COOLING SYSTEM WIRING

HEATING SYSTEM WIRING

COMPRESSOR

NOTES ON ELECTRICAL WIRING

1. Heat and ventilation fans are wired to prevent operation at same time. Any heat thermostat (e.g., temperature-sensitive device) is wired to prevent operation of ventilation fans until it returns to normal operating temperature. This prevents the overheating of the greenhouse.

2. All wiring must be installed in conduits or other protective devices to prevent damage from water and frost. The conduits must be securely fastened to prevent movement. The conduits must be insulated to prevent damage from frost.

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NOTES:

1. Water can be circulated through PVC pipe in deep area. On smaller plants, pipe may be placed on floor or raised to heat only some of plants. This results in heating larger areas if pipe size is increased. Some growers use only bed heating. Some growers report decreased freezing time for cutting with deep or part zone heating.

2. Water circulation may be used in addition to bed heating in some cases. Careful design of heating system is important. Always use of heated water to cool pipes is not recommended.

3. Bed heating should be included in case of whole or in combination with other heating methods. When bed temperatures are low, the use of heated water will help to maintain bed temperature.

4. Parallel connection gives more uniform heat distribution. Best for larger areas.
Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.