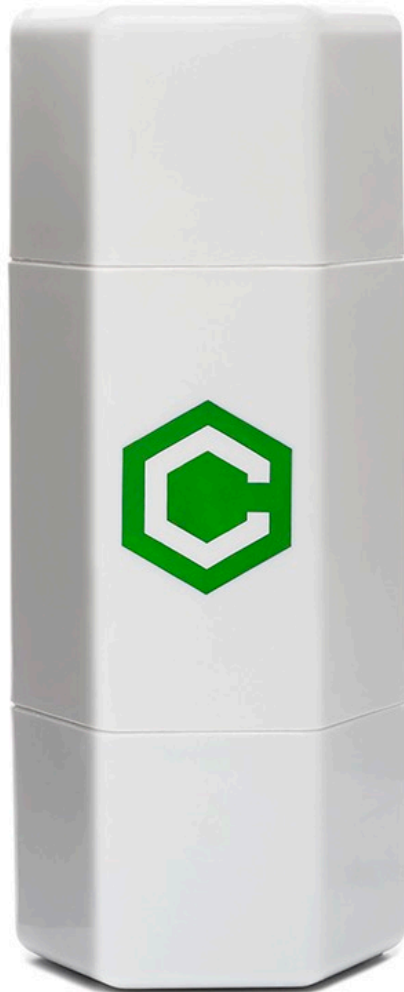


CLAIRIFY gro

Give your plants the water they like.



Claire Technologies



COMPONENT



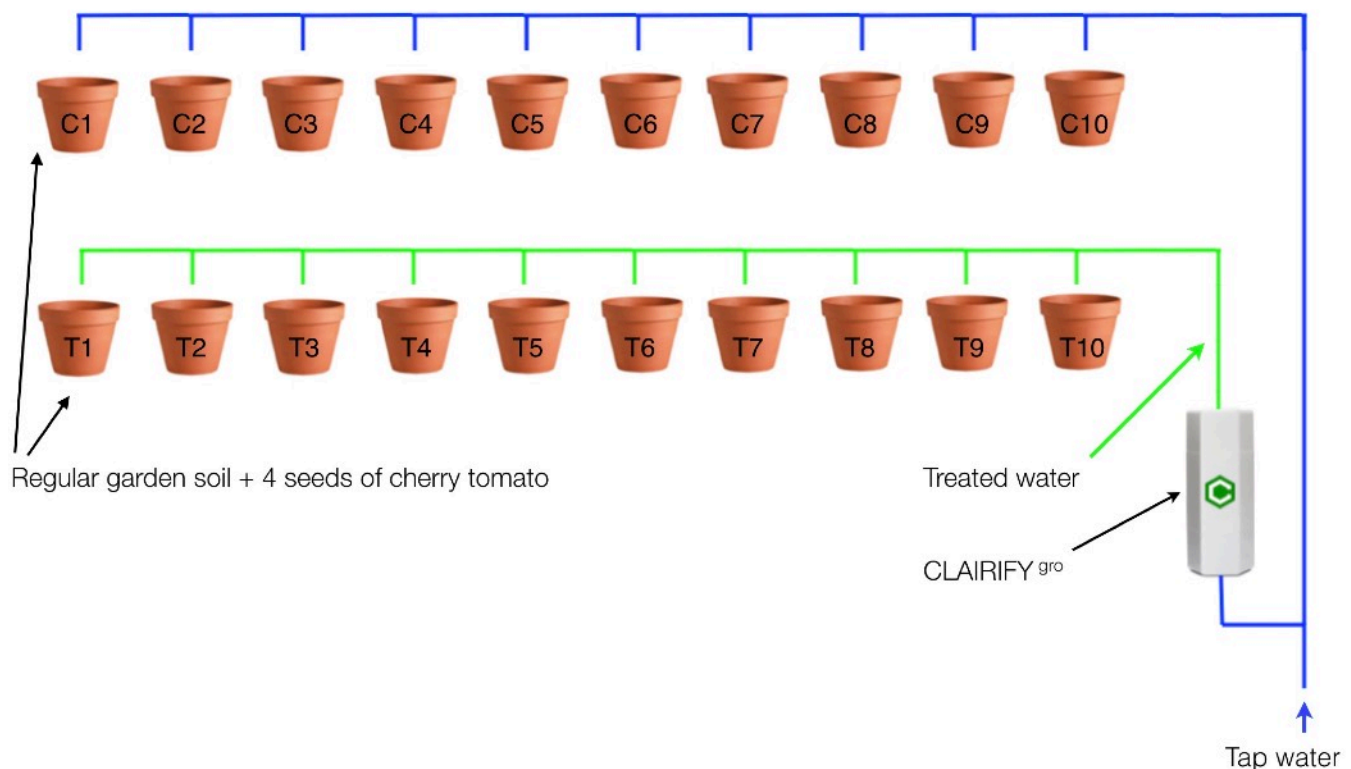
CLAIRIFY^{gro} was made specifically for irrigation in controlled greenhouse settings. The unit uses similar technology to Quantum Disinfection™ but engineered specifically for irrigation water.

CLAIRIFY^{gro} works by reducing unhealthy contaminants in a greenhouse or irrigation water supply. These contaminants such as chlorides, chlorine, fluoride or bacteria can interfere with the water uptake and inhibit plant growth.

Another vital component of the CLAIRIFY^{gro} unit, in addition to bacteria protection is the pH balance. The theory is that by attracting unpaired electrons in the water through a catalytic surface mechanism, the water is able to balance hydrogen ions (H⁺) and the hydroxide ion (OH⁻) and maintain pH balance.

Case Study #3: North Carolina State University Study on F1 Big Beef Tomatoes

In collaboration with North Carolina State University, Claire installed a protocol at a controlled greenhouse on campus. The study evaluated the growth of big beef F1 tomato plants (*Lycopersicon esculentum*) irrigated with both regular city water (C Group) and water through the CLAIRIFY^{gro} system (T Group).





Parameter	Control (C1)	Claire Treatment (T1)
pH	7.4	7.1
Fluoride (ppm)	0.68	0.1
Chlorine (ppm)	1.01	0.1
Chloride (ppm)	15.3	7.3
Phosphate (ppm)	ND	ND
Nitrate (ppm)	0.9	0.2
Suspended Solids (ppm)	ND	ND
Light cycle	same	same
Potting Soil	same	same



CLAIRIFY^{gro} has been used in numerous growing trials across a variety of crops, however the results show consistency in growth increase, flowering and fruit. The average growth increase across studies is 27% better using the CLAIRIFY^{gro} system. The average flowering increase time is 32% faster using the CLAIRIFY^{gro} system.

The CLAIRIFY^{gro} unit was designed for the easiest use possible. For greenhouse operators or irrigation technicians, the unit is simple installed inline, just before the irrigation head. Rated life is 140,000 gallons, or a full year. A true plug-n-play system, the CLAIRIFY^{gro} unit delivers healthy, balanced, bacteria free water to your plants.



CLAIRIFY^{gro} has been shown to increase growth by 27%

140k

The CLAIRIFY^{gro} system is rated for 140,000 gallons



CLAIRIFY^{gro} reduces contaminants like fluoride and nitrates



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