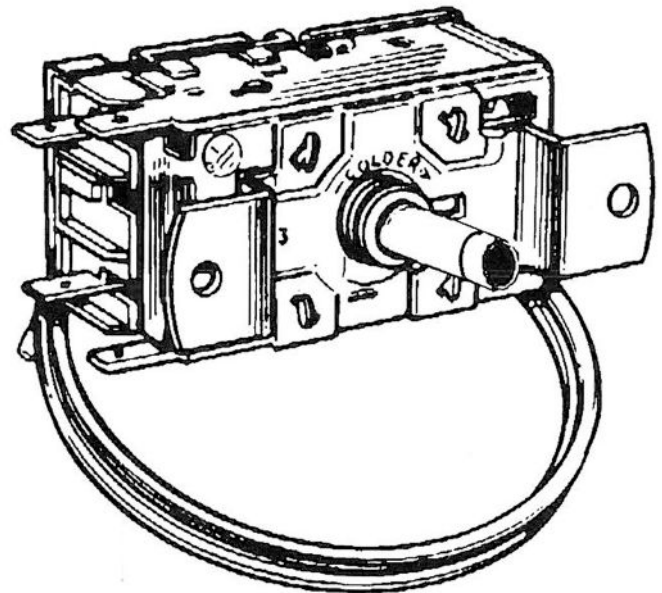


## INSTALLATION DATA

### A12 SERIES CONSTANT CUT-IN DIRECT REPLACEMENT COLD CONTROLS

The Ranco® A12 series Constant Cut-in Controls are designed for applications requiring the defrosting of the evaporator coil during the time when the compressor is in the off cycle. The control is used in vending machines, automatic beverage dispensers, reach-in coolers and various other medium temperature commercial equipment.

The A12 series controls utilize a SPST snap-acting toggle switch which is temperature actuated to close on rise of temperature.



#### WARNING:

#### ELECTRICAL SHOCK HAZARD.

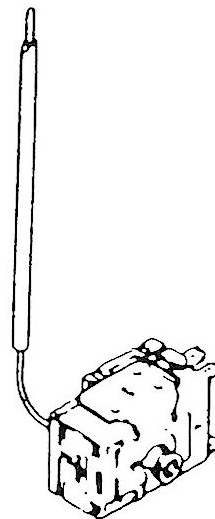
Turn off power at the main power source before installing a Replacement Cold Control. **DO NOT** restore electrical power to the unit until the Replacement Cold Control is properly installed.

## INSTALLATION

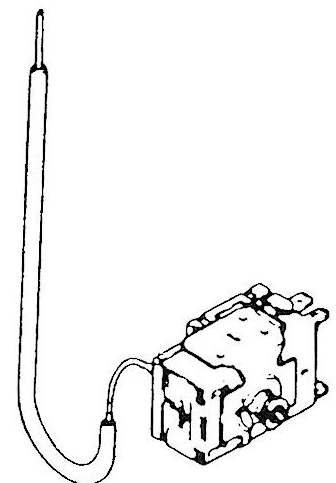
1. Disconnect electrical power.
2. Remove inoperative control. Be sure to save any fittings or parts which may apply to the direct replacement control, including the dial knob.
3. Install replacement control capillary tube in the same position as the original control.

A minimum of 6 inches of capillary tubing sensing surface is recommended for correct operation.

4. Avoid capillary touching any surface which can be colder than that to which the capillary sensor portion is clamped. Excess tubing should be coiled and taped to prevent chafing and rattling from vibration. Avoid sharp bends, kinks, strains and pinching of capillary. Provide a drip loop if water can follow the capillary to the control and its switch.



WITHOUT DRIP LOOP



WITH DRIP LOOP

5. Mount the replacement control in the same location as the original control and attach dial knob.
6. Turn dial to normal or mid scale position. In the case of the A12 series controls, turning the dial changes the cut-out setting only while the cut-in setting remains constant. Turn the dial knob counterclockwise for warmer cut-out and clockwise for a colder cut-out.
7. Turn on electrical power and check control operation. Allow sufficient time for the unit to reach normal operating temperature.

## CARE IN WIRING

Total electrical load handled by the control must be within the limits of the control rating. (See Electrical Ratings below.)

Do not reform, cut off, drill or tap the control's electrical terminals since resulting temperature setting changes may occur.

Electrical leads should be properly dressed, provided with slack to electrical terminals and have a drip loop if water can follow them.

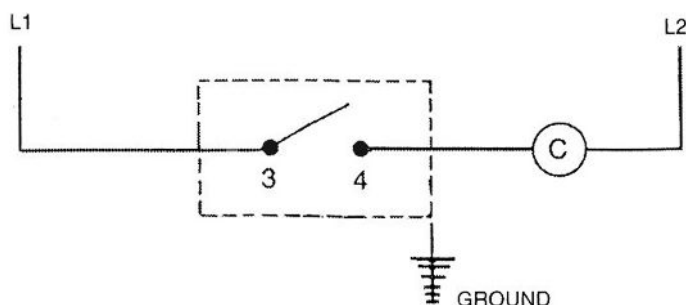
Ranco recommends the use of snap-on terminal covers which are provided with all A12 series controls. Proper grounding procedures should be followed.

## ELECTRICAL RATINGS

16 FLA AT 120/240V AC

80 LRA AT 120/240V AC

## WIRING DIAGRAM

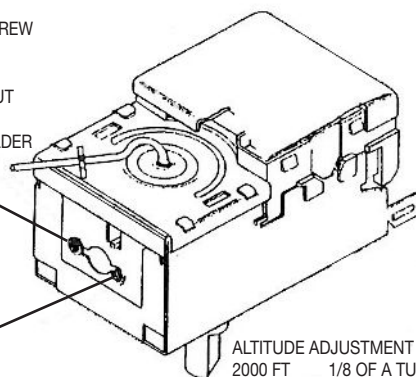


## ALTITUDE ADJUSTMENT

ALTITUDE ADJUSTMENT  
PRIMARY ADJUSTMENT SCREW  
CUT-IN / CUT-OUT  
SCREW ADJUSTMENT  
VARIES CUT-IN AND CUT-OUT  
CLOCKWISE-WARMER  
COUNTERCLOCKWISE-COLDER

CUT-OUT SCREW  
SCREW ADJUSTMENT  
CLOCKWISE-COLDER  
COUNTERCLOCKWISE-WARMER  
(NORMALLY NOT REQUIRED)

POSITION CONTROL  
AS SHOWN BEFORE  
ADJUSTING



ALTITUDE ADJUSTMENT  
2000 FT 1/8 OF A TURN CW  
4000 FT 3/8 OF A TURN CW  
6000 FT 3/4 OF A TURN CW  
8000 FT 1 TURN CW  
10,000 FT 1-1/8 OF A TURN CW

CUT-OUT SCREW ADJ.  
1 TURN = 3/4 F; MAX 3 TURNS

## SPECIFICATIONS

Part Number	°F Normal Off	°F Warm Off	°F Cold Off	°F Cut-In	Capillary Length
A12-1506	15°	22°	9°	38°	39" x 3/8" x 1-3/8"
A12-700	18°	26°	11.5°	37°	84"
A12-701	23.5°	31°	15°	41°	84"
A12-1560	24°	29°	19°	38°	72"



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