# Ceramic Core Baseboard Heater CB Series

**Model Code:**

| 2 | CB | 240 | 03 | -HAL | -BW |
|---|---|---|---|---|---|
| A | B | C | D | E | F |

A: Length
B: Series
C: 12 - 120V 24 - 240V 20 - 208V
D: Watts (350 to 1500)
E: Color (-BW) Bright White (-Al) Almond
F: -HAL (High Altitude Limit)

- High mass ceramic heating-core
- Natural convection heat
- Low density heat
- Quiet running
- Fluid-free design
- Standard color: bright white (optional almond color available)
- Available in three voltages 120V / 208V / 240V
- Available high altitude limit option
- 12 year limited warranty

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MADE IN USA
With U.S. & Global Materials

## The CB Ceramic Core Baseboard Heater

**King's premium ceramic baseboard has over 60 years of proven reliability and performance.** The high mass ceramic element design far exceeds the performance of a standard baseboard with thermal storage from the ceramic core and more efficient heat transfer from oversized aluminum fins. The result is more gentle heating with fewer on/off cycles as the ceramic core slowly heats up and then continues to dissipate heat during the off cycle. Lower surface temperatures and reduced watt density making the heater much safer. A better alternative to water or oil-filled baseboard heaters that can leak due to high pressure created when heating the fluid in a self-contained vessel.

HIGH ALTITUDE OPTION
7,000 FT
ORDER - HAL OPTION

## Ordering Information

* Add suffix (-BW) for optional Bright White color or suffix (-AL) for optional Almond color

| | MODEL | VOLTS | WATTS | AMPS | LENGTH | SHIP WEIGHT lbs |
|---|---|---|---|---|---|---|
| 120V | 2CB1203 | 120 | 350 | 2.9 | 27" | 7 |
| | 3CB1205 | 120 | 500 | 4.2 | 3 ft. | 8 |
| | 4CB1207 | 120 | 750 | 6.3 | 4 ft. | 10.5 |
| | 5CB1210 | 120 | 1000 | 8.3 | 5 ft. | 13 |
| | 6CB1212 | 120 | 1250 | 10.4 | 6 ft. | 16 |
| 208V | 2CB2003 | 208 | 350 | 1.7 | 27" | 7 |
| | 3CB2005 | 208 | 500 | 2.4 | 3 ft. | 8 |
| | 4CB2007 | 208 | 750 | 3.6 | 4 ft. | 10.5 |
| | 5CB2010 | 208 | 1000 | 4.8 | 5 ft. | 13 |
| | 6CB2012 | 208 | 1250 | 6.0 | 6 ft. | 16 |
| | 8CB2015 | 208 | 1500 | 7.2 | 8 ft. | 20.5 |
| 240V | 2CB2403 | 240/208* | 350/263* | 1.5/1.26* | 27" | 7 |
| | 3CB2405 | 240/208* | 500/375* | 2.1/1.8* | 3 ft. | 8 |
| | 4CB2407 | 240/208* | 750/563* | 3.1/2.7* | 4 ft. | 10.5 |
| | 5CB2410 | 240/208* | 1000/750* | 4.2/3.6* | 5 ft. | 13 |
| | 6CB2412 | 240/208* | 1250/938* | 5.2/4.5* | 6 ft. | 16 |
| | 8CB2415 | 240/208* | 1500/1125* | 6.3/5.4* | 8 ft. | 20.5 |

*Refer to accessories page for options
Note: Over 8500 ft Altitude 210 degree high limits will need to be used.

## Factory Installed Options

| ADD SUFFIX | DESCRIPTION | SHIP WEIGHT lbs |
|---|---|---|
| -HAL | High Altitude Limit (For Baseboards Used Above 7,000 Feet Altitude) | N/A |
| -BK | Optional Backwire Junction Box | N/A |
| -BW | Bright White Color | 0 |
| -AL | Almond Color | 0 |

## Accessories

| MODEL | UPC | DESCRIPTION | SHIP WEIGHT lbs |
|---|---|---|---|
| BK-CVR-AL | 55517 | J-BoX Cover, K/CB Base Board, Blank, Almond | 0.2 |
| BK-CVR-BW | 55518 | J-Box Cover, K/CB Base Board, Blank, Bright White | 0.2 |
| BKT1-BW | 11484 | Built-In Thermostat Kit (SPST) - Bright White | 0.6 |
| BKT1-AL | 20656 | Built-In Thermostat Kit (SPST) - Almond | 0.6 |
| BKT2-BW | 11488 | Built-In Thermostat Kit (DPST) - Bright White | 0.6 |
| BKT2-AL | 20657 | Built-In Thermostat Kit (SPST) - Almond | 0.6 |
| BKT1-TP-BW | 11542 | Built-In Tamperproof Stat Kit (SPST) - Bright White | 0.3 |
| BKT1-TP-AL | 22251 | Built-In Tamperproof Stat Kit (SPST) - Almond | 0.3 |

# Ceramic Core Baseboard Heater CB Series

## Accessories NON Cancel-able - NON Returnable item (NCNR)

| MODEL | UPC | DESCRIPTION | SHIP WEIGHT lbs |
|---|---|---|---|
| BKT2-TP-BW | 11544 | Built-In Tamperproof Stat Kit (DPST) - Bright White | 0.6 |
| BKT2-TP-AL | 33679 | Built-In Tamperproof Stat Kit (DPST) - Almond | 0.6 |
| BKC-BW | 11474 | Corner Connector - inside cover Bright White | 1.5 |
| BKC-AL | 11472 | Corner Connector - inside cover Almond | 1.5 |
| BKR120-BW | 11494 | Duplex Cover Plate (includes 120V receptacle) Bright White | 0.5 |
| BKR120-AL | 11492 | Duplex Cover Plate (includes 120V receptacle) Bright White | 0.5 |
| BKLT120-BW* | 11481 | Load Transfer Cover Plate (Heat/Cool/Off) 120V Bright White | 0.5 |
| BKLT120-AL* | 11480 | Load Transfer Cover Plate (Heat/Cool/Off) 120V Almond | 0.5 |
| BKLT240-BW* | 11483 | Load Transfer Cover Plate (Heat/Cool/Off) 240V Bright White | 0.5 |
| BKLT240-AL* | 11482 | Load Transfer Cover Plate (Heat/Cool/Off) 240V - Almond | 0.5 |
| BKCB1-BW | 11532 | 3-3/4" Relay Control Box Bright White | 1.5 |
| BKCB1-AL | 11518 | 3-3/4" Relay Control Box Almond | 1.5 |
| BKCB2-BW | 11534 | 7-1/8" Dual Relay Control Box Bright White | 3.0 |
| BKCB2-AL | 11490 | 7-1/8" Dual Relay Control Box Almond | 3.0 |
| BKCB2-RS-BW | 33676 | 7-1/8" Box w/ Disconnect Switch 10A/240V, 15A/125V Bright White | 3.0 |
| BKCB2-RS-AL | 11485 | 7-1/8" Box w/ Disconnect Switch 10A/240V, 15A/125V Almond | 3.0 |
| BKCB1-T1-BW | 33675 | 3-3/4" Junction Box w/SP Thermostat Bright White | 1.5 |
| BKCB1-T1-AL | 11489 | 3-3/4" Junction Box w/SP Thermostat Almond | 1.5 |
| BKT1-BK-BW | 11052 | Accessory Back Wire SP Thermostat Kit Bright White | 1.5 |
| BKT1-BK-AL | 33677 | Accessory Back Wire SP Thermostat Kit Almond | 1.5 |
| BKT2-BK-BW | 11053 | Accessory Back Wire DP Thermostat Kit Bright White | 1.5 |
| BKT2-BK-AL | 33678 | Accessory Back Wire DP Thermostat Kit Almond | 1.5 |
| BK-TIMER3HR-BW | 11487 | 3 Hour spring wound timer/wire leads 16 amp/250 Vac. 15 Amp/125 Vac. | 0.6 |
| BMR | 10305 | Accessory Manual Reset Safety Limit | 0.6 |

*Requires BKCB1 Control box, order separately.

## Shield Options NON Cancel-able - NON Returnable item (NCNR)

| MODEL | UPC | DESCRIPTION | SHIP WEIGHT lbs |
|---|---|---|---|
| SHIELD-33 IN-BW | 10280 | Heater Shield for 27" Baseboard Bright White | 6 |
| SHIELD-33 IN-AL | 10290 | Heater Shield for 27" Baseboard Almond | 6 |
| SHIELD-42 IN-BW | 10281 | Heater Shield for 3' Baseboard Bright White | 7 |
| SHIELD-42 IN-AL | 10291 | Heater Shield for 3' Baseboard Almond | 7 |
| SHIELD-54 IN-BW | 10282 | Heater Shield for 4' Baseboard Bright White | 8.5 |
| SHIELD-54 IN-AL | 10292 | Heater Shield for 4' Baseboard Almond | 8.5 |
| SHIELD-66 IN-BW | 10283 | Heater Shield for 5' Baseboard Bright White | 10 |
| SHIELD-66 IN-AL | 10293 | Heater Shield for 5' Baseboard Almond | 10 |
| SHIELD-78 IN-BW | 10284 | Heater Shield for 6' Baseboard Bright White | 11 |
| SHIELD-78 IN-AL | 10294 | Heater Shield for 6' Baseboard Almond | 11 |
| SHIELD-102 IN-BW | 10285 | Heater Shield for 8' Baseboard Bright White | 14 |
| SHIELD-102 IN-AL | 10295 | Heater Shield for 8' Baseboard Almond | 14 |

## Cover Options NON Cancel-able - NON Returnable item (NCNR)

| MODEL | UPC | DESCRIPTION | SHIP WEIGHT lbs |
|---|---|---|---|
| BB-18GA COVER 2 FT-BW | 52054 | 18 Gauge Cover for 27" Baseboard Bright White | 1.5 |
| BB-18GA COVER 2 FT-AL | 55515 | 18 Gauge Cover for 27" Baseboard Almond | 1.5 |
| BB-18GA COVER 3 FT-BW | 52056 | 18 Gauge Cover for 3' Baseboard Bright White | 2 |
| BB-18GA COVER 3 FT-AL | 33671 | 18 Gauge Cover for 3' Baseboard Almond | 2 |
| BB-18GA COVER 4 FT-BW | 52058 | 18 Gauge Cover for 4' Baseboard Bright White | 2.6 |
| BB-18GA COVER 4 FT-AL | 33672 | 18 Gauge Cover for 4' Baseboard Almond | 2.6 |
| BB-18GA COVER 5 FT-BW | 52060 | 18 Gauge Cover for 5' Baseboard Bright White | 3.7 |
| BB-18GA COVER 5 FT-AL | 33710 | 18 Gauge Cover for 5' Baseboard Almond | 3.7 |

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## Cover Options NON Cancel-able - NON Returnable item (NCNR)

| MODEL | UPC | DESCRIPTION | SHIP WEIGHT lbs |
|---|---|---|---|
| BB-18GA COVER 6 FT-BW | 52062 | 18 Gauge Cover for 6' Baseboard Bright White | 4 |
| BB-18GA COVER 6 FT-AL | 33673 | 18 Gauge Cover for 6' Baseboard Almond | 4 |
| BB-18GA COVER 8 FT-BW | 52064 | 18 Gauge Cover for 8' Baseboard Bright White | 5.3 |
| BB-18GA COVER 8 FT-AL | 33674 | 18 Gauge Cover for 8' Baseboard Almond | 5.3 |

## *Thermostats, Options & Accessories*

BKR120-AL

BKT1-BW

BKT1-TP-BW

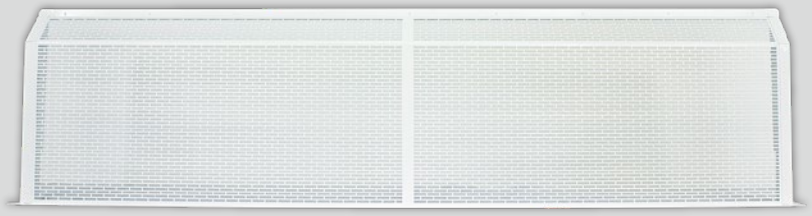
BKLT240*

*Shown with box

BKCB1

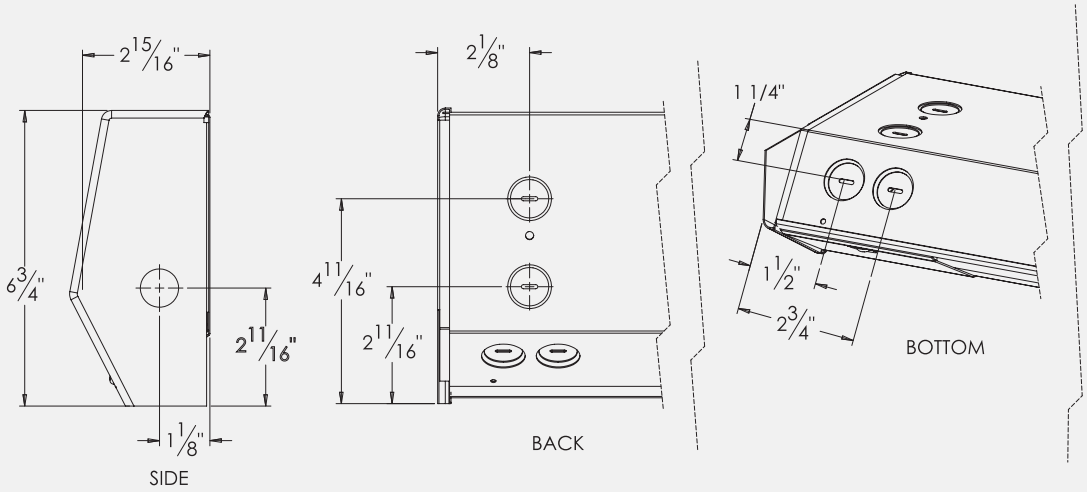
BKT-TIMER3HR-BW

Heater Shield



## Dimensional Data

Standard Junction Box



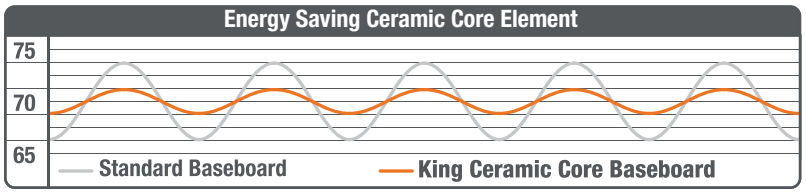
# Ceramic Core Baseboard Heater CB Series

## Over 60 years of Proven Performance

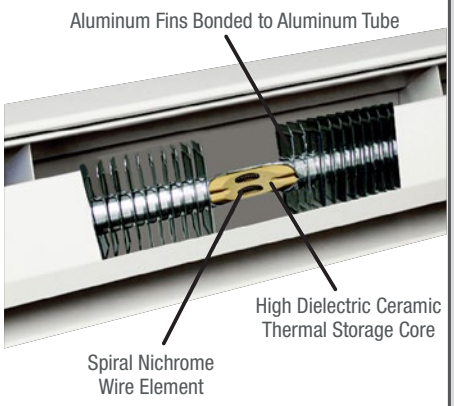
*CB Baseboards Can Save Money on Your Heating Bills!*

### Ceramic Core Element (Liquid-Free Design)

The CB baseboard produces quiet convection heat with fewer on/off cycles as the ceramic core slowly heats up and then continues to dissipate heat during the off cycle which dramatically reduces the temperature swings associated with standard electric baseboards. Every one degree decrease in the thermostat setting results in approximately a 3% decrease in energy savings. The CB baseboard enables you to feel comfortable at a lower thermostat setting which can result in a 3% to 5% saving on your energy bills.

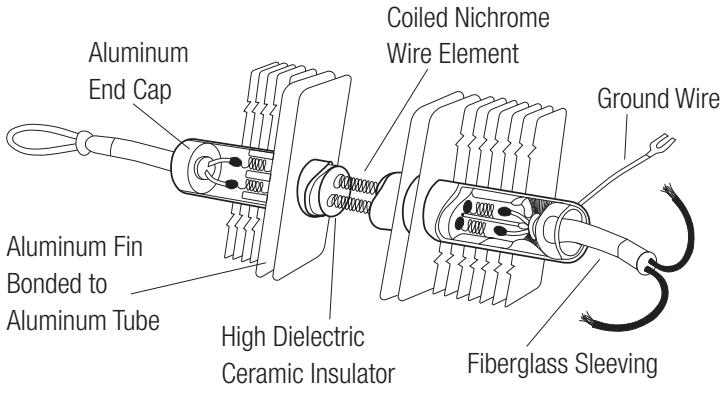



*Reduces temperature swings




When combined with an electronic thermostat the saving can be over 10% as the temperature swing will be decreased even more. The optimum results of up to 25% savings can be achieved with the CB heater and a programmable thermostat that will turn the temperature down automatically at bedtime and while you are away.
(Refer to King's broad selection of electronic line voltage thermostats)

### Ceramic Core Element Diagram




## Engineering Specifications

*Contractor shall supply and install CB ceramic baseboard heaters, manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.*

**Typical Application:** The rugged construction makes this a very durable heater suitable as a primary heat source for everyday use.
**Element:** The superior performance comes from the proven technology of the ceramic heater core. A 7/8" diameter aluminum tube is filled with a special high density ceramic that stores the thermal energy. The oversized fins (4.875 in²) are made from durable (0.015" thick) high grade aluminum which produces better heat transfer than other elements. The benefit of the technology comes when the thermostat is turned off and the element continues to radiate heat. It also reduces temperature swings by heating and cooling more evenly.
**Safety:** The large heating element and low watt density produce low surface temperatures making it very safe.
**Thermal Cutout:** A continuous capillary sensor extends the full length of the baseboard, turning the element off when an over temperature condition occurs. Automatically resets when the normal temperature returns. Optional manual reset available.
**Construction:** Expansion noise is eliminated by welding the junction boxes and element hangers to the baseboard case. 22 gauge steel adds strength across the entire length of the baseboard.
**Quick Wiring:** Identical junction boxes with knockouts in the rear, side and bottom allow the baseboard to be wired from either end. One screw makes quick access to the wiring compartment.
**Exterior:** Durable baked enamel finish. Colors include standard bright white with almond as an option. Custom colors are available upon request. Commercial Construction: Optional 18 gauge front cover for commercial use.
**Options:** Single Pole or Double Pole unit-mount thermostat 45°-80°F.
**Quiet:** The low temperature element heats cleanly and quietly.
**Warranty:** 12 year product warranty.
**Approvals:** cULus (E29778)

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