KIC® Auto F☾CUS™

LEAD FREE CAPABLE™

Initial Oven Set Up Software

WITHOUT
Auto-Focus

WITH!
Auto-Focus
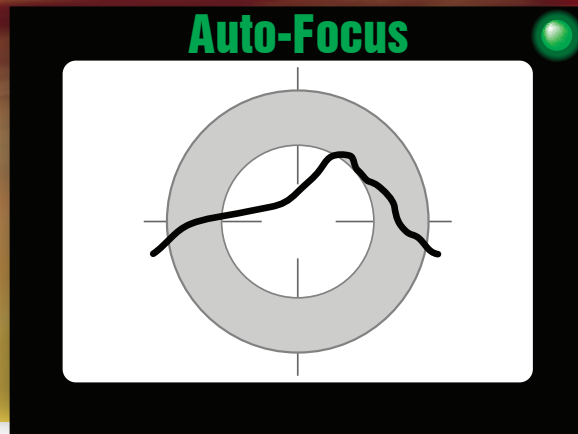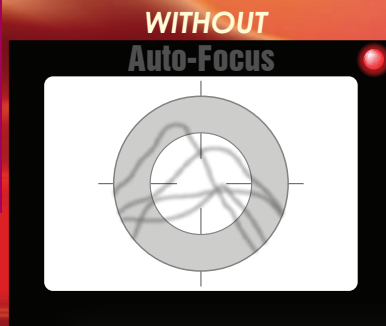
KIC Can Auto-Focus Your Initial Product Set Up

The KIC Auto-Focus™ is a computer simulation software option available for the KIC 2000 product platform This option eliminates the need to "guess" at an initial oven recipe, and instead calculates the ideal oven recipe. Auto-Focus allows you to avoid conventional oven set up pitfalls and points you in the right direction every time.

Conventional Set Up is Not Exact

Setting up a conveyorized oven means determining conveyor speed and zone temperature settings that will produce a thermal profile within your product's process window. The ability to select a "first guess" oven recipe that yields an adequate thermal profile is exponentially difficult, let alone a recipe that provides an optimal profile. Even for experienced process engineers, there are literally billions of possible recipe set up combinations from which to choose. Conventional oven set up involves selecting a starting recipe, running a verification profile using a *Golden Board* and analyzing the results of the actual thermal profile as compared to the process window. Typically, the initial profile is not in-spec, requiring manual adjustments to the recipe and repeating the entire verification process until an acceptable set up is found. Conventional oven set up is imprecise.

Conventional Set Up is Costly

Correctly "guessing" the first oven recipe is serious business. The initial profile may be so far outside the process window that it damages the golden board. Companies that manufacture expensive parts may not be able to sacrifice even a single product to profiling. Productivity is another costly problem inherent to conventional set up. An unsuccessfully selected initial set up results in excessive production down-time while running repeated verification profiles, searching for an adequate oven recipe. This is especially true of companies that manufacture a very high mix of product, or who are constantly setting up the oven for new boards. Conventional oven set up cuts into your profits.

Innovative Clarity

The KIC Auto-Focus eliminates the "first guess" shortcomings of conventional set up. Providing a few, simple criteria about your product that even an entry-level operator can understand, Auto-Focus suggests an initial oven recipe, quickly directing you to an in-spec first set up. With each different product profiled by the KIC solution, the Auto-Focus option gets smarter. As Auto-Focus learns it becomes more precise, often suggesting an acceptable – or even optimized – recipe the *FIRST TIME*.

The more you use Auto-Focus, the more clear it becomes — you may never need to run verification profiles again!

KIC ON BOARD

KIC® *Innovation That Works™*

KIC AUTO-FOCUS

Measure length, width and weight of product:

Product Name: AR31

25   Enter Product Length (cm)

12   Enter Product Width (cm)

225   Enter Product Weight (grams)

The KIC Auto-Focus is simple, fast and easy to use, requiring minimal input or technical experience. Once the necessary criteria are provided, Auto-Focus goes to work and in seconds you are presented a suggested initial oven set up. The recipe is ranked using the Process Window Index™ (PWI™), so you immediately know where it falls within your process specifications.

KIC's Auto-Focus solution utilizes and includes the KIC® Navigator™ software option. *Please refer to the KIC Navigator data sheet for complete details and specifications for this option.*

Auto-Focus expands the power and capabilities of your SlimKIC® 2000™ Thermal Profiler. *Please refer to the SlimKIC 2000 data sheet for complete details and specifications.*
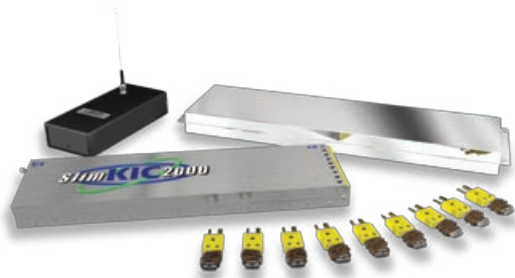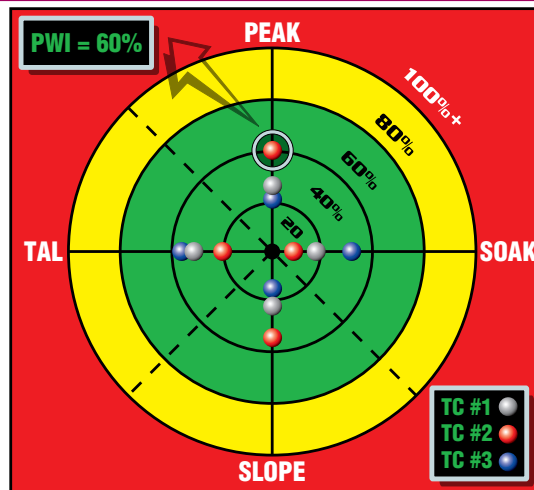

Note: KIC 2000 products can interface directly with the oven controller, eliminating the need for manual setpoint data entry. Please consult your oven supplier for availability.

THE PROCESS WINDOW INDEX™

Profiling Reduced to a Single Number

For precise ranking of profile performance, the Auto-Focus uses the Process Window Index (PWI). The PWI calculates how much of the available process window is used by a given profile in relation to its process specifications. Therefore, the lower the PWI, the more efficient and stable the process! *(See the PWI data sheet for a detailed explanation)*

COMPUTER CONFIGURATION

Minimum System Requirements

- 400 MHz Processor, Celeron / 128 Mb RAM[1]
- 1 Gb available storage (for product history)
- Video 1024 x 768 resolution / 16-bit
- 1 available serial port or USB port
- 1 available parallel port or USB port for software key options
- Microsoft® Windows® 2000 or XP[2]

1 When *KIC 2000 Software* is running on the same computer as the Oven software, and/or when additional *KIC 2000 Software* options are installed, a faster CPU and more RAM may be required.

2 Contact KIC for issues with operating systems other than those listed.

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RISK-FREE GUARANTEE

All KIC products are designed to give maximum value and fast payback by streamlining your thermal process. Investment in a KIC product is a step toward total process control and quality management. All KIC products come with a no questions asked, 30-day money back guarantee.

Innovation That Works™