 55 litres/hour, therefore with a maximum flow rate of 2160 l/h, the maximum number useable is 39 (2160 ÷ 55).

Now fill in your own calculation: (litres) x 3600 ÷ (seconds) = l/h

TIP:

The code numbers shown here will help you to identify the products on pages 04-11 of this booklet and to choose the products you need from the Hozelock range.

The **A B C** guide to **Automatic Watering**

Find out everything you need to know about creating an automatic watering system that will look after your plants while you are away.

- Simple diagrams
- Easy tips and projects
- Complete guide on how to water
- Colour coded sections
- Kits and projects

Help is at hand

Our expert advisors will help you with any aspect of automatic watering, including products and installation advice and where to buy.

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