

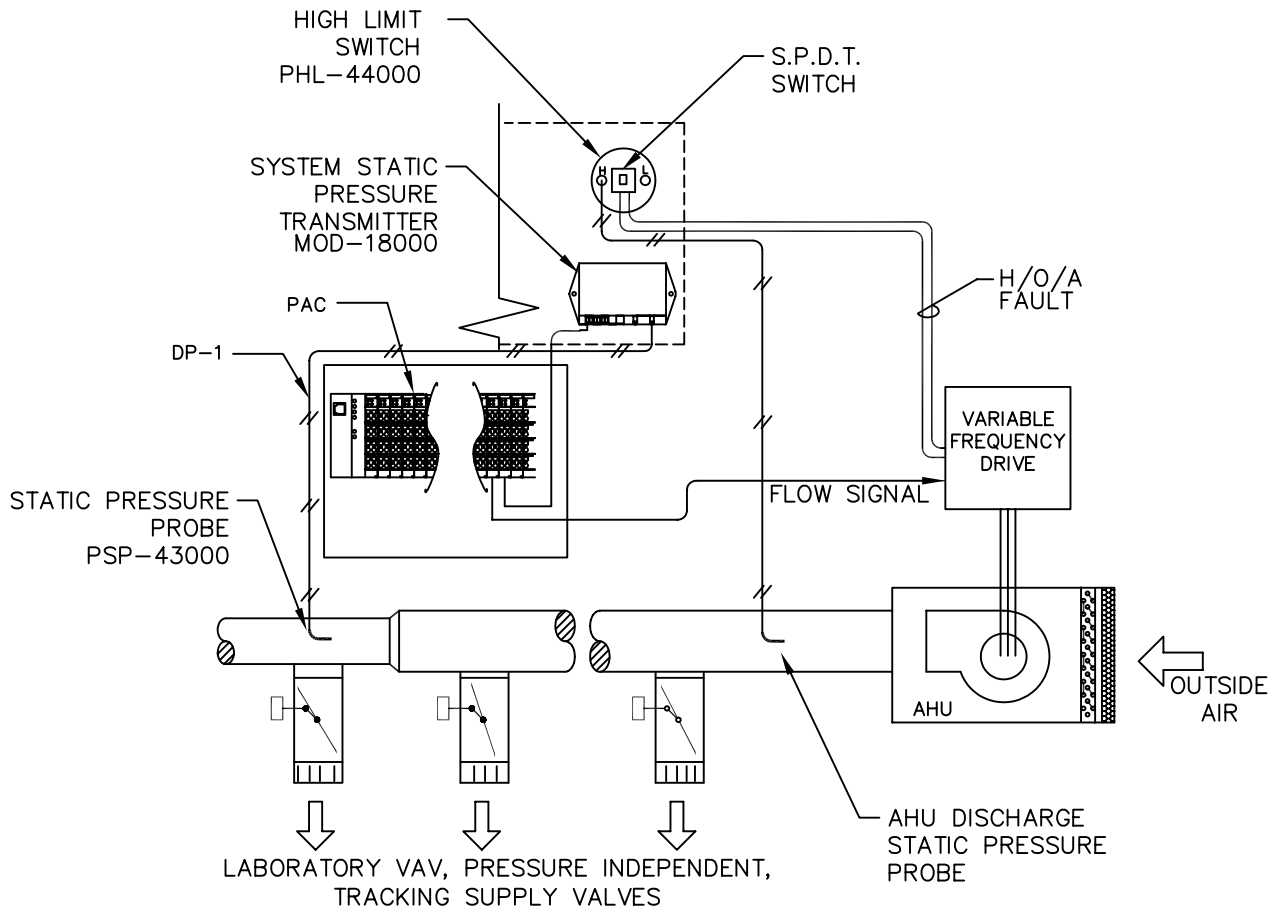
BILL OF MATERIALS

TYPE R: VFD Supply Static Pressure Control

QUANTITY	PRODUCT	DESCRIPTION
1	MOD-18000	Differential Pressure Transmitter
1	PIC-1600	Fieldbus Controller (PAC)
1	PSP-43000	Pneumatic Static Pressure Probe

SEQUENCE OF OPERATION:

- A. Supply fan VFD shall vary fan speed to maintain positive static pressure in the supply duct system at the control point where the duct static pressure probe is installed.
- B. PAC receives DP-1 input control flow signal from differential pressure transmitter and calculates duct static pressure, then compare this to the set point and then calculates new value for output control flow signal
- C. PAC shall output a signal to modulate the speed of the VFD serving the fan motor to increase or decrease the fan rotational speed necessary to maintain the set point pressure level.
- D. High Limit Switch* (PHL-44000) - Fan static pressure control system shall also include a high limit over pressure device that de-energizes the duct system before duct system over pressurizes, by disconnecting the fan H-O-A disconnect switch.



SCALE: NONE

SUPPLY VFD STATIC PRESSURE CONTROL

REFERENCES:
 15590
 15592-A
 15592-B
 15592-C

NOTES: PAC IS UNDEDICATED

SOURCE: ACCU*AIRE CONTROLS
 U.S. PATENT #: 5,205,783 & 5,312,297

SECTION: 15970 - CONTROL SYSTEMS

DETAIL: SUPPLY VFD STATIC
 PRESSURE CONTROL

BLOCK SIZE: 1
 REV: 2/20/07 SC

TYPE-R