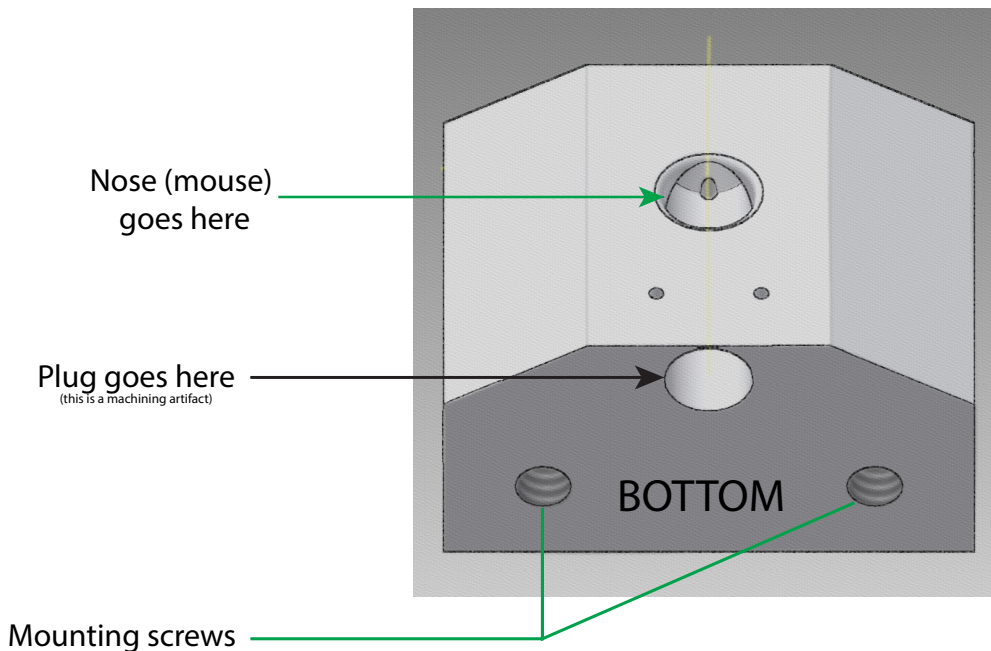
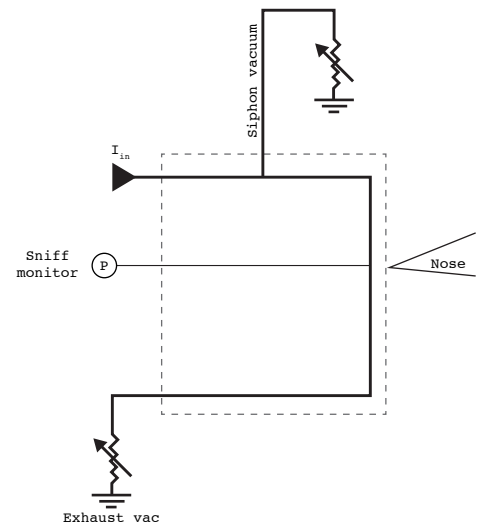
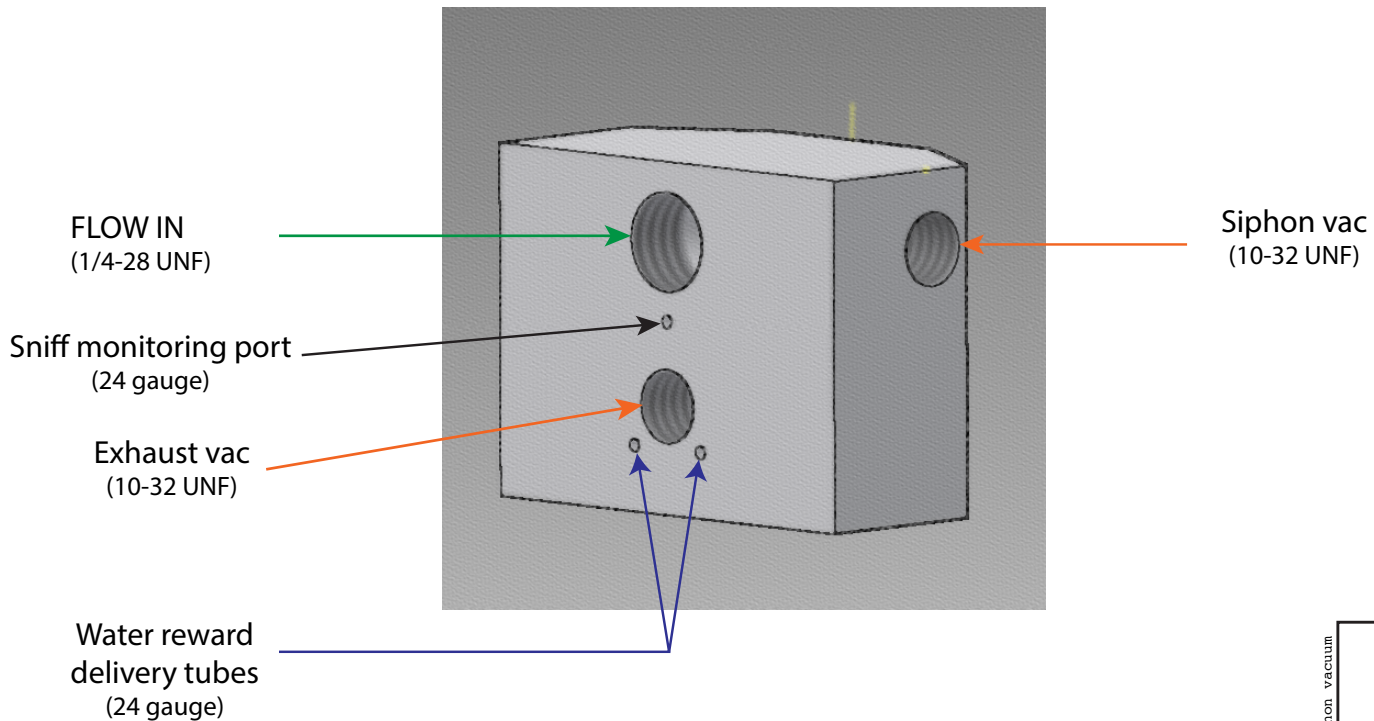


Odor port theory of operation



The siphon can be used to reduce the air flow through the odor port such that:

$$I_{input} = I_{exhaust} + I_{siphon}$$

This can be checked using the sniff pressure sensor by occluding the nose port. When the pressure when occluded is equal to the pressure un-occluded, the input and output flows are matched.