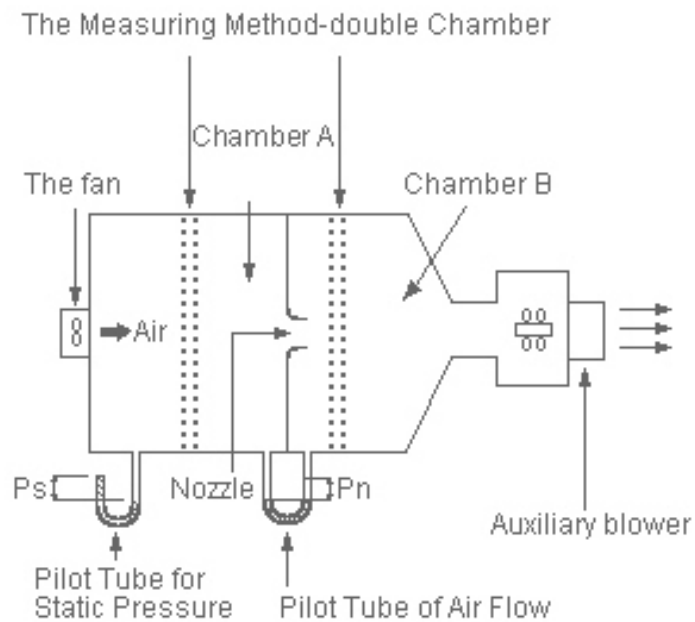


Air Flow Measurement

Air flow performance curves of fans are obtained by using the Double-Chamber method based on AMCA standard. The differential pressure between the front and rear of nozzles (differential pressure: P_n) is measured in order to calculate and obtain the air flow at the nozzle. At the same time, different pressures between chamber A and B (Static pressure: P_s) is measured and recorded.



By adjusting nozzles, the differential pressure between the front and rear of nozzles can be controlled. The examples have been demonstrated as follow.

Maximum air flow:

when opening nozzles and absorbing the air using the auxiliary blower to make the static pressure (P_s) equal to zero, the differential pressure between chamber A and B, P_n , will be at its maximum value.

Maximum static pressure:

if nozzles are closed the pressure in the chamber A will be at it's maximum value. The differential pressure, P_s , between the ambient air pressure and the pressure in the chamber can now be considered the maximum static pressure.



Air Flow Testing Machine