

BILL OF MATERIALS

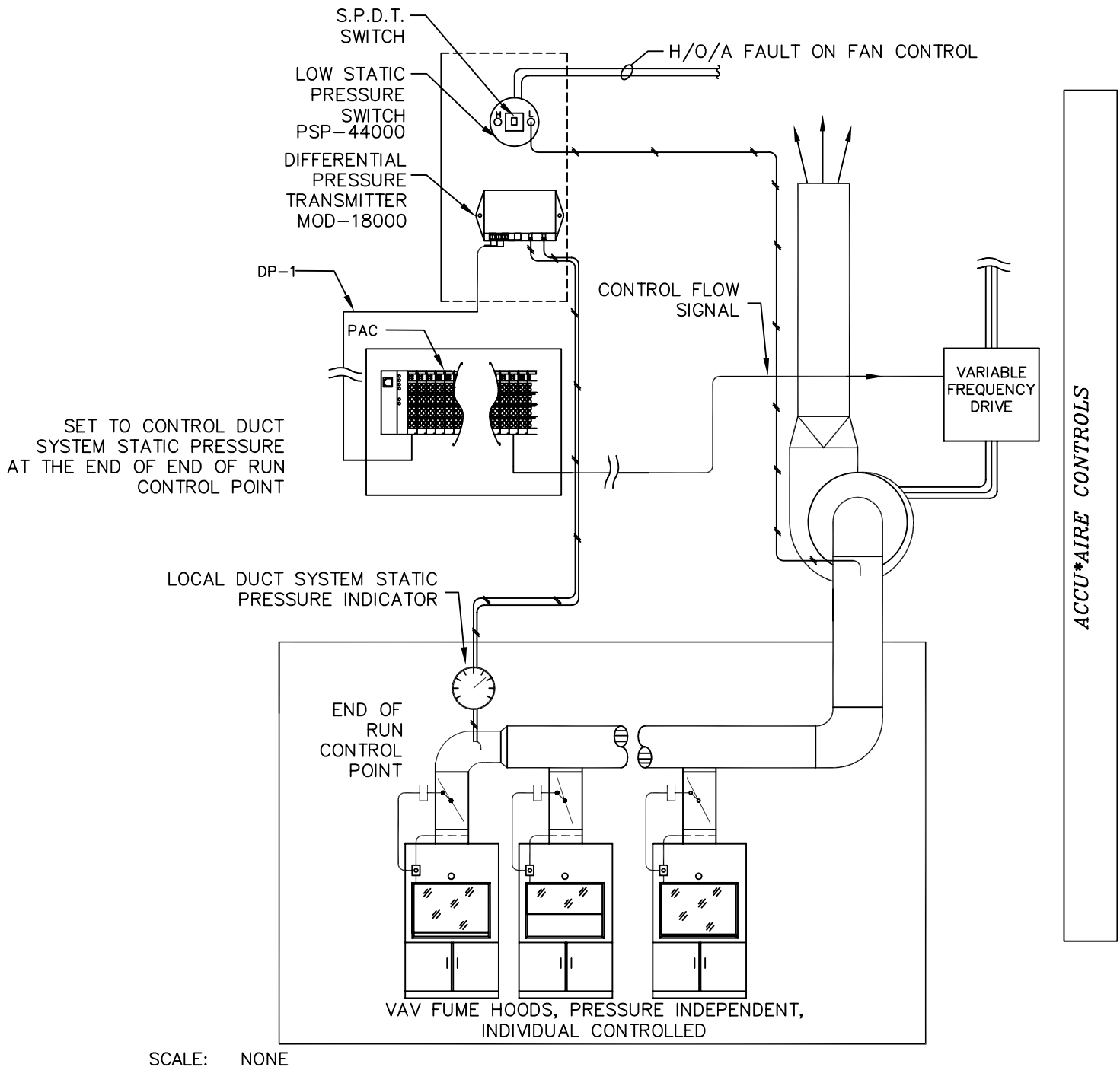
TYPE Q: VFD STATIC PRESSURE CONTROL

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. Exhaust fan VFD shall vary fan speed to maintain negative static pressure in the duct system at the control point where the static pressure sensor is installed.
- B. PAC receives DP-1 input control flow signal from differential pressure transmitter and calculates duct static pressure, then compares 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. Low Limit Switch* (PHL-44000) - Fan static pressure control system shall also include a low limit pressure device that de-energizes the duct system before duct system over pressurizes, by disconnecting the fan H-O-A disconnect switch.

* Denotes non-standard optional features



CONSTANT EXHAUST DUCT VELOCITY CONTROL

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

NOTES:

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

SECTION: 15970 - CONTROL SYSTEMS

DETAIL: CONSTANT EXHAUST DUCT VELOCITY CONTROL
 PRESSURE CONTROL

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

TYPE Q