

# A19 Series High Range Temperature Control

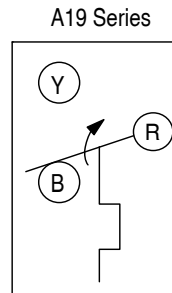
## Description

The A19 Series Controls are single-stage temperature controls that incorporate liquid-filled sensing elements.

Refer to the *A19 Series Hot Water Heating Controls Well Immersion Product Bulletin (LIT-125025)* for important product application information.

## Features

- wide temperature ranges available
- constant differential throughout the entire range
- single-pole, single-throw (SPST) or single-pole, double-throw (SPDT) snap-acting switches
- fixed or adjustable differential available
- unaffected by barometric pressure changes
- unaffected by cross-ambient conditions
- compact enclosure
- variety of sensing element styles



Action on Increase of Temperature

A19 Series Terminal Arrangement for SPDT



A19AAB Temperature Control

## Applications

The A19s are suitable for temperature control in HVAC/R applications.

## Selection Charts

### A19 Series High Range Temperature Control

| Product Code Number <sup>1</sup> | Switch Action                          | Range °F (°C)          | Diff F° (C°) (Factory Set)   | Bulb and Capillary                                      | Bulb Well No. (Order Separately) | Range Adjuster                 | Max Bulb Temp °F (°C) |
|----------------------------------|--|------------------------|------------------------------|---|----------------------------------|--------------------------------|-----------------------|
| A19AAB-4C                        | SPST, open high Remote Bulb Thermostat | 30 to 110 (-1 to 43)   | 3-1/2 (1.9)                  | 3/8 in. x 5 in. copper 6 ft. capillary <sup>2</sup>     | WEL14A-602R                      | Screwdriver slot Visible scale | 140 (60)              |
| A19AAB-7C                        | SPST, open high Oven Thermostat        | 100 to 300 (38 to 149) | 7 (3.9)                      | 3/16 in. x 9-1/2 in. copper 6 ft. capillary             | —                                | Knob Visible scale             | 350 (177)             |
| A19AAB-10C                       | SPST, open high Oven Thermostat        | 200 to 550 (93 to 288) | 10 (5.6)                     | 3/16 in. x 6 in. copper 8 ft. capillary                 | —                                | Convertible                    | 620 (327)             |
| A19AAC-9C                        | SPDT                                   | 100 to 240 (38 to 116) | 6 (3.3)                      | 3/8 in. x 3-1/2 in. copper 6 ft. capillary <sup>2</sup> | WEL14A-602R                      | Screwdriver slot Visible Scale | 290 (143)             |
| A19ABB-2C                        | SPST, open high Remote Bulb Thermostat | 50 to 200 (10 to 93)   | Adjustable 6 to 24 (3 to 13) | 0.290 in. x 2-1/2 in. copper 10 ft. capillary           | —                                | Knob Visible Scale             | 240 (116)             |
| A19ABB-7C                        |  | 50 to 201 (10 to 94)   |                              | 7 x 64 mm copper 3m capillary                           |                                  |                                | 240 (116)             |

1. Specify code number, and closed tank fitting (Code Number **FTG13A-600R**), or bulb well, if required.
2. With 3-inch bulb support

## Replacement Parts

| Product Code Number | Description                |
|---------------------|----------------------------|
| CVR28A-617R         | Concealed adjustment cover |
| CVR28A-618R         | Visible scale cover        |
| KNB20A-602R         | Replacement knob kit       |

## Technical Specifications

### Electrical Ratings

| Motor Ratings VAC            | 120                   | 208  | 240  |
|------------------------------|-----------------------|------|------|
| AC Full Load A               | 16.0                  | 9.2  | 8.0  |
| AC Locked Rotor A            | 96.0                  | 55.2 | 48.0 |
| Non-Inductive A <sup>1</sup> | 22 A, 120 to 277 VAC  |      |      |
| Pilot Duty                   | 125 VA, 24 to 600 VAC |      |      |

1. SPST and N.O. contact of SPDT control  
SPDT N.C. contact - 16 A, 120 to 277 VAC