

STAT-probe

DESIGN & INSTALLATION GUIDE

GENERAL INSTALLATION CONSIDERATIONS

Preface. The installation factors to be considered when applying the STAT-probe are discussed below:

Turbulent Air Flow. The dual offset static sensor design of the STAT-probe will permit accurate sensing of duct static pressure even in the presence of turbulent and rotational airflows with a maximum 30° yaw.

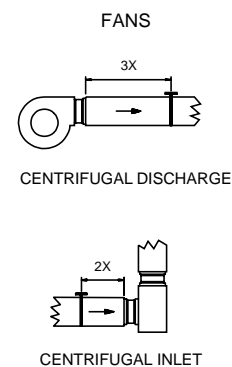
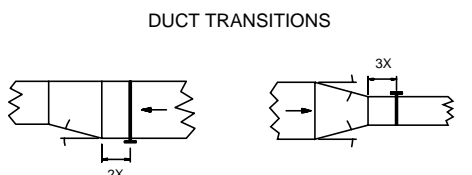
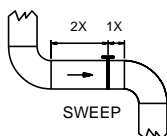
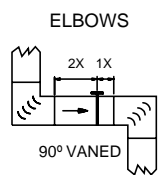
Stratified Air Flow. The STAT-probe should be mounted so that the probe is across the stratified airflow - not parallel to the flow.

Air Temperature. The STAT-probe, made of 3003 extruded anodized aluminum, is designed to operate in air systems with temperatures up to 400°F.

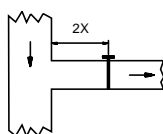
Airborne Contaminants. The level of air filtration and cleanliness associated with commercial HVAC systems is satisfactory for operation of the STAT-probe.

Direction of Air Flow. An arrow indicating the direction of airflow is present on the STAT-probe mounting plate to assure proper installation.

MINIMUM REQUIREMENTS FOR INSTALLATION

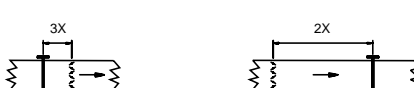


DUCT TAKE-OFFS

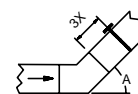


Angle A = 15° or less Angle B = over 15°

DAMPERS



ANGLE FITTINGS

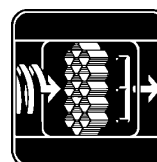


X = Average duct dimension

Rectangular Duct: $x = \frac{2(H \times W)}{H + W}$

Circular Duct: $x = \text{Duct Diameter}$

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