

SOLAR SPACE AND WATER HEATING SYSTEM

RS 360

RS360 provides integrated control for solar space and water heating combined with conventional fuel heating systems.

Solar energy will supply heat, when possible, and conventional systems supplement only when needed, thus providing the highest possible efficiency for the system.

The complete system requires a large storage tank to collect and hold the supply of heat needed during periods of low solar radiation.

The RS360 Rho Sigma control provides the "intelligence" of the system to maintain the highest degree of efficiency possible with optimum use of the solar energy collected.

The RS360 is capable of receiving four inputs from temperature sensors, and can be programmed to provide six functions. Requirements are different to meet the needs of geographical area and system design, such as type of freeze protection (if required). The versatility of the RS360 can meet your control needs.

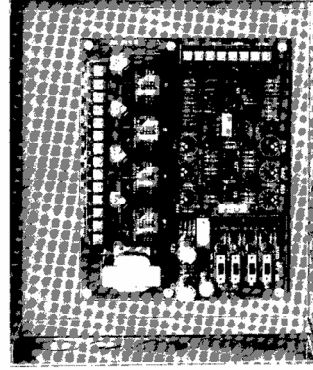
Typical RS360 — Control Functions

Collecting

Circulates media for heat collection when collectors are at a temperature 20°F higher than the storage tank. Pump is turned off when the temperature difference reaches 3.5°F.

Space Heating

When room thermostat is calling for heating and the storage tank is higher than 110°F the fan and coil unit turns on, heating the space using solar collected heat. If the storage tank is at a temperature less than 105°F, and room thermo-



stat is still calling for heat, the conventional heating system is turned on and controlled by the room thermostat.

Water Heating

Media is pumped from storage tank to domestic water tank, heating the water when the storage tank is 8°F higher in temperature than the domestic water. The pump will turn off when the temperature difference decreases to 3.5°F.

Freeze Protection

Installations requiring freeze protection for collector media can control recirculating, drain down or drain back protection methods.

Other Features Available

High temperature limit, low temperature limit as well as the addition of solar heat control for swimming pool or spa, and air conditioning, are available.