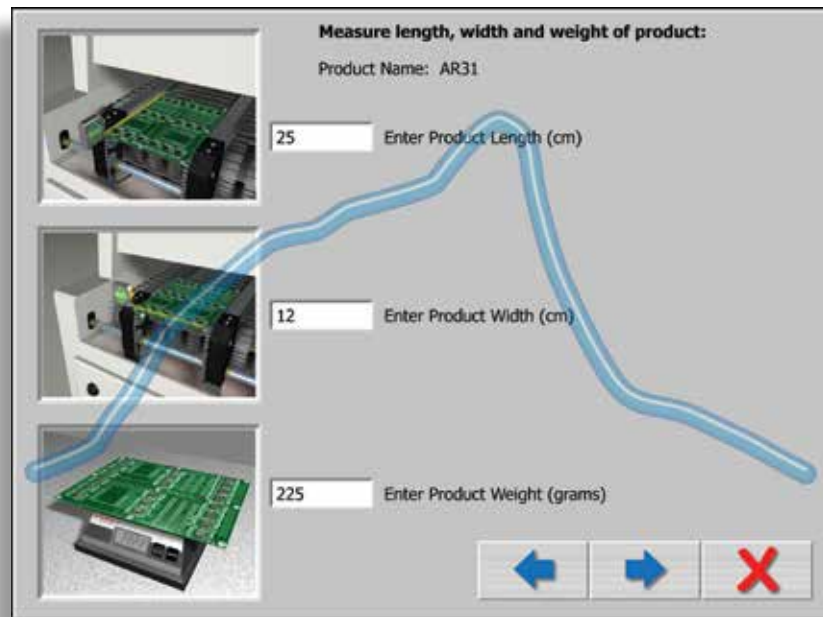


## Thermal Process Optimization for Reflow Ovens



### Auto-Focus Power Advantages

- No Sacrificed Profiling Boards
- Quick Production Start Up
- New Recipe Suggestion Without Running a Profile
- Reduced Oven Electricity Use
- Fast New Product Introduction
- 24 Hour Customer Service



### Thermal Process Optimization Software

#### Software Description

- Auto-Focus Power<sup>™</sup> is a 'recipe search engine' with an intelligent database
- Every manual profile will populate the database. The correlations between the oven properties, thermal transfer rate, PCB characteristics and varying process windows enable very accurate oven setup recommendations
- In short time, the database becomes intelligent enough that a recommendation for best oven setup for any new PCB will be generated without the need to run a new profile
- Only input of the new PCB's length, width and weight is required for the software to recommend the best oven recipe

#### Initial Oven Set Up

- A new product requires the selection of an appropriate reflow oven recipe. Manual profiling will help identify the correct setup, but to select the initial recipe requires an educated guess
- A poorly selected initial recipe runs the risk of:
  1. Damaging the product
  2. Requiring numerous profile runs before identifying the correct recipe
- The Auto-Focus Power<sup>™</sup> recommends the initial setup without running a profile and without the need for the technician's educated guess - within seconds.

#### Optimization Criteria

- Lowest energy use
  - The center of the process window
  - Maximum throughput
  - Fastest oven changeover
- (or a combination of these)

#### Reduced Electricity Consumption

Case studies indicate an instant 15% drop in electricity use in reflow ovens. Where do the savings come from?

- Few reflow ovens are set up with consideration for electricity consumption, so they tend to run hot and fast
- KIC's Auto-Focus Power takes the slack out of the process by optimizing both throughput and heat/energy

#### Ease of Use - Ease of Results

- Process insight and expertise built into the software
- Define the process window and minimum conveyor speed - delegate the rest
- Oven set up tasks may be handled by less experienced personnel - quickly
- Less production downtime

#### Versatile and Low Cost

- Auto-Focus Power<sup>™</sup> works with KIC profilers.
- Works on virtually any reflow oven on the market - old or new
- The ROI tends to be exceptionally high due to the low investment cost combined with big cost savings



**Technical Support**  
**24 Hours Every Day**  
**Everywhere**

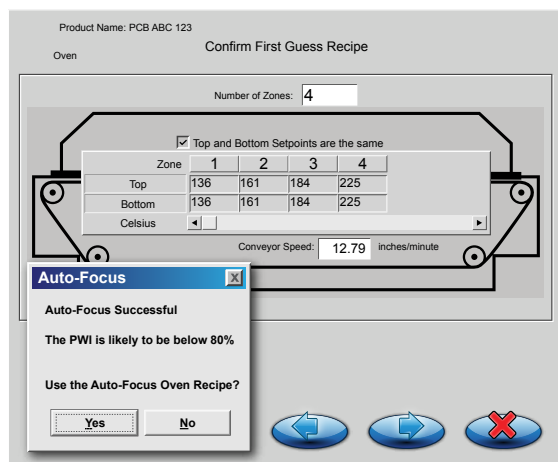
**Risk Free Guarantee**

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.

For more information on any of our products or service please visit us on the Web at: [www.kicthermal.com](http://www.kicthermal.com) or [www.kic.cn](http://www.kic.cn).

**Service Available**

- Technical Support
- Installation and Setup
- Application Support
- Hardware Support
- Guaranteed Warranty



The KIC Auto-Focus and KIC Auto-Focus Power 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.

Auto-Focus Power searches for the oven recipe with the lowest electricity use while positioning the profile in spec.

KIC Auto-Focus includes the KIC® Navigator™ software option. KIC Auto-Focus Power includes the KIC® Navigator™ Power software option. Auto-Focus and Auto-Focus Power expand the capability and potential of the KIC software by automatically optimizing your process set up.

**Note:** *The KIC software may interface directly with some oven controllers, eliminating the need for manual setpoint data entry. Please consult your oven supplier for availability.*

*KIC software is dongle protected.*

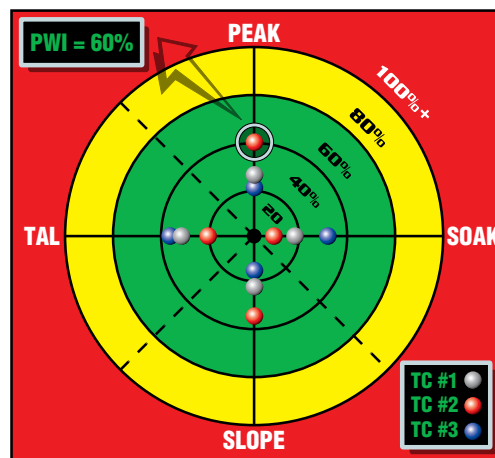
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**THE PROCESS WINDOW INDEX™**



**Profiling Reduced to a Single Number**

The PWI measures the profile's fit to the process window in a mathematical and objective manner by using a single number. This aids in optimizing the process by comparing and ranking alternative profiles in terms of their fit to the available process window. 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**

- Dual Core / 1 GHz Processor PC with 2 GB RAM
- 2 GB available storage
- Video 1024 x 768 resolution / 16-bit
- 1 available USB port (for software key)
- Visit our website at <http://kicthermal.com/support-download/os-compatibility-chart> for product compatibility with Windows operating systems.



When KIC Software is running on a computer with other applications, a faster CPU and more RAM may be required.

