SpaceMist Industrial High Pressure Humidity Control System



SpaceMist 360° Horizontal Misting Fans

Humidity Control for ceilings as low as 8'

SpaceMist Featuring Ceramic Insert Nozzles - the Key to Low Maintenance -



CAP with Ceramic Insert



350 PSI SPRING ASSEMBLY for Zero Leaks & Precision Atomization



ANTI
DRIP
BODY
Prevents
Nozzle
Tip Drip &
Seepage



SpaceMist Features

- 1000 psi Atomized Water Evaporated Into 2100 cfm Velocity Air
- Automatically Maintains Relative Humidity Set Point (eg 45% @ 72°F).
- The "Shearing Effect" of High Velocity
 Air <u>Accelerates</u> Evaporation.
- Complete Evaporation within 20' Dia.
 Above all Equipment & Workspace.
- "No-Clog No-Leak" Ceramic Insert Stainless Steel Nozzles.
 - Aggregating 10 Nozzles for Easier Routine Maintenance.
- "Installer friendly" Flexible Hose & Slip-Lok Fittings.
- Built-In Flexibility for Making Changes or Adding More SpaceMist Fans.

SpaceMist System Specifications



- .5 gpm 1/2 hp Pump Control Station (110V): US Mfg 1000 psi direct drive pump preplumbed, prewired & tested ready to spray; 5 Micron Pre-Filter; Auto Stop for water disruption; Auto Pres sure Relief Electric Drain Valve.

 3 Year Warranty.
- Humidistat / Sensor Controller (Plug-In Type): Automatically operates the pump on/off cycle maintaining within ±3% of your humidity set point. 120V / 15 amps with large display screen.
- Flexible 3/8" High Pressure Hose: 3550 psi rated burst pressure hose requires only a cutting tool (included in spare parts kit).
- 3/8" Slip-Lok Fittings: Push-to-Connect nickel plated w/ locking ferrules & over sized O-ring for complete leak proof seal.
- 24" SpaceMist 360° Horizontal Misting: Quiet Axial Fan (64 Db) with a UL507 listed outdoor rated fan; White powder coated housing; Ceiling mount with bracket (mounts flush to dropped ceiling or chain hung); 2100 cfm 1/4 hp motor / 60Hz/110V/1.9 amps w/ 20' cord; Stainless steel mist ring/1/4" SS Ball Valve w/ 90 micron filter & 10 nozzles. 24" dia. x 9.75" h 25 lbs. 3 Year Warranty. All moisture evaporated within twenty foot diameter.
- Ceramic Insert Stainless Steel Nozzles (10 ea/SpaceMist Fan): Ceramic "no plug no stick" surface; 350 psi spring assembly for "zero leaks & drips"; all Viton seat / o-rings high wear resistance.
- Spare Parts / Installation Materials: Includes 1 extra nozzle, 2 nozzle plugs & tube cutter & Install materials.

SpaceMist System Operational Information

- Warranty: 3 year system warranty except filter, three years pump station & SpaceMist Fans.
- Pump Operating Cost: 180 days/year (60% op. time) = \$87/year.
- Fan Operating Cost: 180 days/year (100% op. time) = \$45/year/fan.
- Load Formula for Sizing System: Total Area ft³ x (grains/lba 8 grains/lba) x air x's/hr ÷ 13.5 ft³/lba x 7,000 grains/lba = Total lbs/hr of moisture to be added.
- "Installer Friendly" Installation: SpaceMist Fans are ceiling hung above all equipment and workspace and daisy chained together by a 3/8" flexible hose & slip-lok fittings from the pump station. The pump station is plugged into the plug-in sensor, located in the area being humidified AND in proximity of a drain to allow a slight pressure release in the hose during cycle off.
- Routine Maintenance: Change: 1. Pump oil once/month; 2. Pre-Pump 5 Micron Water Filters every month; 3. Post Pump 90 Micron Filters (change/check yearly); 4. Flush/drain water lines before season startup.

Operation: Automatically maintains RH "set point" for from a ± 3% RH zone sensor which cycles on/off the pump control station supplying 1000 psi water to each SpaceMist Fan (fans run continuously).