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=  $PV \dot{m} = P m \cdot \text{vapor vfg} = 475.9 \times 0.001 \times 0.39169 = 0.1864 \text{ kW} = 186 \text{ W}$   
Sonntag, Borgnakke and van Wylen 5.120 The heaters in a spacecraft suddenly

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fail. Heat is lost by radiation at the rate of 100 kJ/h, and the electric instruments generate 75 kJ/h. Initially, the air is at 100 kPa, 25°C with a volume of 10 m<sup>3</sup>.

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A pressure difference drives the flow. The fluid is accelerated in the direction of a lower pressure as it is being pushed harder behind it than in front of it. This also means a higher pressure in front can decelerate the flow to a lower velocity which happens at a stagnation on a wall.  $F = P A$

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Solution:  $a = dV / \Delta t \Rightarrow \Delta t = \Delta V / a$   
 $\Delta t = (50 - 15) \times 1609.34 \times 3.28084 / (3600 \times 15) = 3.42 \text{ sec}$   
 $F = ma = 2500 \times 15 / 32.174 \text{ lbf} = 1165 \text{ lbf}$   
2.40E Two pound moles of diatomic oxygen gas are enclosed in a 20-lbm steel container. A force of 2000 lbf now accelerates this system.

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In their well-known thermodynamics textbook, Fundamentals of Classical Thermodynamics, Van Wylen and Sonntag note concerning the Second Law of Thermodynamics: “ [W]e of course do not know if the universe can be considered as an isolated system” (1985, p. 233).

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Fundamentals of Classical Thermodynamics. By Gordon J. Van Wylen and Richard Edwin Sonntag. By Gordon J. Van Wylen and Richard Edwin Sonntag. New York: Wiley, 1973.

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