

- 5.15** A window-mounted air conditioner removes 3.5 kJ from the inside of a home using 1.75 kJ work input. How much energy is released outside and what is its coefficient of performance?
- 5.16** A lawnmower tractor engine produces 18 hp using 40 kW of heat transfer from burning fuel. Find the thermal efficiency and the rate of heat transfer rejected to the ambient.

- 5.23** A window air conditioner (Fig. P5.23) discards 1.7 kW to the ambient with a power input of 500 W. Find the rate of cooling and the COP.

