

combustion products

$$T_{in} = 150^{\circ}\text{C}$$

$$P_{in} = 1 \text{ atm}$$

building

$$T_{bldg} = 22^{\circ}\text{C}$$

furnace

air

$$T_{in} = -10^{\circ}\text{C}$$

$$P_{in} = 1 \text{ atm}$$

methane at T_{in}

Q_{out}

