

# SimOps Thermal Analysis

Job: Cylinder

Date: 2025-12-28 13:17

**SIMULATION STATUS: CRITICAL FAILURE**

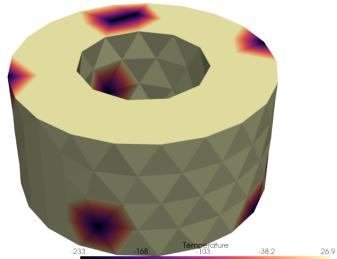
Metric	Value
Strategy Used	MedFi_Robust
Max Temperature	26.9 °C
Min Temperature	-233.5 °C
Range (Delta T)	260.3 °C
Mesh Elements	949
Solve Time	1.45 s

## Thermal Distribution Maps

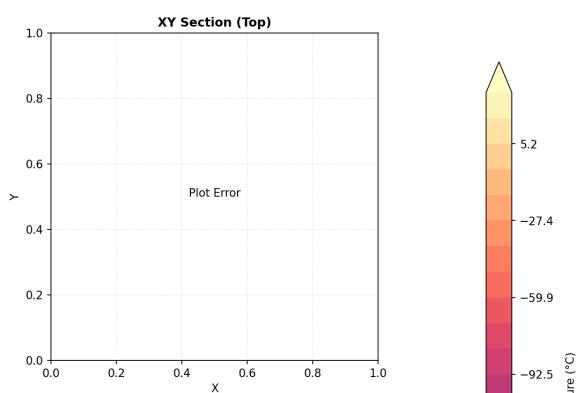
### Sim Results - Cylinder

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

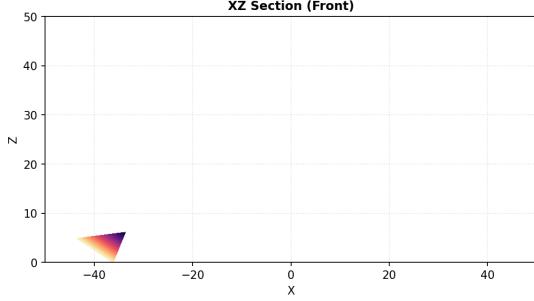
3D Isometric View (Surface)



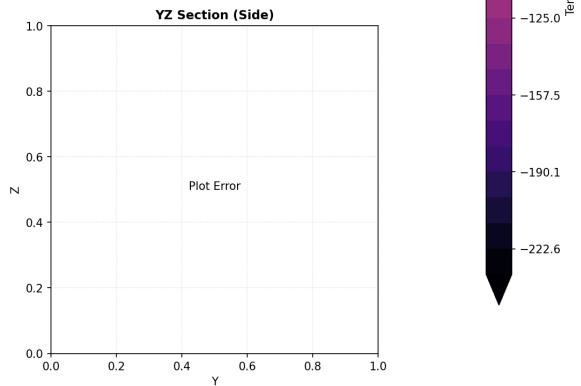
XY Section (Top)



XZ Section (Front)

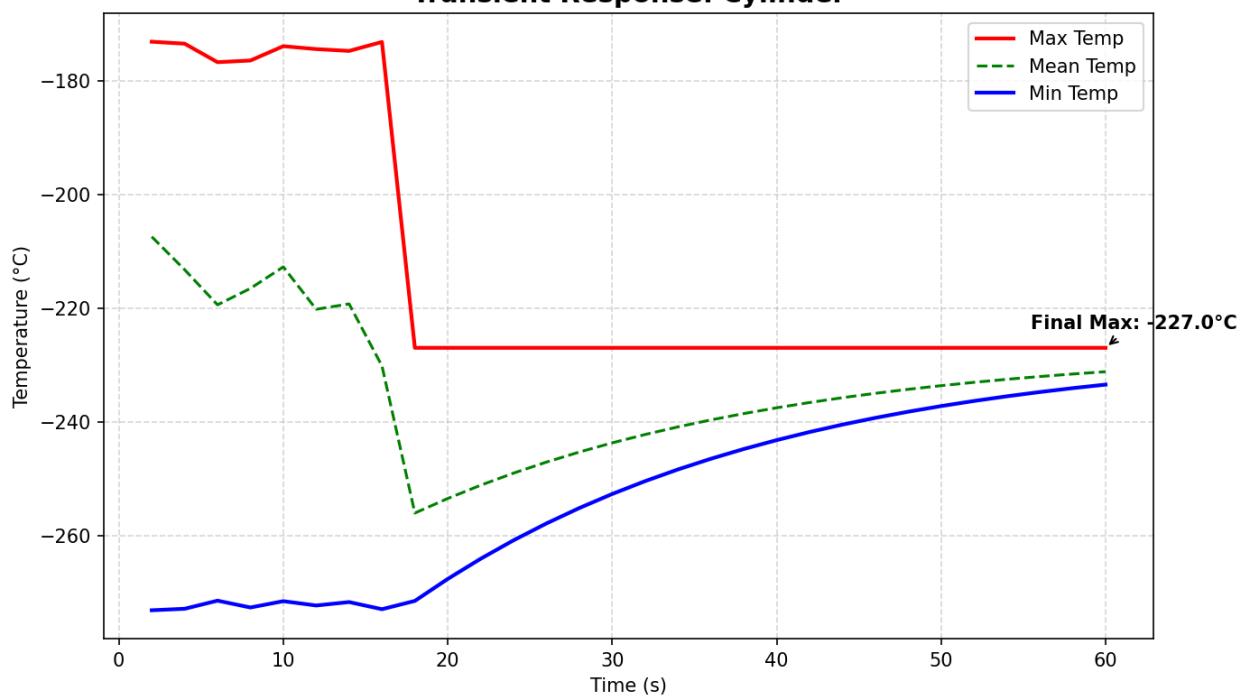


YZ Section (Side)



Solver: CalculiX v2.21 (FEM) | Mesh: 949 Elements | Solve: 1.5s | Transient (Final dT: 0.40499300699296015°C) | Flux: -113.7W

### Transient Response: Cylinder



Generated by SimOps Autonomous Pipeline  
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