

CONFINED SPACE – BLOWERS

OVERVIEW

Stemar has a wide variety of blowers sized 8” to 26” (848 to 9,570 CFM) mainly used for confined space ventilation. Smaller axial blowers come with a convenient “all in one” option for smaller confined spaces, like manholes. Larger axial blowers come housed in 16 gauge cold rolled steel for longevity and durability. Centrifugal blowers are available for when a higher air velocity is needed to push air flow through a multiple lengths of ducting hose.

Ventilation is a core competency of confined space safety. Proper ventilation mitigates danger from low oxygen levels, high CO2 levels, and other toxic materials, fumes, and vapors. Lack of proper ventilation can result in serious injury or death.

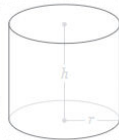
The metric used for ventilation is ACH, *Air Changes per Hour*: how many times will the air in the confined space be completely exchanged with fresh air per hour.

Stemar recommends an exchange rate of at least 20 ACH, which equates to one complete air exchange every 3 minutes.

Solve for volume

$$V = \pi r^2 h$$

(for manholes)



The formula to calculate ACH is as follows:

$$\text{ACH} = (\text{CFM} \times 60) / \text{Volume (V) of Confined Space (in cubic feet)}$$



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