Q-PAC

WIRING GUIDE

FUSED DISCONNECT

This Wiring Guide is for connecting the Q-PAC Fan to the Schneider VisiPacT disconnect. For support connecting to a Q-PAC Control Panel or third party interface, refer to the appropriate Q-PAC Wiring Guide or contact Q-PAC Support for assistance at (904) 863-5300 or support@q-pac.com.

For more information on Modbus communication points and Fan Controller functionality, check the Q-PAC Fan User Manual. Basic descriptions of the fan terminals are provided below.

INPUT POWER		REQUIRED
L1/L2/L3	3 Phase 208V or 480V input voltage for motors.	X
GND	Earth ground	X
CN1 | ANALOG INTERFACE		
A1	0-10V signal proportional to motor speed.	X
COM	0V reference for A1.	X
K1A	Normally closed contact of the alarm relay. This pin is connected to Alarm relay COM when no alarm is present in the unit.	
K1C	Common contact of the alarm relay. When no alarm is present in the unit, this pin is connected to Alarm relay NC and disconnected from Alarm relay NO.	
K1B	Normally open contact of the alarm relay. This pin is connected to the Alarm relay COM when an alarm is present in the unit.	
A2	0-10V signal proportional to the calculated airflow.	
COM	0V reference for a A2.	
CN3 | INPUT POWER – FAN CONTROLLER BOARD		
24V	24VDC/24VAC input voltage.	NOTE 3, 5
0V	0VDC ground / 24VAC power supply.	
CN5 | MODBUS COMMUNICATIONS		
A	Communications port +.	NOTE 4, 5
B	Communications port –.	
COM	Communications port ground.	
CN6 | MODBUS COMMUNICATIONS		
A	Communications port +.	NOTE 4, 5
B	Communications port –.	
COM	Communications port ground.	

NOTES:

1. Conductor size to be determined by NEC Article 310.15(B) and Table 310.16 and Q-PAC Fan MCA, as listed on the Fan Controller nameplate
2. Terminals A1 and corresponding COM of CN1 must be connected to the BMS or third party controller for operation.
3. Minimum 24 AWG (CU) to CN1 and CN3.
4. Minimum 24 AWG (CU) Shielded Twisted Pair to CN5 and CN6, if used.
5. CN3 provides power to the Fan Controller Board (microcontroller) and is only required if using the fan alarm relay (K1A-K1C), airflow signal voltage (A2), and/or Modbus Communication (CN5 and CN6)
6. Component sizes and details adjusted for clarity. Actual components may vary with vendor availability and lead time.
7. All drawn lines to be completed by others in the field. All open-ended lines to be connected to an external device.

DV 1.1