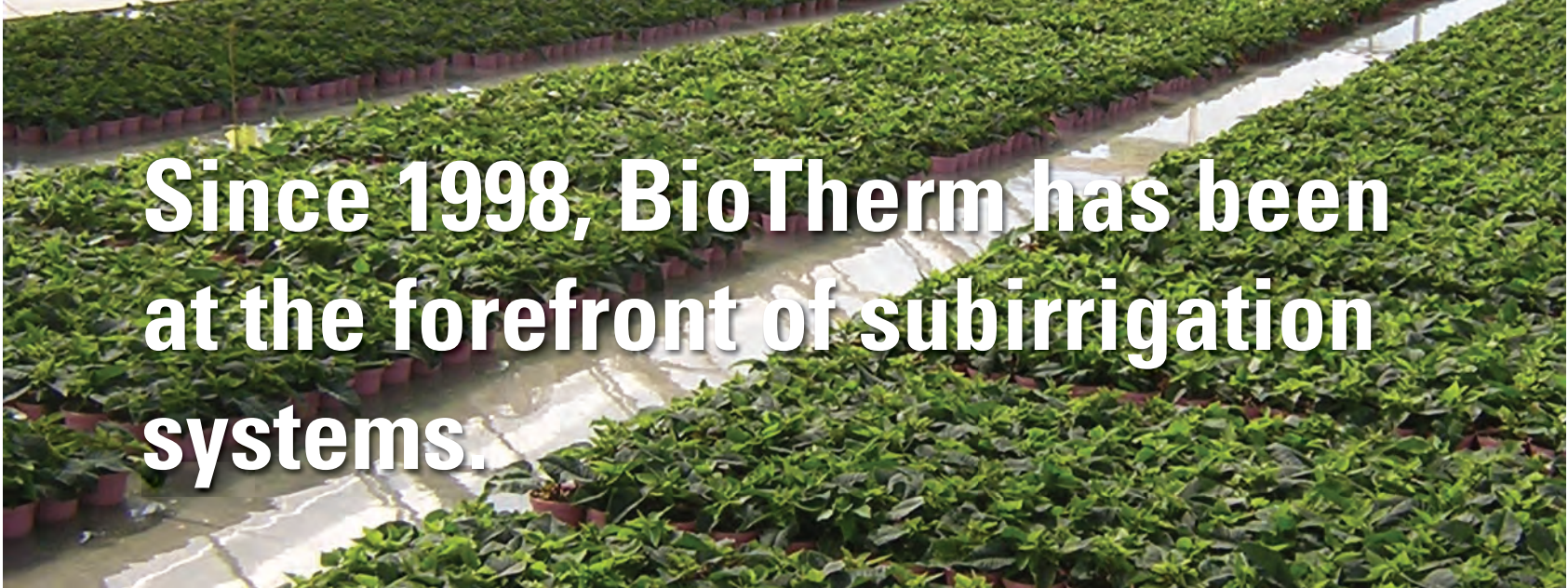


The BioTherm logo features a stylized 'B' composed of three colored dots (red, blue, and green) followed by the word 'ioTherm' in a white, sans-serif font. The entire logo is set against a black rectangular background.

BioTherm®

**INNOVATIVE
IRRIGATION SYSTEMS
FOR GREENHOUSES**



Since 1998, BioTherm has been at the forefront of subirrigation systems.

Ebb-and-Flood vs. Watering from Above

WATER APPLIED	To bottom of container	To top of potting media
WATER UPTAKE	By capillary action	By percolation
WATER MOVEMENT	Up only	Down first, up after watering
LEACHING	None, may lead to salt accumulation when over fertilizing	Excess water leaches. Wasteful, but can be used to manage salt content
DISEASE TRANSFER THROUGH WATERING	Possible, but rare	Through splash



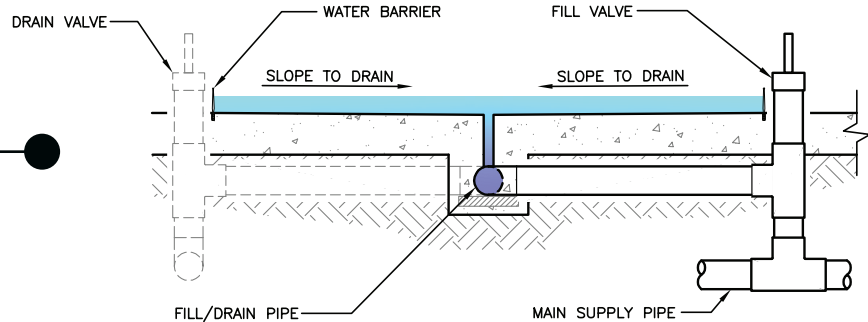
Our innovative technology provides a quick responding irrigation cycle time which is critical to greater control of nutrient uptake, timing and prevents oversoaking. Our Flood Floor and Cascade Floor systems save water, energy, fertilizer and reduce labor costs by up to 95%.

Flood Floor



- **Cross Section:** "V" or "W" pattern.
- **Flow Pattern:** common fill and drain pipe located along floor valleys.
- **Watering Cycle:** floor fills, floor drains then water is available for use in next zone.
- **Cycle Time:** 6-10 minutes (minimum).
- **Material:** precision installed structural concrete.
- **Containment:** flexible rubber barrier surrounding floor perimeter which allows for ample employee and cart access.

Flood Floor
Cross Section

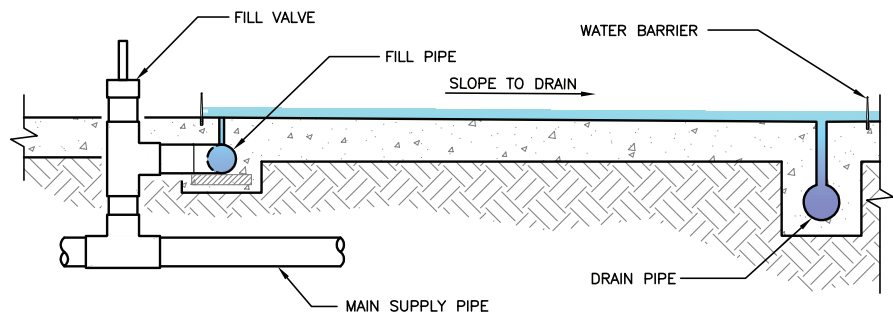


Cascade Floor



- **Cross Section:** unidirectional slope.
- **Flow Pattern:** independent fill pipe flowing to common drain pipe located at valley between two floors.
- **Watering Cycle:** floor fills and drains simultaneously which makes water immediately available for same cycle use.
- **Cycle Time:** only what you need (5-6 minutes typical).
- **Material:** precision installed structural concrete.
- **Containment:** flexible rubber barrier surrounding floor perimeter which allows for ample employee and cart access.

Cascade Floor
Cross Section



0:05



0:25

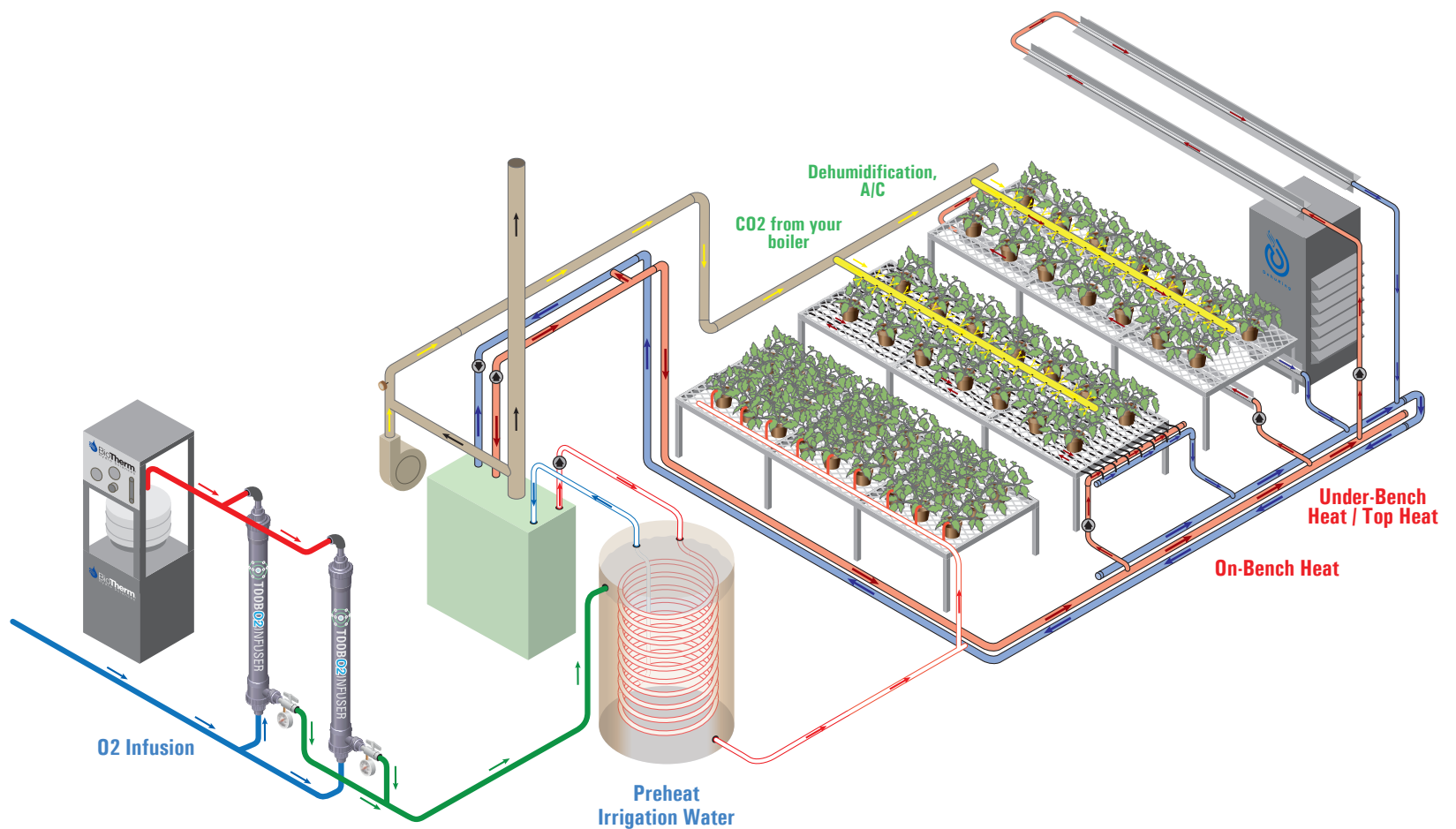


0:45



BioTherm®

Elements...Enhanced.



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