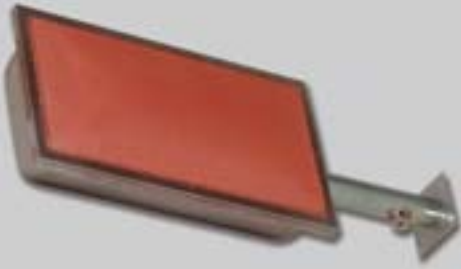


# Solaronics®

**ADVANCED GAS BURNER TECHNOLOGY**

*For Commercial / Residential Appliances  
And Process Heating Applications*





## Make Solaronics burners systems your choice for smart, energy saving performance, reliability and value

### Process Heating Applications For Solaronics Burners Systems

- Curing
- Drying
- Pre-Heating
- Dehydrating
- Cooking
- Evaporating
- Immersion Heating
- Chemical Processes

Solaronics is consistently recognized by industry professionals and the trade press for its high efficiency gas burner technology, ignition systems, gas/air delivery systems and appliance design services. Working closely with appliance manufacturers and process heating equipment customers for over 40 years, the company has helped establish industry standards for product construction and application, performance, operation and safety.

### Pioneering Advanced Gas Burner Technology

Solaronics' advanced gas burner systems embrace both infra-red and blue flame technology. The high efficiency, rapid heat transfer and low pollutant emissions are the reasons Solaronics burners are preferred over conventional gas burners. Solaronics infra-red burners, with their low flame temperatures, have the lowest NOx emissions of any other gas burners available today. Water heaters with this type of burner, for example, produce 85% less NOx than conventional water heaters.

As the OEM supplier of gas burners to the world's largest manufacturers of commercial cooking and heating appliances, Solaronics continues to refine its techniques of manufacturing, product application and design to be responsive to customer needs.

### Appliance Applications For Solaronics Burners Systems

- Barbecues
- Broilers
- Pizza Ovens
- Steak Cookers
- Fireplaces
- Humidifiers
- Convection Ovens
- Griddles
- Hold Ovens
- Fryers
- Dishwashers
- Furnaces
- Ranges
- Boilers
- Hot Water Heaters
- Bake Ovens
- Rotisserie Ovens
- Space Heaters
- Evaporators

**Need high efficiency, low NOx gas burners?  
What about ignition systems, heat controls, prototypes from scratch,  
full tech service and support?**



***We're Solaronics...  
The One-Stop Source  
For Appliance  
Manufacturers And  
Process Heating  
Applications***



*The Solaronics engineering, testing and development laboratory's established quality program complies fully with customers' quality initiatives. Also, the lab is CSA International certified, enabling fast-tracking of customers' projects in-house to assure highest quality and confidentiality.*

### **Solaronics Offers Custom Crafted Solutions**

When you partner with Solaronics, you won't be offered "off-the-shelf" solutions. As a major North American designer and manufacturer, Solaronics products are produced to your specifications, to fit your appliance or equipment. It's no wonder this dedicated effort to customer needs has earned Solaronics the industry's leadership distinction that brought with it thousands of satisfied customers.

Have an idea for an appliance or need to upgrade an existing design? Unsure about using spark ignition or hot surface ignition? Solaronics' research and development professionals are highly skilled at prototype modeling. You can depend on their sophisticated laboratory facilities to wring out every bit of energy saving efficiency and reduced emissions by utilizing burner materials, controls and ignition systems best suited for the application.

### **Need High Quality, High Volume Production? Solaronics Delivers On All Counts!**

With over 70,000 sq. ft. of manufacturing space, Solaronics has the production capacity to meet customers' requirements as well as deliver "just-in-time." Exclusive manufacturing techniques and operations enable the company to provide the most cost-effective solutions.

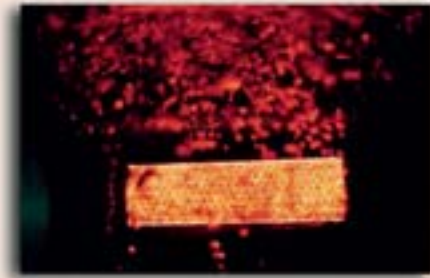
### **Burner Types By Materials**

- Ceramic Plaque Burners
- Wire Mesh Burners
- Ceramic Fiber Burners
- Woven Ceramic Fabric Burners (WCF)
- Metal Fiber Burners
- Metallic Foam Burners

# Solaronics Customers Tell Their Stories

Appliance Case History:

## Infra-Red Technology Offers Dishwashing Solutions



*Gas fired Solaronics woven ceramic fabric burners have low conductivity, resist high temperature and shock.*

When Stero Company of Petaluma, CA, was seeking ways to reduce the energy costs for its extensive line of commercial dishwashers, it called on Solaronics to develop a custom-designed burner that offered fast heat transfer, superior energy efficiency and lower nitrogen oxides emissions.

Drawing on over 40 years of experience developing gas infra-red heating solutions for such a diverse range of appliances as rotisserie ovens, barbecues, broilers, fireplaces and dishwashers, the company eagerly accepted the challenge.

According to Lars Noren, Stero's general manager, "with commercial dishwashers there are two things you're seeking to achieve: render the wear free of visible food soil and then sanitize with chemicals or high temperature."

### Woven Ceramic Fabric

Solaronics' Farshid Ahmady, vice president of research & development, recommended gas infra-red burners composed of woven ceramic fabric (WCF) because of their low conductivity and high temperature resistance. In addition, low flame temperatures would result in lower emissions than conventional flame burners. The company also worked with Stero to identify an appropriate ignition system.

"These (gas heated dishwashers) were revolutionary since the thermal efficiency was so high," says Noren. "For the first time we really had a marketable product that could show a sizeable utility savings back to key customers that used or had high electrical rates."

The design of heating elements requires a vast knowledge of applications, claims Solaronics' Ahmady. The appliance OEM is receptive to suppliers that not only design and manufacture heating elements, but also have the expertise of applying these elements to their specific product applications.

*Adapted from Appliance magazine, Oct. 2001*

With more product and service solutions than anyone in the business, Solaronics can help you improve energy efficiency, product reliability, operation and safety.

**Solaronics, Inc.** *Advanced Gas Burner Technology  
For Appliances And Process Heating*

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Printed in U.S.A. (PH) Corp. Bro.

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