

# 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.

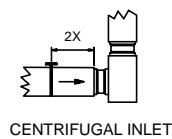
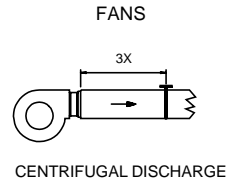
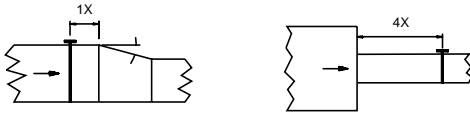
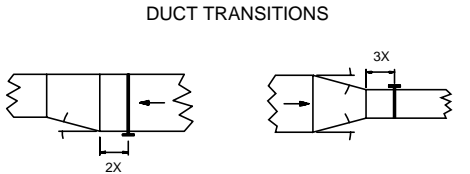
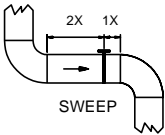
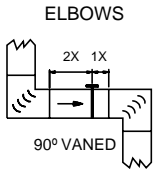
**Stratified Air Flow.** The STAT-probe should be mounted so that the probe is across the stratified airflow - not parallel to the flow.

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

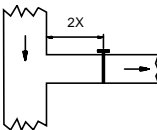
**Airborne Contaminants.** The level of air filtration and cleanliness associated with commercial HVAC systems is satisfactory for operation of the STAT-probe.

**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**

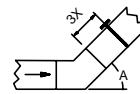


Angle A = 15° or less    Angle B = over 15°

**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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