

# 50 m<sup>2</sup> (540 sq ft) Kit

---

## Your Kit Components



1 x 50m<sup>2</sup> Complete Kit



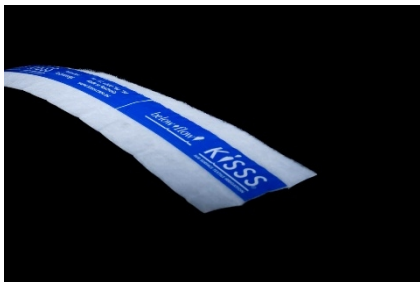
Tap Assembly



Auto-flushing valve (spinlock)



100m (325') x KISS in 1 x roll



Install this way up.

## Warnings!!

- **STORE IN COOL PLACE OUT OF DIRECT SUNLIGHT!!**  
The deflection tape and base tape may delaminate if kept in hot environment.
- Do not remove the Pressure Reduction Valve!  
The system comes with a pressure regulator in the tap assembly. It is set at 100 Kpa which is the drip tube manufacturer's specified pressure. If removed, normal residential water pressure may rupture the KISSS pipe.
- Check authorities for local rules such as back-flow prevention.
- Check authorities for the location of electricity, water and gas lines in your garden.
- A filter may be needed.  
Most residential water is very clean. However, if you use water from a source where the quality is uncertain, you will need to purchase a 120 mesh filter and connect it before the Tap Assembly.
- You may need to "winterize" your system.  
In very cold climates, water inside the KISSS pipe may freeze and rupture the system. To prevent this, perform the following BEFORE the ground freezes:
  - a) Turn off the system.
  - b) Disconnect it from the tap for the whole period.
  - c) Allow the water to drain out of the pipe.

## Tools

Additional materials and tools you will need:

- Sharp spade to cut the edges of the trench
- Trenching shovel (75mm/3" wide) to remove grass and soil
- Measuring tape
- String line and pegs or spray marking paint (to mark layout)
- Gloves
- Hose for watering
- Scissors

Other materials that would be handy but not essential:

- 5kg bag of Gypsum (11 lbs)
- Plastic sheeting to load soil onto while digging (this protects the grass around the trench)

### TIPS:

Check the installation video at [www.kisslawnandgarden.com](http://www.kisslawnandgarden.com).

Print out the example layout diagram and have it handy.

## Preparation

Things to do before installation:

- If your site already has lawn, water it well the day before so it's moist and easy to dig out.
- If your site is bare soil, water it well 2 days before so it's not muddy on the day of installation.

## Suggestions

Add a battery powered timer to your tap in order to set watering schedules.

This minimizes water wastage but maximizes growth.

## Installation Steps

### 1. Install the Tap Assembly

*It is assumed that your tap (faucet) is adjacent to the point from which the KISSS lines will run. If not, you may need to purchase a KISSS Header Extension Kit.*

- a) Connect the pressure regulator on your tap assembly to the tap.
- b) Make sure all the fittings are screwed tight.
- c) The spinlock elbow at the base of the tap assembly should be approximately the same level as the KISSS trench (200mm/8" below the surface).



### 2. Mark out the Serpentine Trench

*Your kit will have one (1) KISSS line of 100m (325'). Note that the maximum amount of KISSS in one line is 150m (485ft). You can have multiple lines connected to the tap assembly or a KISSS Header line.*

- a) Start from the bottom of the tap assembly (the spinlock elbow).
- b) Mark out the serpentine trench as per drawing(s) supplied. Your lawn will be different but you can use the diagrams as a guide.
- c) The lines of KISSS should be 0.5m (20") apart.
- d) When making the first turn in the trench line, make sure it is no less than a 0.5m (20") semi-circular shape then come back in a straight line.
- e) Repeat until the area has been fully marked in line with the diagram.

### 3. Dig the Trench

***Have you checked for POWER LINES beneath the surface?***

- a) Commence digging the trench at the tap assembly with a sharp spade following the trench outline you made.
- b) The trench should be 75mm (3") wide and 150mm-200mm (6"-8") deep.
- c) Take care to remove the turf and soil TOGETHER as it will be easier to put back in the trench. A trenching shovel will do this very neatly.
- d) Clean out the bottom of the trenches to make them free of rocks, sticks and sharp objects.

#### TIPS:

Placing the grass and soil on a plastic sheet will protect the grass which is not being dug up.

Adding a handful of gypsum every 1.0m (3 ft) helps the water spread in the soil.

### 4. Lay the KISSS Lines

- a) Remove the KISSS roll from the box (be careful not to let it unravel).
- b) Starting at the tap assembly, leave an extra 30cm (12") beyond the elbow fitting to ensure you have enough KISSS to connect to the elbow later.
- c) Weigh the KISSS line below the tap assembly with a heavy object to prevent it moving.
- d) Begin unrolling the KISSS line into the trench with the **thin deflection tape (with writing on it) facing up**.
- e) Every 1.0m (3ft) place some soil on top of the KISSS line so it remains flat and stays in place.
- f) The KISSS line can be gradually banked around the corners (the blue tape is up to 90° to the soil). Make sure the pipe inside the KISSS line does not "kink". Use soil to hold it in position.



- g) As you come out of the corner turn it back to the flat position with the blue tape facing up.

### 5. Connect the Auto-Flushing Valve

- a) Spin back the blue collar of the flushing valve to reveal the barb.
- b) At the end of the KISSS line peel back the base adhesive and white geotextile leaving the drip tape exposed.
- c) Hold the drip tape in one hand and squeeze the sides of the tube to make it round in shape then slowly push it onto the flush valve. The drip tube must go past the barb.
- d) Spin the flush valve collar firmly back in place over the barb and drip tape locking them together.
- e) Hold the flush valve in one hand and the KISSS line in the other and tug firmly to make sure they hold together.
- f) Place the connected flushing valve back in the trench.



**TIP:**

Wiggle the drip tape from side-to-side to slide it onto the flush valve more easily.

### 6. Connect the Tap Assembly

- a) Return to the tap assembly now.
- b) Spin back the collar of the elbow fitting to reveal the barb.
- c) At the end of the KISSS line peel back the base adhesive and white geotextile leaving the drip tape exposed.
- d) Measure where the KISSS line should be cut to join it to the elbow (it must cover the barb).
- e) Cut the drip line squarely with scissors.
- f) Hold the drip tape in one hand and squeeze the sides of the tube to make it round in shape then slowly push it onto the flush valve. The drip tube must go past the barb.

### 7. Check Water Flow

- a) Turn on the tap and walk along the line making sure that the water is getting to the far end at the flush valve. If there are any kinks in the KISSS line move the line as necessary to remove them (use soil to support the line if necessary).
- b) The flushing valve will release some water until the line is fully pressurized - then it will close off. Each time the water is turned on the flushing valve will flush debris from the line.

### 8. Back-fill the Trenches

- a) Turn off the tap before back-filling the trench.
- b) Start back-filling the trenches with soil from the tap end and then replace the turf.
- c) Compact the soil/grass firmly.
- d) Water the grass well to help it sit into the soil.

**TIP:**

Use liquid fertilizer and overhead watering for a few days to help heal the damage.

## Irrigation Schedules

### Summer:

- 30 minutes every 2<sup>nd</sup> day (vary this according to local conditions)

### Cool Months:

- 30 minutes twice per week

# 540ft<sup>2</sup> Kit

(325ft of KISSS)

## Layout Example

### HINTS

- Depth: 8" below surface  
Spacing: 20" between rows  
Angle: Flat with blue tape facing up  
OK to angle around corners
- Notes: Do not remove pressure regulator  
Store unused KISSS out of sun

