Chapter6_example6

The mass flow rate is 0.2 lbm/s

The average velocity evaluated by using the average bulk temperature is 9.71 ft/s

The Reynolds number for the flow is 3.709e+04

The heat gained by air is 1.295 BTU

The local coefficient at the duct end is 2.27 BTU/(hr. sq.ft.degree Rankine)

The wall flux is 22.9 BTU/(hr. sq.ft.degree Rankine)

The wall temperature at exit is 82.1 degree Fahrenheit