

THERMAL AND FLUID SYSTEMS PRACTICE EXAM

7. A solar-thermal power system pumps and stores hot ($1,000^{\circ}\text{F}$) liquid sodium in an insulated overhead storage tank, as shown in the figure. The pump delivers sodium at the rate of 50 lbm/sec.

Use the following properties of sodium at $1,000^{\circ}\text{F}$:

Density	51.4 lbm/ft ³
Specific heat	0.301 Btu/(lbm- $^{\circ}\text{F}$)
Thermal conductivity	37.6 Btu/(hr-ft- $^{\circ}\text{F}$)
Dynamic viscosity	0.000156 lbm/(ft-sec)

$$\text{Nu} = \frac{hD}{k} = 5.0 + 0.025(\text{Re Pr})^{0.8}$$

Use the following data for the sodium pipe:

Nominal size	4-in Sch. 40 stainless steel
Inside diameter	4.026 in.
Darcy friction factor	0.01

The convective heat-transfer coefficient [Btu/(hr-ft²- $^{\circ}\text{F}$)] at the inside surface of the pipe is nearly:

- A. 275
- B. 1,460
- C. 3,250
- D. 28,200



Pe Mechanical Engineering Thermal And Fluids Practice Exam

JR Anderson



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