

*Arrow Springs*  
**Model ASC/6 Temperature Controller**  
**Mobile Glassblowing Studios**

**Pre-Loaded Programs**

**Program 1: Lampwork annealing for soft glasses**

Step 1: Ramp Rate Full, Temperature 960° F (516° C), Hold Time 12 hours  
Step 2: Ramp Rate Full, Temperature 960° F (516° C), Hold Time 30 minutes  
Step 3: Ramp Rate 400° F (222° C), Temperature 400° F (204° C), Hold Time none  
End

**Program 2: Lampwork batch annealing for soft glasses**

Step 1: Ramp Rate 900° F (500° C), Temperature 960° F (516° C), Hold Time 12 hours  
Step 2: Ramp Rate Full, Temperature 960° F (516° C), Hold Time 30 minutes  
Step 3: Ramp Rate 400° F (222° C), Temperature 400° F (204° C), Hold Time none  
End

**Program 3: Lampwork annealing for borosilicate hard glasses**

Step 1: Ramp Rate Full, Temperature 1050° F (566° C), Hold Time 12 hours  
Step 2: Ramp Rate Full, Temperature 1050° F (566° C), Hold Time 30 minutes  
Step 3: Ramp Rate 400° F (222° C), Temperature 400° F (204° C), Hold Time none  
End

**Program 4: Jewelry scale fusing for soft glasses**

Step 1: Ramp Rate 1000° F (556° C), Temperature 1000° F (538° C), Hold Time none  
Step 2: Ramp Rate Full, Temperature 1500° F (816° C), Hold Time 30 minutes  
Step 3: Ramp Rate Full, Temperature 960° F (516° C), Hold Time 30 minutes  
Step 4: Ramp Rate 400° F (222° C), Temperature 400° F (204° C), Hold Time none  
End

**Program 5: Mobile Glassblowing Studios Annealing Oven**

Step 1: Ramp Rate Full, Temperature 917° F (492° C), Hold Time 16 hours  
Step 2: Ramp Rate Full, Temperature 917° F (492° C), Hold Time 1 hour  
Step 3: Ramp Rate 70° F (39° C), Temperature 775° F (413° C), Hold Time 10 minutes  
Step 4: Ramp Rate 150° F (83° C), Temperature 600° F (315° C), Hold Time 10 minutes  
Step 5: Ramp Rate 150° F (83° C), Temperature 225° F (107° C), Hold Time none  
End

**Program 6: Mobile Glassblowing Studios Cat-60 Continuous Annealing Tube**

Step 1: Ramp Rate Full, Temperature 1100° F (593° C), Hold Time Indefinite  
End

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# Quick Start Guide

**To start the LAST program from the IDLE / temperature prompt,** press the left button. The display will show USER. Press the right button to show the last program used. After a moment, the controller will automatically review the program on the display then show STRT. You can bypass the review by pressing the left button before the review starts or during the review, the display will show STRT. Press the left button again and the display will show DELA for a delayed start. To enter a Delayed Start, use the center Increase button and right Decrease button to enter time in hours and minutes. To ignore the DELA, Delayed Start option, do not enter a time. Press the left button again and the display will show ON for several seconds, then the program will start.

**To start ANY program from the IDLE / temperature prompt,** press the left button. The display will show USER. Press the left button again to show the last program used. Using the center Increase button and right Decrease button, make the display show the program number you want to run. Press the left button repeatedly to review the program. When a Ramp Rate (RA#) shows a rate of 0, the program has been fully reviewed. Any time during review, the program can be modified using the center Increase and right Decrease buttons. Press the left button and the display will show STRT. Press the left button again and the display will show DELA for a delayed start. To enter a Delayed Start, use the center Increase button and right Decrease button to enter time in hours and minutes. To ignore the DELA, Delayed Start option, do not enter a time. Press the left button again and the display will show ON for several seconds, then the program will start.

**Note:** The display will show temperature during a Ramp and alternate between temperature and time remaining for the Hold during a Hold. When the program is complete, the display will show CPLT, the total length of time the program ran and the current temperature. You can abort a running program by pressing the left button anytime during a running program. The program will stop before its completion and the display will alternate between showing ABRT, the total length of time the program ran and the current temperature. Press the left button to clear the CPLT or ABRT notification and return to showing IDLE / temperature.