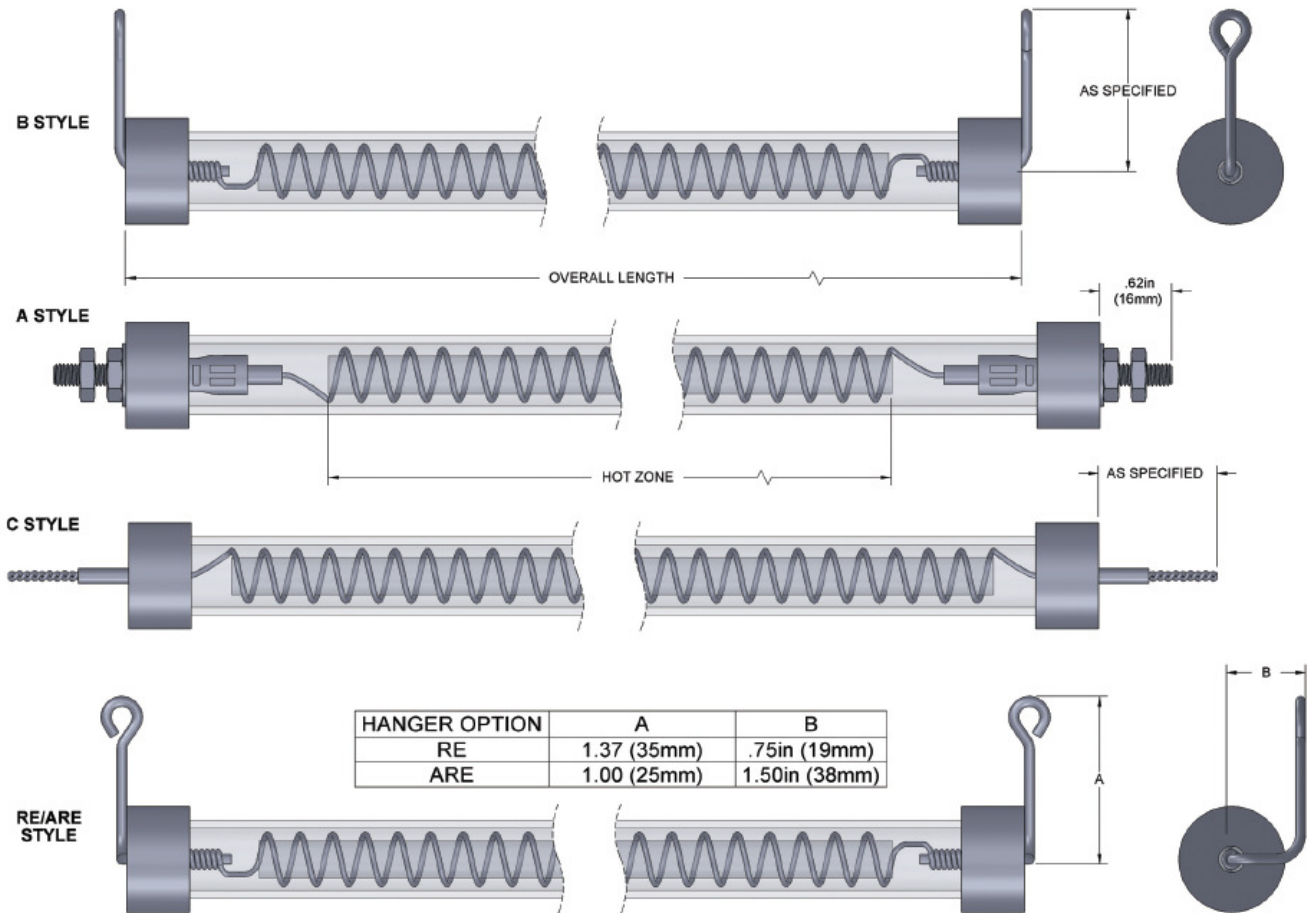


| R SERIES, QUARTZ INFRARED HEATING ELEMENTS |       |          |                |           |            |  |       |          |                |           |            |
|--|-------|----------|----------------|-----------|------------|--|-------|----------|----------------|-----------|------------|
| WATTS                                      | VOLTS | HOT ZONE | OVERALL LENGTH | MODEL NO. | SHIP WGT.* | WATTS  | VOLTS | HOT ZONE | OVERALL LENGTH | MODEL NO. | SHIP WGT.* |
|  |       | In./(mm) | In./(mm)       |           | Lbs./(kg)  |  |       | In./(mm) | In./(mm)       |           | Lbs./(kg)  |
| <b>22 inch length</b>                      |       |          |                |           |            | <b>58 inch length</b>                              |       |          |                |           |            |
| 500  | 120   | 18       | 22             | R5221     | 6          | 500  | 120   | 54       | 58             | R5581     | 12         |
|  | 240   | (457)    | (559)          | R5222     | (2.5)      |  | 240   | (1372)   | (1473)         | R5582     | (5.5)      |
| 750  | 120   | 18       | 22             | R7221     | 6          | 750  | 120   | 54       | 58             | R7581     | 12         |
|  | 240   | (457)    | (559)          | R7222     | (2.5)      |  | 240   | (1372)   | (1473)         | R7582     | (5.5)      |
| 1000                                       | 120   | 18       | 22             | R10221    | 6          | 1000   | 120   | 54       | 58             | R10581    | 12         |
|  | 240   | (457)    | (559)          | R10222    | (2.5)      |  | 240   | (1372)   | (1473)         | R10582    | (5.5)      |
| 1250                                       | 120   | 18       | 22             | R12221    | 6          | 1250   | 120   | 54       | 58             | R12581    | 12         |
|  |       | (457)    | (559)          |           | (2.5)      |  | 240   | (1372)   | (1473)         | R12582    | (5.5)      |
| 1500                                       | 120   | 18       | 22             | R15221    | 6          | 1500   | 120   | 54       | 58             | R15581    | 12         |
|  |       | (457)    | (559)          |           | (2.5)      |  | 240   | (1372)   | (1473)         | R15582    | (5.5)      |
| <b>34 inch length</b>                      |       |          |                |           |            | <b>70 inch length</b>                              |       |          |                |           |            |
| 500  | 120   | 30       | 34             | R5341     | 7          | 2000   | 120   | 54       | 58             | R20581    | 12         |
|  | 240   | (762)    | (864)          | R5342     | (3.5)      |  | 240   | (1372)   | (1473)         | R20582    | (5.5)      |
| 750  | 120   | 30       | 34             | R7341     | 7          | 2500   | 240   | 54       | 58             | R25582    | 12         |
|  | 240   | (762)    | (864)          | R7342     | (3.5)      |  |       | (1372)   | (1473)         |           | (5.5)      |
| 1000                                       | 120   | 30       | 34             | R10341    | 7          | 3000   | 240   | 54       | 58             | R30582    | 12         |
|  | 240   | (762)    | (864)          | R10342    | (3.5)      |  |       | (1372)   | (1473)         |           | (5.5)      |
| 1250                                       | 120   | 30       | 34             | R12341    | 7          | 1000   | 120   | 66       | 70             | R10701    | 14         |
|  | 240   | (762)    | (864)          | R12342    | (3.5)      |  | 240   | (1676)   | (1778)         | R10702    | (6.5)      |
| 1500                                       | 120   | 30       | 34             | R15341    | 7          | 1250   | 120   | 66       | 70             | R12701    | 14         |
|  | 240   | (762)    | (864)          | R15342    | (3.5)      |  | 240   | (1676)   | (1778)         | R12702    | (6.5)      |
| 2000                                       | 120   | 30       | 34             | R20341    | 7          | 1500   | 120   | 66       | 70             | R15701    | 14         |
|  | 240   | (762)    | (864)          | R20342    | (3.5)      |  | 240   | (1676)   | (1778)         | R15702    | (6.5)      |
| <b>46 inch length</b>                      |       |          |                |           |            | 2000   | 120   | 66       | 70             | R20701    | 14         |
| 500  | 120   | 42       | 46             | R5461     | 10         |  | 240   | (1676)   | (1778)         | R20702    | (6.5)      |
|  | 240   | (1067)   | (1168)         | R5462     | (4.5)      | 2500   | 240   | 66       | 70             | R25702    | 14         |
| 750  | 120   | 42       | 46             | R7461     | 10         |  |       | (1676)   | (1778)         |           | (6.5)      |
|  | 240   | (1067)   | (1168)         | R7462     | (4.5)      | 3000   | 240   | 66       | 70             | R30702    | 14         |
| 1000                                       | 120   | 42       | 46             | R10461    | 10         |  |       | (1676)   | (1778)         |           | (6.5)      |
|  | 240   | (1067)   | (1168)         | R10462    | (4.5)      | 3500   | 240   | 66       | 70             | R35702    | 14         |
| 1250                                       | 120   | 42       | 46             | R12461    | 10         |  |       | (1676)   | (1778)         |           | (6.5)      |
|  | 240   | (1067)   | (1168)         | R12462    | (4.5)      | 4000   | 240   | 66       | 70             | R40702    | 14         |
| 1500                                       | 120   | 42       | 46             | R15461    | 10         |  |       | (1676)   | (1778)         |           | (6.5)      |
|  | 240   | (1067)   | (1168)         | R15462    | (4.5)      | * Shipping weight is for minimum 12 element order. |       |          |                |           |            |
| 2000                                       | 120   | 42       | 46             | R20461    | 10         |  |       |          |                |           |            |
|  | 240   | (1067)   | (1168)         | R20462    | (4.5)      |  |       |          |                |           |            |
| 2500                                       | 240   | 42       | 46             | R25462    | 10         |  |       |          |                |           |            |
|  |       | (1067)   | (1168)         |           | (4.5)      |  |       |          |                |           |            |
| 3000                                       | 240   | 42       | 46             | R30462    | 10         |  |       |          |                |           |            |
|  |       | (1067)   | (1168)         |           | (4.5)      |  |       |          |                |           |            |

## Product Features

- **RUGGED CONSTRUCTION:** Heavy wall quartz sheath in standard 5/8-inch diameter resists corrosion and chemical vapors. Ceramic insulators provide positive electrical insulation.
- **SUPERIOR PERFORMANCE:**
  - Ideal for curing, baking and drying applications
  - Watt densities 50 watts/in<sup>2</sup> (8 watts/cm<sup>2</sup>)
  - Capable of reaching full heat in 40 to 65 seconds.
- **SIZES:** 500 watts to 4,000 watts
- **LONG-LIFE NICKEL CHROME RESISTANCE WIRE**
  - Brightness: bright red to dull orange
  - Peak wavelength: 2.55 microns
  - Max power density: 1.3 to 1.75 kW/ft<sup>2</sup>
  - Watts per linear inch: 34-45
  - Conversion efficiency IR energy: 40-62%
  - Response time heat/cool: 1-2 minutes
  - Color sensitivity: medium
  - Thermal shock resistance: excellent
- **OPTIONS AVAILABLE:** (Consult factory)
  - Special wattages and lengths available to fit most ovens/panels
  - 1/2-inch diameter tubes
  - Three electrical terminal styles (specify "A", "B", or "C").
  - Temperature controls sized to match the heater.
- **NOTE:** Intended for horizontal installation only.



## Quartz Infrared Heating Element Ordering Information

| Series | Wattage  | Overall length (in inches)   | Voltages  | Termination (R series only) |
|--------|--|--|---|-----------------------------|
|        | 5 = 500 watt<br>7 = 750 watt<br>10 = 1000 watt<br>12 = 1250 watt<br>15 = 1500 watt<br>20 = 2000 watt<br>25 = 2500 watt<br>30 = 3000 watt<br>35 = 3500 watt<br>40 = 4000 watt | 22 = 500 through 1000 watts<br>34 = 500 through 2000 watts<br>46 = 500 through 3000 watts<br>58 = 500 through 3000 watts<br>70 = 1000 through 4000 watts | 1 = 120<br>2 = 240<br>8 = 208   |                             |
|        | R = quartz infrared<br>RE = alternate<br>ARE = alternate   |  | A = 8-32 x 5/8" thread<br>B = flag terminal<br>C = straight wire terminal |                             |

1 inch = 25.4mm

### ORDERING EXAMPLE:

R5221B

Quartz radiant (IR) element, 500 watts, 22" long, 120 volt, style "B" termination.

**NOTE:** Elements must be mounted in horizontal position only.