

# Texas Truck Factory Installs MeeFog™ Humidifier & RO Skid for Cleanroom



## Project Summary

When a truck manufacturer in Texas needed an industrial-grade humidification system to mitigate dust and contaminants in their factory cleanroom, they turned to MeeFog™. Mee installed humidification systems on four AHUs using two Model Mee-3 fog pump racks. An RO water treatment system was also provided that will serve both fog pump skids. The first pump rack is a Mee-3-SSG1200 that is sized for 4,000 #/HR to supply AHUs 1-2. The second pump rack is a Mee-3-SSC230 that will supply 1,000 #/HR to AHUs 3-4.

## Project Conditions

- Location: San Antonio, Texas USA
- Air Handling Unit: 180,430 CFM
- Mee's scope of work: Supply of fog pumps, staging valves, nozzle manifolds, mist eliminators & RO Unit. Supervision of installation and startup

## Humidification System Design

- Entering air: 72° F db / 45° F wb
- Leaving air: 47° F db / 45° F wb
- MeeFog™ nozzle count: 356
- Humidification capacity: 4,591 #/hr
- Max gpm/hp: 11.4 gpm @ 12 hp
- Humidification stages: 15



Pump rack 1 before installation



Pump rack 2 before installation

## Humidification Equipment Schedule

AHU TAG	Capacity						PUMP MODEL	NO. OF NOZZLES	NO. OF ZONE VALVES
	CFM	GROSS (#/HR)	EVAP EFF.(%)	NET (#/HR)	EAT db/wb	LAT db/wb			
PS-01	77,000	2,400	81%	1,934	72/45	47/45	Mee-3-SSG1200	150	5
PS-02	77,000	2,400	81%	1,934	72/45	47/45		150	5
PS-03	20,000	672	80%	536	72/45	47/45	Mee-3-SSC230	42	3
PS-04	6,430	224	83%	186	72/45	47/45		14	3
<b>Totals</b>		<b>5,696</b>		<b>4,591</b>				<b>356</b>	