



High Pressure Evaporative Cooling for Dairy Cows



“We listened to what producers said they wanted and needed in a High Pressure Fog System and Fog Nozzle.”



High Pressure Fog System

- A Fog Nozzle which can be easily cleaned.
- A Fog Nozzle which has no external impact pin to wear or break.



- A Fog Nozzle which is stainless steel.
- A Fog Nozzle which maintains a consistent pattern year after year.
- A Fog Nozzle without individual nozzle filters which are labor intensive to change.
- A reliable High Pressure Pump System.
- An integrated System Controller.
- A system where no welding of spigots or fittings is required.

The PolAIR High Pressure Fog System, a Complete System, which includes:

Stainless Steel Atomization Line
Stainless Steel Nozzles / Anti-Drip, Check Valves
PolAIR High Pressure Pump System
PolAIR 400HC Controller
Temperature and Humidity Sensors
Brass Compression Fittings
Suspension / Installation Hardware
Stainless Steel Compression Fittings are Available

Every PolAIR System is custom designed and engineered using proprietary software, taking into consideration ambient temperatures & humidity, structure design and ventilation. VAL-CO Environmental Engineers use this information to design a PolAIR System to meet the growers requirements for environmental control.

APPLICATIONS / BENEFITS

PolAIR Fog Cooling

- ☑ No cooling pads to replace
- ☑ No temperature differentials
- ☑ Can achieve cooling in natural ventilated structures
- ☑ No structural modifications required
- ☑ Ideal temperature for dairy cows is 41°F – 77°F
- ☑ Prevents the use of the cows energy to cool themselves via surface skin and breathing (panting).
- ☑ Maintains normal feed intake, thus maintains milk production
- ☑ It's a known fact that when the ambient temperature is above 90°F, dry matter intake drops 8-12% with milk production losses of 20-30% (9-25 lbs/day). 1 lb peak daily yield = 225-240 lbs per lactation. 9 lbs loss is equal to 2,000 lbs per lactation.
- ☑ The PolAIR High Pressure Fog System brings cool morning temperatures to hot afternoons thus alleviating the above conditions.

PolAIR Humidity Control

- ☑ More efficient use of water / better control when compared to low pressure mist systems

PolAIR Chemical Applications

The PolAIR High Pressure Fog System generates billions of micron sized drops, which cover a large surface area, thus providing excellent coverage for disbursement of chemicals.

- ☑ Insect control
- ☑ Whole house disinfecting
- ☑ Applications of fungicides

To obtain more information or to find a PolAIR Distributor near you, please contact:

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