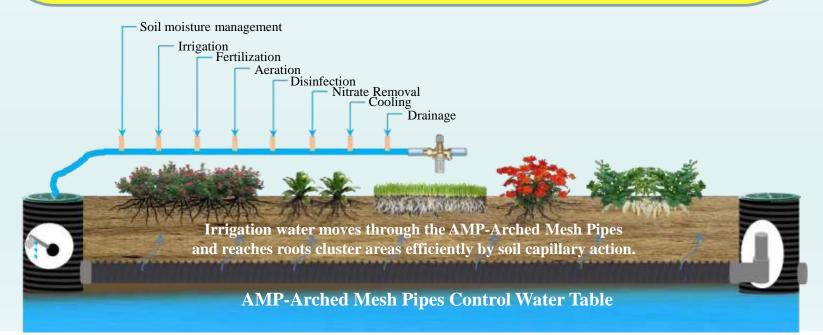


Water saving underground irrigation facility AMPS-Arched Mesh Pipe System

Create a Comfortable Plants Environment

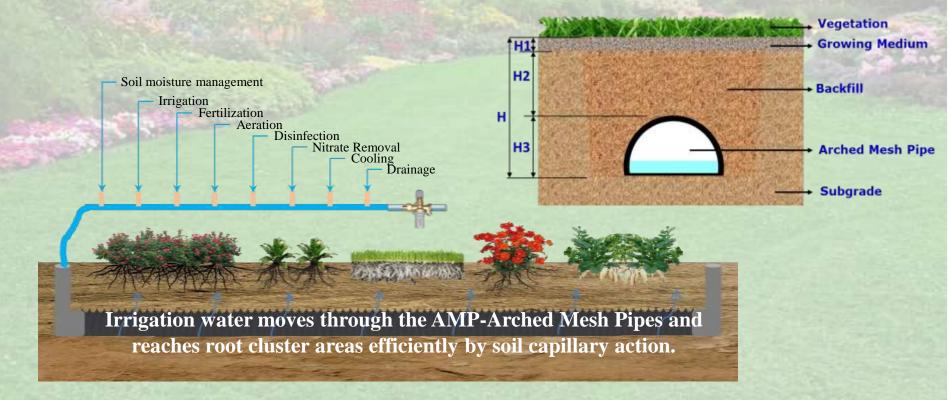




Create a comfortable plants environment

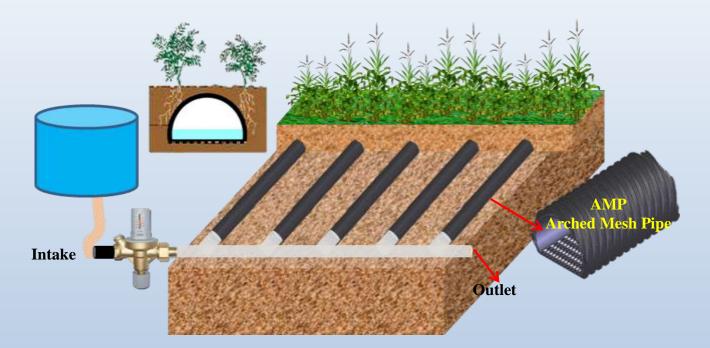
During a rain shower or irrigation application, the soil pores will fill with water, soil moisture content 20~30% in volume. Irrigation water moves through the Arched Mesh Pipes and reaches root cluster areas efficiently by soil capillary action. Irrigation water requirements and irrigation manpower are reduced, Plant growth increase are equivalent to reduce in fertilizer.

AMP-Arched Mesh Pipe provides soil moisture management, drainage, irrigation, fertilization, temperature control, disinfection and other functions.





AMPS-Arched Mesh Pipe Sub-Irrigation and Drainage System Create a comfortable plants environment



AMP-Arched Mesh Pipe

- ➢ Nitrate Removal
- ➢ High efficiency
- Fertilization
- Irrigation

Water, fertilizer, and micro-organisms are irrigated from the ground up through AMP-Arched Mesh Pipe

Soil moisture management

- ➢ Soil ventilation
- Control soil temperature
- ➤ Soil air supply
- ➤ Drainage

Exclude surface water Excluding soil saturated water Reduce excessive water table

Soil disinfection

- Interplant disinfection Non-phytosanitary insecticide and plant insecticide soaking solution for inter-plant soil disinfection through AMP-Arched Mesh Pipe
- Pre-plant hot air disinfection The AMP-Arched Mesh Pipe into the hot air, so that the hot air directly infiltrates into the soil layer of 20cm~30cm deep for disinfection. When the temperature reaches 50~80°C for 30 minutes, the disinfection work of the next zone can be performed.



AMPS-Arched Mesh Pipe Sub-Irrigation and Drainage System Create a comfortable plants environment





Advantages of underground irrigation and Drainage

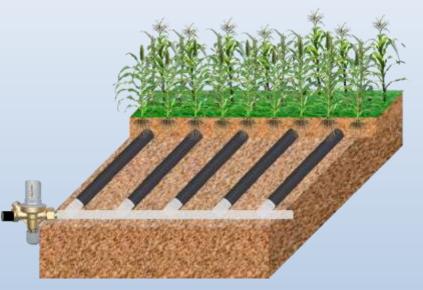
- They are water-efficient ,use between 40 and 50% less water than a conventional garden bed.
- Watering from the bottom up prevents evaporation of surface water
- Harder for weeds to establish as the soil on the surface is drier.
- Very labor efficient, they are self watering, watering is automatic, so it is possible to go away for two or three weeks at a time without your garden bed drying out.
- Can be watered by a low pressure water system, meaning it can be directly connected to a water tank without the use of a pressure pump.
- They provide a lot of drainage in the event of a large downpour.
- Large reservoir of water reduces need for frequent watering.
- Evaporation reduced to a minimum with thick mulching.
- Harder for weeds to establish as the mulch covered surface is drier.
- Improve soil life. Nutrient is not lost to the subsoil when the garden bed is watered.
- No salting. No evaporation means no minerals left behind in the soil.
- No permanent stale water, so no mosquito larvae or anaerobic conditions.



Create a comfortable plants environment

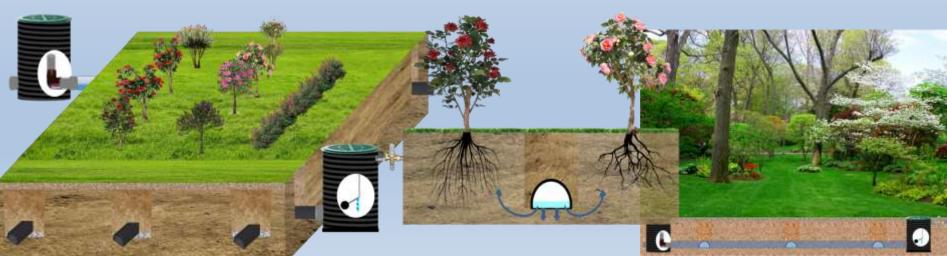
Landscaping & Agriculture

AMPS-Create a comfortable environment for the growth of plants



Advantage :

Reduce 50-85% irrigation water Improve fertilizer efficiency by 40% Reduce irrigation manpower by 60% Soil ventilation Efficient use of irrigation water Create a comfortable growing environment for plants





AMPS-Arched Mesh Pipe Sub-Irrigation and Drainage System Create a comfortable plants environment

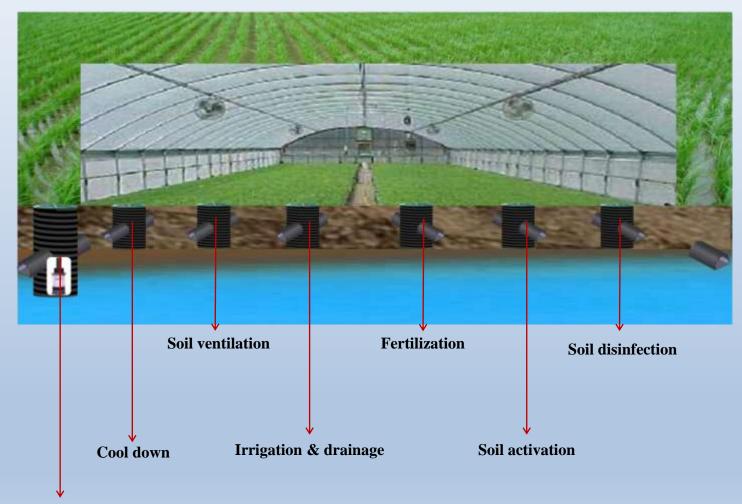
Soil improvement

Improvement of nitrate in facility cultivation





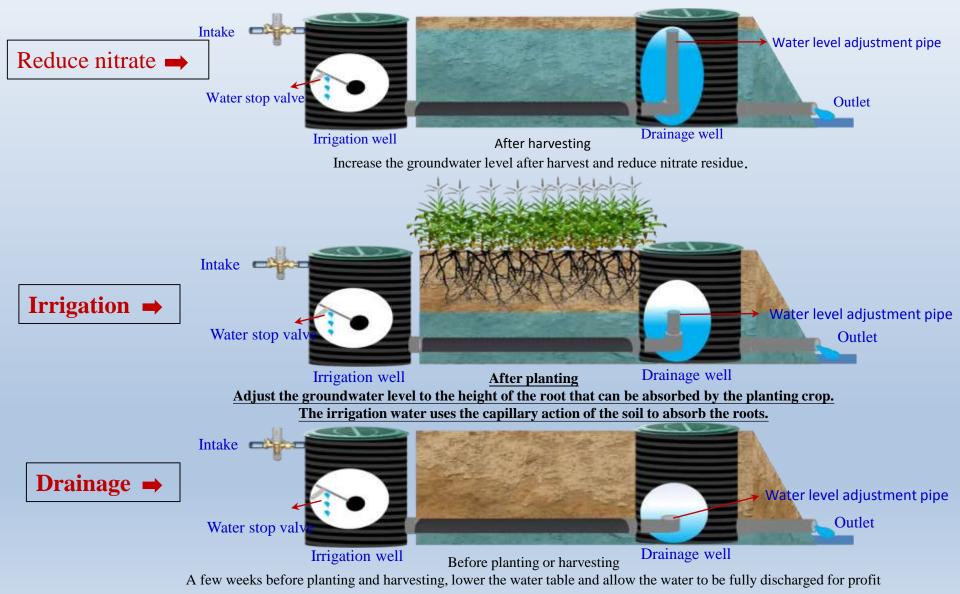
AMPS-Arched Mesh Pipe Sub-Irrigation and Drainage System *Create a comfortable plants environment* AMP-Arched Mesh Pipe-Greenhouse cultivation



Lower the water table level



Create a comfortable plants environment AMPS- Groundwater level control

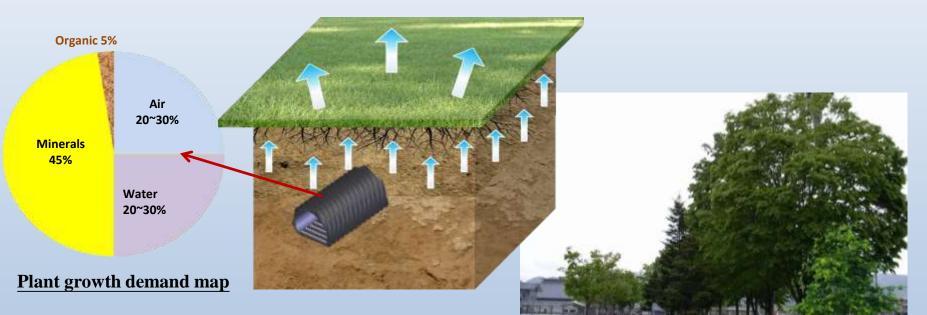




Create a comfortable plants environment

Soil Ventilation

AMP-Arched Mesh Pipe Provides Subsoil Ventilation



Increase production Arched Mesh pipe provides soil ventilation Soil venting has a large impact on plant growth and microbial activity. Any plant has a certain demand for air in the soil during the growing season.

Soil Ventilation

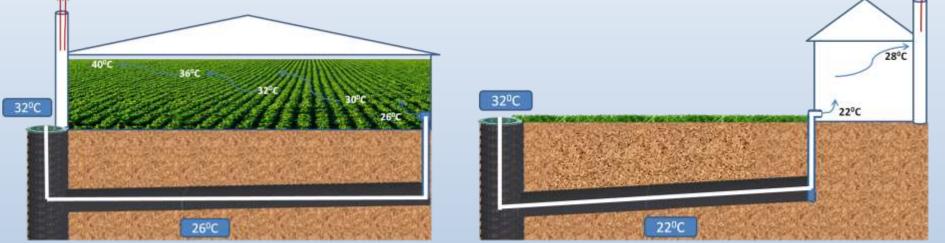
The same period of planted beech, after 10years, The size of the trees showing amazing difference.



Create a comfortable plants environment

Surface cooling-Slow down the heat island effect

The underground irrigation and drainage system of theAMP- Arched Mesh Pipe has the functions of drainage, water retention, irrigation, etc., and can also adjust the microclimate. The ambient temperature can be circulated in the infiltration network pipe to finely adjust the surface temperature and the indoor temperature.



Greenhouse cooling

Indoor cooling



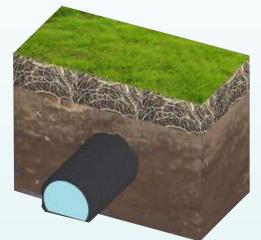
Surface cooling



Create a comfortable plants environment

AMP-Arched Mesh Pipe- underground irrigation experiment for lawns





Water diffuses into the soil by capillary action

The underground AMP-*Arched Mesh Pipe* provided drainage, irrigation, and ventilation allowing the lawn to thrive.



Create a comfortable environment for the growth of plants

AMP-Arched Mesh Pipe- Underground irrigation experiment for potatoes

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AMP-Arched Mesh Pipe

Experiment are

The number of potatoes in the experimental area with the AMP-Arched Mesh Pipe was double the one the number in the control area without the Arched Mesh Pipe. The potatoes from the experimental area were better in quality and had less skin disease than those from the control area without the AMP-Arched Mesh Pipe. The market price of the former was twice that of the latter.





Create a comfortable plants environment

AMP-Arched Mesh Pipe- Underground irrigation experiment for vegetable

Leafy vegetables

Water and liquid fertilizer inlet

The liquid fertilizer penetrates through the AMP-Arched Mesh Pipe, the soil is ventilated, and the roots of the plant are well absorbed. The next day, the color change of the leaf surface can be known.

AMP-Arched Mesh Pipe





Cucumber experiment results

Summer is equal to winter production.

The cucumber shape has grown significantly.

Growth period increase.









10

ECO-MESH

THE PARTY











Martin Grand





AMP-Arched Mesh Pipe Water Saving Irrigation

Conclusion

Save more than 50% of water Increased production: 50% increase in potato experiment Reduce fertilizer use: use soluble fertilizers Ventilation: Plants grow healthy and fast, good quality Drainage: discharges soil with saturated water High efficiency: use automatic irrigation control system

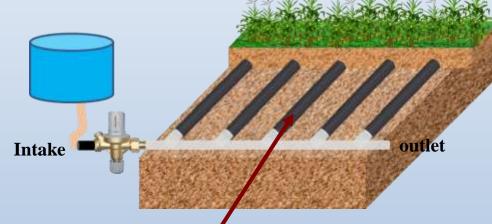


Create a comfortable environment for the growth of plants

AMP-Arched Mesh Pipe description

The AMP-Arched Mesh Pipe does not need to use gravel, grading, nonwoven fabrics, etc.

The AMP-Arched Mesh Pipe is not blocked, and the ecological engineering method is the best underground collection and drainage material.



AMP-Arched Mesh Pipe

