



Controlling atmospheres in fruit and vegetables for the past 39 years has been the core mission of Storage Control Systems that led to the creation of a dedicated company for growing indoors. Grow Controlled, LLC was formed by Jim in 2016, implementing the known technologies of SCS into a defined focus of growing in the perfect environment. GC has the advantage of SCS's years of experience in this parallel industry.

At the Sparta Michigan headquarters, SCS and GC have laboratory facilities for pre- and post-harvest experiments. Jim finds R&D vital to the growth of his companies. Currently, GC operates 4 small scale rooms testing light types, light cycles, CO2 PPM, and even reduced oxygen levels in flower, which is proving very beneficial. Grow Controlled LLC sets itself apart by offering gastight rooms and doors, precise instrumentation, and cooling coils with reheat that dehumidify the grow room or greenhouse. These room coils use cold and warm HTC secondary fluid loops that are continually modulating to create the grower's dream conditions.

As SCS and GC evolves, this computerized control is a high priority for both companies. Today, we have in house PLC programmers, design staff, as well as electrical and mechanical engineers to help make our companies as encompassing as possible. Our Kilowatch Energy Management System controls millions of bushels of apple fruit around the world, but now controls grow cycles under the Grow Controlled company. With our attention to the customer's requests, we can work in detailed and custom requests almost immediately. Our cloud dashboard can auto-schedule events such as Temp and RH bi-weekly changes for the grower. Temperatures from 80-45F are achievable as well as RH from 75-45% which make for an assured growing environment that is totally under automatic and remote control.

### **FAMILIAR FACES FOR YOUR UPCOMING PROJECT**



**Jim Schaefer** is the president and sole owner of Storage Control Systems, Inc. located in Sparta, Michigan and owner of Storage Control Systems, Ltd, in Paddock Wood, Kent UK. His father Caryl started SCS in 1982, and Jim began working there as a senior in high school. After receiving his BS degree in computer information systems, he returned and now has grown SCS to an international company with four offices and distributors around the world.

The future is here every day at Jim's companies. We keep pushing science and technology, and we thrive with an innovative and resourceful spirit.



**Mike Laraway** has been a part of the design and innovation team for over 18 years. As the architect of the Kilowatch control platform he obsesses over precise control and energy reduction. Mike is constantly incorporating new technology. He is not satisfied with simply meeting the industry standard, and the energy efficiency dollars that his projects have been awarded reflect that. Going above-and-beyond is what separates him and his team of controls engineers from other controls companies.

Mike's areas of expertise include electrical controls design, refrigeration design and controls, system integrations, sensor design and technology, and project management.



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