Protrusion face BC: $-\hat{n} \cdot c\nabla u + h_c u = h_c u_\infty$

All other faces BC:
$-\hat{n} \cdot c\nabla u = 0$

Holes faces BC: $-\hat{n} \cdot c\nabla u = $ Input

Longitudinal face BC: $-\hat{n} \cdot c\nabla u + h_c u = h_c u_\infty$
and temp. spread: MaxMinSpread $= u_{\max} - u_{\min}$

Average temp. on flat longitudinal surface:
$$\text{AvgTemp} = \frac{\int u\, dA}{A}$$

Objective: Find geometry that achieves target AvgTemp value with smallest total Input
(operating cost) and smallest MaxMinSpread (temp. spread)