

## Application**brief**

*Eclipse Product:* ThermJet Burners  
*Submitted by:* Dan Cox – Dan Cox & Assoc. (Carrollton, TX)  
*Application:* Art Glass Kiln  
*Description:*



*Art Glass Kiln at Bowman Hot Glass*



*Control Panel*

### **Customer information**

Jim Bowman has been developing his expressions in glass for over 22 years. Bowman has developed his artistic vision in many aspects of glass working, including architectural leaded glass, etched glass, kiln-worked glass, glass blowing and casting, and glass and mixed media sculpture. He has done many commissioned projects for public spaces, corporate environments, and residential installations, and also produced a large body of autonomous works in mixed media sculpture and blown glass vessels.

### **Customer's needs and expectations.**

The artist required a reliable burner and flame safeguard system that meets local codes, or re-light reliably when no attendant is present.

### **Application Solution**

We selected the Eclipse TJ040 high-velocity burner with block and holder option. The Eclipse Rotary Actuator gives visual indication of the firing rate required to maintain the proper temperature. The UDC3300 controller has ramp and soak capabilities so the operator can ramp the furnace during the critical charging stage.

### **Customer benefits:**

- Highly efficient burner provides lower fuel bills.
- Actuator provides quick visual to determine firing rate of burner while providing precision temperature control.
- Flame Relay with UV scanner provides constant monitoring of the flame and reliable lighting and re-lighting after power or limit interruption.
- Automated temperature control provides ramping during kiln charging.
- Valve train meets all local codes, including visual indication and proof of closure before trial for ignition sequence.

- Eclipse TJ040HBHNNX
- KDI Valve Train, NFPA
- Eclipse Rotary Actuator
- Honeywell UDC3300 Temperature Control
- Honeywell DC2300 High Limit
- Eclipse VeriFlame Relay and UV Scanner



*Valve Train and Burner*

