VAC-ALERT PCB UNITS PSAC-3-30

CUSTOMER CONNECTIONS

A) Connect Vac-Alert Panel as per installation drawing 1480 Rev. 1.

B) Notes to Terminal Board Connections

1) 30 amp relay can be used to control the pump motor or the pump motor starter control circuit. For a motor, connect Incoming lines on # 2 and # 6. Connect the motor on # 4 and # 8.

For use in a motor starter control circuit connect the motor "hot" lead to # 2. Connect the L2 or neutral connection to # 6. Then connect the motor coil to # 4. Terminal # 8 will not be used.

2) Pump 1 power controls the printed circuit board. If only one pump is used it must be in the pump 1 location.

3) Connect all grounds to the ground bar located on the lower back panel.

4) Remote stop function. The unit has the capability for a remote stop. TB4, TB11, and TB16 all send out 24 V.A.C. to a N.C. dry contact remote stop switch/button. TB5, TB12 and TB17 all receive the signal back. Remote stopping of pump 1 will shut down all pumps. If this function is not used, place jumpers as denoted on the drawing.

5) Remote Alarm- Unit has a dry contact relay which will energize when any of the 3 high vacuum alarms are activated. Maximum rating of the contacts: 8 amps at 240 volts.

6) Alarm reset must be pushed to clear any alarm

7) An optional remote buzzer alarm or voice alarm is available. The connections are denoted on the drawing.

8) The proper input voltage must be selected for each pump. Pump slide switch locations and settings are denoted on the drawing.

9) Input power circuit must be between 115 and 230 V.A.C. to allow delay timer to operate properly.

CAUTION SAFETY WARNING

As with all electrical products, read manual thoroughly before operating. Only qualified, expert personnel should perform maintenance or installation. Failure to do so may result in equipment damage, personnel injury or even death. 3/10/9

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SYSTEM OPERATION.

INITIAL SYSTEM STARTUP FOR EACH PUMP

A) On FW Murphy Switchgage move the alarm lever to a value higher than the expected operating vacuum. Use a 1/16 inch hex wrench to make this adjustment.

B) Start Pump 1 at the remote control panel. This will also start the alarm delay timer (1 minute) on the Vac-Alert panel. Power On light will be illuminated. The high vacuum alarm will not be active until this timer is done.

C) After the delay, **slowly,** turn the alarm lever on the switchgage to a lower value until the pump stops.

D) Turn off the Pump at the remote control panel.

E) Turn the alarm lever on the switchgage to a higher value (desired alarm point).

F) Repeat these steps for pump 2 and pump 3. Note: During this time power must be applied to pump 1 relay to operate the system. If desired, you may remove the motor leads from # 4 and # 8 to avoid running pump 1 during the initial startup.

H) Re-start the Pump(s) at the remote control panel(s). This will also start the alarm delay timer(s) (1 minute) on the Vac-Alert panel.

PERODICALLY TEST VACUUM SWITCH AND SHUT DOWN SYSTEM TO ENSURE PROPER OPERATION.