

Fogco Custom Pump Electrical Panel

- 1) Panel Mount Switch – This is the main cut off for power supply to the pump. It is a 3 pole, two position, panel mount switch
- 2) Hour meter – This tracks total operating hours for the pump
- 3) PLC – This programmable microprocessor provides a number of important functions:
 - a) It can be programmed to provide any variety of specific operational requirements
 - b) It will accept any incoming signal(s) as a means to operate the system
 - c) It will provide the necessary ‘ON’ and ‘OFF’ sequencing for all the electrical components including fans, water valves, and motor
 - d) It will automatically disable the system and energize an indicator light if there is a loss of sufficient water supply for a defined period of time
 - e) It will monitor the system and provide notice when pump maintenance is required
 - f) It will provide electrical supply to indicator lights that display the pumps current status
 - g) It will track the hours of operation since the last maintenance
 - h) It will track the number of pressure loss faults
- 4) Indicator Lights – These panel mounted lights provide a visual indication of the current status of the pump. They include Green (pump or individual zone ‘ON’); Red (loss of sufficient water supply); and Amber (maintenance required)
- 5) Exhaust Fan – This provides the necessary air movement and cooling within the pump enclosure
- 6) Contactors – These components will provide the necessary power to the pump motor or to Revolution Fog Fans upon receiving a start signal from the PLC
- 7) Circuit Breaker – This component will protect the pump from thermal overload conditions as well as protect the pump and the end user from a short circuit in the pump’s electrical system
- 8) Cube Relay – This component is used to provide the necessary bridge between the controller’s incoming signal and input to the PLC. It is only used when the controller’s incoming signal and the required PLC voltage input are different
- 9) Terminal Blocks – These are used to make the necessary connections between the pump, the external controller, and Revolution Fog Fans (when the pump is providing the fans power supply)
- 10) Fuses – These are included in the pump design to provide additional thermal and short circuit protection for individual components within each of the electrical circuits for the pump
- 11) Transformer – This component provides the necessary voltage for typical humidistat controllers that require 24VAC power supply

