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CONTROLS

GROTRON® ELITE ALL SEASON GREENHOUSE CLIMATE CONTROLLER

- 5 COOLING STAGES**
- 2 HEATING STAGES**
- AIR CIRCULATION STAGE**
- DIF CAPABLE**
- DAY/NIGHT HEAT SET BACK**



The Acme Grotron® Elite control system automatically provides control of temperature and circulation with state of the art technology.

FEATURES

- LARGE EASY TO READ DISPLAY
- AUTO/OFF/ON TOGGLE SWITCHES FOR EACH STAGE
- LIGHTED STATUS INDICATORS PER STAGE
- LIGHTED STATUS INDICATORS FOR PROGRAMMING FUNCTIONS
- STORES HIGH AND LOW TEMPERATURES
- INCLUDES TEMPERATURE SENSOR AND PHOTOCELL
- OPTIONAL DEHUMIDIFY MODE
- EASY INSTALLATION AND MAINTENANCE
- GASKET SEALED ENCLOSURE
- PROVEN MICROPROCESSOR CONTROL
- HOLDS ALL SETTINGS DURING POWER INTERRUPTION

CAPABILITIES

- FRONT PANEL PROGRAMMING
- TEMPERATURE ACCURACY $\pm 1^{\circ}$
- DIGITAL READOUT
- DAY/NIGHT TEMPERATURE SETTINGS
- DIF HEATING AND COOLING CONTROL
- USER SELECTABLE TEMP DIFFERENTIAL, SEPARATION, AND TIME DELAYS
- LOCKABLE WEATHERPROOF ENCLOSURE
- 24 VAC OPERATION
- COMPACT 8.5"W X 10.5"H X 5.5"D
- FAHRENHEIT OR CENTIGRADE

DESCRIPTION

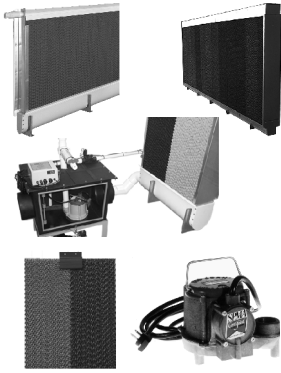
Energy is a prime concern today of all greenhouse operators. Acme's high efficiency ventilation and cooling equipment is matched with Acme's Grotron® Elite for proper sequence control to use minimum energy in maintaining the desired greenhouse environment. The Grotron® Elite is simple, flexible, complete and economical.

The Grotron® was designed from a grower's point of view. Good management is very important to any successful and profitable greenhouse operation and this is especially true when it comes to the control of the greenhouse environment. Proper setup of the environmental controls will maximize energy savings while providing the optimum greenhouse environment.

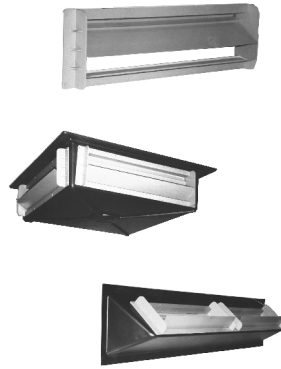
The Grotron® Elite can use either DIF or nighttime heat setback. The photocell will automatically place the unit into the proper operating mode. The control has two heating stages allowing for economical fuel usage. The five cooling stages will properly stage the fans and evaporative cooling equipment in small to medium size greenhouses.

The unit is housed in a rugged sealed enclosure, which may be mounted inside of the greenhouse environment, or remotely in the management area. The unit is shipped with one temperature sensor and 100 feet of sensor wire. All wiring utilizes a safe 24 VAC power. The equipment is controlled by remote power relays or with the optional power relay panel.

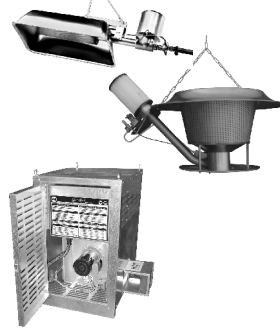
EVAPORATIVE COOLING SYSTEMS



AIR INLETS



DIRECT FIRED INFRARED HEATERS



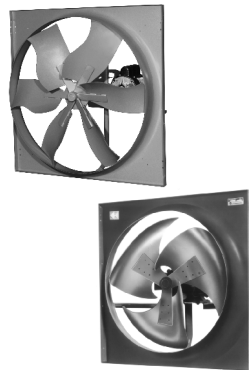
LIGHT TRAPS



CONTROLS



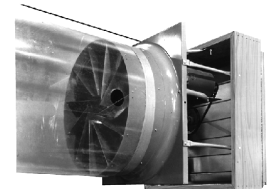
PROPELLER WALL FANS



CURTAIN MACHINES



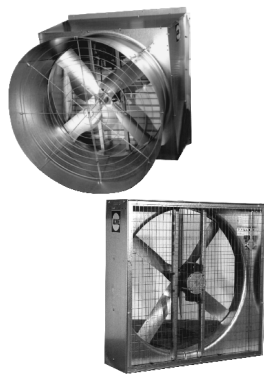
SUPPLY AIR FANS



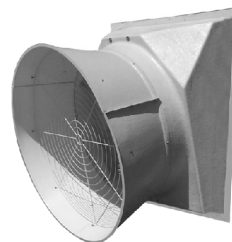
SHUTTERS



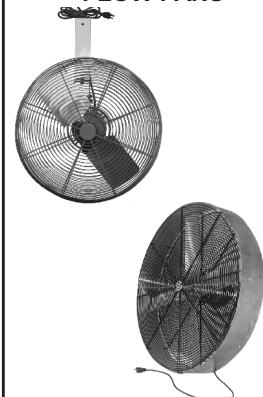
ECONOMY GALVANIZED FANS



PLASTIC/FIBERGLASS FANS



HORIZONTAL AIR FLOW FANS



LIMITED WARRANTY Acme Engineering and Manufacturing Corporation extends this limited warranty to the original purchaser and warrants that products described herein shall be free from original defects in workmanship and materials for two years from date of shipment (except for Acme's exclusive duplex split pillow block bearings and shaft 5 years from shipment, belts one year from shipment, and polyethylene tubing at 90 days from shipping, AIR40 Heater warranty one year from date of shipment, AIR40 Emittter warranty three years from date of shipment and DDP fan lifetime warranty on its propeller, cone, and housing), provided same have been properly handled, stored, installed, serviced, maintained and operated. Refer to Form MS149 for complete limited warranty terms and conditions. This form is available to anyone at www.acmefan.com. The Company's warranty is in lieu of all other warranties, express or implied, arising by law or otherwise, including without limitation the implied warranties of merchantability and fitness for a particular purpose,

which are hereby expressly disclaimed claimed and waived.

Acme products are designed and manufactured to provide reliable performance but they are not guaranteed to be 100% free of defects. Even reliable products will experience occasional failures and this possibility should be recognized by the Purchaser and End User. If these products are used in a life support ventilation system where failure could result in loss or injury, the Purchaser and End User should provide adequate back-up ventilation, supplementary natural ventilation or failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.

WARNING DO NOT use in HAZARDOUS ENVIRONMENTS where fan's electrical system could provide ignition to combustible or flammable materials unless unit is specifically built for hazardous environments. Comply with all local and national safety codes including the National Electrical Code (NEC)

and National Fire Protection Act (NFPA). Guards must be installed when fan is within reach of personnel or within seven (7) feet (2.134 m) of working level or when deemed advisable for safety.

DISCLAIMER The Company has made a diligent effort to illustrate and describe the products in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose.

INDEMNITY Purchaser acknowledges various warnings by the Company regarding the products and its installation and use. If the Company incurs any claims, lawsuits, settlements, or expenses (including attorney fees) for any loss, injury, death or property damage including, but not limited to, claims arising out of the Purchaser's or any end user's installation or use of the products, the Purchaser shall indemnify and hold the Company harmless.



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