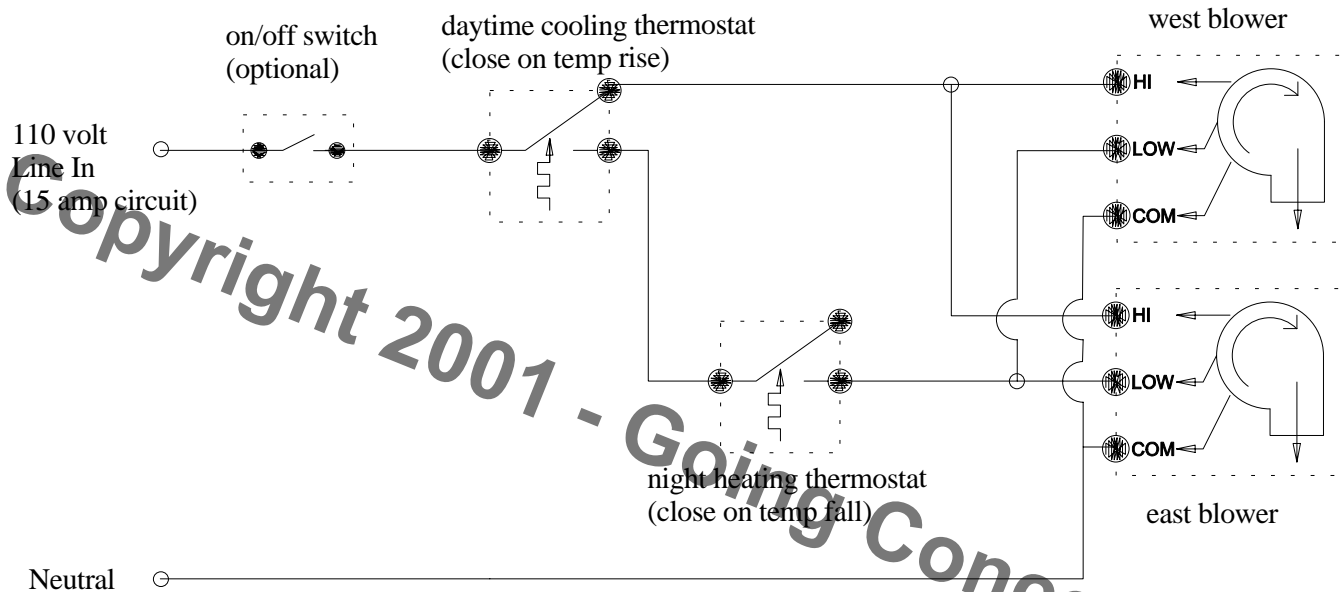


Woodland Gardens Greenhouse

Subterranean Heating and Cooling Sytem electrical schematic



Grainger's Catalog Parts List

- 2 - 5C508 2 speed direct drive blowers @ \$148.05 each
1450/1100 RPM; 3.2/2.07 Amps @ 110 VAC; 760/545 cfm, 335/215 watts @ 0.0" Static Pressure
- 2 - 4E047 SPDT remote bulb thermostats @ \$40.85 each
-30 - 100 Deg F., 3-12 deg differential, 8' remote cap tube length

NOTES:

To optimize thermostat settings, monitor soil temperature. Set the daytime t'stat to approximately 20 deg F. higher than soil temperature. Set the night t'stat to minimum desired air temperature.

Each t'stat has a remote sensing bulb on the end of a small diameter capillary tubing. The remote bulbs should be mounted out of any direct solar exposure. The daytime t'stat should be mounted 3' to 4' above grade to allow it to respond to solar gain in air temperature. The night t'stat should be mounted within 1' of the soil level to better monitor cool air.

This circuit will prevent both the high and low speed windings of the blower motors from being simultaneously energized. If this were to occur, motor failure is likely to occur within moments!

The optional on/off switch can be a standard box mounted household lighting toggle switch. If the circuit panel is conveniently placed near the circuit breaker can be used for disabling instead.