

ACE Manifolded Systems – High Pressure (1000 psi) Humidity Control

Manifolded Humidity Control

For Specialty Applications

- Air Handling Unit (AHU)
- Makeup Air Unit (MAU)
- Special Nozzle Arrays



Operational Features

- **Control Configuration**
Matched to application from simple on/off humidistat to PLC based control with 125: turndown ratio.
- **Flexible Nozzle Positioning**
Nozzles are spaced as close as 9" from center to center.
- **All Stainless Steel Pipe**
304 & 316 stainless steel pipe, nozzles and wands.
- **Precision Welded Joints**
Computer welded nozzle fixtures.
- **5-45 Micron Atomization**
Fine water particles evaporate in 6-8' moisture plumes.

Operation

Automatically maintains "set-point" humidity control by $\pm 3\%$ accurate humidistat/sensor controlling the on/off cycle of 1000 psi water flow from the high pressure pump control station to all nozzles. Real time humidity is digitally displayed.

Configuration will match system output to varying load conditions where pump controller selects the correct stage valve combination.

System Components

- Heavy Duty High Pressure Pump Station.
- Stage Control allows step control of nozzle arrays with AHU or MAU (modulating control interface with pump station).
- Area RH humidistat/sensor.
- All Stainless Steel Pipe System constructed for manifolded and arrayed nozzle specifications.
- "Synthetic mineral orifice insert" stainless steel nozzles.