

SLIMLINE



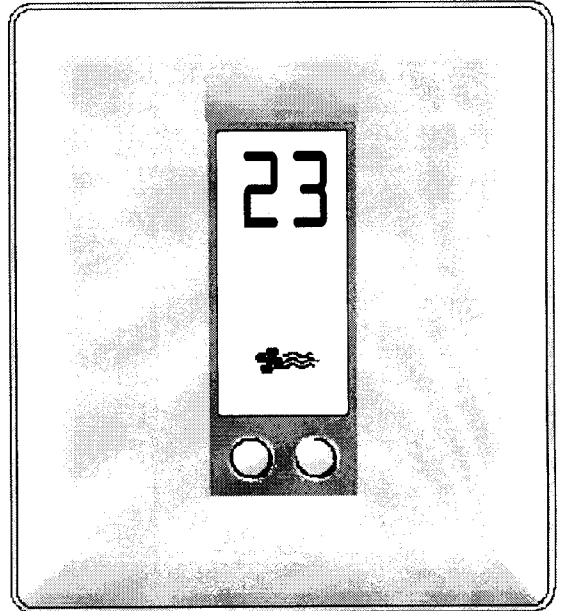
SHP-123

**SINGLE COMPRESSOR AUTO CHANGEOVER
HEAT PUMP MICROPROCESSOR BASED
CONTROLLER 2 HEAT/1 COOL 3 SPEED FAN**

GENERAL DESCRIPTION

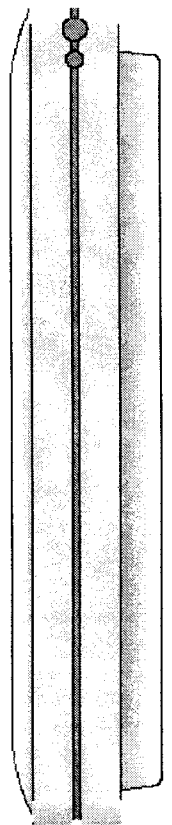
The SHP-123 single compressor Microprocessor based controller is designed for new or replacement residential /commercial heat pump applications. The SHP-123 represents the latest in solid-state surface mount electronics and manufacturing techniques incorporated into an extremely low-profile, ultra-slim white ABS plastic case.

The SHP-123 offers "user-friendly" control of the heat pump system with 3 speed fan, along with an easy-to-read vertical LCD that displays complete operating status. A direct-wire, easy-to-install subbase mounts directly on a standard vertical outlet box or any internal wall surface using supplied hardware provided.



STANDARD FEATURES

- Celcius temperature display
- Fan selector 3 speed fan
- Built-in short cycle protection
- Electronic circuitry replaces conventional mechanical anticipator
- Internal switch to lock-out the keypad to prevent unauthorized tampering
- No battery required (always maintains program and mode of operation following power outage of any duration) Except for real time which is maintained for 30 min outage.
- Copy feature to allow one program to be copied to subsequent days.
- Smart fan function(fan control with time clock)
- Built-in auxiliary heat light indicator
- 7 day programming with 2 or 4 events per day (selectable)
- 3 hour override (1 hour if keypad disabled via dip switch)
- Continuous override (hold)
- One free light indicator for HVAC equipment fault indication with switchable LCD icon
- Lockable access cover
- Selectable O or H1 reversing valve outputs
- Automatic changeover Heat / Cool
- Built-in anticipation and droop
- Independent circuit switching
- Selectable minimum run on/off time (2 or 4 minutes)
- HVAC equipment control using dry contact relays
- Remote indoor sensing modules
- Optional two zone control with ISOPAC6V-123 control interface +sensor switching

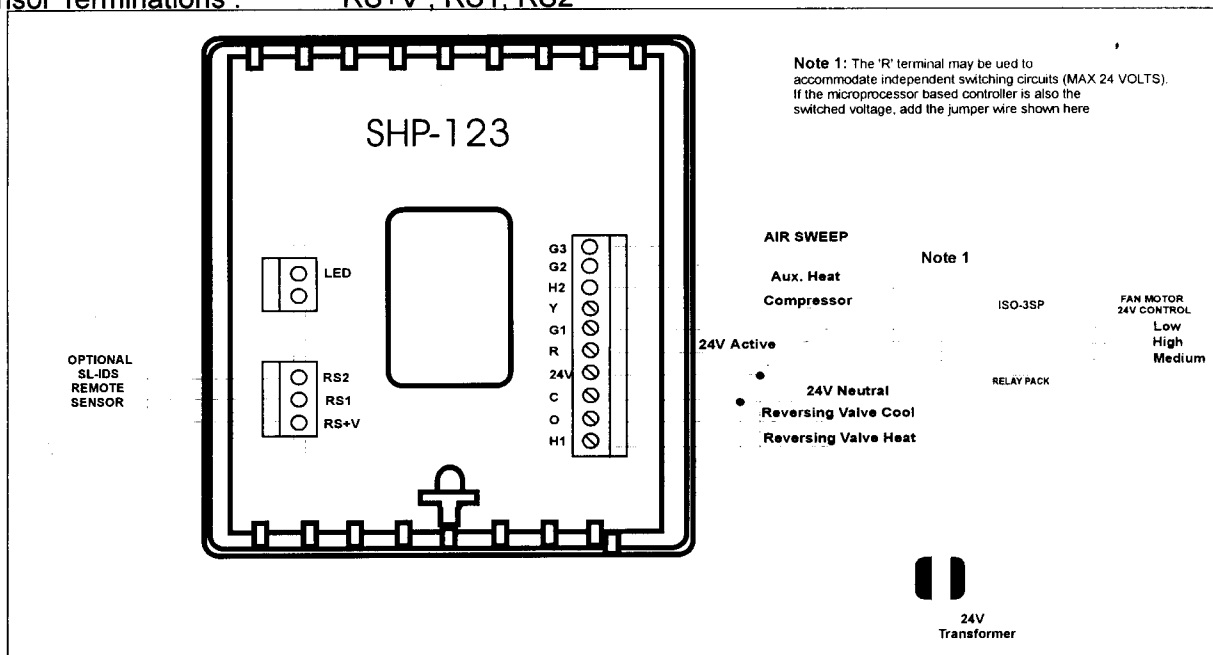


ACTUAL SIZE

SPECIFICATIONS



- Rated Voltage : 20 to 30Vac, DC 24 nominal
- Rated A.C. Current : 0.05 to 0.75 Amp continuous per output, with surges to 3 Amps maximum
- Rated D.C. Current : 0.0 to 0.75 Amp continuous per output, with surges to 3 Amps maximum
- Control Range : Heating : 6 to 30 degC in 1 degC steps
Cooling : 16 to 40deg C in 1 degC steps
- Temperature Controller Measurement Range : 0 to 48 degC
- Control Accuracy : +/- 0.5 degC @ 20 degC
- Minimum Deadband : (between heating and cooling) 1 deg C
- Dimensions : 114mm x 102mm x 22mm
- Equipment Terminations : R, O, H1,H2, Y,G1, G2, G3
- Power Terminations : 24V - power, 24V(c) - power common
- Remote Sensor Terminations : RS+V , RS1, RS2



OUTPUT TERMINAL FUNCTIONS

- | | |
|---|--|
| Y Compressor | R Independent switching voltage |
| G1 Fan output | 24VAC 24 Volts AC Active |
| G2 Fan output | C 24 Volts AC Common |
| G3 Air sweep | LED Free light for status indication (24vac) |
| H1 Energizes the reversing valve in heat mode | RS2 |
| O Energizes the reversing valve in cool mode | RS1 Use to connect indoor sensor |
| H2 Auxiliary heat output | RS+V |

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE