GOFOG

Humidification and Evaporative Cooling

www.gofoginc.com

Technology

Methodology

Pressure is added to purified water by the GoFog™ Pump Unit which is then dispersed through our advanced atomizing fog nozzles. This generates billions of tiny fog droplets that can be injected directly into a room or HVAC system. This is all done with a small horsepower pump and requires no compressed air. The tiny fog droplets easily evaporate by using the heat energy from the surrounding air.

Latest Nozzle Technology

Expertly crafted stainless steel GoFog™ Nozzles with integral anti-drip and redundant water filter provide consistent fog droplets that are less than 20 microns in size. The nozzles are evenly installed on stainless steel manifolds to provide uniform distribution.

Water Treatment Systems

Before your GoFog™ System is installed, a water sample is sent to an independent lab for analysis. We provide the proper water treatment equipment for your application ranging from simple cartridge filtration to advanced Reverse Osmosis Systems. GoFog™ provides a turnkey solution that meets your specific requirements but also has the flexibility to grow with your company.

GoFog™ Reverse Osmosis System						
Model	**MRO-2500**	**MRO-5400**	**MRO-7200**	**MRO-10800**	**MRO-14400**	**MRO-22000**
Maximum Output (GAL/DAY)	2,500	5,400	7,200	10,800	14,400	22,000
Maximum Output (LBS/HR)	850	1,875	2,500	3,750	5,000	7,500
Maximum Output (GPM)	1.7	3.75	5.0	7.5	10.0	15.0
Pre-treatment	5 micron pre-filter, carbon filter, water softener					
Post-treatment	UV sterilization, storage tank, recirc pump, transfer pump, bladder tank					
Storage Tank (GAL)	160	300	425	500	1000	1500
Bladder Tank (GAL)	40	40	40	80	80	80
Assembly Options	Skid mounted factory assembly or field assembly loose components					
Product will vary based on feed water temp and quality. Output based on 77F water temp and 500 ppm TDS.						
Please ask your GoFog representative for a proper selection based on your specific water quality.						

Reliable Pump Stations

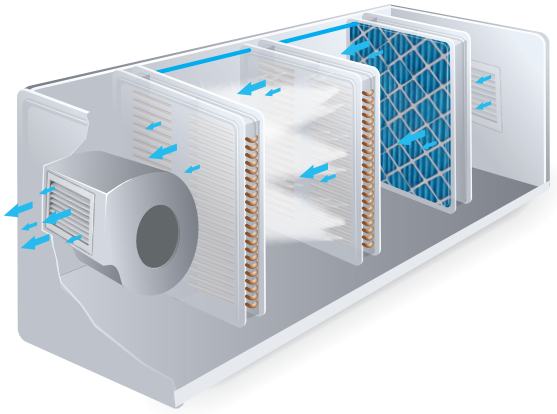
The GoFog™ System uses the most dependable high pressure pumps on the market today. A Variable Frequency Drive (VFD) provides a soft start and maintains the 1,000 psi operating pressure as the system modulates output. This not only guarantees an efficient use of energy but also a quiet low maintenance operation.

GoFog™ Pump Stations				
Model	**GFP-800**	**GFP-1750**	**GFP-3600**	**GFP-6000**
Maximum Fog Output (LBS/HR)	800	1,750	3,600	6,000
Maximum Pump Flow (GPM)	1.6	3.5	7.2	12.0
Operating Pressure (PSI/BAR)	1,000 / 69			
CAT Pump Model	3CP1231	5CP6251	7CP6111	2511
Direct Drive/Belt Drive	Direct	Direct	Direct	Belt
Maximum Pump Speed (RPM)	1,200	1,200	1,200	870
Pump Motor (HP)	3.0	5.0	10.0	15.0
ABB VFD (HP)	3.0	5.0	10.0	15.0
Full Load Amps (460V)	4.5	6.9	14.0	19.5
Weight (LBS)	450	550	650	750
Inlet Water Connection	3/4" FNPT	3/4" FNPT	1" FNPT	1" FNPT
Pump Cooling	Bypass to RO storage tank or finned-tube heat exchangers			
Controller	Horner XL4 OCS with 3.5" Color Touchscreen			
Communication	Modbus, BACnet, LON, and others available. Please specify the required BMS protocol.			
Overall Dimensions (WxHxD)	34" x 29" x 65"	37" x 29" x 65"	40" x 29" x 65"	48" x 34" x 72"
* Additional pump rack sizes are available. Please ask your GoFog™ representative for further information.				

Commercial Humidification

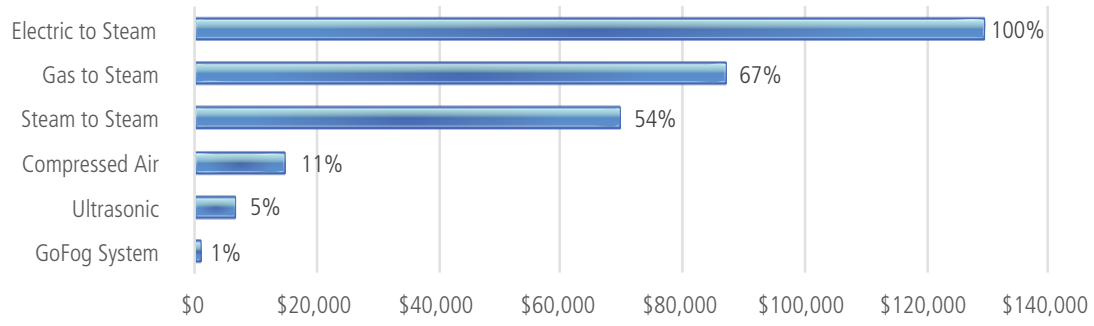
The benefits of accurate humidity control in a building's HVAC system are well documented but proper application and advanced technologies are often overlooked for more traditional methods. The GoFog™ System provides a wide range of benefits using the latest methods and technologies.

- Since the surrounding air provides the energy for evaporation, we only use a fraction of the energy used by traditional humidifiers. Providing a return on investment in less than one year in many cases.
- Our small equipment footprint ensures an easy installation. Custom skids are also available for any special requirements.
- Demineralized water (Reverse Osmosis) provides humidity without adding any harmful chemicals or minerals to your building's HVAC system.
- A redundant pump system with automatic switchover is easily integrated for critical applications.



- Precise humidity control (+/-1%RH) can be provided by modulating the fog output with staging valves.
- Utility rebates for using the GoFog™ System are available in most cities.

Annual Energy Cost of Humidifiers



Factors: 1,000 lbs/hr, 3,500 hours, $0.065 kWh, $1.20/therm

Industrial Humidification

Process and product stability results in less waste and downtime for your manufacturing operation. The GoFog™ System offers precise humidity control with minimal energy usage.

- Fog nozzle lines mount above the aisle ways for ease of installation without the need for shutdown of your manufacturing process.
- Heat at the ceiling level is used to evaporate the fog droplets reducing the building's cooling load while at the same time providing improved air mixing.
- Provides proper moisture content for textiles, wood, paper, and other moisture sensitive products.
- Precise humidity control has proven to be the most effective means of eliminating static electricity.
- Exceptional dust suppression system that improves indoor air quality (IAQ) and employee comfort.

Agricultural Humidification and Evaporative Cooling

Proper cooling and humidity control is critical when it comes to producing healthy plants. The GoFog™ System atomizes purified water into tiny fog droplets that provide accurate temperature and humidity control without over-wetting.

- Uses a fraction of the energy compared to traditional cooling systems.
- Extend your storage time with continuous hydration.
- Provides the ideal environment for propagation.
- All wetted components are stainless steel for superior durability.
- Easy to service and maintain.

Direct/Indirect Evaporative Cooling

Evaporative Cooling Technology has been used for centuries as an energy efficient means of reducing the ambient temperature. The GoFog™ System uses the latest technology to provide an environmentally friendly system for all of your cooling needs.

- Energy Efficient Data Center cooling when utilized with air side economizers.
- Evaporatively precool your air cooled condensers (ACCs) to near ambient wet bulb temperature.
- Get the most out of your lab's HVAC energy recovery by fogging the exhaust side recovery coil in the summer and use the same pump system to humidify the supply air in the winter and transitional seasons.

Additional Uses

Wine Barrel Storage

Maintaining humidity levels allows for a consistent product that can be easily repeated.

Cold Storage Facilities

Add moisture to maintain proper product quality and storage life.

Dust Suppression

Fog removes airborne particulate which improves indoor/outdoor air quality.

Odor Control

Odor causing molecules are easily removed with fog. Effectiveness can be improved with additives.

Fog Effects

Natural looking fog effects used for Zoos, Aquariums, Amusement Parks, as well as private residences.

3625 Centre Circle, Ste C, Fort Mill SC 29715
www.gofoginc.com | info@gofoginc.com

M. 803.220.0101
F. 803.220.0106