

MODEL A2192B

Chamber Enhancer™

Full-range staging — simultaneous but independent control of LOW and HIGH outputs.

Adjustable debang in increments of cycle time for all modes.

Compressor bypass output for Staged Cool.

Adjustable compressor timeout.

Dehumidification compressor switch-selectable.

Eight socketed locations accept plug-in type solid-state relays (SSR) for control and staging outputs.

The higher heating and cooling that fast rate-of-change specifications require make staging (boosting) of heat and cool capacities essential. Conventional staging approaches, such as using time-delay relays, escalate energy costs without providing effective control and utilization of either the low- or high-level capacities.

JC Systems has developed a new microprocessor-controlled system that provides precise staging control without the higher energy consumption other approaches need. The Model A2192B Chamber Enhancer provides full-range, bumpless sequential staging. It enables you to effectively apply the full range of staged system heating and cooling combinations available with your equipment.

The Chamber Enhancer's microprocessor uses a sophisticated algorithm to

translate the controller's time-proportioning outputs into signals that accurately regulate the full range of LOW and HIGH heating or cooling capabilities. As a result, you can achieve the desired chamber temperature quickly, yet with the lowest possible energy consumption.

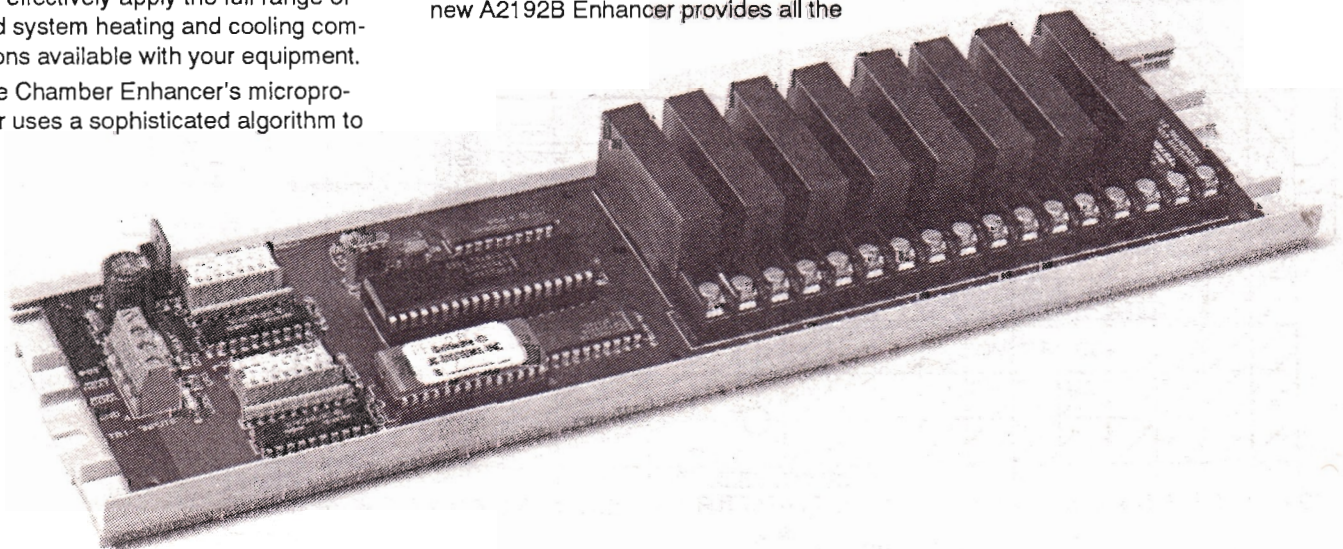
With the enhancer, the LOW capacity is always fully utilized before HIGH capacity is enabled, so even a system with marginal LOW capacity can be used effectively in a staged application.

Increased capabilities

JC Systems has increased the board's capabilities to make life a lot easier. The new A2192B Enhancer provides all the

relay mounting positions and terminating points for precise control of staged heat and cool, as well as one-board control of non-staged humidity.

The new version incorporates firmware that offers separately selectable, non-staged heat and cool operation with full debang and compressor bypass capabilities. This new mode capability responds to customer requests for a unit that would provide non-staged systems with all the desirable features of the Model 2192 — convenient relay board, compressor control and debang capabilities.



JC Systems' Model A2192B Chamber Enhancer (shown with optional plug-in SSRs installed) deals specifically with chamber staging, leaving your controller free to perform its normal functions at peak efficiency.