

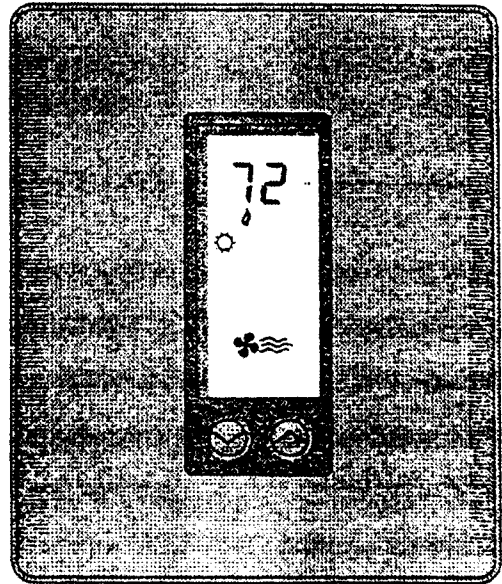
SLIMLINE

DSL-400

**SINGLE COMPRESSOR AUTO
CHANGEOVER HEAT PUMP
THERMOSTAT WITHOUT AUXILIARY
HEAT – 1 HEAT/1 COOL**

GENERAL DESCRIPTION

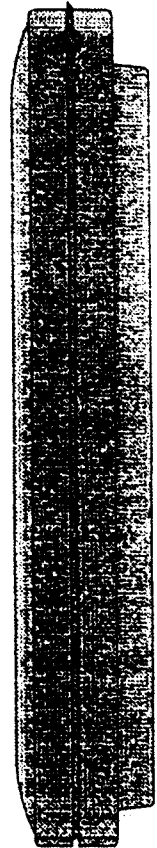
The DSL-400 single compressor thermostat is designed for new or replacement residential heat pump applications without auxiliary heat requirements. The DSL-400 represents the latest in solid-state surface mount electronics and manufacturing techniques incorporated into an extremely low profile, ultra-slim white ABS plastic case. The DSL-400 offers "user friendly" control of the heat pump system along with an easy-to-read vertical LCD that displays complete operation status. A direct wire, easy-to-install subbase mounts on a standard vertical outlet box or any dry wall surface using anchors and hardware provided.



STANDARD FEATURES

- Selectable Celsius or Fahrenheit temperature display.
- Fan selector for continuous fan operation.
- Built-in short cycle protection.
- Electronic circuitry replaces conventional mechanical anticipator.
- Internal switch to lock-out the keypad to prevent unauthorized tampering.
- 45 second fan purge after heating and cooling call.
- Day/Night button for user selectable alternate setpoint manual setback.
- Does not require a battery (always maintains the last setpoint and mode of operation following power outages of any duration.)
- Selectable O or B reversing valve outputs.
- Lockable access cover.
- Remote clock terminals.
- Outdoor temperature sensor (optional).
- Indoor remote temperature sensor (optional).
- Thermostat outputs using relays.
- Independent circuit switching.
- 2°F (1°C) minimum Heat/Cool separation.
- Built-in anticipation & droop.
- Minimum on/off times (2 or 4 minute selectable).

NOTE: Specifications are subject to change without notice.

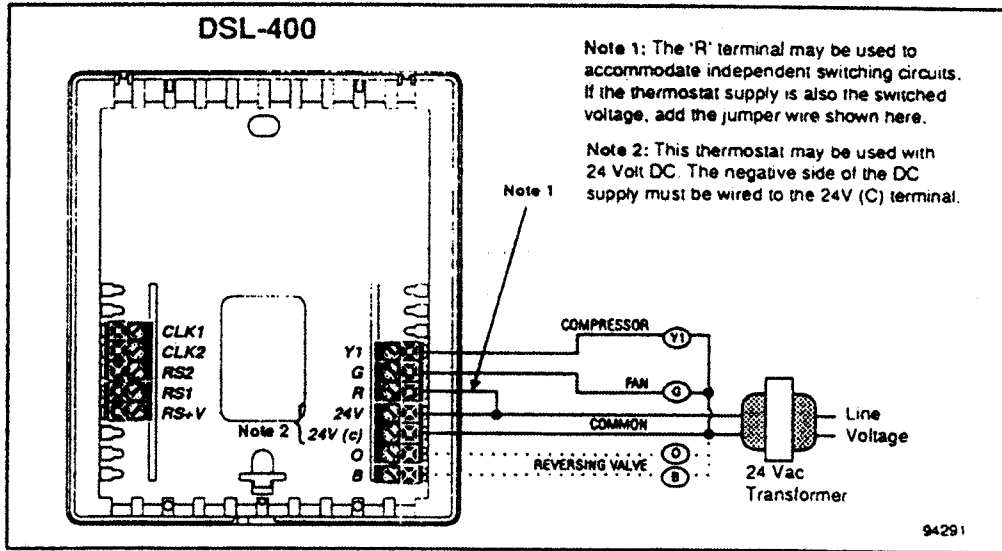


ACTUAL SIZE

SPECIFICATIONS

- Rated Voltage: 20 to 30 Vac, DC 24 Nominal
- Rated A.C. Current: .050 Amps to 0.5 Amps continuous per output with surges to 1 Amp Max.
- Rated D.C. Current: .0 Amps to 0.5 Amps continuous, per output with surges to 1 Amp Max.
- Control Range Heating: 38 to 88°F in 1° Steps (5 to 30°C in 1° Steps)
Cooling: 60 to 108°F in 1° Steps (16 to 40°C in 1° Steps)
- Thermostat Measurement Range 28 to 124°F or 0 to 48°C
- O.D.T. Measurement Range -50 to 124°F or -48 to 48°C
- Control Accuracy: ± 1°F at 68°F (0.5°C at 20°C)
- Minimum Deadband (between heating and cooling) 2°F or 1°C
- Dimensions: 4.5"H x 4"W x 7/8"D (114mm x 102mm x 22mm)
- Terminations: 24 Vac, 24 Vac (C), Y1, O/B, G
- Minimum Wires Required: 5

NOTE: This thermostat contains electronic circuitry replacing the conventional mechanical anticipator.



OUTPUT TERMINAL FUNCTIONS

- | | | | |
|----|---|------------|---|
| Y1 | Compressor energized with a call for heating or cooling | 24 Vac | 24 Vac |
| G | Fan is energized with a call for heating or cooling or selected by fan button | 24 Vac (C) | 24 Vac (Common) |
| O | Energizes the reversing valve with a call for cooling | RS2 | Use to connect Outdoor Temperature Sensor option and/or Indoor Remote Sensor option. Refer to the instructions included with the sensors. |
| B | Energizes the reversing valve with a call for heating | RS1 | |
| R | -Independent switching voltage, if required | RS+V | |
| | | CLK1 | Use with remote clock/timer for alternate setpoints. |
| | | CLK2 | |