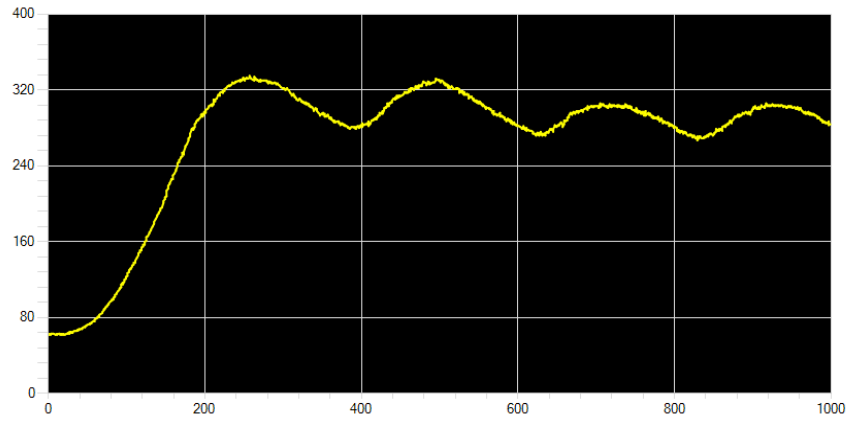
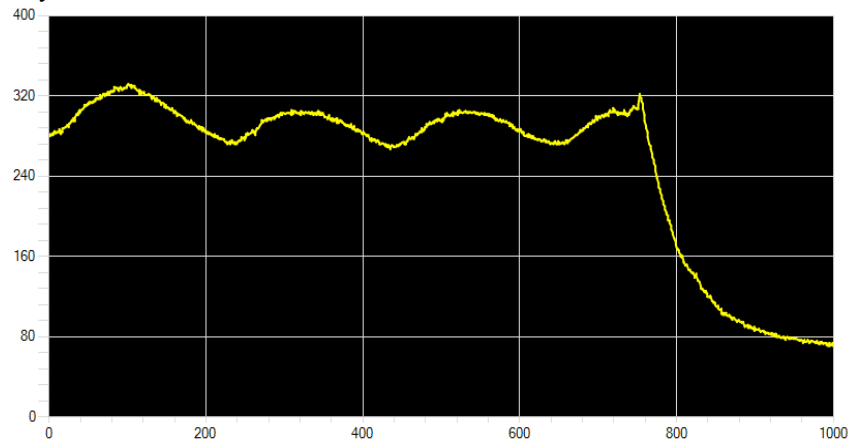


# Laminator z pid

Oryginał z termoelementem (120 st.)



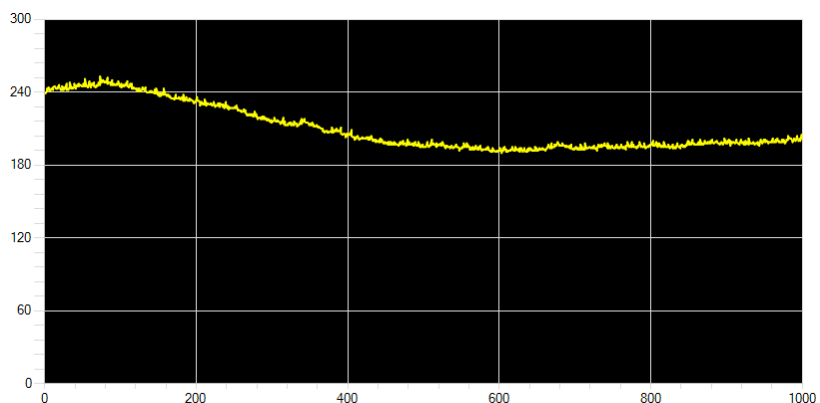
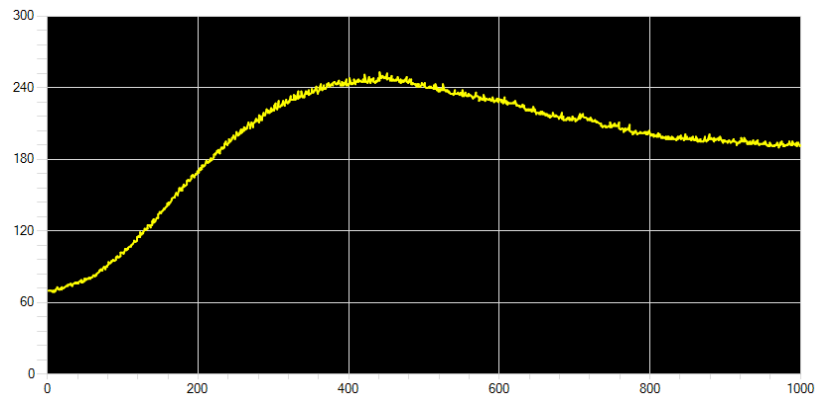
szybkie studzenie wentylatorem



Testy - Wariant 1. PID

zadane 200,  $K_p = 10$ ,  $K_i = 0.1$ ,  $K_d = 0$

Ustabilizowanie po 800 sec.



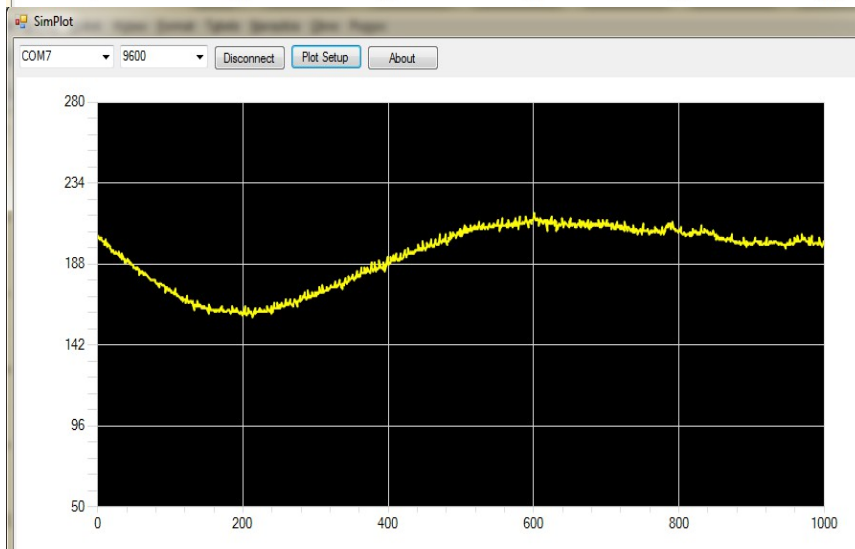
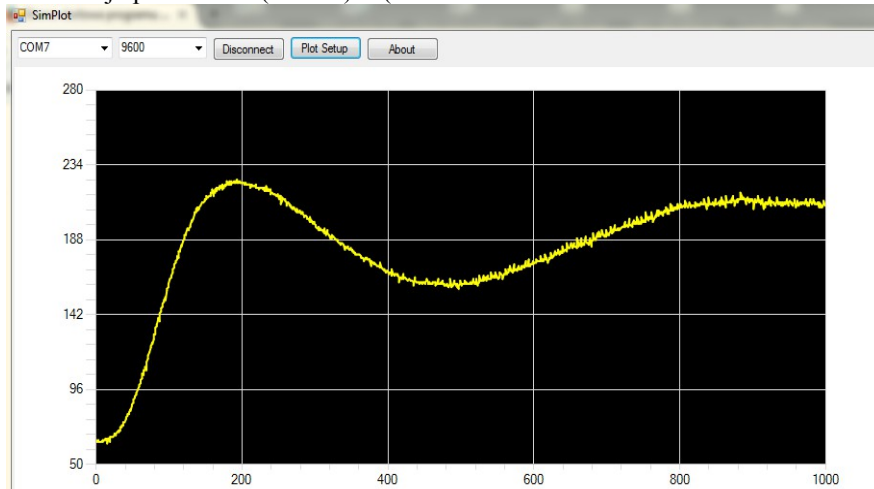
## Testy - Wariant 2.

preheater do 110

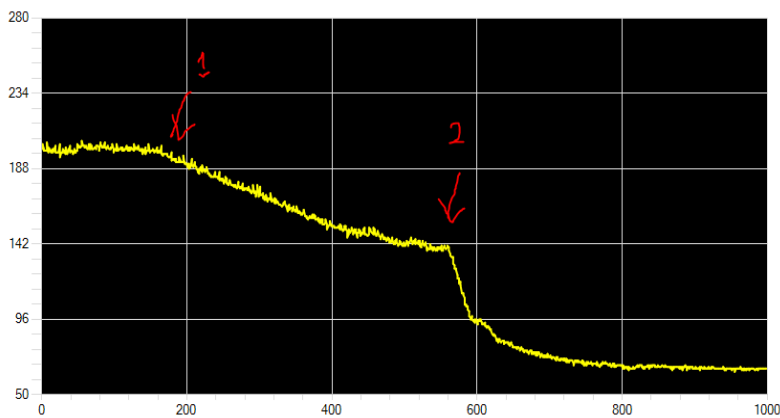
PID od 195

zadane 200,  $K_p = 10$ ,  $K_i = 0.1$ ,  $K_d = 0$

stabilizacja po 900 sec. (15 min) ! :(



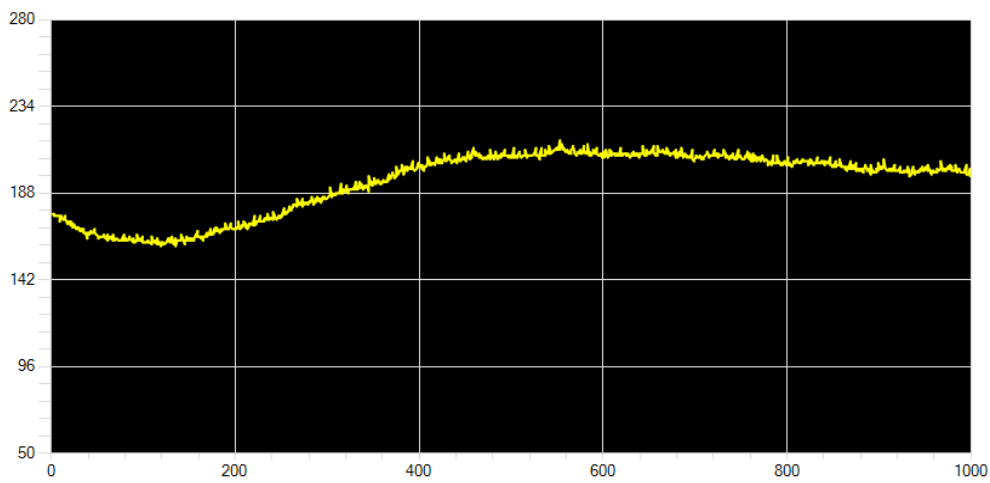
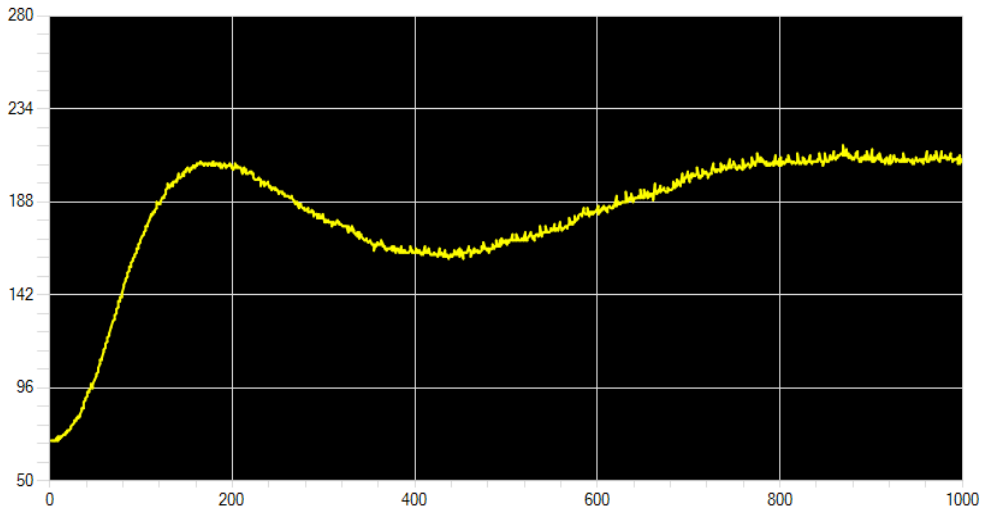
## Chłodzenie



1-off, 2- wentylator

### Testy - Wariant 3

jak poprzedni preheat do 100, mała górka po 700 sec. I w zasadzie stabilizacja



### Funkcja laminarka (zadane 300)

$K_p = 10$ ,  $K_i = 0.1$ ,  $K_d = 0$

