

SimOps Thermal Analysis

Job: Cylinder

Date: 2025-12-27 17:52

SIMULATION STATUS: CRITICAL FAILURE

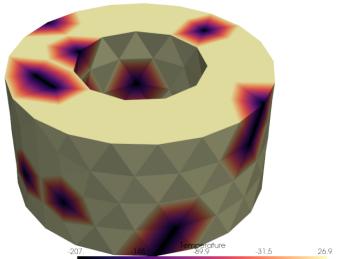
Metric	Value
Strategy Used	HighFi_Layered
Max Temperature	26.9 °C
Min Temperature	-206.6 °C
Range (Delta T)	233.5 °C
Mesh Elements	949
Solve Time	0.63 s

Thermal Distribution Maps

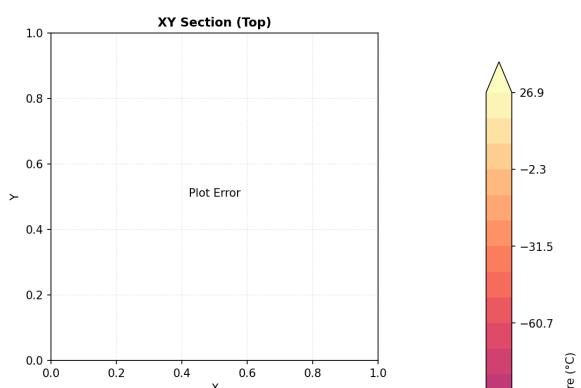
Sim Results - Cylinder

Material: Aluminum | Ambient: 20°C | Source: 100°C | $h=25.0 \text{ W/m}^2\text{K}$

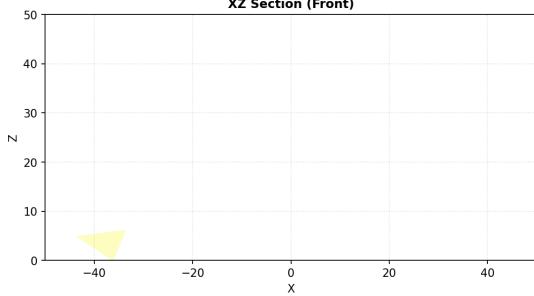
3D Isometric View (Surface)



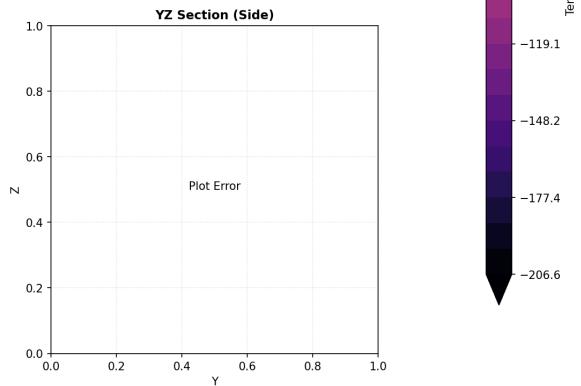
XY Section (Top)



XZ Section (Front)

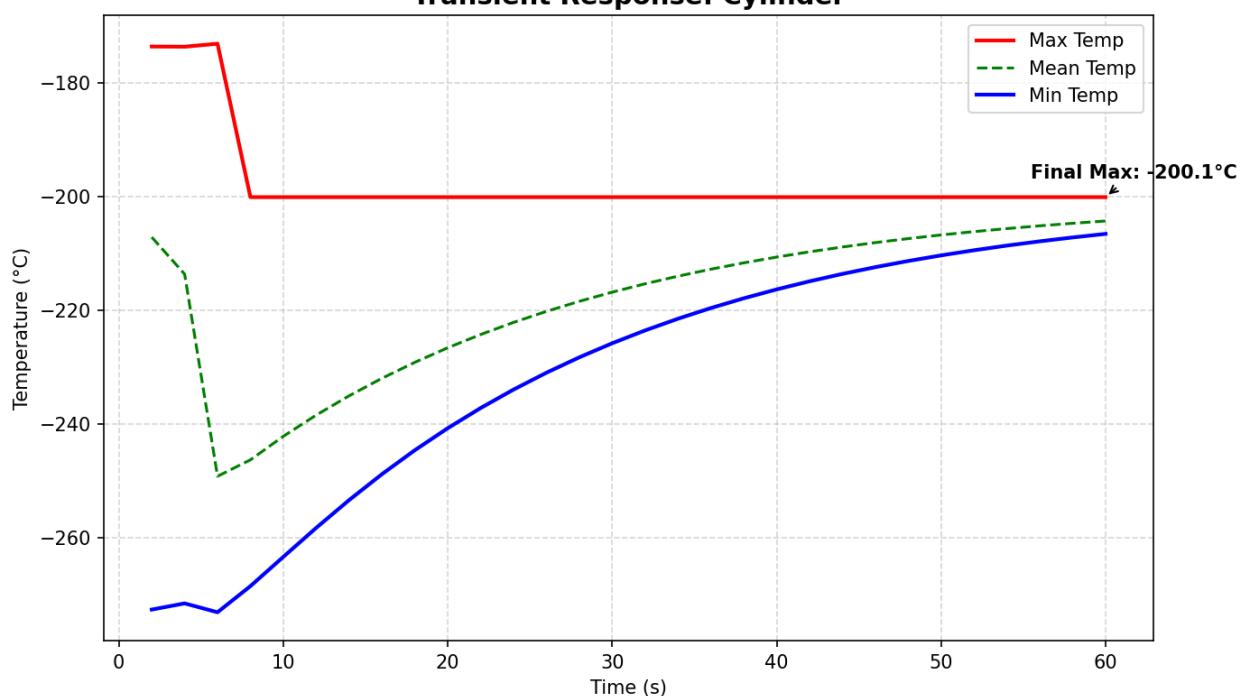


YZ Section (Side)



Solver: CalculiX v2.21 (FEM) | Mesh: 949 Elements | Solve: 0.6s | Transient (Final dt: 0.40499300699296725°C) | Flux: -5.5W

Transient Response: Cylinder



Generated by SimOps Autonomous Pipeline
Confidential - 2025