

SHOPPING LIST

Code	Description	Pack Amount	Quantity Req'd	Code	Description	Pack Amount	Qty Req'd
A	2760 Pressure Reducer	1		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	
	2701 Aqua Control Pro	1		2785	4 lph End of Line Pressure Compensating Dripper	5	
	2175 Threaded Tap Connector	1		MINI SPRINKLERS			
B	2150 4 way Tap Connector	1		2786	In Line Adjustable Mini Sprinkler	5	
	2050 Hose End Connector	1		2787	End Line Adjustable Mini Sprinkler	10	
	13mm			2788	Stake Adjustable End of Line Mini Sprinkler	5	
	2763 Supply Tube *	10m		MICRO JETS			
	2764 Supply Tube	25m		2790	90° Micro Jet	6	
C	2765 Flow Control Valve	1		2791	180° Micro Jet	6	
	2766 Elbow Connector	2		2792	360° Micro Jet	6	
	2767 'T' Piece	2		2796	Strip Micro Jet	6	
	2768 Straight Connector	2		2797	Mister Micro Jet	6	
	2769 End Plug	3		2798	360 deg Mini Sprinkler	2	
B	2779 Blanking Plug	10		2789	High Spike	3	
	2770 Stake	5		2822	Greenhouse Watering Kit	1	
	2771 Wall Clip	10		2823	Aquapod Kit	1	
	2799 Hole Punch	1		2754	Mini Autokit	1	
	4mm			2755	Maxi AutoKit	1	
B	2772 Micro Tube	10m		2756	Deluxe Autokit	1	
	2776 Flow Control Valve	2					
	2777 'T' Piece	10					
	2778 Tube Adaptor	10					
	2781 Micro Tube Stake	10					
B	2782 Wall Clip	10					

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** x **3600** ÷ **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 04-13 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.

Telephone: 0121 313 1122
Email: consumer.services@hazelock.com



Hozelock Ltd
Midpoint Park, Birmingham B76 1AB
Telephone: 0121 313 1122

33673-001



THE **A B C** GUIDE TO
AUTOMATIC WATERING



03 What is Automatic Watering?

Overview of what Automatic Watering is

04 ABC guide to Automatic Watering

Explanation of how Automatic Watering works

06 A TAP

Focus on how the system is connected to the tap, and controlled by water computers

08 B PIPELINE

Focus on the water distribution system, showing how the water is carried from the tap to the drippers

10 C DRIPPERS

Focus on the delivery part of the system showing the watering options available

12 Kits

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

14 Design & installation

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.

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

A TAP

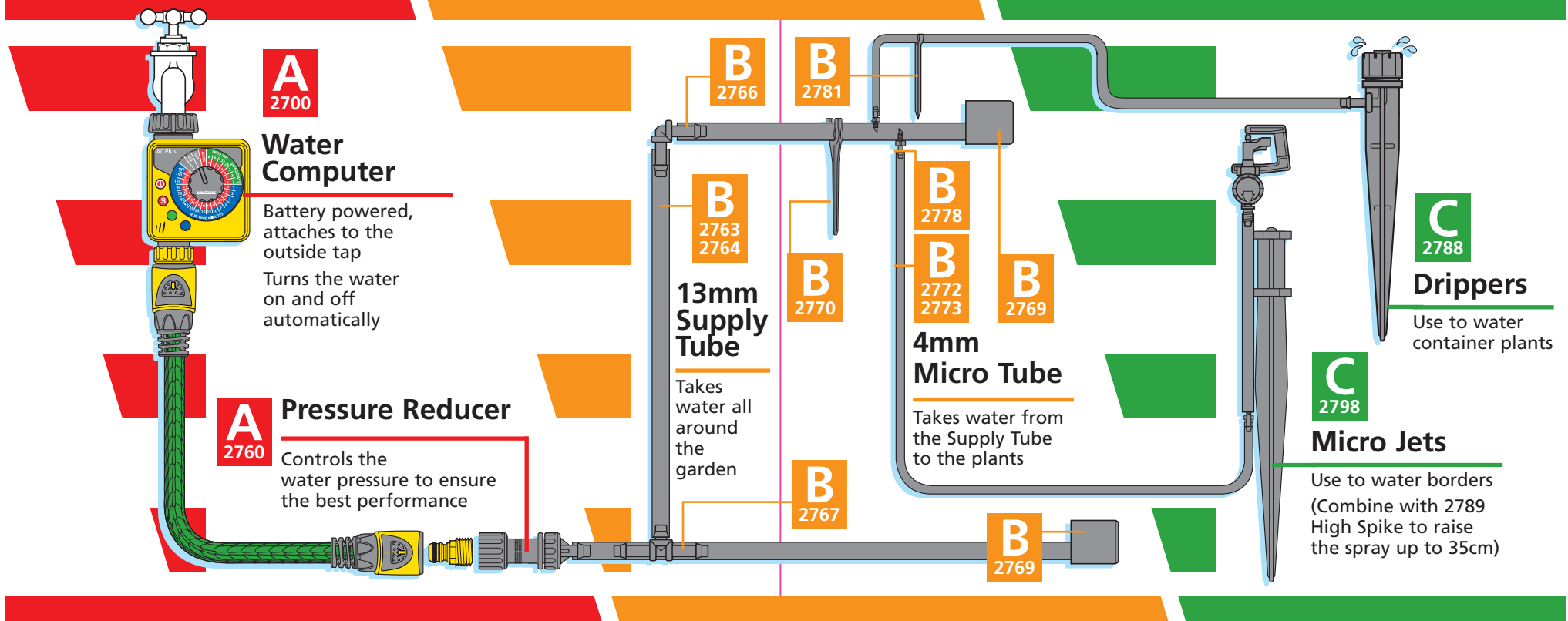
Connects the automatic watering system to your tap

B PIPELINE

Super flexible, it takes water all around your garden

C DRIPPER

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



A TAP

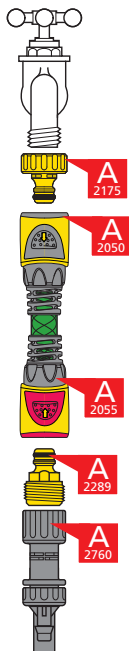
- Connects system to tap
- Always use a pressure regulator

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.



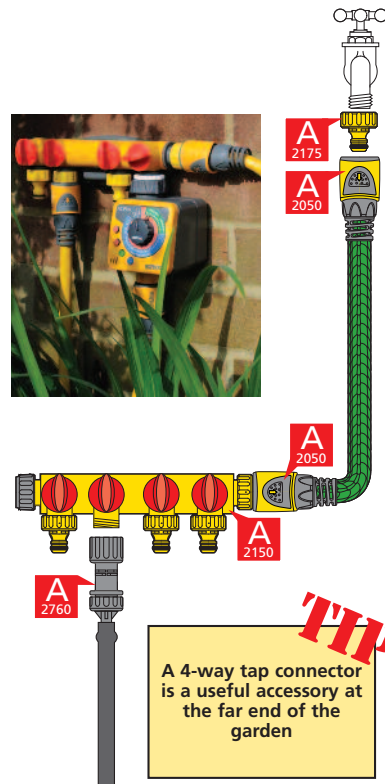
2 Direct Connection

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



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

2700 Aqua Control Plus - 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

2701 Aqua Control Pro - Total digital control



- Ideal for:**
- Garden experts
 - Greenhouses
 - Early season vegetables
 - Holiday watering

Programme: Totally flexible

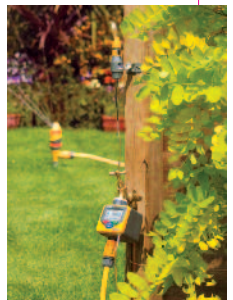
Waters: 28 programmes up to four times a day

2702 Rain Sensor - Simple accessory for AC Pro



Connects directly to the Aqua Control Pro using the 10m cable supplied and when rain is detected automatically overrides the watering program

Water Computer 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

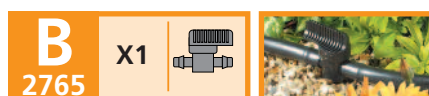
- Hozelock's 13mm tubing is supple, long lasting and UV resistant.

Use elbows, t-pieces and joiners to make the network.

Use wall clips and stakes to secure it in place.

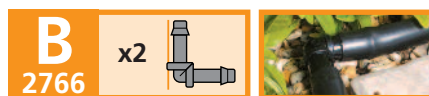
The pipe can be buried up to 5cm in the ground or covered with mulch.

The tables below show the pack quantities available for each product



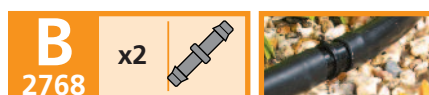
Flow Control Valve

Shuts off or adjusts flow in supply tube



90° Elbow Connector

For making 90° turns in supply tube



Straight Connector

For extending the supply tube



Stake

Holds supply tube in position



13mm Supply Tube

25 metres of highly flexible UV stable supply tube



'T' Piece

For branching 13mm supply tube



End Plug

For closing off ends of supply tube



Wall Clip

Secures supply tube to walls or fences



Blanking Plug

Seals holes in supply tube

4mm micro tube system

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

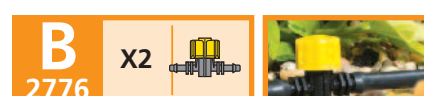
Hozelock thick walled tubing is kink, crush and UV resistant.

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



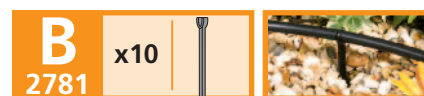
4mm Micro Tube

10m of highly flexible UV stable micro tube



Flow Control Valve

Shuts off or adjusts flow in micro tube



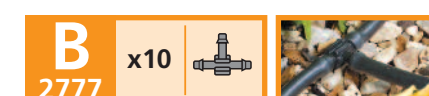
Stake

Holds micro tube in position



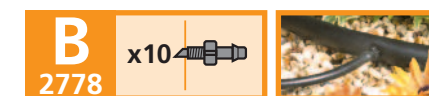
Wall Clip

Secures micro tube to walls or fences



'T' Piece

For branching 4mm supply tube



Straight Connector

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



Hole Punch

For punching holes in 13mm tube

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.

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.)

Part No	Description	Pack Quantity	Area Coverage	Action Shot	Flow Rate	CHOOSE THE BEST DRIPPER FOR EACH WATERING TASK							Where & how to use
						Hanging baskets	Troughs/ Growbags	Round containers	Borders	Green-houses	Cloches/ Cold frames	Vegetable gardens	
2783	Fixed 4 lph Drinker	10			4 lph max		●	●					Simple Drinker. Use at the base of small plants. Secure with Stake
2784	Automatic 4 lph In-Line Drinker	5			4 lph Auto	●	●		●	●	●	●	Advanced drinker. Ideal for all uses especially container plants and hanging baskets. Secure with a stake
2785	Auto. 4 lph End-of-Line Drinker	5			4 lph Auto	●	●	●	●	●	●	●	
2786	In-Line Mini adjust. Sprinkler	5			0-40 lph	●	●		●	●	●	●	Use amongst group of small plants and at the roots of larger ones. Use upside down above hanging baskets. Use with Stake to secure.
2787	End-Line Mini Adjust. Sprinkler	10			0-40 lph	●	●	●	●	●	●	●	
2788	End-Line Mini Adjust. Sprinkler on stake	5			0-40 lph	●	●	●	●	●	●	●	Supplied with Stake fitted
2790	90° Microjet	6			55 lph				●	●		●	Different patterns to ensure complete coverage of flowerbeds and border. Overlap to avoid dry patches.
2791	180° Microjet	6			55 lph				●	●		●	
2792	360° Microjet	6			55 lph				●	●		●	
2796	Strip Microjet	6			33 lph				●			●	
2797	Mister Microjet	6			55 lph					●	●		For delicate plants and seedlings. Use under glass only
2798	360° Mini Sprinkler	2			82 lph				●			●	Fully adjustable flow. Overlap to avoid dry patches

Combine with 2789 High Jet to raise pattern by 35cm

MICRO IRRIGATION & AUTOMATIC WATERING KITS



The innovative Hozelock Aquapod's are the quickest, easiest, and most flexible way to water your garden. They use 90% less water compared to hand watering, guarantee better crops and save your plants from drought.



Greenhouse Watering Kit
This kit is perfect for watering plants and vegetables in your greenhouse.



AquaPod
This kit is perfect for automatically watering your plants while you are on holiday.

	Aquapod	Water Computer	Hose Supplied	Waters up to		
				Small Containers	Large Containers	Growbags
Greenhouse Watering Kit	2x 	✗	2 x 10m 10 x 1m	10	5	4
Auto AquaPod	2x 	✓	2 x 10m 10 x 1m	10	5	4

These Hozelock kits are the perfect introduction to micro irrigation. The kits include everything you need to start your own system. Hozelock also have a wide range of products that can be bought separately to extend these systems.



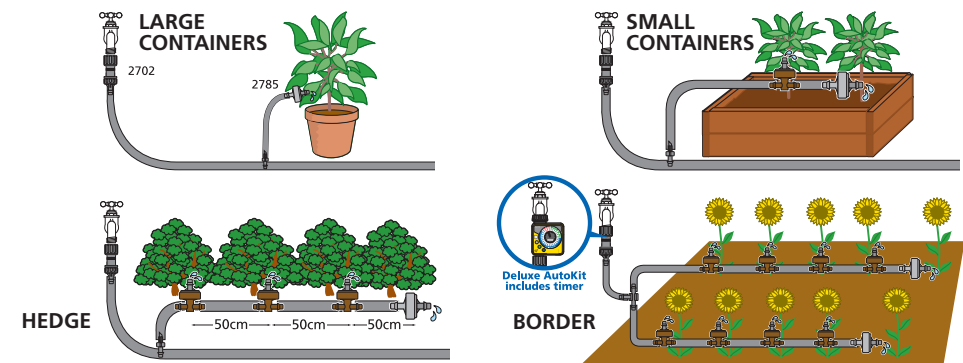
Deluxe AutoKit
This kit is perfect for automatically watering borders and vegetable gardens while you are on holiday.



Maxi AutoKit
This kit is perfect for allowing you to water your borders and vegetable patches quickly and easily.

Mini AutoKit
The perfect kit for starting your micro irrigation system.

Kit	Water Computer	Hose Supplied	Waters up to			
			Small Containers	Large Containers	Hedge	Border
Mini AutoKit	✗	15m of 4mm	15	7	7.5m	3 x 2m
Maxi AutoKit	✗	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



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.

DESIGN YOUR OWN SYSTEM

[illegible]