

## Title: Supply Air Temperature Sensor Installation

It is critical that the Supply Air Temperature Sensor (SAT) is installed correctly for optimum unit performance.

There are typically two types of ductwork designs:

**NOTE:** Box size does not affect the placement of the SAT, locate the SAT based on ductwork design.

### 1. Short dropdown with diffuser

For a short dropdown with diffuser, install the SAT sensor opposite of where the electrical drop enters the unit as shown in *figure 1*.

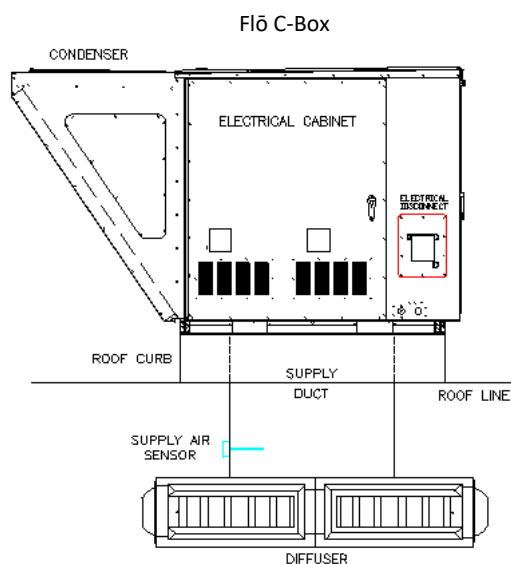


Figure 1 - C-Box (16 - 30 Tons) with dropdown diffuser.

**Note:** The SAT sensor is installed on the side of the supply duct that is below the unit condenser fans and opposite of the electrical drop inside the unit. This is required because it is the furthest location away from the first stage of heating. It is important to install the supply air temperature sensor as far as possible from the supply air opening.

**NOTE:** Mount the Supply Air Sensor as far down the vertical duct drop as possible.

### 2. Traditional ductwork

For traditional ductwork, install the SAT sensor ten (10) feet down the supply duct run as shown in *Figure 2*.

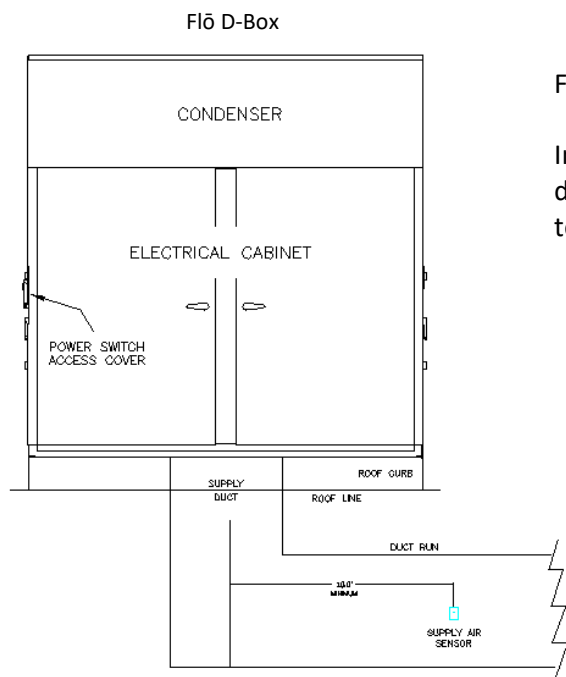


Figure 2 – D-Box (31 - 70 Tons) with traditional ductwork.

Install the SAT sensor no less than 10 feet away from the vertical drop of the unit. This is required to allow an accurate temperature reading for proper control operation.