

TECHNICAL BULLETIN

www.anemostat-hvac.com

Anemostat recommends a minimum length of 1.5 x Inlet Diameter of straight, rigid duct connected to the inlet of the air terminal with 3 x Inlet Diameter (or more) being optimum.

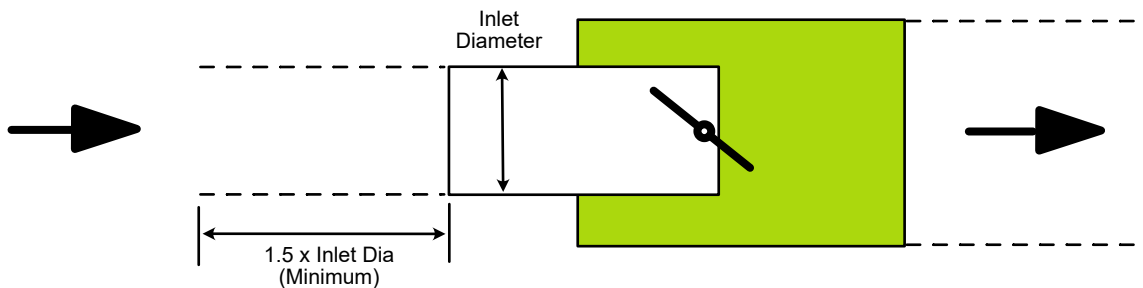
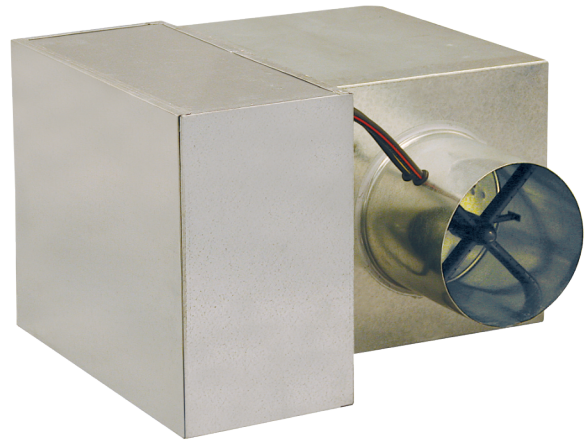
Examples:

8" Air Terminal : 1.5 x Dia = 1.5 x 8" = 12"

3.0 x Dia = 3.0 x 8" = 24"

16" Air Terminal : 1.5 x Dia = 1.5 x 16" = 24"

3.0 x Dia = 3.0 x 16" = 48"



During balancing, each terminal unit controller and sensor are calibrated as installed, essentially eliminating any air flow sensor errors introduced due to inlet conditions. After balancing, the air flow sensor accuracy will be maintained.

See research project ASHRAE 1353 "*Stability and Accuracy of VAV Box Control at Low Flows*" which includes tests with varying inlet conditions. ASHRAE and SMACNA recommend a minimum 3 x Diameter as best practice and optimum.