

# Garage/Shop Heater EKB Series



## Model Code:

| EKB                         | 24 | 40 | TB |
|-----------------------------|----|----|----|
| A                           | B  | C  | D  |
| A: Series                   |    |    |    |
| B: 12 - 120V, 20 - 208V     |    |    |    |
| 24 - 240V                   |    |    |    |
| C: Watts (5000)             |    |    |    |
| D: TB- Thermostat & Bracket |    |    |    |



- Quick heat element
- Long life unit bearing motor
- Patented Smart Limit® protection
- Aluminum fan blade
- Built-in thermostat
- Universal mounting bracket
- Standard color: black textured finish
- Safety sensor on each element
- 1-year limited warranty



## The EKB Garage/Shop Heater

**The EKB is designed to be an affordable, high-capacity garage / shop heater.** Combining King's patented Smart Limit safety technology with dual NiChrome coil elements for rapid heat transfer, the EKB is ideal for many residential applications. The flow-through design efficiently moves air by pulling air from the back and sides of the heater and discharges it out the front, easily heating a large space. The built-in thermostat has a temperature range from 40 to 85 degrees. The universal mounting bracket can be wall or ceiling mounted at a minimum of 6 feet above the floor. Good air distribution and comfort is achieved by swiveling the bracket to specific work areas.

## Ordering Information

|      | MODEL     | UPC   | VOLTS | WATTS | AMPS | WIRE          | BREAKER SIZE  | TEMP RISE | HEATING SQ FT |
|------|-----------|-------|-------|-------|------|---------------|---------------|-----------|---------------|
| 120V | EKB1230TB | 16506 | 120   | 2850  | 24   | 10-2 w/ground | 30 Amp 1 pole | 40        | 500           |
|      | EKB1220TB | 16507 | 120   | 1920  | 16   | 12-2 w/ground | 20 Amp 1 pole | 40        | 300           |
|      | EKB2050TB | 16501 | 208   | 5000  | 24   | 10-2 w/ground | 30 Amp 2 pole | 80        | 750           |
| 208V | EKB2040TB | 16503 | 208   | 3750  | 18   | 10-2 w/ground | 30 Amp 2 pole | 70        | 600           |
|      | EKB2030TB | 16505 | 208   | 2850  | 14   | 12-2 w/ground | 20 Amp 2 pole | 50        | 500           |
|      | EKB2450TB | 16500 | 240   | 5000  | 20   | 10-2 w/ground | 30 Amp 2 pole | 80        | 750           |
| 240V | EKB2440TB | 16502 | 240   | 3850  | 16   | 12-2 w/ground | 20 Amp 2 pole | 70        | 600           |
|      | EKB2430TB | 16504 | 240   | 2850  | 12   | 14-2 w/ground | 15 Amp 2 pole | 50        | 500           |

## Engineering Specifications

**Heating Elements:** Rigid Muscovite Mica construction with 80-20 NiChrome heating wire provides quick heating without cold air start ups, heat is wiped from elements as fans slows to a stop. Manual reset Safety sensor on each element.

**Thermostat:** Factory installed single pole operation range 40 to 85 degrees F.

**Unit Bearing Motor:** Permanently lubricated, cast aluminum unit bearing, 6-watt output 4 pole motor, 1550 rpm, 20 cc oil supply.

**Mounting Bracket:** 18 ga steel, multiple mounting options - ceiling/wall.  
**CFM:** 270 Maximum

**Thermal Overload:** Heaters shall be equipped with King's patented thermal overload Smart Limit Protection®, which disconnects elements and motor in the event normal operating temperatures are exceeded. If thermal overload trips due to abnormal operating temperatures, thermal overload shall remain open until manually reset by turning the heater off for 15 minutes. U.S. PATENT #6,748,163 B2 • CIPO PATENT #2,393,882

**Case:** 22 ga steel, inlet and outlet perforation, special side and top safety air inlets.

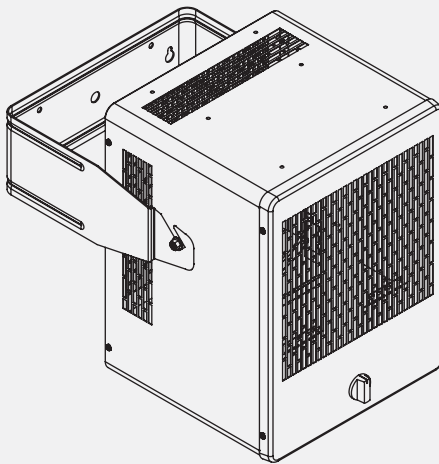
**Exterior:** Durable textured finish.

**Approval:** cULus (E41422)

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## Dimensional Data

### EKB Unit Heater



Heater case size  
w/o bracket  
Height: 13 5/8 in. / 34.6 cm  
Width: 10 3/8 in. / 26.35 cm  
Depth: 9 3/9 in. / 24.76 cm

Maximum Outside Dims  
W/bracket and stat  
Height: 18 3/4 in. / 47.62 cm  
Width: 11 3/8 in. / 28.90 cm  
Depth: 10 5/8 in. / 26.98 cm

### Bracket Information

Hole Sizes  
\* 1/2 in. / 1.27 cm 3 holes  
+ 1/4 in. / .63 cm 4 holes

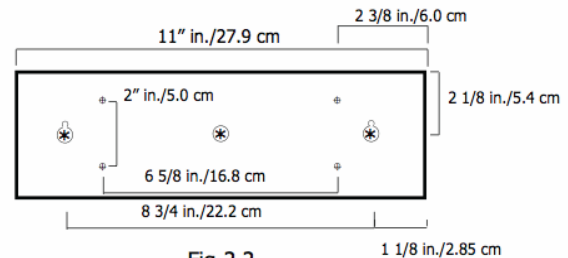
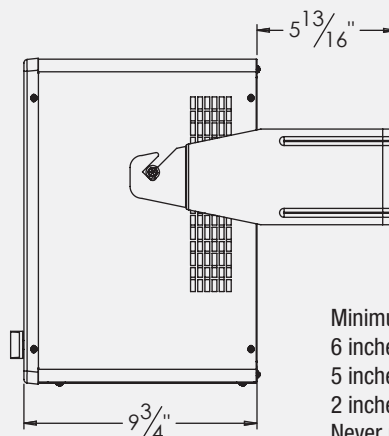
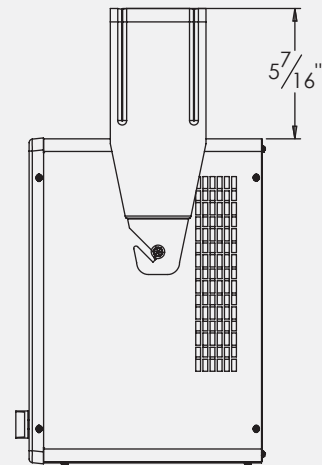
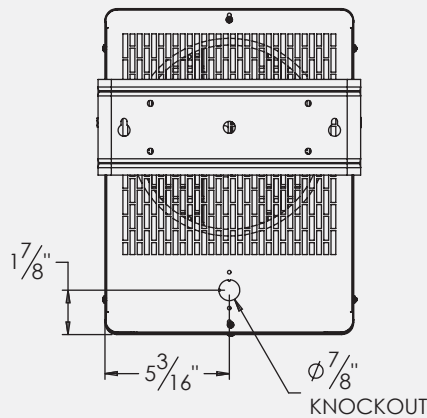
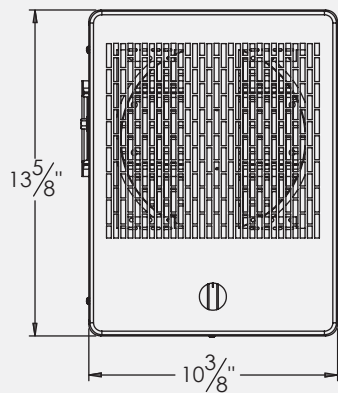


Fig 2.2



Minimum clearances from walls and ceiling  
6 inches / 15.24 cm to the side  
5 inches / 12.7 cm from the back  
2 inches / 5.08 cm from ceiling  
Never point heater at ceiling  
Maintain clearance of at least 3 ft. in front  
of heat outlet

### MINIMUM CLEARANCE

From combustibles: 18" from front,  
2" from top, 6" from sides  
and 5" from rear.