



Air Injection System Control Box Users Manual 230V



This Air Injection System Control Box is used to monitor and control the air injection system. It utilizes 230V power and plugs into any standard 15-amp receptacle. Water and air are fed into the box using ½" low pressure tubing. The output is automatically controlled by electric solenoid valves and adjustable pressure regulators.

The Control Box includes the FOGController II dual relay microprocessor with built in humidity sensor. The sensors are fully calibrated reflow humidity sensors with digital output that sends binary data over RS485 protocol with an accuracy of +/- 2%. The sensors follow typical SHT15 standards.

The box is designed to be placed in the area to be humidified. Once the humidity and hysteresis settings are programmed, the system is ready to operate.

The controller includes 2 relays with programmable delay. The first relay will open the air valve and the second relay will open the water valve.

Depending on the air nozzle being used, the air and water pressure should be set as detailed below. The settings can be increased and decreased by turning the dial on the top of each regulator in the proper direction as indicated on the dial. The outgoing water and air pressure are indicated on the gauges on the front of the control box.

| Desired Output | Liquid | Air |
|----------------|--------|--------|
| 6 lb * | 10 psi | 10 psi |
| 8 lb + | 10 psi | 20 psi |
| 10 lb + | 10 psi | 15 psi |
| 12 lb * | 20 psi | 18 psi |
| 14 lb + | 20 psi | 26 psi |

* 6 lb / 12 lb output uses the same nozzle with varying pressure settings

+ 8 lb / 10 lb / 14 lb output uses the same nozzle with varying pressure settings

For long runs of feed line to individual nozzles (in excess of 100 feet), add 10% to the pressure readings listed above to account for pressure loss.

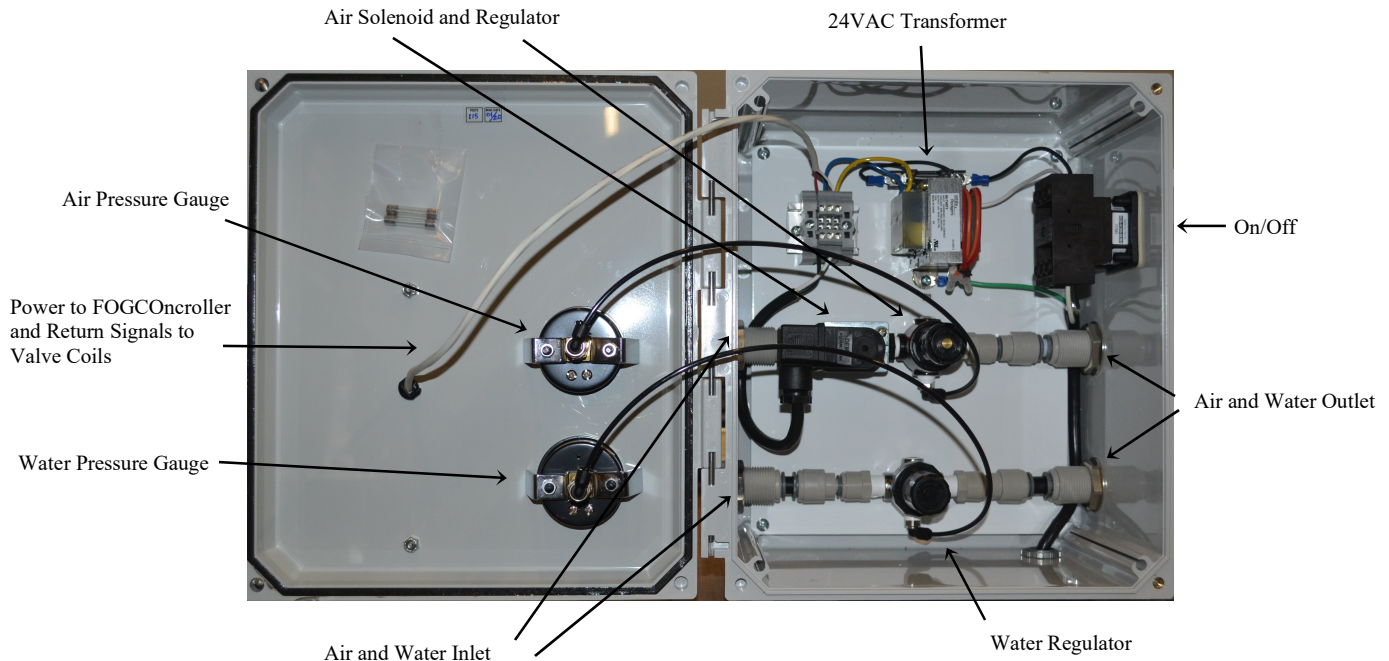
Notes

- Start the system with air/water pressure at zero. Adjust the air pressure first, then the water pressure.
- The 90-degree fittings on the pressure gauges and regulators are designed to swivel to allow the opening and closing of the control box door.

Programming

Once the FOGCOtroller II is powered up, the display will show the current humidity level, the humidity set point and the hysteresis set point. To change the set points or to set the relay delays, press the Menu button.

- Use the Up and Down buttons to set the desired humidity level. Press the Menu button when done.
- Use the Up and Down buttons to set the hysteresis set point. Press the Menu button when done.
- Use the Up and Down buttons to set the delay start for Relay 1. Press the Menu button when done.
- Use the Up and Down buttons to set the delay stop for Relay 1. Press the Menu button when done.
- Use the Up and Down buttons to set the delay start for Relay 2. Press the Menu button when done.
- Use the Up and Down buttons to set the delay stop for Relay 2. Press the Menu button when done.



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