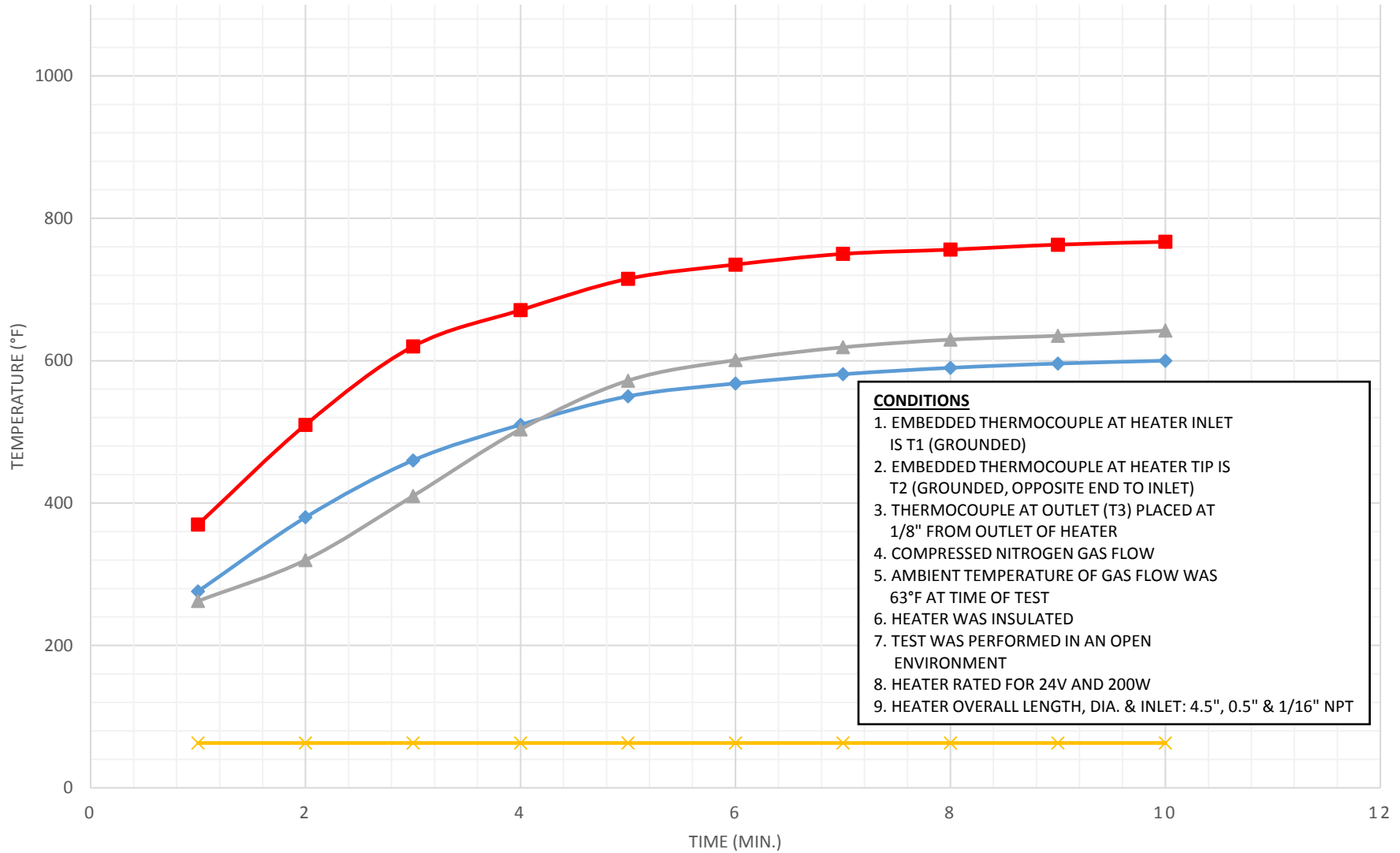


# MINI CLEAN FLOW HEATER WITH INSULATION

TEMPERATURE VS TIME FOR A FLOW OF 11.4 L/MIN

—◆— T1 (INLET)    —■— T2 (TIP)    —▲— T3 (OUTLET)    —×— AMBIENT



- CONDITIONS**
1. EMBEDDED THERMOCOUPLE AT HEATER INLET IS T1 (GROUNDED)
  2. EMBEDDED THERMOCOUPLE AT HEATER TIP IS T2 (GROUNDED, OPPOSITE END TO INLET)
  3. THERMOCOUPLE AT OUTLET (T3) PLACED AT 1/8" FROM OUTLET OF HEATER
  4. COMPRESSED NITROGEN GAS FLOW
  5. AMBIENT TEMPERATURE OF GAS FLOW WAS 63°F AT TIME OF TEST
  6. HEATER WAS INSULATED
  7. TEST WAS PERFORMED IN AN OPEN ENVIRONMENT
  8. HEATER RATED FOR 24V AND 200W
  9. HEATER OVERALL LENGTH, DIA. & INLET: 4.5", 0.5" & 1/16" NPT