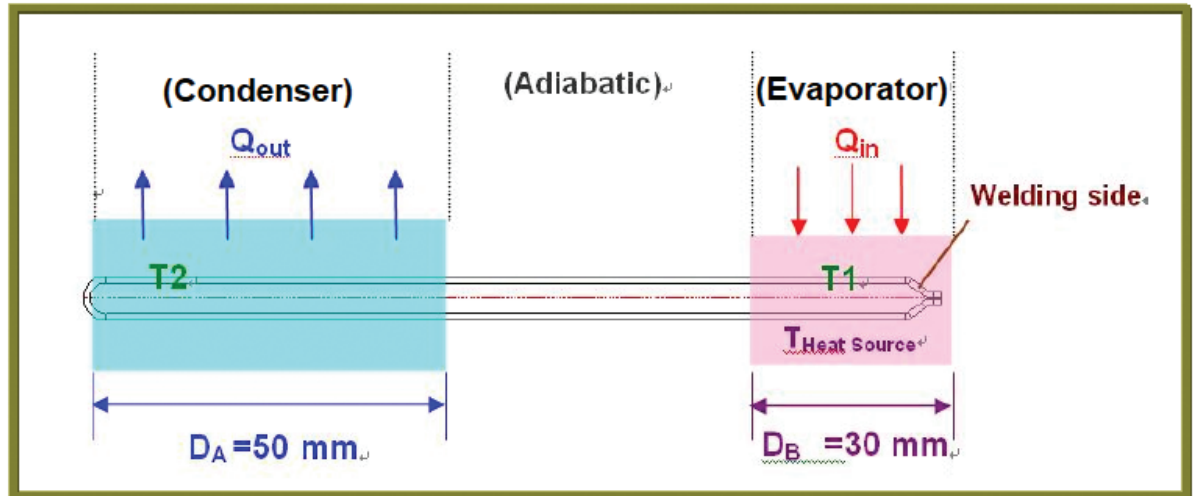


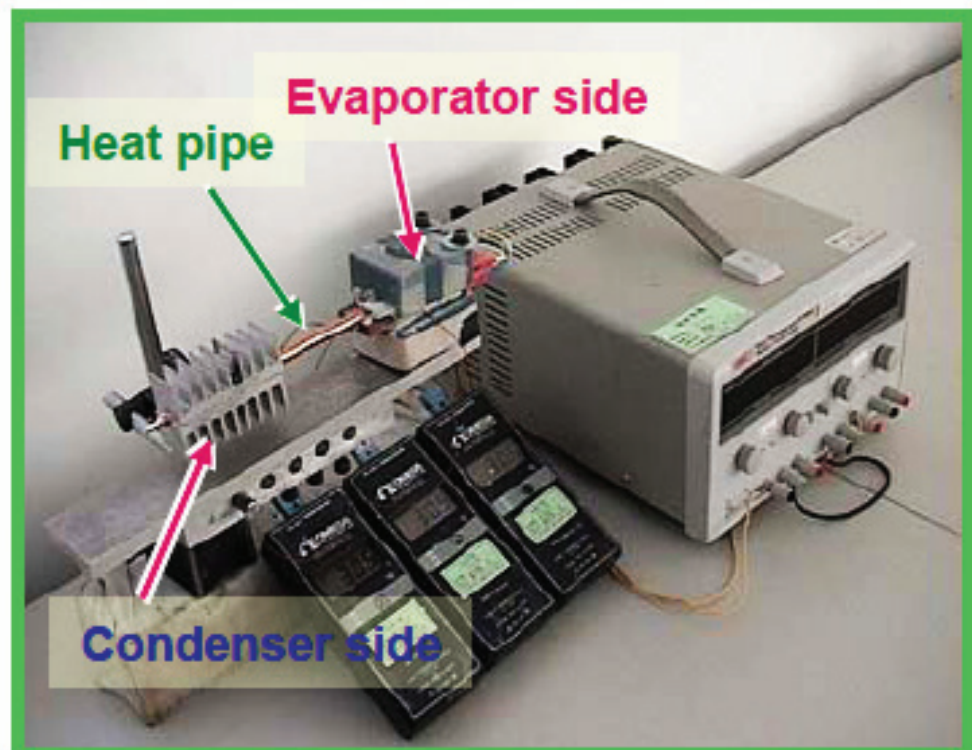
# Baknor Heat Pipe Design Guide

## Q-max Test Method For Heat Pipes



### Test Method

- $T_{Heat Source} = 70 \pm 5^\circ\text{C}$
- $D_A = 50 \text{ mm}$  in contact with the heat pipe
- $D_B = 30 \text{ mm}$  in contact with the heat pipe
- $T_{ambient} = 25 \pm 3^\circ\text{C}$
- Find Q-max while  $\Delta \geq 5^\circ\text{C}$  ( $\Delta T = T_1 - T_2$ )



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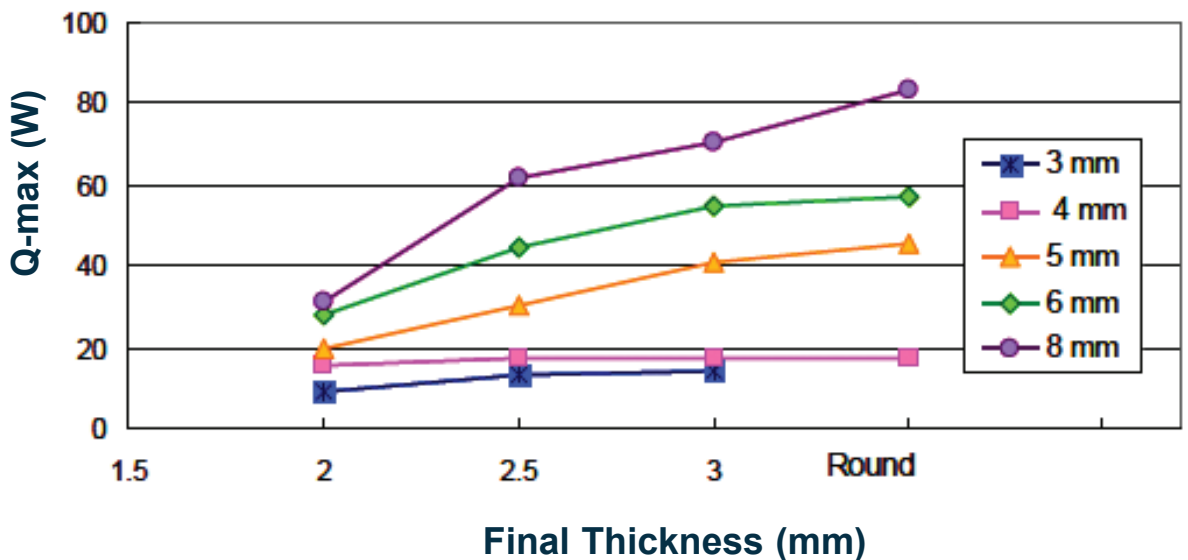
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# Baknor Heat Pipe Design Guide

## Thermal Performance (Q-max of Heat Pipe at 150mm Length)

	φ3 mm	φ4 mm	φ5 mm	φ6 mm	φ8 mm
T=2.0	9.2 W	15.6 W	19.7 W	28.2 W	31.3W
T=2.5	13.4 W	17.3 W	30.5 W	44.9 W	61.8 W
T=3.0	14.1 W	17.3 W	41.2 W	54.7 W	70.5 W
Round	15.3 W	17.4 W	45.4 W	57.1 W	83.5 W

(Standard Deviation ± 10%)



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