

## Application**brief**

*Eclipse Product:* Indirect Air Heater  
*Submitted by:* Tom Heidenreich, SMA Systems  
*Application:* Indirect Fired Oven  
*Description:*

HiTech Systems is a Japanese owned company that has a preference toward using Indirect Air Heating for many of their oven designs. They were looking for a turn-key supplier to handle their combustion equipment and heat exchanger needs. Enter Eclipse and Exothermics. The customer provided the application parameters. Heat calculation recommendations were done by SMA Systems with verification by both Industrial Burner Systems (Ron Leon) and Eclipse (Al Benz). The customer's past experience with Heat Exchangers has been "problematic" at best. They tried to keep the temperatures as low as possible to avoid weld breakage and other problems attributed to a "lesser" quality Heat Exchanger. The use of a Vortex Damper on the RatioMatic prevents the burner from being fired higher than recommended and prevents over-firing. The result....LONG LIFE....we expect.

*Equipment Supplied:*

- (2) RHT 300 Packages (Heat Exchangers, Pipe Train, RM200)
- (2) Veri-Flames
- (2) DC2300 Hi Limits
- (2) DC2300 Temperature Controllers



*RHT 300 Packaged Indirect Air Heater*

