



## **Specifications helpful in design a tender sheet for a Dual pack Turbomist evaporator set**

### **Specification Sheet for dual pack evaporator.**

#### ***Fan Housing:***

Fan Housing must be made from 304 stainless steel or better material then coated with a chemical resistant powder-coating material such as 3M product, Scotchkote 134 or better. Fan housing shall have air stabilizer. Fan must be self-cleaning and be coated with a chemical resistant coating. Fan shall be driven by an independent shaft isolated from the drive motor output shaft and be supported by twin bearings system.

Fan shall be made to maximize air delivery by insuring that the minimum blade clearance is 50 thousands of inch tip clearance.

All grease points must be easy accessible and routed to the exterior surface of the unit.

Fan intake air shall be designed in such a way as to be secondary cooling for the drive motor; drive motor must also have its own cooling fan.

Fan intake guarding shall be designed to have opening no larger than 1 ½ inch square and be coated with chemical resist powder-coating material suchas ScotchKote 134 or better.

#### ***Air Distribution:***

Air distribution nozzle must be able to rotate to allow 280 degrees of adjustment of the spray angle. The air distribution nozzle must be made from 304 stainless steel or better material then coated with a chemical resistant powder-coating material such as Scotchkote 134 or better.

#### ***Water Atomizer:***

The water distribution manifold must be made of 304 stainless or better. It must have a quick disconnect system on the spray boom. The boom must be equipped with 30 Teflon nozzles that must produce an average of no more the 150 microns sized water droplets.

The water atomizer distribution system must be equipped with individual pressure measuring devices to allow operator to measure pressure at the spray boom.

***Motor:***

The motors must meet or exceed the industry standard of severe duty standards and the supplier must provide proof of this standard qualification.

***Safety:***

All rotating shafts etc. must be guarded and correct warning labels must be affixed.

***Pumping:***

Dual pack or equivalent pumping structure, all components that come in contact with the water source must be 304 stainless or better. The system must be equipped to provide a positive suction during shut down. The unit must maintain and or supply a minimum of 160 gallons per minute at 150 psi.

***Filtration:***

Unit must be supplied with a self-cleaning filter system on the intake side of the pumping structure and must exceed the requirements of the pump by 10%. Filtration system should be equipped so a single operator can raise and lower the intake system for ease of inspection or maintenance.

***Pumping Control:***

The pumping controls must provide for loss of prime or pressure shut down capabilities c/w warning lights of such failure. Optional remote start/stop from shore must be available

***Installation requirement:***

The unit must arrive assembled and be able to float on surface of the pond and support a minimum of twice the weight of the evaporator dual pack system & equipment. The unit must come with hand rails installed around the perimeter of the flotation system and must have gates or safety chains on entrance areas. Flotation device should be constructed from a non-corrosive material and should be compartmentalized.

***Warranty:***

Manufacturer must supply one-year parts and labor warranty on the unit, including floats, evaporator and pumping on a dual pack.