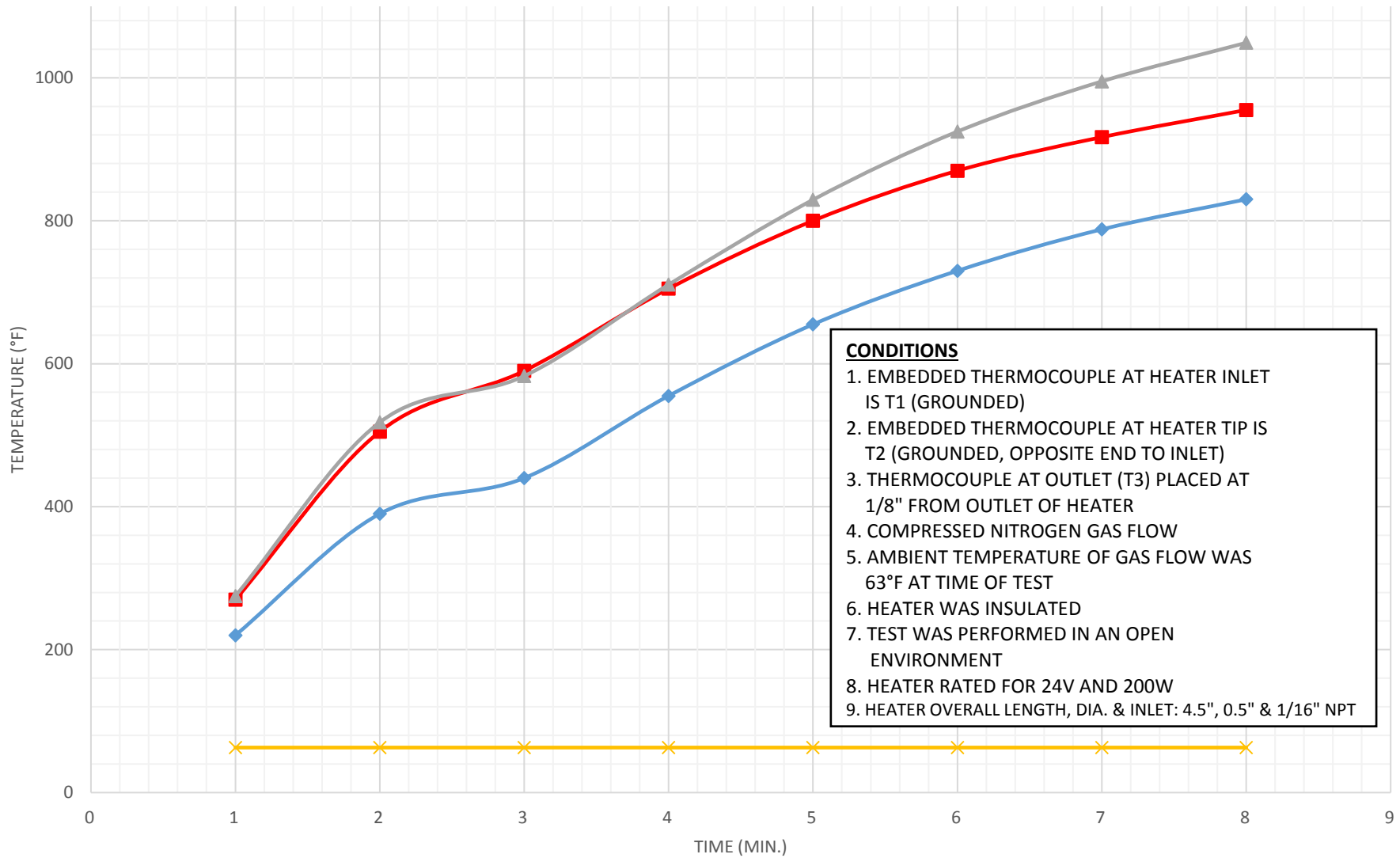


# MINI CLEAN FLOW HEATER WITH INSULATION

TEMPERATURE VS TIME FOR A FLOW OF 5.69 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