



### FanMist (List of) Equipment Shipped to Project Locations

This document is most useful as a guide to review of all equipment which comprises a humidification project that is shipped to a project location for installation and startup.

- Verify all equipment is accounted for at project site to correspond with equipment as listed in the equipment package on the original quotation..
- Equipment is shipped directly from equipment manufacturers and suppliers to your facility. Generally, up to four vendors will be providing component shipments which will complete the total equipment package.
- Equipment Packages Consist of Standard Components and Optional Components as Noted:
  - a. The Pump Control Station Includes Standard Features:
    - 5 Micron Prefilter including housing, cartridge and wrench (the standard pump pre-filter is not included when this function is included in the water treatment system such as a reverse osmosis or DIBS (deionized blending system).
    - EDV (Electric Drain Valve) for one zone pumps OR 3/2 Valves for multiple zone pumps.
    - High Pressure Outlet line (custom designed for each project for one or two zone operation).
    - Programmable Logic Controller (PLC).
    - High Pressure Safety Switch (HPSS): Senses any immediate pressure drop in line and activates at 540 psi. shutting system down OR upon startup, if pump does not reach 1000 psi in factory set time (60 seconds), pump shuts down.
    - Indicator Lights (red, orange & green), Hour Meter & Pressure Gauge.
    - 24 Vac for Nepronic Humidistat signal and motor start (requires 18/3 cable for 24V Signal).
    - 24VAC start signal out to Fan Contactor Relay Junction Boxes for Fans via 18/2 cable.
    - Tri-Plex Plunger – Pulley Drive Pump within Enclosed Housing mounted on White Pump Stand.
    - Fan Control integral with PLC.
    - Stand alone Toggle Switch to operate fans on/off/zone separate from pump operation – factory wired ready to use.
  - b. Pump Control Station Includes Optional Components (based on project requirements):
    - 3 Phase Power.
    - VFD (Variable Frequency Drive).
  - c. Nepronic Zone Humidistat Controller with Sensor (Standard).
    - One per zone.
  - d. High Pressure (1000 psi) Flexible Nylon Tube:
    - 500' and/or 100' x 3/8 Tubing Rolls (Standard) – 1/2" diameter (Optional depending on project requirement).
  - e. Slip-Lok Fittings:
    - 3/8" Three Way Tees in (Standard) – and/or 1/2" (Optional depending on project requirement).
    - 3/8" Couplings/Unions in (Standard) – and/or 1/2" (Optional depending on project requirement).
    - 3/8" Vinyl/Steel Wall Clamps in (Standard) – and/or 1/2" (Optional depending on project requirement).
  - f. Fans (Choices for Each Project):
    - 1/2 hp fans x 24" and/or 36" diameter.



### FanMist List of Equipment Shipped to Project Locations (Continued)

g. Mist Rings (may require final assembly of compression fitting, ball valve with slip-lok connection):

- 15" diameter single mist ring / 6 nozzle ports / 10/24 fem thread / SS / w/ ball valve assembly to receive 3/8" tube.
- 18" diameter single mist ring / 8 nozzle ports / 10/24 fem thread / SS / w/ ball valve assembly to receive 3/8" tube.
- 24" diameter single mist ring / 12 nozzle ports / 10/24 fem thread / SS / w/ ball valve assembly to receive 3/8" tube.
- Double mist ring consisting of 15" and 24" mist rings / 18 total nozzle ports / 10/24 fem thread / SS / w/ ball valve assembly to receive 3/8" tube.

Note: all mist rings are sized specific to match each of the fan sizes.

h. Nozzles (Standard Stainless Steel Nozzles with "Ruby Orifice Insert" / 1024 male thread / w/ 5 micron filter):

- IHC-2.64 / 2.64 lbs/hr (Black Band).
- IHC-3.97 / 3.97 lbs/hr (White Band).
- IHC-5.29 / 5.29 lbs/hr (Red Band).
- IHC-7.94 / 7.94 lbs/hr (Blue Band).
- IHC-10.58 / 10.58 lbs/hr (Gray Band).

Note: all stated lbs/hr/nozzle output capacity is factory tested @ 1000 psi with 5 micron nozzle filter.

i. Standard Spares & Maintenance Pak (contains spare parts and common maintenance items for each pump):

- Nozzles: two nozzles per fan for double mist ring and one nozzle per fan with single mist ring.
- Nozzle Plugs: one per fan (used to close off a nozzle port if necessary).
- Valve Kit #123: 1 per pump station for the high pressure side of the pump.
- Seal Kit #167 (includes 3 per pump station for 3 valves per pump / service packings & seals every 2000-2500 hours).
- Plunger Kit #159 (1 per pump station / Seals for the Oil Side of the Pump).
- 5 micron water supply pre-filter cartridges (1 per pump station / 9 & 3/4 x 5 micron).
- Prefilter wrench (1 per project).
- 2 each 16 oz pump oil for 2 oil changes per pump.