

In addition, studies into cholesterol metabolism are under way using quail at the new research center at Penn State.



The cage layer building includes six floor pens, a cage layer room for 3,000 hens, laboratory, egg cooler, processing, and storage. Twenty-four turkey growout pens measure 10 square feet each. Leach, right, speaks to tour group members.

Scope Of Poultry

(Continued from Page 5)

to find out how we can intercede in this through nutrition or environmental management and genetics. How can we minimize this kind of loss?

"Roughly, five percent of losses are due to skeletal decline diseases. They're almost a way of life. We'd like to reduce that fact."

Other studies include ways to reduce the size of the yolk and the cholesterol in an egg, the role of cholesterol in egg metabolism, ways to reduce nitrogen and phosphorous content of manure through feed management, and a host of others.

Month by month, birds are moving into the buildings set aside for them.

Following is a description of the facility by building.

Fundamental Research Building

This 8,700 square foot building, with a capacity of 1,000 birds, includes a 12-foot by 16-foot environmental chamber which can also be closely controlled and monitored. This precision monitoring is a factor when checking on certain genetic strains of birds and their growth and health under certain types of conditions.

(Turn to Page 11)

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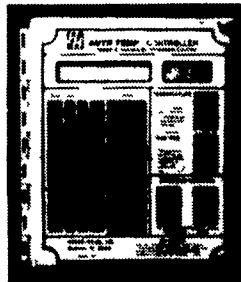
AUTO TEMP

12-Stage Automatic Environment Control

This versatile programmable controller lets you design your own system.

Auto Temp's on-screen program guides you through your options and makes building set-up a breeze

Unique Face Pad design gives a complete picture of the 12-stage set-up and displays whether or not each stage is running



Features

- Temperature reduction by day (ramping)
- Heat/Cool protection (keeps heaters and fans from fighting each other)
- Independently controls from one to six heaters
- Any stage can be programmed for heat or cool
- Up to 6 light cycles
- Timer Fan Control with outside temperature reduction
- Most-used functions are one-touch control
- Capable of 7 inputs and 14 outputs
- Displays temperature in Fahrenheit or Celsius
- Daily flock information
- Up to 4 timed feed cycles

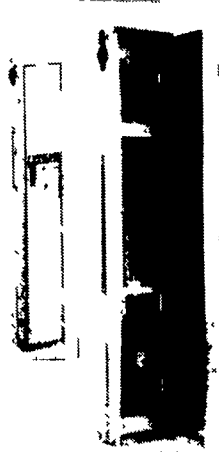
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Automatic System for Curtains, Vents and Doors

A new standard in Power Units is set with the introduction of **PowerTrak™**, the second generation of super-strength power pulley systems from Hired-Hand.

Completely redesigned with service in mind, **PowerTrak** boasts many new performance and durability enhancing features while maintaining the strong points of its popular predecessors, **Power Curtain** and **Power Vent**.



Features

- Modular construction for ease of service
- 5000 lb capacity
- Built in Head Bracket with needle bearing pulleys
- Channel Lock Trak-Drive system captures load block
- 15 percent increase in load block support surface for greater life.
- New easy-adjust springcam limit switch system
- New convenient hinged springlock door that is easily removed
- Greater protection from the elements

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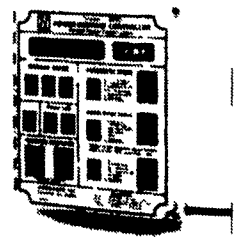
POWER CURTAIN

8-Stage Curtain & Ventilation Control

This versatile controller with programmable table makes house set-up as easy as A-B-C! Just follow the menu.

COORDINATION & MANAGEMENT
The System 2000 8-Stage Controller will coordinate all functions of your operation. It manages your heaters, fans, foggers and curtains (or doors). The system can carry you from negative ventilation (fans and heaters) to natural ventilation (curtains open) to tunnel ventilation automatically.

INTEGRATED OPERATION
All operations are integrated into one control system. You choose your type of ventilation - tunnel, conventional or positive pressure and the System 2000 will do the rest.



Features

- 5 Programmable Stages
- 4 Independent Sensors
- Light Control for Pullets
- House Lighting Control
- Optimum Curtain Adjustment (determined by difference between inside and outside temperature)
- Temperature reduction by day (Ramping)
- Dual Fan Timer Control
- Handles two Power Units independently
- Constantly displays house conditions!
- User Selectable Temperature-dependent Timer

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SUPER SAVER XL

Agricultural Inside Mount Heater for Poultry and Livestock Confinement Buildings

The Super Saver XL is a highly efficient direct-fired gas circulating heater designed for suspension mounting in houses of all ages and classes of poultry and livestock.

New side swinging door design gives easy access to internal cabinet with the new Service Saver control unit and powerful blower motor.



Electronic HSI Ignition

HSI Ignition is standard on Super Saver. Components are neatly arranged with ample room for servicing and cleaning. The heating chamber is made of high temp aluminum steel which provides superior rust prevention. The cast iron burner is enamel dipped to eliminate dust adhesion and rust. Surrounding air intake increases combustion and heat chamber efficiency. Look for this important feature in other heaters of this type.

New duct features user adjustable heat deflector designed to suit individual needs.

Modular control panel and quick disconnect wiring harness make field service a snap!

Features

- Easy-access electrical control unit
- Quick disconnect wiring harness for easy service
- Diagnostic light for troubleshooting ease
- Electronic hot surface instant-on ignition
- 225,000 BTU LP or natural gas
- Available in Stainless Steel or Galva-Zinc finish
- Duct with user-adjustable heat deflector
- High Temp aluminum burn chamber and blower housing
- Remote thermostat with piggyback cord set for easy installation
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