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Engineering Thermodynamics: Chapter-10 Examples. A Carnot vapor refrigeration cycle is used to maintain a cold region at 0 o F where the ambient temperature is 75 o F. Refrigerant R-134a enters the condenser as saturated vapor at 100 lbf/in² and leaves as saturated liquid at the same pressure. The evaporator pressure is 20 lbf/in². The mass flow rate of refrigerant is 12 lbm/s.

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1. INTRODUCTION Problem 1.3 Solution a) The mean velocity is $v_{ND} = 8k_B T / m$ where $k_B = 1.38 \times 10^{-23} \text{ J/K}$, $T = 273.16 \text{ K}$. The mass of the water molecule is $m = 18 \times 10^{-27} \text{ kg}$. The mean velocity is $v_{ND} = 223 \text{ m/s}$.

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Thermodynamic Properties

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