

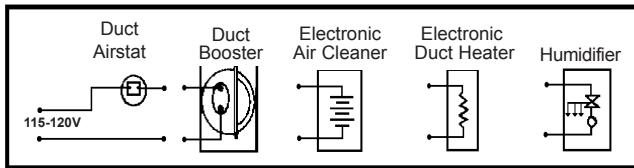
# TJERNLUND MODEL PS1503 POSITIVE AIR FLOW PRESSURE SWITCH

The Tjernlund Duct Airstat senses positive pressure in a forced air heating and/or cooling system. The single pole, single throw, snap-acting switch is activated by a diaphragm with a factory installed sampling tube inserted directly into the duct or plenum.

The Duct Airstat can be used to initiate such auxiliary devices as: Duct Boosters, Electronic Air Cleaners, Electrical Duct Heaters, and Humidifiers. The electrical contacts of the switch are closed upon sensing positive air pressure generated by the blower.



## TYPICAL APPLICATIONS



## FEATURES

- High Sensitivity
- Maximum Temperature Limit of 190° F.
- Simple Installation
- Self-Sealing Factory Mounted Sampling Tube
- Mounting Hardware

## GENERAL SPECIFICATIONS

### ELECTRICAL RATING:

278 VA Pilot Duty at 24 Volts AC  
300 VA Pilot Duty at 115 to 277 Volts AC  
15 AMPS Non-Inductive to 277 Volts AC

### ELECTRICAL SWITCH:

SPST, N/O, Snap Action Contacts, Non Adjustable

### OPERATING PRESSURE / POSITION:

On pressure rise at  $+0.05 \pm .02$ " W.C. (Diaphragm Vertical)

### MAXIMUM PRESSURE:

1/2 PSI

### OPERATING TEMPERATURE RANGE:

-40 to 190° F.

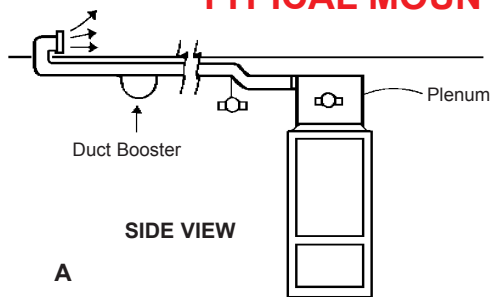
### SAMPLING TUBE:

Self-sealing, factory mounted tube

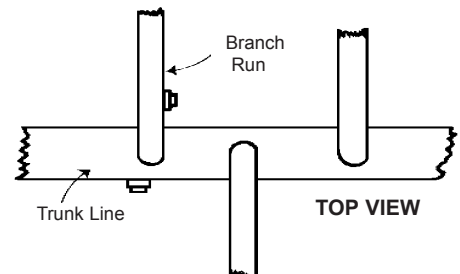
### DIMENSIONS:

5" Diam., 5 1/2" Across Bracket, 3" High

## TYPICAL MOUNTING LOCATIONS & APPLICATIONS

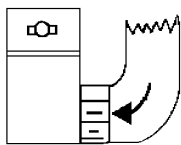


SWITCH MUST BE MOUNTED WITH DIAPHRAGM IN VERTICAL POSITION



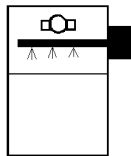
Switch activates Duct Booster by sensing positive pressure on either plenum, trunk, or branch lines as shown in Figures A and B above.

### ELECTRONIC AIR CLEANERS



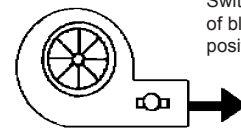
Switch actuates air cleaner by sensing positive plenum pressure.

### HUMIDIFIERS



Switch activates humidifier by sensing positive plenum pressure.

### FAN OPERATION



Switch proves operation of blower by sampling positive pressure.

Distributed By:



**TJERNLUND PRODUCTS, INC.**

1601 Ninth Street • White Bear Lake, MN 55110-6794  
PHONE (800) 255-4208 • (651) 426-2993 • FAX (651) 426-9547  
Visit our web site • [www.tjernlund.com](http://www.tjernlund.com)