

Arch Environmental Equipment, Inc.

FOGGER SYSTEM

INSTALLATION INSTRUCTIONS

TOOLS REQUIRED:

Adjustable Wrench
Pipe Wrench
Pipe Thread Sealant or Teflon Pipe Tape

A qualified electrician will be required for making the electrical connections on the pump.

***SHUTDOWN AND LOCKOUT CONVEYOR
BEFORE PERFORMING ANY MAINTENANCE***

STEP 1

Select an appropriate location for the pump to be permanently mounted. Ensure the pump will not be in area where it can be damaged by falling material, heavy equipment, or where continuous vibration is present. The wiring connections on the pump will vary with the different size pumps. Consult the pump manual included with the shipment for the correct wiring diagram. Ensure that only a qualified electrician connects the power (and controls if used) to the pump.

STEP 2

Mount the spray heads or bars in the location where dust suppression is required. Since the mounting structure will vary from site to site, use the best available method for your application. The on-site manufacturing of angle brackets and structures is the most common form of mounting hardware. The bars or heads are suspended from these brackets via cable or nylon rope. Heads and bars can also be held in place with band clamps.

STEP 3

Connect the hoses to the heads and to the discharge end of the pump. The discharge end of the pump is located where the pressure gauge and pressure relief valve are mounted. If any manifolds or valves are to be used, ensure all hoses are plumbed so these valves will work properly. If threaded connections are used, ensure all threads have Teflon tape or pipe sealant applied before tightening.

STEP 4

Connect the water supply line to the inlet of the pump. The filter and ball valve are located on the inlet side of the pump. **Do not remove the filter.** This will void all warranties on the pump. If the water supply is exceptionally dirty, additional filtration may be required. Consult the factory.

STEP 5

A test run on the pump is required to ensure all fittings on the pump, hoses, spray bars, and spray heads are tight and free from leaks. Make any adjustment needed to ensure there are no leaks. The pressure relief valve on the pump may need adjustment. Loosening the jam nut and turning the handle on the pressure relief valve will accomplish this adjustment. You should notice the pressure changing as you make this adjustment. The Fogger System should operate between 100 and 150 PSI (pounds per square inch).

NOTES

- a) Never “dead head” the pump. Shutting off the discharge flow while the pump is running will cause excess heat to build up in the pump barrel. This will damage the impellers and void the warranty.
- b) Ensure the rotation of the pump is correct. This is especially crucial on a three phase powered pump.
- c) Never use a garden hose to supply water to the pump. This hose will not supply enough water volume to the pump and will damage impellers and void the warranty.
- d) Never run the pump with the supply water shut off. This will damage the pump and void the warranty.
- e) Check the filter every day before operation for the first two weeks. This should give you an idea of how often to schedule a routine maintenance check of the filter screen.
- f) Inspect the nozzles on the spray bars and spray heads regularly (at least once a week). If the nozzles begin to plug or acquire a build up, remove the nozzle and clean it as required.

If you have any additional questions, please contact the factory at 800-553-4567, or you can send us e-mail at arch@aeec.com.



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