

# APPLICATIONS PUMPS



## MIST COOLING TEMPERATURE CONTROL SYSTEM

File No. 124

### Section 9

#### PROBLEM:

To find a more efficient and effective poultry cooling system.

#### SOLUTION:

Install a high pressure fogging system.

#### SPECIFICATIONS:

CAT PUMPS Model .....	*430	*1010
Pressure .....	600 PSI	600 PSI
Flow .....	5 GPM	12 GPM
Temperature .....	Ambient	Ambient
Fluid .....	Water	Water
	(scale remover)	(scale remover)
Duty Cycle.....	Continuous	Continuous
	during season	during season
Drive.....	2 H.P. Electric	5 H.P. Electric

*\*Every system is specialized depending upon type of poultry, temperatures and size and type of facility.*

#### BENEFITS:

- Reduces bird loss from thousands to almost NONE.
- Extends breeding period of poultry.
- Also functions as a dust suppressor.
- Increases egg production and egg size.
- Reduces water and energy consumption.
- Results in cleaner, drier surroundings.
- Reduces evaporation pad cleaning or replacement and labor costs involved.

#### OPERATION:

Traditional methods of preventing poultry from collapsing due to heat stress are rooftop sprinklers, water sprayed directly on birds and evaporation pads. These methods often consume considerable water, have inconsistent temperature control or result in water saturated birds causing pneumonia and death. Consistent control of excessive heat is a major concern of the poultry farmer as temperatures above 90°F slow down egg production, reduce egg size and can result in the death of thousands of birds.

Poultry specialists have developed misting systems using a new procedure in evaporation cooling, that has proved remarkably successful and results in immediate and consistent cooling.

These misting systems create a artificial fog by pumping water through specially designed nozzles at 300 to 500 PSI. The fog surrounds the birds keeping them evenly cooled without saturation much like an air conditioner but far less costly to operate.

*“Customer confidence is our greatest asset”*

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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*The Pump with "Nine Lives"*

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