



Case Study

Customer: AACAL, Amarillo ISD
Amarillo, TX



US Case Study

Category: Agricultural

Application: Greenhouse Systems



Plants with deposits prior to installation



Deposit free plants following installation

The Challenge: The Amarillo Area Center for Advanced Learning needed a solution for the hard water scaling issues they were experiencing in their greenhouse. The cool cell filter for the greenhouse's cooling system had to be replaced every two weeks, the mist heads in the propagation tent required cleaning every few days and salt deposits were apparent on the plant cuttings. These issues impacted results and incurred costs for replacement parts and labor.

The Solution: On July 12, 2012, a ¾" Scaleton was installed in the greenhouse.

Results: The installation has been a great success with the customer noticing improvements within days. Cool cell filter life has been extended greatly and the mist heads have not required cleaning following an initial clean following the installation of the Scaleton.

A full testimonial detailing results and photos appear later in this case study.



Dealer Feedback:

Annette Gruben

(Northwest Texas Regional Manager – FDNA):

I just came back from the greenhouse over at AACAL! The pictures are incredible and the testimony of Sheila, the lady who keeps the greenhouse, is amazing.

First of all, the excitement that she has for the product is wonderful. She is seeing a tremendous improvement in her plants and using half as much fertilizer. She takes watering cans of water into the building and waters the indoor plants and everyone in the school is seeing a remarkable improvement in the indoor plants. It has totally cleaned the cooler pads.

There is no way I can relay her enthusiasm about her “new” greenhouse. The whole appearance of the greenhouse has changed, it is cleaner and doesn’t “feel” dirty and grungy!

She gave me a name of the person who is working at Carver Academy in their greenhouse. It is a foundation called Friends of Carver Academy; they take care of the plants at the school and are not affiliated with the school district.

Funny thing: when they first got our equipment her boss said, “Hopefully, this is not snake oil”! She now affectionately refers to “her” water as “snake water”! She kept saying snake water and finally I ask what the heck she was talking about, she then told me the story!! Fun lady!!



Evaporative cooling pad on June 25th, 2012



Evaporative cooling pad on September 19th, 2012

Sheila Brumley’s official testimonial follows...





AMARILLO INDEPENDENT SCHOOL DISTRICT

Plant Maintenance and Facility Construction

905 East Street

Amarillo TX 79107

October 16, 2012

I am the greenhouse grower at AACAL, (Amarillo Area Center for Advanced Learning).

On July 12, 2012, a ¾" Scaleton was installed in the greenhouse. We needed a solution to the problem our water was causing with our cooling system. The cool cell filter had to be replaced every two weeks or less. The cool cell trough was so corroded it leaked forming "salt-sickles" down from the trough and up from the floor. The mist heads in the propagation tent would clog within days of cleaning and there was a "salt glaze" on the cuttings.

A few days after installation, I noticed how clear the water was. When the water hit the soil it was as if a surfactant was added. After a few more days the water pressure had increased. I used a few cool cell filters quickly as there were half inch chunks of scale coming from the water line and cool cell. I cleaned the propagation tent mist heads after installation. I have not had to clean them again. It appears cool cell filters will last a few months as opposed to two weeks. The water has dissolved the salt on the floor and hanging from the cool cell trough.

I was surprised how quickly the plants began to be affected by the water. The color and growth is so much better. The plants do not require as much water. I am using half the fertilizer I was before. A buildup on the soil, pots or drainage holes is gone.

Sheila Brumley
Amarillo Independent School District
