

Smart Heating Solutions

60

Years

We Believe Experience Matters





QUALITY IS KING

ELECTRIC HEATER
MANUFACTURING

EST. 1958 · SEATTLE, WA

KING-ELECTRIC.COM

Celebrating 60 Years of American Comfort

Since 1958, King Electric has delivered American Made, smart comfort products to homes and families through industry leading innovation, building a legacy of trust, and delivering unparalleled reliability.

After 60 years of manufacturing high-quality American-made electric heaters, we can not forget our partners in the field that make KING what it is today. To all of the electrical distributors and electricians that have supported us over the years, we say Thank You. Discover all the ways King has redefined Comfort, today and for the next 60 years.

Milkhouse Heater PHM-1

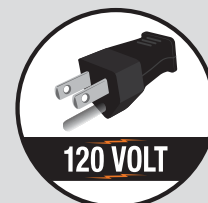


Specifications

BTU..... 5120
 Watts..... 1300/1500W
 Power..... 120V~60Hz
 Amps..... 12.5 A
 Heat Settings..... 2
 Cord Length..... 6 ft.

Minimum Clearance

front.....3 ft.
 top..... 1 ft.
 sides.....1 ft.
 rear..... 1 ft.



120 VOLT

NEMA 5-15P



- 4 position switch, fan only/low/high/off
- Ni-chrome heating element
- 6 foot cord 120V grounded plug
- 2 heat settings 1300/1500 watts
- Safety tip-over switch
- Adjustable thermostat
- Convenient carrying handle
- Power indicator light
- Overheat protection
- Durable powder coated steel housing
- 1-year limited warranty

The PHM-1 Portable Milkhouse Heater

The PHM-1 portable utility heater is a durable heater designed for use in garage/shop applications, where supplemental heat is needed. The PHM-1 portable utility heater is a durable heater designed for use in garage/shop applications, where supplemental heat is needed. It features a rugged and durable metal housing. The easy-to-use thermostat lets you adjust heat to the perfect level for your space. For safety, an internal switch automatically cuts off power if heater accidentally tips, falls or overheats.

Ordering Information

Dimensions

15¾" h x 9¾" w x 7½" d

MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
PHM-1	20992	120	1300/1500	12.5	120V Plug

Portable Radiant Tower Heater PHTR-9

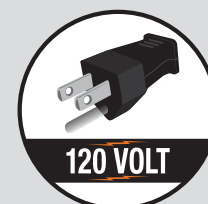


Specifications

BTU..... 4100
 Watts..... 600/1200W
 Power..... 120V~60Hz
 Amps..... 10 A
 Heat Settings..... 2
 Cord Length..... 6 ft.

Minimum Clearance

front.....3 ft.
 top..... 1 ft.
 sides.....1 ft.
 rear..... 1 ft.



120 VOLT

NEMA 5-15P



- 2 heat settings 600/1200W
- Dual quartz radiant tower heater
- 6 foot cord 120V plug
- Safety tip-over switch
- Adjustable thermostat
- Comfort grip handle on back
- Durable powder coated steel grill stays cool to the touch
- Overheat Protection
- Power indicator light
- 1-year limited warranty

The PHTR-9 Portable Radiant Tower Heater

The PHTR-9 Dual quartz radiant tower heater has reflective heating technology that replicates the sun's healthy rays, directly warming the object or person in front of the heater. As the temperature of the heated surface rises, the warming effect is felt throughout the air and surrounding areas. Reflective heaters are great for open or large rooms, and actually save you energy by warming objects and not the entire room. Reflective heating is both safe and healthy—it produces no odors, chemicals or fumes and doesn't stir up dust. Remarkably efficient, our heater uses less power to create the same amount of heat as traditional heaters. Equipped with safety tip-over switch and overheat auto-off protection, the heater is safe and reliable.

Ordering Information

Dimensions

22¼" h x 11" w x 7½" d

MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
PHTR-9	20999	120	600/1200	5-10	120V Plug

Portable Utility Heater PUH Series



Model Code:

PUH	12	15	T
A	B	C	D
A: Series			
B: 12 - 120V			
C: Watts (1500)			
D: T - Thermostat			



- Built-in thermostat (45°-85°F)
- Dual On/off rocker switches (750W ea.)
- 6 foot cord with 15A plug
- 120V (750W/1500W)
- Rugged metal case
- Comfort grip handle
- Ceramic heating elements
- Power indicator light
- Permanently lubricated motor ensures long life
- Durable scratch and rust resistant finish
- 1-year limited warranty

The PUH1215T Portable Utility Heater

The PUH1215T personal utility heater is designed to provide a back-up heating source at an affordable price.

The convenient 6 foot cord allows greater mobility to areas needing heat. Easily set the desired temperature with the built-in thermostat. The auto-reset high-limit temperature control provides overheat protection. Standard color: grey body, black grill and handle. 1 year limited warranty.

Ordering Information

Dimensions

7½"h x 6½"w x 5"d

MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
PUH1215T	20982	120	750/1500	12.5	120V Plug

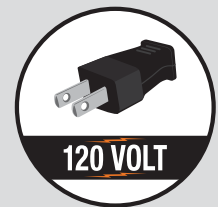


Specifications

BTU.....	5100B
Watts.....	750W / 1500W
Power (Volts).....	120V~60Hz
Amps.....	12.5 A
Cord Length.....	6 ft.
Switch.....	(2) 750/1500 ON/OFF
Air Flow.....	216 CFM Fan

Minimum Clearance

front.....	3 ft.
top.....	1 ft.
sides.....	1 ft.
rear.....	1 ft.



NEMA 1-15P

Portable Shop Heater PSH1215T



Model Code:

PSH	12	15	T
A	B	C	D

A: Series
 B: 12 - 120V
 C: Watts (1500)
 D: T - Thermostat

Yellow Jacket Mini™



- Built-in thermostat
- On/off switch
- Adjustable tilt control
- Spiral finned heating element
- 6 Foot Cord with 15 Amp plug
- Comfort grip handle
- Auto-reset safety limit
- Power indicator light
- Permanently lubricated motor
- Durable scratch and rust resistant finish
- 1-year limited warranty

The PSH1215T Portable Shop Heater

The PSH1215T is a rugged portable heater designed to provide supplemental heat at an affordable price. Perfectly suited for personal use applications and small workshops/worksites. The convenient 6 foot cord allows greater mobility to areas needing heat. Easily set the desired temperature with the built-in thermostat. Sure stop high-limit temperature control provides overheat protection. Standard color: yellow body, black grill and handle. 1 year warranty.

Ordering Information

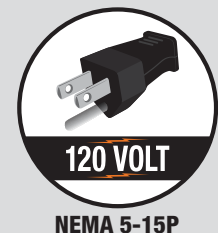
MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
PSH1215T	20634	120	1500	12.5	120V Plug



Specifications Minimum Clearance

BTU.....	5100B
Watts.....	1500W
Power (Volts).....	120V~60Hz
Amps.....	12.5 A
Cord Length.....	6 ft.
Switch.....	ON / OFF
Air Flow.....	216 CFM

front.....	3 ft.
top.....	1 ft.
sides.....	1 ft.
rear.....	1 ft.



Portable Shop Heater PSH2440TB



Model Code:

PSH	24	40	T	B
A	B	C	D	E

A: Series
B: 24 - 240V
C: Watts (4000)
D: T - Thermostat
E: B - Bracket

Yellow Jacket Junior™



- Standard color: Yellow with black accents
- Includes both comfort grip & storage handle
- High limit temperature control with manual reset
- 300 CFM fan
- Stainless steel tubular heating element
- Built-in thermostat (45-85°F)
- Standard finish epoxy/polyester paint
- Handle may be used as a reel for the electric cable
- Mounting bracket for wall or ceiling installation included
- Power indicating light
- 3 pronged 20A 250 VAC outlet required
- 6 ft. (2m) cord NEMA 6-20P
- 51° F temperature rise
- Auto fan delay
- 1-year limited warranty

The PSH Portable Shop Heater

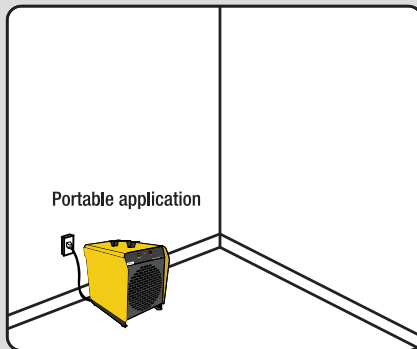
The PSH is a high power portable heater designed to provide a back-up heating source at an affordable price. Perfectly suited for the workshop, garage or construction sites. The convenient 6 foot cord allows greater mobility to areas needing heating, while the handle serves as a reel for the cord when not in use. Easily set the desired temperature with the built-in thermostat. Sure stop high-limit temperature control with manual reset provides overheat protection. With a 300 CFM fan, heat is dispersed efficiently. Standard color: Yellow. 240 Volt Single Phase. 1-year warranty.

Ordering Information

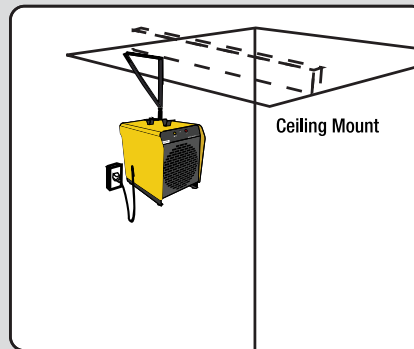
MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
PSH2440TB	20637	240/208*	4,000/3,000	16/14	NEMA #6-20P

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.

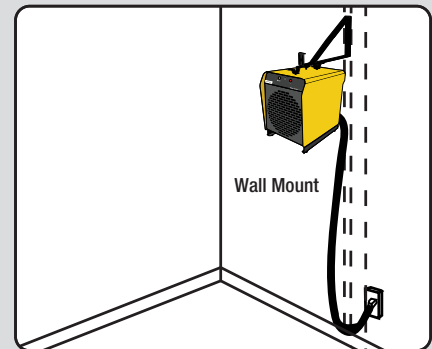
Easy Installation



Place on the floor and plug into 20 Amp outlet



Mount bracket to ceiling joist and attach heater



Mount bracket to wall stud and attach heater

Specifications

BTU.....	13,000B
Watts.....	3,750W
Heating Area (ft²).....	450 ft²
Power (Volts).....	240V~60Hz
Amps.....	16 A
Heat Settings 1.....	On/Off
Heat Settings 2.....	Thermostat

Minimum Clearance

front.....	3 ft.
top.....	1 ft.
sides.....	1 ft.
rear.....	1 ft.

Receptacle Type:

**20A-240V
NEMA #6-20R**
(NOT INCLUDED)

NOT 120 VOLT

**240 VOLT
Receptacle
Required**

*WILL NOT operate on 120V household receptacles

*See label on front panel for specific receptacle type

Portable Garage Heater PGH Series



Receptacle Type:
30A-250V
NEMA #6-30R
Ground (NOT INCLUDED)

NOT 120 VOLT
WILL NOT operate on 120V household receptacles

240 VOLT
Receptacle Required
*See label on front panel for specific receptacle type

Model Code:

PGH	24	48	-ETB
A	B	C	D

A: Series
B: 24 - 240V
C: Watts (4800)
D: ETB - Electronic Thermostat & Bracket

- ECO2S controller
- Energy efficient 2-stage heating
- Fan only mode
- Timer mode (1-9 Hours)
- Remote control with wall-mount holder included
- Large LED display
- SureStop™ Limit Protection
- Stainless steel tube elements
- 6 foot cord
- Carrying handle with built-in cord storage
- Universal wall/ceiling bracket included
- Limited 1-year warranty

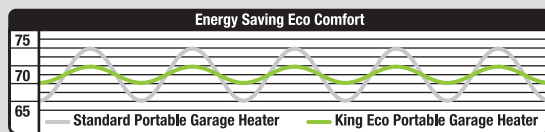
The ECO2S 2-Stage Portable Garage Heater with IR Remote Control

The ECO2S PGH Series portable garage heater offers unparalleled performance, energy efficiency and user control by incorporating another King innovation, the in-built ECO2S electronic thermostat with remote control. Offering energy efficient 2-stage heating, with ECO mode that automatically uses the lowest wattage needed to heat the room, integrated fan only and timer modes, as well as a remote control for simple operation. The included universal wall / ceiling bracket and convenient 6 foot cord, allows for greater mobility to areas needing heat. The SureStop™ high-temperature limit, with auto-rest provides protection from overheating.

Ordering Information

MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
PGH2448-ETB	20980	240/208*	4800/3600	20/17	30A-250V NEMA 6-30P

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.



*4800W

Receptacle Type:
30A-250V
NEMA #6-30R
Ground (NOT INCLUDED)

**4000W

Receptacle Type:
20A-240V
NEMA #6-20R
Ground (NOT INCLUDED)

NOT 120 VOLT
WILL NOT operate on 120V household receptacles

240 VOLT
Receptacle Required
*See label on front panel for specific receptacle type

Model Code:

PGH	24	48	T	B
A	B	C	D	E

A: Series
B: 24 - 240V
C: Watts (4000) (4800)
D: T - Thermostat
E: B - Bracket

- In-built thermostat and On/Off Switch
- SureStop™ Limit Protection
- Auto-reset Fan Delay increases efficiency
- Stainless Steel tube elements
- 6 foot cord
- Carrying handle with built-in cord storage
- Universal wall / ceiling bracket included
- Durable scratch and rust resistant finish
- Limited 1-year warranty

The PGH Series Portable Garage Heater

The PGH Series is a rugged portable heater designed to provide a high capacity heating source at an affordable price. Perfectly suited for workshops, garages or construction sites. Easily set the desired temperature with the in-built mechanical thermostat. Offering a SureStop™ high temperature-limit, with auto-reset providing protection from overheating.

Ordering Information

MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
PGH2448TB*	20984	240/208	4800/3600	20/17	30A-250V NEMA 6-30P+
PGH2440TB*	20998	240/208	4000/3000	16/14	20A -240V NEMA 6-20P++

*Does not come with electronic control or remote

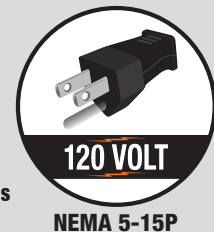
Radiant Heater RSH1215



Model Code:

RSH	12	15
A	B	C

A: Series
B: 12 - 120V
C: Watts (1500)



- 1500W Infrared quartz heating tube
- For dry locations only
- 6 foot cord 120V grounded plug
- Anti-freeze function
- Adjustable thermostat
- Overheat Protection
- Durable extruded aluminum housing
- Wall or ceiling mount bracket included
- 1-year limited warranty

The RSH1215 Infrared Quartz Heater

The RSH1215 1500W Infrared quartz heater has the ability to transfer heat to a person or object without heating the surrounding air. The RSH1215 is commonly used for indoor or outdoor covered spaces spot heating. Perfect for garages, covered patios, or workshops. The universal wall and ceiling mounting bracket is easy to install and angle is adjustable to suit your needs.

Ordering Information

Dimensions
7½" h x 34½" w x 3¾" d

MODEL	UPC	VOLTS	WATTS	AMPS	Plug Type
RSH1215	20983	120	1500	12.5	120V Plug

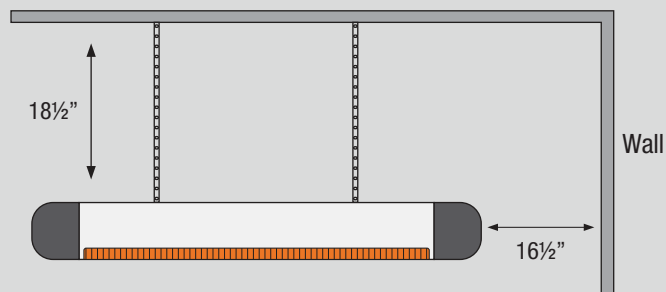
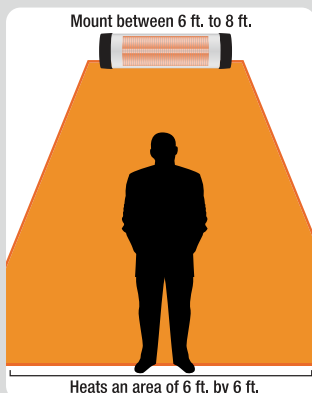
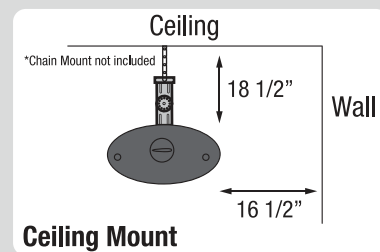
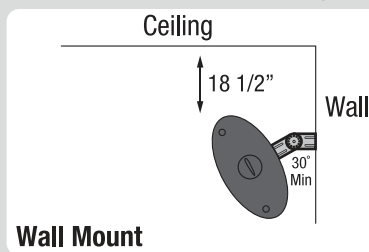
Accessories

MODEL	UPC	DESCRIPTION	WEIGHT
RLAMP1215	20981	REPLACEMENT LAMPS	1

Specifications

Watts.....	1500W
Power (Volts).....	120V~60Hz
Amps.....	12.5 A
Cord Length.....	6 ft.
Heat Settings.....	1
Approvals.....	

Easy Installation



Locate stud in ceiling or wall and securely fasten bracket. Attach heater to bracket, adjust to desired position and tighten down. Must have minimum 72" clearance from the floor.

Selecting The Proper Unit Heater

To obtain the best performance from King unit heaters use this chart for proper heater selection. To determine which type of unit is best note the ceiling height and room size. In addition to the air throw capabilities of each type of unit heater, wall and ceiling insulation must be considered when determining wattage requirements. The most common error of unit heater selection is installing a unit designed for low ceiling application on a high ceiling. In this application heat is unable to circulate properly to the floor – the result: unsatisfactory comfort or performance level. Following this guide allows correct unit heater selection for the determined space and environment. With correct selection and placement this King unit heater will provide years of high performance heating.

Application Tips

First, calculate heating loads in the conventional way using the N.E.M.A. handbook or ASHRAE guide. Next, determine quantity and size of heaters to be used. In instances where large groups of people are normally settled in the same location use a large number of smaller kW heaters (Example: people on a production line or skilled machine operations). By utilizing heaters in this manner one can best distribute uniform heat, prevent hot drafts, reduce potential noise levels and balance the electrical operating demand. When considering warehouse areas or storage rooms where heat distribution and constant temperatures are less important, use fewer heaters of higher capacity. To maintain uniform heat and reduce stratified air it is recommended that the total CFM of the units turn the air over approximately 3 times per hour.

Horizontal Mount

Smaller rooms can be heated by one unit heater. Where two walls are exposed heaters should be mounted as shown below. In larger rooms, units should be located so air streams wipe exposed walls without blowing at them. Units should be located so the airstream of one supports that of another thus setting up a circulatory air movement. (Distance between units to be approximately 1 times published air throw). Units should not be mounted horizontally in areas having ceiling heights in excess of 10 to 12 feet. *See Figure 1*

Vertical Mount

Units should be mounted vertically in high bay areas where they may not otherwise interfere with assorted material or handling equipment. Heaters should be situated to provide free air circulation. Size and selection of units should be based on recommended mounting height. Unit heaters are frequently used to combat cold air inrush when loading dock doors are opened. For such applications, one or more units should be arranged to blow warm air vertically in front of opening. *See Figure 2*

Dual Mounting

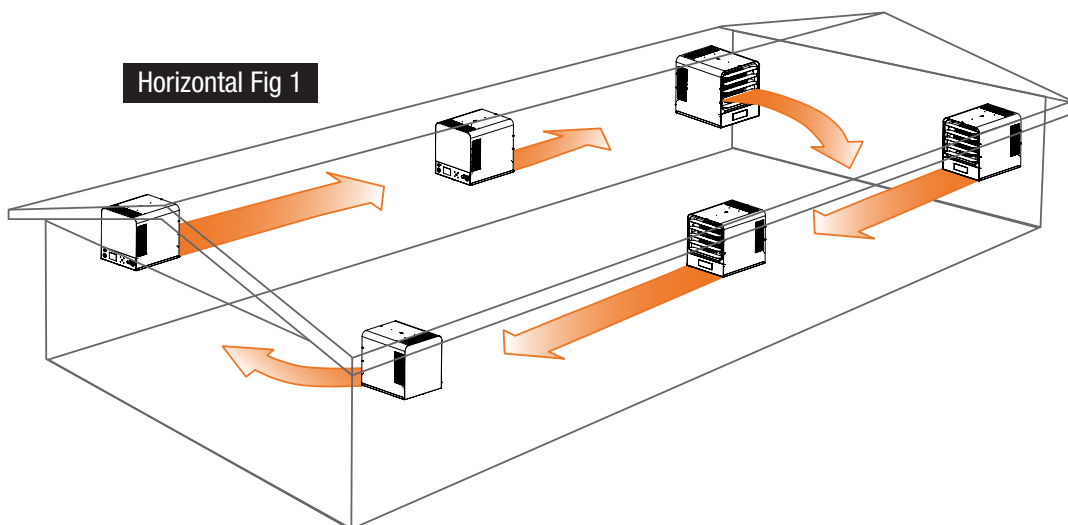
Where square footage is large and comfort essential, both horizontal and vertical installations may best serve your requirements. *See Figure 3*

Mounting Limitations

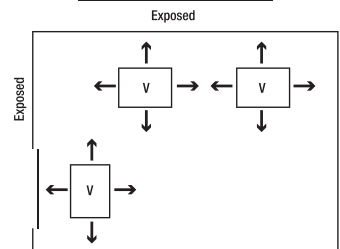
Unit heaters should not be used in potentially explosive atmospheres. The finish is not intended for direct salt spray exposure in marine applications or the highly corrosive atmospheres of swimming pools, chemical storage bins, etc. Please refer to the factory for explosion proof or marine application heater information. Do not install unit heaters above recommended maximum mounting height. See chart for height information. Obstructions must not block unit heater air inlet or discharge. To prevent possible injury heaters must be mounted at least 6 feet above the floor to prevent accidental contact with heating element or fan blade.

Selection

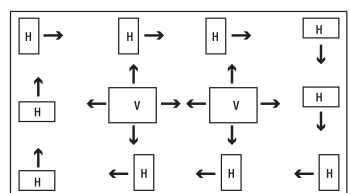
CEILING HEIGHT	UNDER 8 FEET	10 FEET	12 FEET	13 FEET AND OVER
250 Sq. Ft.	N/A	KBP	KBP	KFUH
1000 Sq. Ft.	KBP	KBP	KBP / KB	KFUH
2000 Sq.Ft.	KBP / KB	KBP / KB	KB / KFUH	KFUH
3000 Sq. Ft.	KB	KB	KFUH	KFUH
5000 Sq. Ft.	KB	KFUH	KFUH	KFUH
10,000 Sq. Ft.	KB	KFUH	KFUH	KFUH



Vertical Fig 2



Dual Fig 3



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.

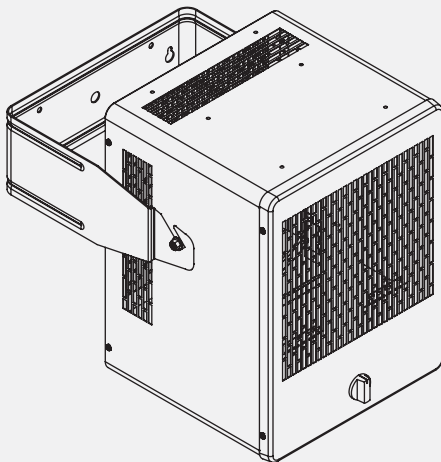
Exterior: Durable textured finish.

Approval: cULus (E41422)

Garage/Shop Heater EKB Series

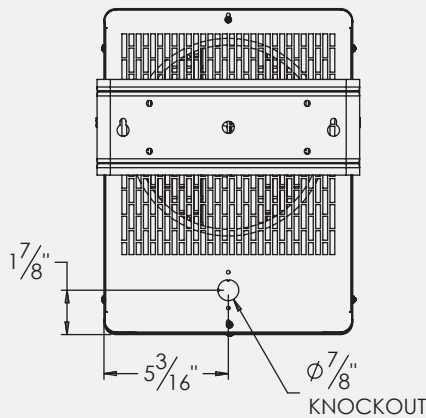
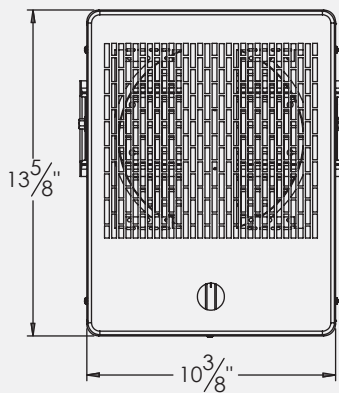
Dimensional Data

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

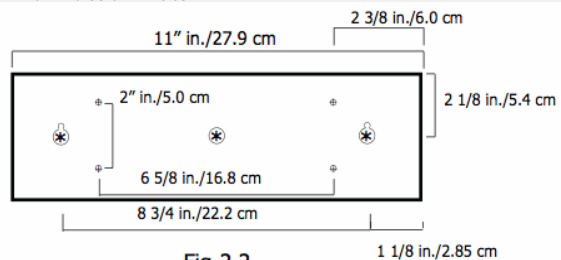
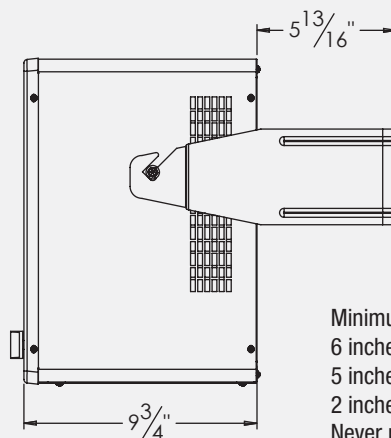
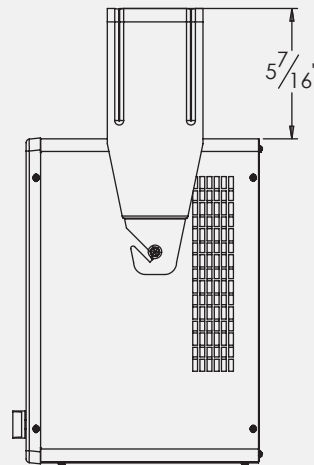


Fig 2.2



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.

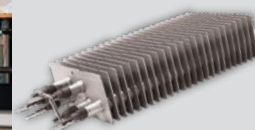
Compact Unit Heater KBP Series



Model Code:

KBP	24	06
A	B	C

A: Series
 B: 12 - 120V 24 - 240V
 20 - 208V 27 - 277V
 C: Watts (950 to 6000)


Pic-A-Watt
Steel Fin Element


- Pic-A-Watt® element
- Multiple wattage selection
- Long life cast iron motor
- Aluminum fan blade
- High accuracy built-in thermostat
- Powder-coated, textured finish
- Fan delay
- Patented Smart Limit Protection®
- Universal (wall/ceiling) mounting bracket
- Selector switch—fan/heat/off
- 5-year limited warranty
- Standard color: almond



Multiple Wattage Unit Heater

The KBP is the industry standard for multi-wattage garage / shop heaters. Designed for rugged performance, the flow-through design efficiently moves air by pulling air from the back of the heater and discharges it out the front, easily heating a large space. With high quality components suitable for both residential and commercial applications, it comes standard with a 3-position switch and an accurate built-in thermostat. The integral fan delay continues to dissipate heat from the elements during the cool down period, maximizing the heat exchange in the room. King's exclusive dual Pic-A-Watt steel fin elements allow customers to select from a range of wattage options, tailoring the heater to an area's specific heating requirements.

Ordering Information

MODEL	UPC	VOLTS	PHASE	WATTAGE	AMPS	WEIGHT (lbs.)
KBP1230	15191	120	1	2850•1900•950	24	26
KBP2406*	15190	240/208*	1	5700•4750•3800•2850•1900•950	24/27	24
KBP2006-3MP**	15193	240/208*	1-3	5700•2850	24/27	26
KBP2406-3MP**	15188	240/208*	1-3	5700•2850	24/27	25
KBP2704	15187	277	1	4000•3000•2000•1000	15	26
KBP4804-3MP**	15196	480***	1-3	4160	9/5	26
KBP4806-3MP**	15197	480***	1-3	6000	13/8	26

*Approved for 208V operation. Heater will draw 13% less Amps and 25% less wattage **3-Phase units do not have Heat / Fan / Off ***480 Volt models are 24 Volt control
 Minimum clearance from combustibles: 18" from front, 2" from top, 6" from sides and 5" from rear. Minimum clearance 6' from floor.

Engineering Specifications

Contractor shall supply and install KBP Series unit heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Pic-A-Watt Heating Element: Exclusive King multi-tap element allows field adjustment to several wattages at time of installation. Steel sheath elements of various resistance are copper brazed to steel plate fins producing a multi-wattage heating element.

Built-in Thermostat: Single pole factory installed hydraulic capillary tube thermostat for precision heating control. Operating range 40° to 90° F.

Fan/Heat/Off Switch: 3-position switch provides heating and summer fan only operation.

Fan Delay Switch: The fan continues to operate after the thermostat shuts off in order to remove the residual heat left in the elements. Power must not be interrupted.

CFM: 270

Universal Mounting Bracket: Combination ceiling/wall bracket is included with every heater.

Unit Bearing Motor: Permanently lubricated, long life, unit bearing 4-Pole motor with 20 cc of oil. Enclosed rotor provides long-lasting, trouble-free operation. Thermally protected. 1300 RPM.

Electrically Held Smart Limit Protection: Heater shuts off when an over temperature condition exists and automatically resets when the normal operating temperature returns.

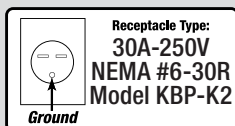
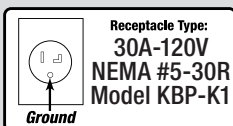
Tested: UL 2021

Approval: cCSAus

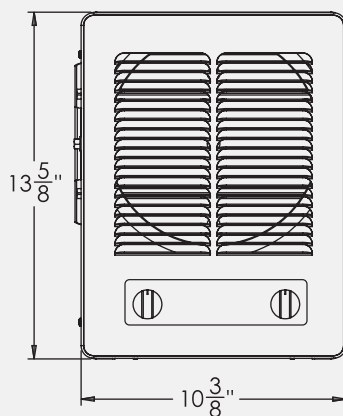
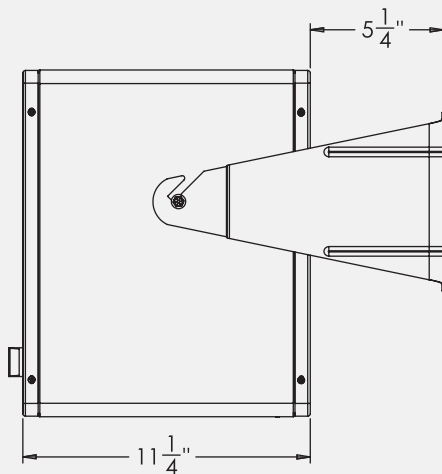
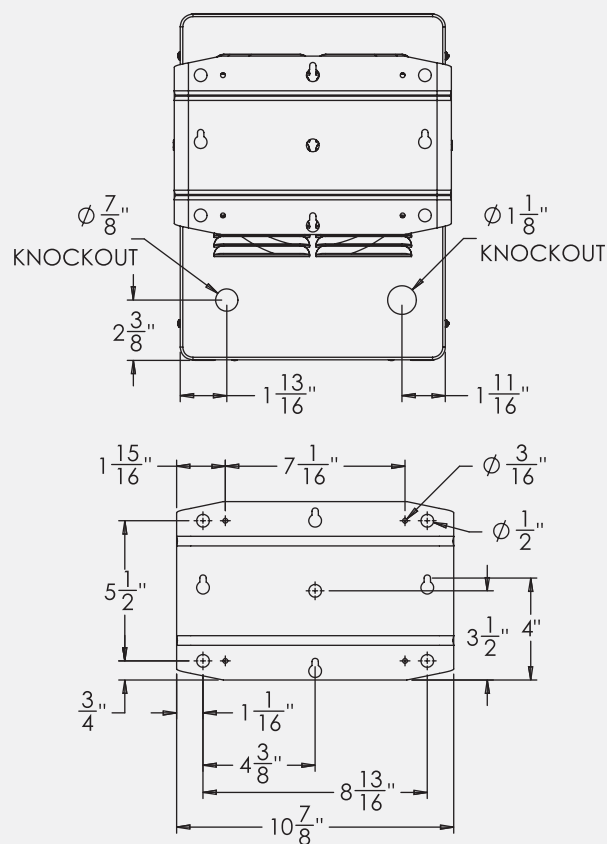
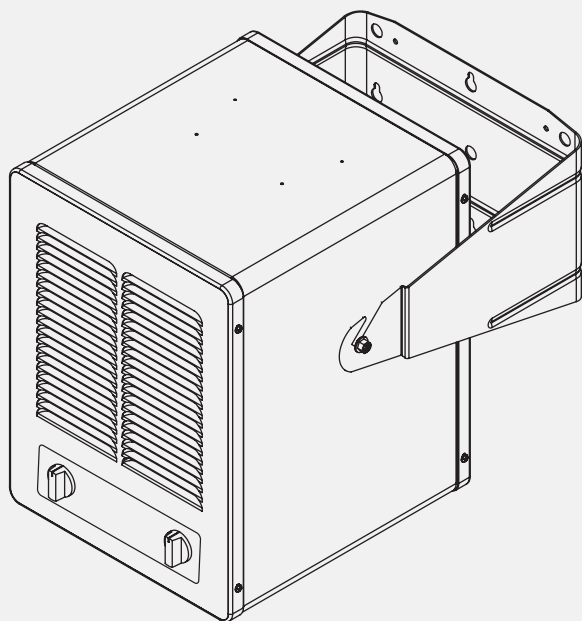
Accessories

MODEL	UPC	PHASE	WEIGHT (lbs.)
KBP-K1	15198	6 ft. cord/handle kit - 120V, 1-Phase, 30 Amp (Receptacle not included. See below)	2
KBP-K2	15199	6 ft. cord/handle kit - 240V, 1-Phase, 30 Amp (Receptacle included. See below)	2
KBP-RT	N/A	Provision for remote thermostat (line voltage)	N/A
*KBP-RTL1	N/A	Provision for remote thermostat - 1-Phase (24V)	N/A
*KBP-RTL3	N/A	Provision for remote thermostat - 3-Phase (24V)	N/A

*Factory installed only - Heat/Fan/Off activated at unit only - can not operate remotely



Dimensional Data



Compact Heavy Duty Garage Heater GH Series



Model Code:

GH	24	05	TB
A	B	C	D

A: Series
B: 24 - 240V
C: Watts
D: TB- Thermostat & Bracket



Full color consumer packaging

- Spiral finned element
- Permanently lubricated motor
- Patented Smart Limit® protection
- High efficiency aluminum fan blade
- Built-in thermostat
- Universal mounting bracket
- Standard color: Gray
- 3-year limited warranty
- Adjustable louvers
- Power & Over-temp indicating lights
- High /Low switch & fan delay*
- Prewired for remote thermostat option



The GH Compact Heavy Duty Unit Heater

The GH compact heavy duty unit heater is designed for use as primary or supplemental heat sources in large or exposed areas, including commercial stores, workshops, barns, storage shed and garages to prevent freezing. Spiral finned steel elements and high air volume (CFM) ensure efficient heat exchange producing cooler element operation, prolonging heater life. By combining the highest quality components with a dynamically balanced fan blade, the GH unit heater will provide years of trouble-free service. Includes both a power on indicating light and a red caution light that comes on if the heater stops due to the over temperature limit tripping. A universal wall/ceiling bracket provides for quick and simple installation. The built-in thermostat turns the heater on and off to maintain the desired room temperature or a remote wall thermostat can be used. The heater is prewired to easily convert from the built-in thermostat to a wall mounted line voltage thermostat. The heater can also be controlled by purchasing a transformer relay to operate a remote 24V wall thermostat. Refer to the installation instructions regarding the amperage requirements for use of both the line voltage thermostats and transformer relays.

Ordering Information - single phase

MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT	WT. (lbs.)
*GH2405TB	22278	5	17	1	240	20.8/18	9W	400	40°	16ft.	8ft.	30.5
GH2407TB	22279	7.5	25.6	1	240	31.2/27	16W	600	40°	20ft.	9ft.	45.0
GH2410TB	22280	10	34.1	1	240	41.6/36.1	25W	725	44°	24ft.	10ft.	45.0

* High Low switch & fan delay not available in 5kW unit

Engineering Specifications

Contractor shall supply and install GH Series unit heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Construction: All exterior and interior metal enclosure parts are made from 20 gauge electrogalvanized Steel with a rust inhibiting baked enamel finish. Rounded corners give it an attractive modern appearance.

Adjustable Outlet Louver: Louvers direct air up or down as needed for the heating application.

Rear Intake Screen: Heavy gauge steel screen protects against foreign objects making accidental contact with the rotating fan blade.

Spiral Fin Elements: The metal sheath element is copper brazed with spiral fins then molded into a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum airflow stream.

Aluminum Fan Blade: Axial flow-type fan mounted directly to the motor shaft for maximum efficiency.

Built-in Thermostat: Single pole factory installed hydraulic capillary tube thermostat for precision heating control. Operating range 40° to 90° F.

Red Over-temp Caution in Light: Only comes on if the high temperature safety limit has tripped.

Yellow Power on Light: Gives visual indication that the heater is turned on.

* **High/Low Switch:** Provided on 7.5kw & 10kw models. Low setting reduces wattage in half. Fan delay keeps fan running after thermostat cycles off to dissipate all the heat from the elements, making the heater more efficient and prolonging the life of the elements.

Compact Heavy Duty Garage Heater GH Series

Engineering Specifications Continued

Two Pole Contactor: Provided on 7.5kw & 10kw models. Breaks both L1 and L2 of the power supply wires, the control circuit operates at 240V.

Pre-Wired For Optional Room Thermostat: Heater shall include a 2-pole terminal block and is prewired to easily convert from the built-in thermostat to a wall mounted line voltage thermostat. The heater can also be controlled by purchasing a transformer relay to operate a remote 24V wall thermostat. Refer to the installation instructions regarding the amperage requirements for use of both the line voltage thermostats and transformer relays. For 240V heaters use transformer relay model 24A01G-3 or RC840T-240/U.

Electrically Held Thermal Overload: Heaters shall be equipped with King's patented Smart Limit Protection®, which disconnects the heater when an over temperature condition occurs. If the Smart Limit trips, it will remain open and will not automatically reset until the thermostat or circuit breaker is turned off for a few minutes. After the overload switch cools the power can be turned back on and the heater will operate again. This keeps the heater from repeatedly cycling allowing the user to

determine the cause of the over temperature condition such as an object being placed in front of heater.

Totally Enclosed Fan Motor: Permanently lubricated long life, unit bearing with 20cc of oil. Epoxy-coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Easy Installation: A quick access panel located on the bottom of the heater allows for quick wiring and easy maintenance for the life of the heater. Includes universal wall/ceiling bracket for simple installation.

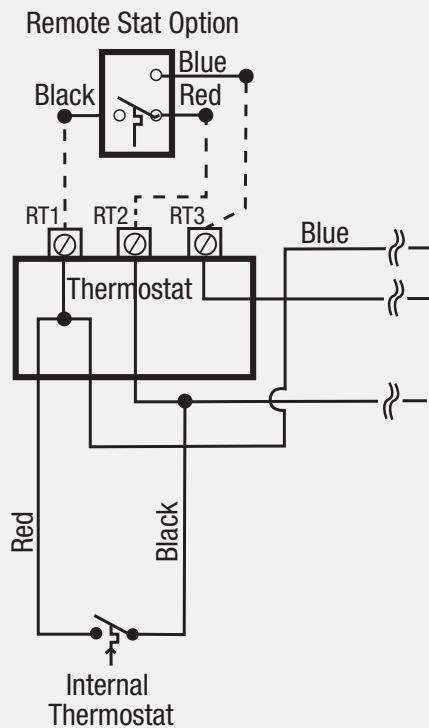
Approvals: cULus (E41422)

• GH Wall/Ceiling Bracket Included

Unit heater brackets can be used for mounting on ceiling or wall. 3/8" threaded hole on top of unit heater can also be used with threaded rod to drop the unit closer to the floor.

Pre-Wired For Optional Line Voltage Room Thermostat*:

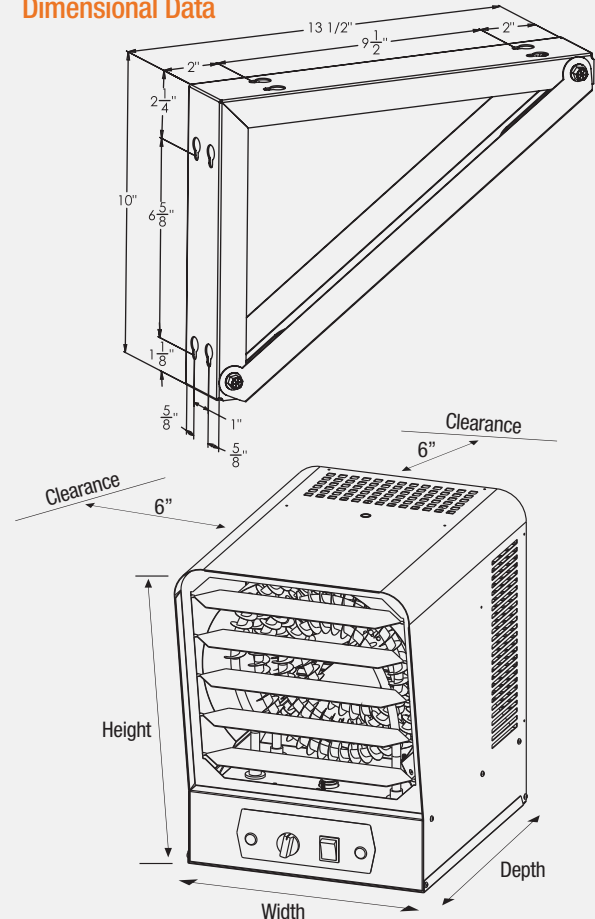
Connect a standard 240V single pole (SP) thermostat as a switch leg or a 3-wire SP electronic thermostat by providing both power legs, (L1 and L2) to drive the electronics.



Note: Do not use a double pole thermostat. The incoming power supply is connected to the heater and is then switched through a contactor, so the thermostat will draw less than 1 amp through the control circuit.

*Above diagram reflects wiring for 7.5kW & 10kW heaters only. For 24V or line voltage remote thermostat wiring of 5kW units, refer to installation manual for details

Dimensional Data



HEATER MODEL	HEIGHT	DEPTH	WIDTH
5kW	15.5"	12"	12.5"
7.5kW	16.25"	16.5"	12.5"
10kW	16.25"	16.5"	12.5"

Field Mount Accessories

MODEL	DESCRIPTION	WT. (lbs.)
24A01G-3	Electric Heat Relay For 240V	0.5
RC840T-240/U	Electric Heat Relay With a 24V-208/240V Transformer	0.5

Compact Heavy Duty Unit Heater SKB Series



Model Code:

SKB	24	05	1	T	B
A	B	C	D	E	F

- A: Series
- B: 20 - 208V
24 - 240V
- C: Watts
- D: Single Phase
- E: Thermostat
- F: Bracket



Kraft box packaging

- Spiral finned element
- Permanently lubricated motor
- Patented Smart Limit® protection
- High efficiency aluminum fan blade
- Built-in thermostat
- Universal mounting bracket
- Standard color: Gray
- 3-year limited warranty
- Adjustable louvers
- Power & Over-temp indicating lights
- High /Low switch & fan delay*
- Prewired for remote thermostat option



The SKB Compact Heavy Duty Unit Heater

The SKB compact heavy duty unit heater is designed for use as primary or supplemental heat sources in large or exposed areas, including commercial stores, workshops, barns, storage shed and garages to prevent freezing. Spiral finned steel elements and high air volume (CFM) ensure efficient heat exchange producing cooler element operation, prolonging heater life. By combining the highest quality components with a dynamically balanced fan blade, the SKB unit heater will provide years of trouble-free service. Includes both a power on indicating light and a red caution light that comes on if the heater stops due to the over temperature limit tripping. A universal wall/ceiling bracket provides for quick and simple installation. The built-in thermostat turns the heater on and off to maintain the desired room temperature or a remote wall thermostat can be used. The heater is prewired to easily convert from the built-in thermostat to a wall mounted line voltage thermostat. The heater can also be controlled by purchasing a transformer relay to operate a remote 24V wall thermostat. Refer to the installation instructions regarding the amperage requirements for use of both the line voltage thermostats and transformer relays.

Ordering Information - single phase

MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT	WT. (lbs.)
*SKB2005-1-T-B	13413	5	17	1	208	24	9W	400	40°	16ft.	8ft.	30.5
SKB2007-1-T-B	13414	7.5	25.6	1	208	36.1	16W	600	40°	20ft.	9ft.	45.0
SKB2009-1-T-B	13415	9.2	31.4	1	208	44.2	25W	725	42°	24ft.	10ft.	45.0
SKB2405-1-T-B	13410	5	17	1	240/208*	20.8/18	9W	400	40°	16ft.	8ft.	30.5
SKB2407-1-T-B	13411	7.5	25.6	1	240/208*	31.2/27	16W	600	40°	20ft.	9ft.	45.0
SKB2410-1-T-B	13412	10	34.1	1	240/208*	41.6/36.1	25W	725	44°	24ft.	10ft.	45.0

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V. *High Low switch & fan delay not available in 5kW unit

Engineering Specifications

Contractor shall supply and install SKB Series unit heaters manufactured by King Electrical Mfg. Company.

Construction: All exterior and interior metal enclosure parts are made from 20 gauge electrogalvanized Steel with a rust inhibiting baked enamel finish. Rounded corners give it an attractive modern appearance.

Adjustable Outlet Louver: Louvers direct air up or down as needed.

Rear Intake Screen: Heavy gauge steel screen protects against foreign objects making accidental contact with the rotating fan blade.

Spiral Fin Elements: The metal sheath element is copper brazed with spiral fins then molded into a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum airflow stream.

Aluminum Fan Blade: Axial flow-type fan mounted directly to the motor shaft for maximum efficiency.

Built-in Thermostat: Single pole factory installed hydraulic capillary tube thermostat for precision heating control. Operating range 40° to 90° F.

Red Caution Light: Comes on if high temperature safety limit trips.

Yellow Power on Light: Gives visual indication that the heater is turned on.

* **High/Low Switch:** Provided on 7.5kw & 10kw models. Low setting reduces wattage in half. Fan delay keeps fan running after thermostat cycles off to dissipate all the heat from the elements, making the heater more efficient and prolonging the life of the elements.

Compact Heavy Duty Unit Heater SKB Series

Engineering Specifications Continued

Two Pole Contactor: Provided on 7.5kw & 10kw models. Breaks both L1 and L2 of the power supply wires, the control circuit operates at 240V.

Pre-Wired For Optional Room Thermostat: Heater shall include a 2-pole terminal block and is prewired to easily convert from the built-in thermostat to a wall mounted line voltage thermostat. The heater can also be controlled by purchasing a transformer relay to operate a remote 24V wall thermostat. Refer to the installation instructions regarding the amperage requirements for use of both the line voltage thermostats and transformer relays. For 240V heaters use transformer relay model 24A01G-3 or RC840T-240/U. For 208V heaters use model 24A05E-1 or RC840T-240/U can be used on 7.5kW/10kW heaters.

Electrically Held Thermal Overload: Heaters shall be equipped with King's patented Smart Limit Protection®, which disconnects the heater when an over temperatures condition occurs. If the Smart Limit trips, it will remain open and will not automatically reset until the thermostat or circuit breaker is turned off for a few minutes. After the overload switch cools the power can be turned back on and the heater will operate again. This keeps the heater from repeatedly cycling allowing the user to

determine the cause of the over temperature condition such as an object being placed in front of heater.

Totally Enclosed Fan Motor: Permanently lubricated long life, unit bearing with 20cc of oil. Epoxy-coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Easy Installation: A quick access panel located on the bottom of the heater allows for quick wiring and easy maintenance for the life of the heater. Includes universal wall/ceiling bracket for simple installation.

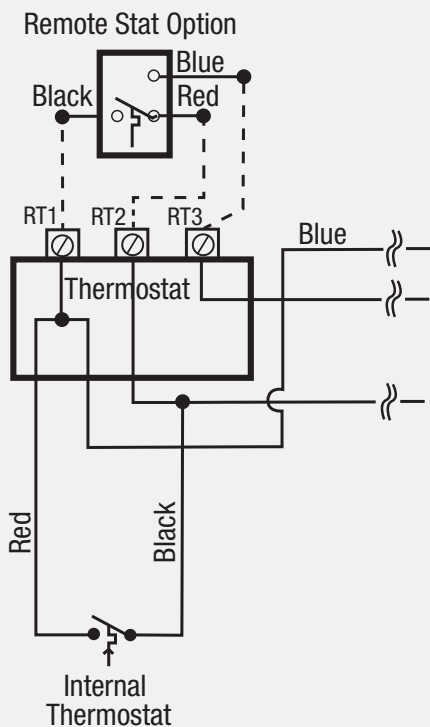
Approvals: cULus (E41422)

• SKB Wall/Ceiling Bracket Included

Unit heater brackets can be used for mounting on ceiling or wall. 3/8" threaded hole on top of unit heater can also be used with threaded rod to drop the unit closer to the floor.

Pre-Wired For Optional Line Voltage Room Thermostat*:

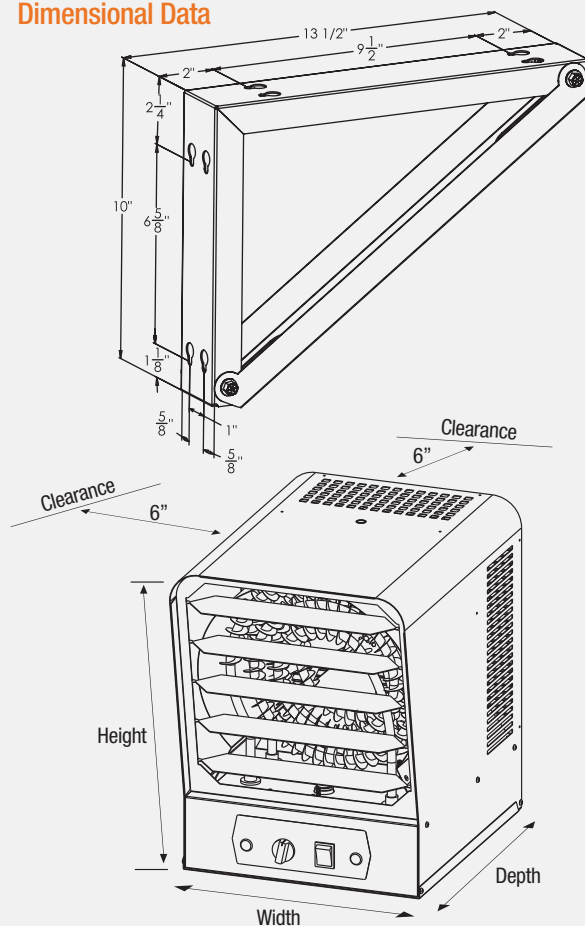
Connect a standard 240V single pole (SP) thermostat as a switch leg or a 3-wire SP electronic thermostat by providing both power legs, (L1 and L2) to drive the electronics.



Note: Do not use a double pole thermostat. The incoming power supply is connected to the heater and is then switched through a contactor, so the thermostat will draw less than 1 amp through the control circuit.

*Above diagram reflects wiring for 7.5kW & 10kW heaters only. For 24V or line voltage remote thermostat wiring of 5kW units, refer to installation manual for details

Dimensional Data



HEATER MODEL	HEIGHT	DEPTH	WIDTH
5kW	15.5"	12"	12.5"
7.5kW	16.25"	16.5"	12.5"
10kW	16.25"	16.5"	12.5"

Field Mount Accessories

MODEL	DESCRIPTION	WT. (lbs.)
24A01G-3	Electric Heat Relay For 240V	0.5
24A05E-1	Electric Heat Relay For 208V	0.5
RC840T-240/U	Electric Heat Relay With a 24V-208/240V Transformer	0.5

Heavy Duty Unit Heater KB Series



Model Code:

KB	48	10	-1	-B1
A	B	C	D	E

A: Series
B: 20 - 208V, 24 - 240/208V, 27 - 277V, 48 - 480V
C: kiloWatts (4-66)
D: -1 = Single Phase, -3 = Three Phase
E: -B1 = Bracket



- Spiral finned element
- Long life unit bearing motor
- Manual limit
- Aluminum fan blade
- Built-in thermostat option
- Standard color: gray
- High-temp safety limit
- Universal mounting bracket included
- Tested to UL standards for safety
- Adjustable louvers
- 5-year limited warranty
- Hinged access cover



The KB Horizontal Unit Heater

King's KB series unit heaters are designed for use as primary or supplemental heat sources in large or exposed areas, including high-rise buildings, stores, warehouses, garages, water treatment and fire room vaults to prevent freezing. Spiral finned steel elements and high CFM ensure even air distribution producing cooler element operation, prolonging heater life. By combining the highest quality components, with a dynamically balanced fan blade, the KB unit heater will provide years of trouble-free service. Includes universal wall/ceiling bracket for simple installation.

Factory Installed Options

Power Contactor: Standard on heaters above 5kW and on all 3-Phase models; optional on 3 to 5kW 1-Phase heaters.
24 Volt Control: Standard on 480V heaters; optional on all other heaters.
Mounting: Standard universal bracket made from heavy gauge Steel.

Control Options

- 1-Pole or 2-Pole field installed thermostat temperature indicated label with 44°F energy code setting
- Padlocking disconnect
- Wall-mounted thermostat line or low voltage

NOTE: Multiple heaters can be controlled by a single thermostat if phasing is coordinated in the control wiring.

Engineering Specifications

Contractor shall supply and install KB Series unit heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Construction: All exterior and interior metal enclosure parts are made from 20 gauge electrogalvanized Steel with a rust inhibiting baked enamel finish. Smooth rounded corners and protective edge trim give an attractive modern appearance.

Adjustable Outlet Louver: Louvers direct air up or down as needed for the heating application.

Rear Intake Screen: Heavy gauge steel screen protects against foreign objects making accidental contact with the rotating fan blade.

Spiral Fin Elements: The metal sheath element is copper brazed with spiral fins then molded into a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum airflow stream.

Totally Enclosed Fan Motor: Permanently lubricated long life, unit bearing with 20cc of oil. Epoxy-coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Staging: Two-Stage operation is available as an optional feature.

Aluminum Fan Blade: Axial flow-type fan mounted directly to the motor shaft for maximum efficiency.

Manual Thermal Cutout: 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. Automatically reset of thermal overloads, which allow the element to continue to cycle under abnormal conditions, will not be accepted.

Internal Controls: Magnetic contactors are standard on all 480V heaters, all 208V/1-Phase, 240V/1-Phase, 277V/1-Phase heaters above 6kW, and all 3-Phase heaters. The control voltage is equal to the line voltage (208, 240 or 277) except for 480V models where a transformer is provided for 24V control. Over 5kW the line voltage control is operating the contactor coil only and will draw only 1 Amp. See page 64 for control voltages.

Fusing: Internal circuit fusing is provided when the heater ampacity exceeds 48 Amps to comply with N.E.C. standards. A fan delay is provided standard on models 12.5-kW and above to dissipate residual heat from the heating elements.

Easy Installation: A hinged access panel located on the bottom of the heater allows for quick wiring and easy maintenance for the life of the heater. Includes universal wall/ceiling bracket for simple installation.

Approvals: cULus (E41422)

Heavy Duty Unit Heater KB Series

Ordering Information - single phase

MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	**THERMOSTAT CONTROL VOLTAGE	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT HEIGHT	SIZE	WT. (lbs.)
KB2003-1	20928	3.3	11.1	1	208	15.8	208	9W	400	36°	15ft.	8ft.	A	30.5
KB2403-1	20928	3.3	11.1	1	240/208*	13.7	240	9W	400	36°	15ft.	8ft.	A	30.5
KB2703-1	20928	3.3	11.1	1	277	11.9	277	9W	400	36°	15ft.	8ft.	A	30.5
KB2004-1-B1	20928	4	13.5	1	208	19.2	208	9W	400	38°	15ft.	8ft.	A	30.5
KB2404-1-B1	13354	4	13.5	1	240/208*	16.6/14.4	240	9W	400	38°	15ft.	8ft.	A	30.5
KB2704-1-B1	13361	4	13.5	1	277	14.4	277	9W	400	38°	15ft.	8ft.	A	30.5
KB4804-1-B1	22091	4	13.5	1	480	8.3	24	9W	400	38°	15ft.	8ft.	A	30.5
KB2005-1-B1	13366	5	17	1	208	24	208	9W	400	40°	16ft.	8ft.	A	30.5
KB2405-1-B1	13374	5	17	1	240/208*	20.8/18	240	9W	400	40°	16ft.	8ft.	A	30.5
KB2705-1-B1	15240	5	17	1	277	18.1	277	9W	400	40°	16ft.	8ft.	A	30.5
KB4805-1-B1	13388	5	17	1	480	10.4	24	9W	400	40°	16ft.	8ft.	A	30.5
KB2007-1-B2	22242	7.5	25.6	1	208	36.1	208	16W	600	40°	20ft.	9ft.	B	45.0
KB2407-1-B2	22243	7.5	25.6	1	240/208*	31.2/27	240	16W	600	40°	20ft.	9ft.	B	45.0
KB2707-1-B2	22095	7.5	25.6	1	277	27	277	16W	600	40°	20ft.	9ft.	B	45.0
KB4807-1-B2	22244	7.5	25.6	1	480	15.6	24	16W	600	40°	20ft.	9ft.	B	45.0
KB2010-1-B2	13538	10	34.1	1	208	48.1	208	25W	725	44°	24ft.	10ft.	B	45.0
KB2410-1-B2	13546	10	34.1	1	240/208*	41.6/36.1	240	25W	725	44°	24ft.	10ft.	B	45.0
KB2710-1-B2	13554	10	34.1	1	277	36.1	277	25W	725	44°	24ft.	10ft.	B	45.0
KB4810-1-B2	13560	10	34.1	1	480	20.8	24	25W	725	44°	24ft.	10ft.	B	45.0
KB2012-1-B2	13616	12.5	42.7	1	208	60.1	208	35W	825	48°	30ft.	11ft.	C	46.5
KB2412-1-B2	13624	12.5	42.7	1	240/208*	52/45.1	240	35W	825	48°	30ft.	11ft.	C	46.5
KB2712-1-B2	22096	12.5	42.7	1	277	45.1	277	35W	825	48°	30ft.	11ft.	C	46.5
KB4812-1-B2	22097	12.5	42.7	1	480	26	24	35W	825	48°	30ft.	11ft.	C	46.5
KB2015-1-B2	13672	15	51.2	1	208	72.1	208	50W	925	51°	33ft.	12ft.	C	46.5
KB2415-1-B2	22098	15	51.2	1	240/208*	62.5/54.1	240	50W	925	51°	33ft.	12ft.	C	46.5
KB2715-1-B2	22099	15	51.2	1	277	54.2	277	50W	925	51°	33ft.	12ft.	C	46.5
KB4815-1-B2	22100	15	51.2	1	480	31.3	24	50W	925	51°	33ft.	12ft.	C	46.5

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.

Maximum mounting height is manufacturer's recommendation

**Over 5kw line voltage control is operating the contactor coil only, and will draw under 1 amp.

Dimensional Data

Twin Unit Size F & G

HEATER SIZE	HEIGHT	DEPTH	WIDTH
A	16.5"	11"	15"
B	16.5"	13.5"	15"
C	16.5"	18"	15"
E	20.5"	18"	15"
F	18.5"	18"	30"
G	16.5"	18"	30"

KBB-1 / KBB-2 / KBB-3
 Unit heater brackets can be used for mounting on ceiling or wall. 3/8" threaded hole on top of unit heater can also be used with threaded rod to drop the unit closer to the floor. Refer to bracket selection chart.

Heavy Duty Unit Heater KB Series

Ordering Information - three phase

MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	**THERM. CONTROL VOLTAGE	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT HEIGHT	*SIZE	WT. (lbs.)
KB4803-3MP-B2	13318	3	10.2	1-3	480	6.3	24	5W	400	37°	14ft.	8ft.	C	46.5
KB2005-3MP-B2	13370	5	17.1	1-3	208	24 & 13.9	208	9W	400	40°	16ft.	8ft.	C	46.5
KB2405-3MP-B2	22102	5	17.1	1-3	240/208*	20.8/18 & 18/15.6	240	9W	400	40°	16ft.	8ft.	C	46.5
KB4805-3MP-B2	13392	5	17.1	1-3	480	10.4 & 6	24	9W	400	40°	16ft.	8ft.	C	46.5
KB2007-3MP-B2	13450	7.5	25.6	1-3	208	36.1 & 20.8	208	16W	600	40°	20ft.	9ft.	C	46.5
KB2407-3MP-B2	13458	7.5	25.6	1-3	240/208*	31.2/27 & 18/15.6	240	16W	600	40°	20ft.	9ft.	C	46.5
KB4807-3MP-B2	13472	7.5	25.6	1-3	480	15.6 & 24	24	16W	600	40°	20ft.	9ft.	C	46.5
KB2010-3MP-B2	13542	10	34.1	1-3	208	27.7	208	25W	725	44°	24ft.	10ft.	C	46.5
KB2410-3MP-B2	13550	10	34.1	1-3	240/208*	41.6/36.1 & 24/20.8	240	25W	725	44°	24ft.	10ft.	C	46.5
KB4810-3MP-B2	13564	10	34.1	1-3	480	20.8 & 12	24	25W	725	44°	24ft.	10ft.	C	46.5
KB2012-3-B2	13620	12.5	42.7	3	208	34.6	208	35W	825	48°	30ft.	11ft.	C	46.5
KB2412-3-B2	13632	12.5	42.7	3	240/208*	30/26	240	35W	825	48°	30ft.	11ft.	C	46.5
KB4812-3MP-B2	13644	12.5	42.7	1-3	480	26 & 15	24	35W	825	48°	30ft.	11ft.	C	46.5
KB2015-3-B2	13676	15	51.2	3	208	41.6	208	50W	925	51°	33ft.	12ft.	C	46.5
KB2415-3-B2	13688	15	51.2	3	240/208*	36/31.2	240	50W	925	51°	33ft.	12ft.	C	46.5
KB4815-3MP-B2	22104	15	51.2	1-3	480	18	24	50W	925	51°	33ft.	12ft.	C	46.5
KB2020-3-B2	13734	20	68.3	3	208	55.5	208	¼HP	1100	57°	47ft.	13ft.	E	55.0
KB2420-3-B2	13738	20	68.3	3	240/208*	48.1/41.6	240	¼HP	1100	57°	47ft.	13ft.	E	55.0
KB4820-3MP-B2	22105	20	68.3	1-3	480	24	24	¼HP	1100	57°	47ft.	13ft.	E	55.0
KB2025-3-B2	22106	24	85.3	3	208	69.4	208	(2) 35W	1350	58°	41ft.	14ft.	F	60.5
KB2425-3-B2	13784	24	85.3	3	240/208*	60.1/52.1	240	(2) 35W	1350	58°	41ft.	14ft.	F	60.5
KB4825-3-B2	22107	24	85.3	3	480	30.1	24	(2) 35W	1350	58°	41ft.	14ft.	F	60.5
KB2030-3-B2	13806	30	102.4	3	208	83.3	208	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
KB2430-3-B2	13810	30	102.4	3	240/208*	72.1/62.5	240	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
KB4830-3-B2	13816	30	102.4	3	480	24	24	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
KB2040-3-B2	22108	40	136.5	3	208	111	208	(2) ¼HP	2200	57°	53ft.	15ft.	G	70.0
KB2440-3-B2	22109	40	136.5	3	240/208*	96.2/83.3	240	(2) ¼HP	2200	57°	53ft.	15ft.	G	70.0
KB4840-3-B2	22110	40	136.5	3	480	48.1	24	(2) ¼HP	2200	57°	53ft.	15ft.	G	70.0

6" minimum clearance to walls and ceilings.

Over 5KW line voltage control is operating the contactor coil only, and will draw under 1 AMP.

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.

Field Mount Accessories

MODEL	UPC	DESCRIPTION	WT. (lbs.)
KBB-1	15192	Universal Wall/Ceiling Small Mounting Bracket (for heaters with size A heaters)	1.9
KBB-2	15195	Universal Wall/Ceiling Large Mounting Bracket (for heaters with size B, C, and E)	2.6
KBB-3	13488	Universal Wall/Ceiling Large Mounting Bracket (for heaters with size F & G)	3.9
KBT	15189	Capillary Bulb-Style Thermostat Kit (single pole single throw) 25 Amp	
KBT-2	18209	Capillary Bulb-Style Thermostat Kit (double pole single throw) 25 Amp	0.5

Bracket Selection Chart

BRACKET #	HEATER KW SIZE USED WITH	BRACKET DIMENSIONS											
		L	W	H	A	B	C	D	E	F	X	Y	Z
KBB-1	3 to 5 kW (1 phase)	12½"	2 ₁₅ / ₁₆ "	10 ₁ / ₁₆ "	1 ₃ / ₁₆ "	7"	1 ₇ / ₈ "	1 ₇ / ₈ "	9¼"	1 ₅ / ₈ "	¾"	1"	½"
KBB-2	7.5 to 15 kW (1 phase) 3 to 20 kW (3 phase)	16 ₇ / ₈ "	2 ₁₅ / ₁₆ "	10 ₁ / ₈ "	1¼"	7"	1 ₇ / ₈ "	1 ₅ / ₈ "	13 ₅ / ₈ "	1 ₅ / ₈ "	¾"	1"	1½"
KBB-3	25 to 40 kW (3 phase)	19½"	4 ₃ / ₁₆ "	13 ₃ / ₁₆ "	1 ₅ / ₁₆ "	10"	1 ₇ / ₈ "	1 ₅ / ₈ "	16¼"	1 ₁ / ₈ "	11 ₁ / ₁₆ "	1"	2"

Heavy Duty Unit Heater KB Series

Factory Options

ADD SUFFIX:	DESCRIPTION
-B1	Mounting Bracket KBB-1 (included with heater size A and C)
-B2	Mounting Bracket KBB-2 (included with heater size B, and E)
-B3	Mounting Bracket KBB-3 (included with heater size F and G)
-SFR	Control Relay and 24V Transformer for Remote Summer Fan Operation
-CX	Power Contactor for 3 kW - 5kW 1-Phase Models (Line Voltage Coil)
-CT24	Transformer that Converts 208, 240 and 277 Volts to 24 Volt Control Circuit (add power contactor (-CX) for 3 kW - 5kW 1-Phase models)
-DS40	60 Amp, 3-Pole Disconnect Switch w/Padlock Provision
-DS60	60 Amp, 3-Pole Disconnect Switch w/Padlock Provision
-DS80	80 Amp, 3-Pole Disconnect Switch w/Padlock Provision
-DS100	100 Amp, 3-Pole Disconnect Switch w/Door Interlock and Padlock Provision

Electronic Unit Heater KB ECO2S Series



Model Code:

KB	24	04	-1	-B2	-ECO
A	B	C	D	E	F

A: Series
B: 20 - 208V, 24 - 240/208V
C: kiloWatts (4 - 15)
D: -1 = Single Phase
E: -B2 = Universal Bracket
F: -ECO = Electronic Control



- ECO2S electronic controller
- Energy efficient 2-stage heating
- Remote control included
- Large LED display
- Patented Smart Limit® Protection
- Auto reset high limit
- Unit bearing motor
- Standard color: textured gray
- Fan only and timer modes
- Adjustable louvers
- Spiral finned heat elements
- Universal bracket included
- 5-year limited warranty



ECO2S 2-Stage Garage Heater with IR Remote Control

The ECO2S KB series unit heaters offers unparalleled performance, energy efficiency and user control by incorporating another **King innovation**, the in-built ECO2S electronic thermostat with remote control. Offering energy efficient 2-stage heating, with Eco mode that automatically uses the lowest wattage needed to heat the room, integrated fan only and timer modes, as well as a remote control for simple operation. Designed for use as primary or supplemental heat sources in warehouses, stores or large garages spaces. Spiral steel elements and high CFM ensure even air distribution producing cooler element operation which prolongs the life of the heater. By combining the highest quality components, with a dynamically balanced fan blade, the KB ECO2S unit heater will provide years of trouble-free service and keep heating bills to a minimum. Includes universal wall/ceiling bracket for simple installation.

ECO2S Electronic Controller Features:

- Electronic control for accuracy
- Energy-saving automatic 2-stage heating
- Large LED display
- Remote control and wall bracket included
- Thermostat timer mode (1-9 Hours)
- Fan only mode
- Built-In fan delay



Engineering Specifications

Contractor shall supply and install KB ECO2S Series garage heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Construction: All exterior and interior metal enclosure parts are made from 20 gauge electrogalvanized Steel with a rust inhibiting baked enamel finish. Smooth rounded corners and protective edge trim give an attractive modern appearance.

Adjustable Outlet Louver: Louvers direct air up or down as needed for the heating application. Rear Intake Screen: Heavy gauge steel screen protects against foreign objects making accidental contact with the rotating fan blade.

Spiral Fin Elements: The metal sheath element is copper brazed with spiral fins then molded into a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum airflow stream.

Totally Enclosed Fan Motor: Permanently lubricated long life unit bearing motor with 20cc of oil. Epoxy-coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Aluminum Fan Blade: 5 blade fan mounted directly to the motor shaft for maximum efficiency.

Auto-Reset Thermal Cutout: Power is disconnected from the element if an overheated condition occurs. The fan continues to run to dissipate excess heat from the element. The element is re-energized automatically when the normal operating temperature returns.

Electronic Control: Up, down temperature mode. Start/Stop. Standard on all heaters. The control voltage is equal to the line voltage (208, 240) for 5kW models. Over 5kW the line voltage control is operating the contactors.

Easy Installation: A quick access panel located on the bottom of the heater allows for quick wiring and easy maintenance for the life of the heater. Includes universal wall/ceiling bracket for simple installation.

Approvals: cULus (E41422)

Electronic Unit Heater KB ECO2S Series

Ordering Information

MODEL	UPC	kilo WATTS	BTUH	PHASE	VOLTS	AMPS	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX MOUNT HEIGHT	SIZE	WT. (lbs.)
KB2404-1-B2-ECO	22037	4	13.5	1	240/208*	16.6/14.4	9W	400	38°F	15 ft.	8 ft.	B	28.5
KB2004-1-B2-ECO	22045	4	13.5	1	208	19.2	9W	400	38°F	15 ft.	8 ft.	B	28.5
KB2405-1-B2-ECO	22038	5	17	1	240/208*	20.8/18	9W	400	40°F	16 ft.	8 ft.	B	28.5
KB2005-1-B2-ECO	22046	5	17	1	208	24	9W	400	40°F	16 ft.	8 ft.	B	28.5
KB2407-1-B2-ECO	22040	7.5	25.6	1	240/208*	31.2/27	16W	600	40°F	20 ft.	9 ft.	B	28.5
KB2007-1-B2-ECO	22048	7.5	25.6	1	208	36.1	16W	600	40°F	20 ft.	9 ft.	B	29
KB2410-1-B2-ECO	22042	10	34.1	1	240/208*	41.6/36.1	25W	725	44°F	24 ft.	10 ft.	B	42
KB2010-1-B2-ECO	22050	10	34.1	1	208	48.1	25W	725	44°F	24 ft.	10 ft.	B	34
KB2412-1-B2-ECO	22043	12.5	42.7	1	240/208*	52/45.1	35W	825	48°F	30 ft.	11 ft.	C	32
KB2012-1-B2-ECO	22051	12.5	42.7	1	208	60.1	35W	825	48°F	30 ft.	11 ft.	C	32
KB2415-1-B2-ECO	22044	15	51.2	1	240/208*	62.5/54.1	50W	925	51°F	33 ft.	12 ft.	C	37
KB2015-1-B2-ECO	22052	15	51.2	1	208	72.1	50W	925	51°F	33 ft.	12 ft.	C	37

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.

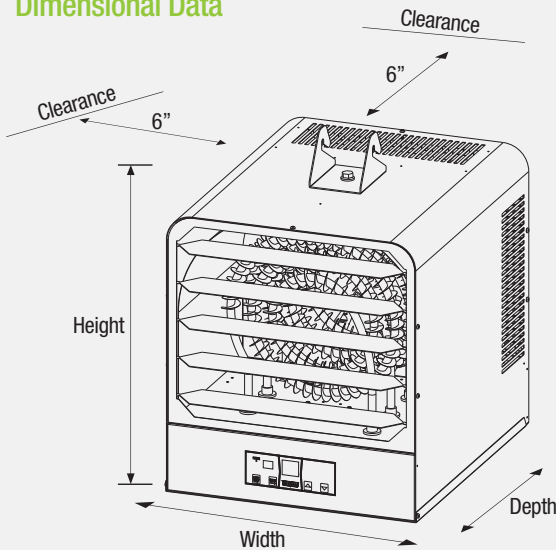
Replacement Accessories

MODEL	DESCRIPTION	WT. (lbs.)
61747	ECO2S Replacement Infrared Remote Control	0.125

Bracket Selection Chart

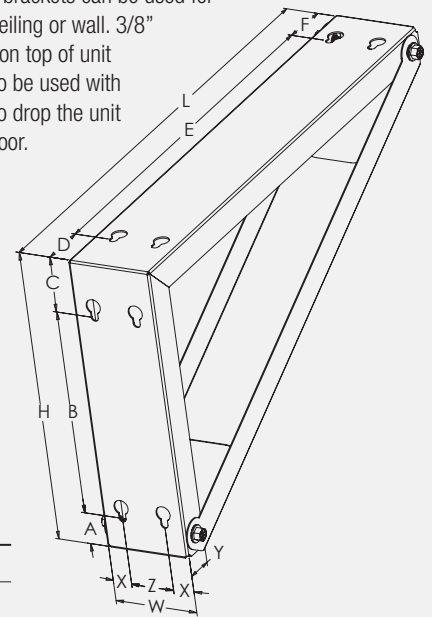
BRACKET #	HEATER KW SIZE USED WITH	BRACKET DIMENSIONS											
		L	W	H	A	B	C	D	E	F	X	Y	Z
KBB-2	4 to 15 kW (1 phase)	16 ⁷ / ₈ "	2 ¹⁵ / ₁₆ "	10 ¹ / ₈ "	1 ¹ / ₄ "	7"	1 ⁷ / ₈ "	1 ⁵ / ₈ "	13 ⁵ / ₈ "	1 ⁵ / ₈ "	3 ⁴ / ₄ "	1"	1 ¹ / ₂ "

Dimensional Data



• KBB-2 Wall/Ceiling Bracket Included

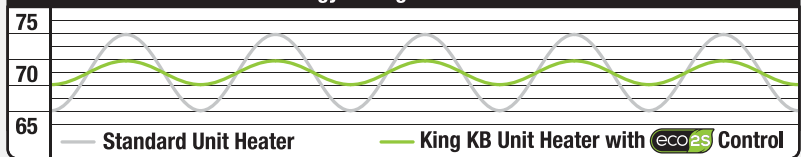
Garage heater brackets can be used for mounting on ceiling or wall. 3/8" threaded hole on top of unit heater can also be used with threaded rod to drop the unit closer to the floor.



HEATER SIZE	HEIGHT	DEPTH	WIDTH
B	16.5"	13.5"	15"
C	16.5"	18"	15"



Energy Saving Eco Comfort



*Reduces temperature swings

Electronic Unit Heater KB Platinum Series



Model Code:

KB	48	10	-1	-P	-FB
A	B	C	D	E	F

A: Series
B: 20 - 208V, 24 - 240/208V
 27 - 277V, 48 - 480V
C: kiloWatts (4-66)
D: -1 = Single Phase
 -3 = Three Phase
 -3MP = 1-3 Phase
E: -B1 = Platinum Controller
F: FB = Fuse Block



- Electronic temperature controller
- Large LED display
- Remote control included
- Fan only & timer modes
- Fan delay
- Patented Smart Limit Protection®
- Adjustable louvers
- Unit bearing motor
- Spiral finned heat elements
- Standard color: textured gray
- Universal mounting bracket included
- 5-year limited warranty



The KB Platinum Horizontal Unit Heater

King's KB Platinum series unit heaters are the most full-featured unit heaters on the market, with in-built electronic thermostat for accuracy and remote control for simple operation. With integrated summer fan only and thermostat timer mode, the KB Platinum has you covered. Designed for use as primary or supplemental heat sources in large or exposed areas, including high-rise buildings, stores, warehouses, garages, water treatment and fire room vaults to prevent freezing. Spiral finned steel elements and high CFM ensure even air distribution producing cooler element operation, prolonging heater life. By combining the highest quality components, with a dynamically balanced fan blade, the KB Platinum unit heater will provide years of trouble-free service. Includes universal wall/ceiling bracket for simple installation.

Platinum Electronic Controller Features

- Electronic control for accuracy
- Thermostat timer mode (1-9 Hours)
- Summer Fan only mode
- Large LED display
- Built-In fan delay
- Remote control and wall/ceiling bracket included
- Heaters above 20kW are ECO2S 2-stage heaters



Engineering Specifications

Contractor shall supply and install KB Series unit heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Construction: All exterior and interior metal enclosure parts are made from 20 gauge electrogalvanized Steel with a rust inhibiting baked enamel finish. Smooth rounded corners and protective edge trim give an attractive modern appearance.

Adjustable Outlet Louver: Louvers direct air up or down as needed for the heating application.

Rear Intake Screen: Heavy gauge steel screen protects against foreign objects making accidental contact with the rotating fan blade.

Spiral Fin Elements: The metal sheath element is copper brazed with spiral fins then molded into a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum airflow stream.

Totally Enclosed Fan Motor: Permanently lubricated long life, unit bearing with 20cc of oil. Epoxy-coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Aluminum Fan Blade: Axial flow-type fan mounted directly to the motor shaft for maximum efficiency.

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.

Automatically reset of thermal overloads, which allow the element to continue to cycle under abnormal conditions, will not be accepted.

Internal Controls: Magnetic contactors are standard on all 480V heaters, all 208V/1-Phase, 240V/1-Phase, 277V/1-Phase heaters above 6kW, and all 3-Phase heaters. The control voltage is equal to the line voltage (208, 240 or 277) except for 480V models where a transformer is provided for 24V control. Over 5kW the line voltage control is operating the contactor coil only and will draw only 1 Amp. See page 64 for control voltages.

Fusing: Internal circuit fusing is provided when the heater ampacity exceeds 48 Amps to comply with N.E.C. standards. A fan delay is provided standard on models 12.5-kW and above to dissipate residual heat from the heating elements.

Easy Installation: A quick access panel located on the bottom of the heater allows for quick wiring and easy maintenance for the life of the heater. Includes universal wall/ceiling bracket for simple installation.

Approvals: cULus (E41422)

Electronic Unit Heater KB Platinum Series

Ordering Information - single phase

MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT HEIGHT	*SIZE	WT. (lbs.)
KB2003-1-P	13312	3	10.2	1	208	14.4	9W	400	37°	15ft.	8ft.	A	30.5
KB2403-1-P	13313	3	10.2	1	240/208*	12.5	9W	400	37°	15ft.	8ft.	A	30.5
KB2703-1-P	13314	3	10.2	1	277	10.8	9W	400	38°	15ft.	8ft.	A	30.5
KB2004-1-P	13315	4	13.5	1	208	19.2	9W	400	38°	15ft.	8ft.	A	30.5
KB2404-1-P	13316	4	13.5	1	240/208*	16.7/14.4	9W	400	38°	15ft.	8ft.	A	30.5
KB2704-1-P	13317	4	13.5	1	277	14.4	9W	400	38°	15ft.	8ft.	A	30.5
KB2005-1-P	13323	5	17	1	208	24.0	9W	400	40°	16ft.	8ft.	A	30.5
KB2405-1-P	13324	5	17	1	240/208*	20.8/18	9W	400	40°	16ft.	8ft.	A	30.5
KB2705-1-P	13325	5	17	1	277	18.1	9W	400	40°	16ft.	8ft.	A	30.5
KB2007-1-P	13326	7.5	25.6	1	208	36.1	16W	600	40°	20ft.	9ft.	B	45.0
KB2407-1-P	13327	7.5	25.6	1	240/208*	31.3/27	16W	600	40°	20ft.	9ft.	B	45.0
KB2707-1-P	13328	7.5	25.6	1	277	27.1	16W	600	40°	20ft.	9ft.	B	45.0
KB2010-1-P	13329	9.98	34.1	1	208	48.0	25W	725	44°	24ft.	10ft.	B	45.0
KB2410-1-P	13330	10	34.1	1	240/208*	41.6/36.1	25W	725	44°	24ft.	10ft.	B	45.0
KB2710-1-P	13331	10	34.1	1	277	36.1	25W	725	44°	24ft.	10ft.	B	45.0
KB2012-1-P-FB	13404	12.5	42.7	1	208	60.1	25W	825	48°	30ft.	11ft.	C	50.0
KB2412-1-P-FB	13405	12.5	42.7	1	240/208*	52.1/45.1	35W	825	48°	30ft.	11ft.	C	50.0
KB2015-1-P-FB	13406	15	51.2	1	208	72.1	50W	925	51°	33ft.	12ft.	C	50.0
KB2415-1-P-FB	13407	15	51.2	1	240/208*	62.5/54.1	50W	925	51°	33ft.	12ft.	C	50.0
KB2003-3MP-P	13332	3	10.2	1-3	208	14.4/8.3	9W	400	37°	14ft.	8ft.	C	45.0
KB2403-3MP-P	13333	3	10.2	1-3	240/208*	62.5/54.1	9W	400	37°	14ft.	8ft.	C	45.0
KB4803-3MP-P	13348	3	10.2	1-3	480	6.3/3.6	9W	400	37°	14ft.	8ft.	C	45.0
KB2005-3MP-P	13334	5	17.1	1-3	208	24 & 13.9	9W	400	40°	16ft.	8ft.	C	45.0
KB2405-3MP-P	13335	5	17.1	1-3	240/208*	20.8/18 & 18/15.6	9W	400	40°	16ft.	8ft.	C	45.0
KB4805-3MP-P	13349	5	17.1	1-3	480	10.4 & 6.0	9W	400	40°	16ft.	8ft.	C	45.0
KB2007-3MP-P	13336	7.5	25.6	1-3	208	36.1 & 20.8	16W	600	40°	20ft.	9ft.	C	46.5
KB2407-3MP-P	13337	7.5	25.6	1-3	240/208*	31.2/27 & 18/15.6	16W	600	40°	20ft.	9ft.	C	46.5
KB4807-3MP-P	13350	7.5	25.6	1-3	480	31.3/18.1	16W	925	51°	33ft.	12ft.	C	46.5
KB2410-3MP-P	13338	10	34.1	1-3	240/208*	41.7/36.1 & 24.1/20.8	25W	725	44°	24ft.	10ft.	C	46.5
KB4810-3MP-P	13351	10	34.1	1-3	480	20.8 & 12	25W	725	44°	24ft.	10ft.	C	46.5
KB4812-3MP-P	13401	12.5	42.7	1-3	480	26 & 15	25W	825	48°	30ft.	11ft.	C	46.5
KB4815-3MP-P	13402	15	51.2	1-3	480	31.3 & 18.1	50W	925	51°	33ft.	12ft.	C	46.5
KB2010-3MP-P	13343	9.98	47.9	3	208	27.7	25W	825	48°	30ft.	11ft.	C	46.5
KB2012-3-P	13344	12.5	42.7	3	208	34.7	35W	825	48°	30ft.	11ft.	C	50.0
KB2412-3-P	13345	12.5	42.7	3	240/208*	30.1/26	35W	825	48°	30ft.	11ft.	C	50.0
KB2015-3-P	13346	15	51.2	3	208	41.7	50W	925	51°	33ft.	12ft.	C	50.0
KB2415-3-P	13347	15	51.2	3	240/208*	36.1/31.2	50W	925	51°	33ft.	12ft.	C	50.0
KB2020-3-P-FB	13408	20	68.3	3	208	55.6	1/4 HP	1100	57°	47ft.	13ft.	E	55.0
KB2420-3-P-FB	13409	20	68.3	3	240/208*	48.2/41.6	1/4 HP	1100	57°	47ft.	13ft.	E	55.0
KB4820-3-P	13416	20	68.3	3	480	24.1	1/4 HP	1100	57°	47ft.	13ft.	E	55.0
*KB2025-3-P-FB	13417	25	85.3	3	208	69.5	(2) 35W	1100	57°	47ft.	13ft.	F	60.5
KB2425-3-P-FB	13418	25	85.3	3	240/208	60.2/52.1	(2) 35W	1350	58°	41ft.	14ft.	F	60.5
*KB4825-3-P	13439	25	85.3	3	480	30.1	(2) 35W	1350	58°	41ft.	14ft.	F	60.5
*KB2030-3-P-FB	13419	30	102.4	3	208	83.4	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
KB2430-3-P-FB	13420	30	102.4	3	240/208	72.3/62.5	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
*KB4830-3-P	13440	30	102.4	3	480	36.1	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
*KB2440-3-P-FB	13438	40	136.5	3	240	96.3/83.3	(2) 1/4 HP	2200	57°	53ft.	15ft.	F	60.5
*KB4840-3-P-FB	13441	40	136.5	3	480	48.2	(2) 1/4 HP	2200	57°	53ft.	15ft.	G	60.5

Maximum mounting height is manufacturer's recommendation

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V. *2-Stage heating standard.

Electronic Unit Heater KB Platinum Series

Field Mount Options

ADD SUFFIX:	UPC	DESCRIPTION
DS32	13480	Disconnect Switch, Field Installed Kit, 32 AMP, 600V
DS63	13481	Disconnect Switch, Field Installed Kit, 63 AMP, 600V
DS80	13482	Disconnect Switch, Field Installed Kit, 80 AMP, 600V
DS100	13483	Disconnect Switch, Field Installed Kit, 100 AMP, 600V

Replacement Accessories

MODEL	UPC	DESCRIPTION	WT. (lbs.)
KBB-1	13484	Replacement Universal Wall/Ceiling Small Mounting Bracket (for heaters with size A heaters)	1.9
KBB-2	13485	Replacement Universal Wall/Ceiling Large Mounting Bracket (for heaters with size B and C)	2.6
KBB-3	13488	Replacement Universal Wall/Ceiling Large Mounting Bracket (for heaters with size F & G)	3.9
KBHS	13486	Replacement Hook Swivel	0.4
KBHK	13487	Replacement Hardware Kit	0.1
61747	61747	Platinum Replacement Infrared Remote Control	0.1

Bracket Selection Chart

BRACKET #	HEATER KW SIZE USED WITH	BRACKET DIMENSIONS											
		L	W	H	A	B	C	D	E	F	X	Y	Z
KBB-1	3 to 5 kW (1 phase)	12½"	2 ¹⁵ / ₁₆ "	10 ¹ / ₁₆ "	1 ³ / ₁₆ "	7"	1 ⁷ / ₈ "	1 ⁷ / ₈ "	9¼"	1 ⁷ / ₈ "	¾"	1"	½"
KBB-2	7.5 to 10 kW (1 phase) 3 to 20 kW (3 phase)	16 ⁷ / ₈ "	2 ¹⁵ / ₁₆ "	10 ¹ / ₈ "	1¼"	7"	1 ⁷ / ₈ "	1 ⁵ / ₈ "	13 ⁵ / ₈ "	1 ⁵ / ₈ "	¾"	1"	1½"
KBB-3	25 to 40 kW (3 phase)	19½"	4 ³ / ₁₆ "	13 ³ / ₁₆ "	1 ⁵ / ₁₆ "	10"	1 ⁷ / ₈ "	1 ⁵ / ₈ "	16¼"	1 ¹ / ₈ "	11 ¹ / ₁₆ "	1"	2"

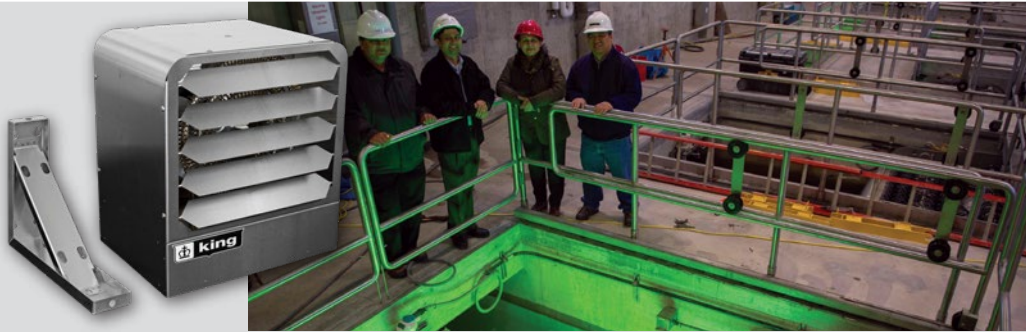
Dimensional Data

Twin Unit Size F & G

HEATER SIZE	HEIGHT	DEPTH	WIDTH
A	16.5"	11"	15"
B	16.5"	13.5"	15"
C	16.5"	18"	15"
E	20.5"	18"	15"
F	18.5"	18"	30"
G	20.5"	18"	30"

KBB-1, KBB-2 & KBB-3
Unit heater brackets can be used for mounting on ceiling or wall. 3/8" threaded hole on top of unit heater can also be used with threaded rod to drop the unit closer to the floor. Refer to bracket selection chart.

Stainless Steel Unit Heater KBS Series



Model Code:

KBS	48	10	-1
A	B	C	D

A: Series
 B: 20 - 208V, 24 - 240V
 27 - 277V, 48 - 480V
 C: KiloWatts
 D: -1 Phase, -3 Phase



- 18 gauge stainless steel case
- Adjustable discharge louvers
- Auto-reset limit
- Long life unit bearing motor
- Padlock disconnect
- Spiral finned element
- Totally enclosed motor
- Pilot light
- Aluminum fan blade
- N.E.M.A. 4 enclosure
- 2-year limited warranty

The KBS Stainless Steel Unit Heater

KBS unit heaters are specially constructed for heating of, and freeze protection in, dirty, dusty or corrosive areas requiring periodic washing or hose-down. Typical places of use are: waste water treatment plants, car/truck washes, cement plants, steel mills or such, canneries and dairy facilities, ship and marine docks, fish processors and load banks for generators. The heater is constructed from 18-gauge type 304 Stainless Steel and elements making it extremely corrosion resistant. The N.E.M.A. 4 wiring compartment is sealed and gasketed making it water tight. All optional control components are U.L. listed for use in N.E.M.A. 4 enclosures.

Factory Installed Options

- Fan Delay:** Standard above 11kW
- Power Contactor:** (when not standard)
- 24 Volt Control:** (when not standard)

Mounting: Universal mounting bracket made from Stainless Steel included.

NEMA 4 Control Options:

- SPST thermostat
- Two stage thermostat (single phase only)
- Summer fan switch
- Pilot light (power on indicator)
- Padlock disconnect

Engineering Specifications

Contractor shall supply and install KBS Series Stainless Steel heaters, manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Stainless Steel Construction: All exterior and interior metal enclosure parts are made from 18 gauge type 304 Stainless Steel. All fasteners and hardware are Stainless Steel.

Adjustable Outlet Louver: Stainless Steel louvers direct air up or down as needed for the heating application.

Rear Intake Screen: Heavy gauge Stainless Steel screen protects against foreign objects making accidental contact with the rotating fan blade.

N.E.M.A. 4 Enclosure: Every electrical component in the wiring compartment is sealed with a polyurethane adhesive. The bottom access panel is sealed with a 1/4" high density polyurethane gasket. This provides excellent protection against corrosion, windblown dust, dirt, and rain, splashing water and hose-directed water. All optional control accessories are N.E.M.A. 4 rated.

Stainless Steel Spiral Fin Elements: The metal sheath element is brazed with spiral fins then molded in to a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum air flow stream. Stainless steel increases element life in extremely corrosive environments such as waste water treatment plants.

Totally Enclosed Fan Motor: Permanently lubricated, long life unit bearing coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Aluminum Fan Blade: Axial flow-type mounted directly to the motor shaft for maximum efficiency.

Manual Reset Limit Electrically Held: Power is disconnected from the heater if an overheated condition occurs. The heater is re-energized automatically when the normal operating temperature returns.

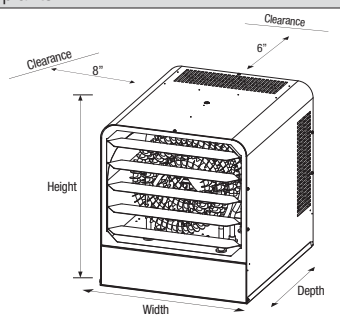
Internal Controls: Magnetic contactors are standard on all 480V heaters, all 208V/1-Phase, 240V/1-Phase, 277V/1-Phase heaters above 5kW, and all 3-Phase heaters. The control voltage is equal to the line voltage (208, 240 or 277) except for 480V models where a transformer is provided for 24V control. Over 5kW the line voltage control is operating the contactor coil only and will draw only 1 Amp.

Fusing: Internal circuit fusing is provided when the heater ampacity exceeds 48 Amps to comply with UL standards. A fan delay is provided standard on models 12.5-kW and above to dissipate residual heat from the heating elements.

Approvals: cULus

*Dimensions

SIZE	HEIGHT	DEPTH	WIDTH
A	16.5"	11"	15"
B	16.5"	13.5"	15"
C	16.5"	18"	15"
E	20.5"	18"	15"



Accessories

MODEL	DESCRIPTION	UPC#	WT. (lbs)
KBB-1-SS	Mounting Bracket - Small	15254	3
KBB-2-SS	Mounting Bracket - Large	15256	4
TF115	Single Pole Wall Mount Thermostat N.E.M.A. 4X - 25A SPDT	19150	1

Stainless Steel Unit Heater KBS Series

Ordering Information

MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	**THERM. CONTROL VOLTAGE	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT HEIGHT	*SIZE	WT. (lbs.)
KBS2003-1-B1	22118	3	10.2	1	208	14.4	208	9W	400	40°	16ft.	8ft.	A	30.5
KBS2403-1-B1	22217	3	10.2	1	240	12.5	240	9W	400	40°	16ft.	8ft.	A	30.5
KBS2703-1-B1	22218	3	10.2	1	277	10.8	277	9W	400	40°	16ft.	8ft.	A	30.5
KBS2005-1-B1	22124	5	17	1	208	24	208	9W	400	40°	16ft.	8ft.	A	30.5
KBS2405-1-B1	20847	5	17	1	240/208*	20.8/18	240	9W	400	40°	16ft.	8ft.	A	30.5
KBS2705-1-B1	22127	5	17	1	277	18.1	277	9W	400	40°	16ft.	8ft.	A	30.5
KBS4805-1-B1	22128	5	17	1	480	10.4	24	9W	400	40°	16ft.	8ft.	A	30.5
KBS2007-1-B1	22133	7.5	25.6	1	208	36.1	208	16W	600	40°	20ft.	9ft.	B	45.0
KBS2407-1-B1	22137	7.5	25.6	1	240/208*	31.2/27	240	16W	600	40°	20ft.	9ft.	B	45.0
KBS2707-1-B1	22219	7.5	25.6	1	277	27	277	16W	600	40°	20ft.	9ft.	B	45.0
KBS4807-1-B1	22142	7.5	25.6	1	480	15.6	24	16W	600	40°	20ft.	9ft.	B	45.0
KBS2010-1-B2	22147	10	34.1	1	208	48.1	208	25W	725	44°	24ft.	10ft.	B	45.0
KBS2410-1-B2	22151	10	34.1	1	240/208*	41.6/36.1	240	25W	725	44°	24ft.	10ft.	B	45.0
KBS2710-1-B2	22154	10	34.1	1	277	36.1	277	25W	725	44°	24ft.	10ft.	B	45.0
KBS4810-1-B2	22155	10	34.1	1	480	20.8	24	25W	725	44°	24ft.	10ft.	B	45.0
KBS2012-1-B2	22159	12.5	42.7	1	208	60.1	208	35W	825	48°	30ft.	11ft.	C	46.5
KBS2412-1-B2	22163	12.5	42.7	1	240/208*	52/45.1	240	35W	825	48°	30ft.	11ft.	C	46.5
KBS2020-3-B2	22173	20	68.3	3	208	55.5	208	50W	1100	57°	47ft.	13ft.	C	46.5
KBS2420-3-B2	20849	20	68.3	3	240/208*	48.1/41.6	240	50W	1100	57°	47ft.	13ft.	C	46.5
KBS2403-3MP-B2	22222	3	10.2	1-3	240/208*	12.5/7.2	240	9W	400	40°	16ft.	8ft.	C	46.5
KBS4803-3MP-B2	22120	3	10.2	1-3	480	6.3	24	9W	400	40°	16ft.	8ft.	C	46.5
KBS2005-3MP-B2	22126	5	17.1	1-3	208	24 & 13.9	208	9W	400	40°	16ft.	8ft.	C	46.5
KBS2405-3MP-B2	22223	5	17.1	1-3	240/208*	20.8/18 & 18/15.6	240	9W	400	40°	16ft.	8ft.	C	46.5
KBS4805-3MP-B2	20850	5	17.1	1-3	480	10.4 & 6	24	9W	400	40°	16ft.	8ft.	C	46.5
KBS2007-3MP-B2	22135	7.5	25.6	1-3	208	36.1 & 20.8	208	16W	600	40°	20ft.	9ft.	C	46.5
KBS2407-3MP-B2	22139	7.5	25.6	1-3	240/208*	31.2/27 & 18/15.6	240	16W	600	40°	20ft.	9ft.	C	46.5
KBS4807-3MP-B2	20717	7.5	25.6	1-3	480	15.6 & 24	24	16W	600	40°	20ft.	9ft.	C	46.5
KBS2010-3MP-B2	22149	10	34.1	1-3	208	27.7	208	25W	725	44°	24ft.	10ft.	C	46.5
KBS2410-3MP-B2	20848	10	34.1	1-3	240/208*	41.6/36.1 & 24/20.8	240	25W	725	44°	24ft.	10ft.	C	46.5
KBS4810-3MP-B2	20851	10	34.1	1-3	480	20.8 & 12	24	25W	725	44°	24ft.	10ft.	C	46.5
KBS2012-3-B2	22161	12.5	42.7	3	208	34.6	208	35W	825	48°	30ft.	11ft.	C	46.5
KBS2412-3-B2	22164	12.5	42.7	3	240/208*	30/26	240	35W	825	48°	30ft.	11ft.	C	46.5
KBS4812-3MP-B2	22166	12.5	42.7	1-3	480	26 & 15	24	35W	825	48°	30ft.	11ft.	C	46.5
KBS2015-3-B2	22169	15	51.2	3	208	41.6	208	35W	925	51°	33ft.	12ft.	C	46.5
KBS2415-3-B2	22171	15	51.2	3	240/208*	36/31.2	240	35W	925	51°	33ft.	12ft.	C	46.5
KBS4815-3MP-B2	22224	15	51.2	1-3	480	18	24	35W	925	51°	33ft.	12ft.	C	46.5
KBS4820-3MP-B2	20852	20	68.3	1-3	480	41.6/24.1	24	50W	1100	57°	37 ft.	12ft.	E	55.0

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.

Options

SUFFIX	DESCRIPTION
-T	1-Pole Unit Mounted Thermostat (temperature range 40°F - 100°F)
-2TS	2-Stage Thermostat (Single Phase models only)
-B1	Mounting Bracket KBB-1 (included with heater size A)
-B2	Mounting Bracket KBB-2 (included with heater size B and C)
-SF	Summer Fan Switch
-SFR	Control Relay and 24V Transformer for Remote Summer Fan Operation
-PL	Pilot Light (power ON indication)

Options

SUFFIX	DESCRIPTION
-CX	Power Contactor for 3 kW - 5kW 1-Phase Models (Line Voltage Coil)
-CT24	Transformer that Converts 208, 240 and 277 Volts to 24 Volt Control Circuit (add power contactor (-CX) for 3 kW-5kW 1-Phase models)
-DS32	Disconnect Switch, Field Installed Kit, 32 AMP, 600V
-DS63	Disconnect Switch, Field Installed Kit, 63 AMP, 600V
-DS80	Disconnect Switch, Field Installed Kit, 80 AMP, 600V
-DS100	Disconnect Switch, Field Installed Kit, 100 AMP, 600V

High Air Velocity Unit Heater KFUH Series



Model Code:

KFUH	48	10	-3
A	B	C	D

A: Series

B: 20 - 208V 24 - 240V
48 - 480V

C: Kilowatts

D: 1 or 3-phase



Shown with KFUH DIFFUSER.
KFUH DIFFUSER required for
this heater and is sold separately

- Heavy duty open coil element
- Direct drive air over type motor
- Dual inlet industrial blower
- Horizontal or Vertical Mount
- Adjustable louver hood (sold separately)
- 22 gauge steel
- Quiet switching relays
- Replaceable intake filter
- Can be ducted on intake and outlet
- 24 Volt control
- Fan-only relay
- ECM Motor (optional)



- 5-year limited warranty

The KFUH High Air Velocity Unit Heater

The KFUH series commercial unit heater is an efficient, dependable unit heater perfectly suited for high ceiling applications such as warehouses, parking garages and docks. The 3-speed, high-capacity motor and blower quietly delivers large volumes of air ranging from 775 to 1540 CFM minimum. With welded mounting channels on the unit, the heater may be mounted at any angle. Safety screens are provided at both the air intake and discharge aperture. The intake filter is replaceable. Thermostat may be ordered separately.

FIELD WIRING: 208 and 240 volt unit heaters are equipped with circuit breakers to provide internal circuit protection when heater exceeds 48 amps. 480 Volt unit heaters do not have circuit breakers but are fused when internal protection is required over 48 Amps. Terminal blocks are supplied for field wiring on all units. Consult the National Electric Code for proper wire size and service circuit breaker protection.

CONTROL WIRING: Connect low voltage thermostat to terminals R and W on the low voltage terminal block. For fan only operation connect terminals R and G with a switch or thermostat fan switch.

Unit shown with standard diffuser model # KFUH DIFFUSER ordered separately. Additional diffusers are located on the 3rd page of this specification sheet.

Engineering Specifications

Contractor shall supply and install KFUH Series unit heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Transformer: Each unit is equipped with a heavy duty low voltage (24 Volt) transformer for the thermostat control circuit.

Heating Elements: Quick heating, long life Ni-Chrome elements are sized to provide proper watt density for maximum heat dissipation by fan-forced air convection currents.

Terminal Block: For single strike field wiring.

Low Voltage Terminal Block: For 24 Volt control.

Air Filter: Convenient access for replacement of standard 16" x 20" x 1" filter.

Motor: Long life, 48 frame capacitor run, thermally protected, permanently lubricated, direct drive motor (no belts to adjust or slip). This low noise, up to 3-speed motor is designed for maintenance-free operation.

Overcurrent Protection: 208 and 240 volt KFUH models have 60 amp circuit breakers with single strike terminal block. 480 volt models have single strike terminal block. Units over 48 amps have 60 amp fusing.

Limit Control: Integral automatic high temperature limit control in each heating element bank prevents the delivery of air at unsafe temperatures. 20-35 kW use a manual reset limit control to completely shut the unit heater off should overtemperature occur.

Fan Relay: Heavy duty fan relay standard with summer fan operation.

Approvals: UL (E41422)

High Air Velocity Unit Heater KFUH Series

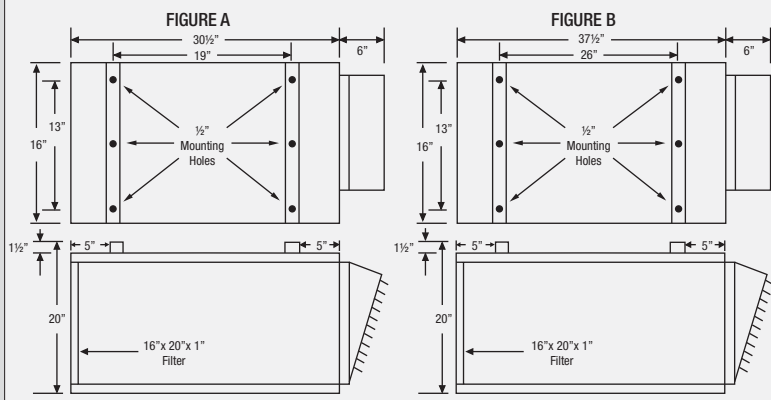
Ordering Information

MODEL	VOLTS	kilo watts	BTUH	AMPS	# of ELEMENTS	MOTOR HP	TEMPERATURE RISE (° F)			SIZE	WT. (lbs)
							LOW	MED	HIGH		
KFUH2003-1	208	3	10.2	14.4	1	1/5	12°	11°	9°	Fig. A	57
KFUH2404-1	240	4	13.6	16.7	1	1/5	16°	15°	13°	Fig. A	57
KFUH2005-1	208	5	17.1	24	1	1/5	20°	18°	16°	Fig. A	57
KFUH2405-1	240	5	17.1	20.8	1	1/5	20°	18°	16°	Fig. A	57
KFUH4805-1	480	5	17.1	10.4	1	1/5	20°	18°	16°	Fig. A	57
KFUH2006-1	208	6	20.5	25	2	1/5	24°	22°	19°	Fig. A	57
KFUH2408-1	240	8	26.9	33.3	2	1/5	33°	29°	25°	Fig. A	65
KFUH2010-1	208	10	34.1	48	2	1/5	41°	37°	32°	Fig. A	65
KFUH2410-1	240	10	34.1	41.7	2	1/5	41°	37°	32°	Fig. A	65
KFUH4810-1	480	10	34.1	20.8	2	1/5	41°	37°	32°	Fig. A	65
KFUH2412-1	240	11.5	39.2	47.9	2	1/5	47°	42°	36°	Fig. A	65
KFUH4812-1	480	11.5	39.2	23.9	2	1/5	47°	42°	36°	Fig. A	65
KFUH2015-1	208	15	51.2	72.1	3	1/5	61°	55°	47°	Fig. A	74
KFUH2415-1	240	15	51.2	62.5	3	1/5	61°	55°	47°	Fig. A	74
KFUH4815-1	480	15	51.2	31.2	3	1/5	61°	55°	47°	Fig. A	74
KFUH2418-1	240	17.25	58.8	82.9	3	1/5	70°	63°	55°	Fig. A	74
KFUH4818-1	480	17.25	58.8	35.9	3	1/5	70°	63°	55°	Fig. A	74
KFUH2020-1	208	20	68.3	96.2	4	1/3	57°	51°	41°	Fig. B	76
KFUH2420-1	240	20	68.3	83.3	4	1/3	57°	51°	41°	Fig. B	76
KFUH4820-1	480	20	68.3	41.7	4	1/3	57°	51°	41°	Fig. B	76
KFUH2025-1	208	25	85.3	120.2	5	1/3	72°	63°	51°	Fig. B	81
KFUH2425-1	240	25	85.3	104.2	5	1/3	72°	63°	51°	Fig. B	81
KFUH4825-1	480	25	85.3	52.1	5	1/3	72°	63°	51°	Fig. B	81
KFUH2030-1	208	30	102.4	144.2	6	1/3	86°	76°	62°	Fig. B	85
KFUH2430-1	240	30	102.4	125	6	1/3	86°	76°	62°	Fig. B	85
KFUH4830-1	480	30	102.4	62.5	6	1/3	86°	76°	62°	Fig. B	85
KFUH2435-1	240	34.5	117.7	143.7	6	1/3	99°	87°	71°	Fig. B	85
KFUH4835-1	480	34.5	117.7	71.8	6	1/3	99°	87°	71°	Fig. B	85

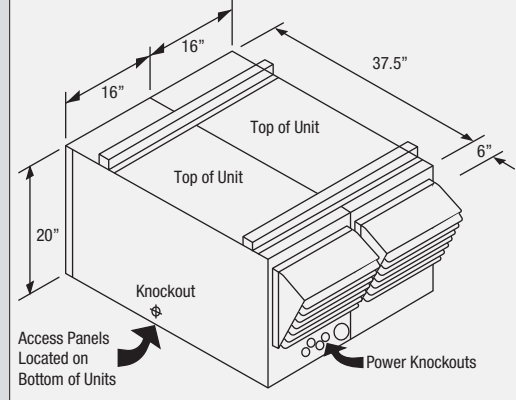
MODEL	VOLTS	kilo watts	BTUH	AMPS	# of ELEMENTS	MOTOR HP	TEMPERATURE RISE (° F)			SIZE	WT. (lbs)
							LOW	MED	HIGH		
KFUH2405-3	240	5	17.1	13	3	1/5	30°	25°	20°	Fig. A	74
KFUH4805-3	480	5	17.1	7	3	1/5	30°	25°	20°	Fig. A	74
KFUH2009-3	208	9	30.7	21.6	3	1/5	37°	33°	28°	Fig. A	74
KFUH2410-3	240	10	34.1	24.1	3	1/5	41°	37°	32°	Fig. A	74
KFUH4810-3	480	10	34.1	12	3	1/5	41°	37°	32°	Fig. A	74
KFUH2012-3	208	11.25	38.4	31.2	3	1/5	46°	41°	35°	Fig. A	74
KFUH2412-3	240	12	40.9	28.9	3	1/5	49°	44°	38°	Fig. A	74
KFUH4812-3	480	12	40.9	14.4	3	1/5	49°	44°	38°	Fig. A	74
KFUH2015-3	208	15	51.2	41.6	3	1/5	61°	55°	47°	Fig. A	74
KFUH2415-3	240	15	51.2	36.1	3	1/5	61°	55°	47°	Fig. A	74
KFUH4815-3	480	15	51.2	18.1	3	1/5	61°	55°	47°	Fig. A	74
KFUH2418-3	240	17.25	58.8	43.3	3	1/5	70°	63°	55°	Fig. A	74
KFUH4818-3	480	17.25	58.8	20.7	3	1/5	70°	63°	55°	Fig. A	74
KFUH2420-3	240	20	68.3	48	4	1/5	57°	51°	41°	Fig. B	85
KFUH4820-3	480	20	68.3	24	4	1/5	57°	51°	41°	Fig. B	85
KFUH2022-3	208	22.5	76.8	62.5	6	1/3	64°	56°	46°	Fig. B	85
KFUH2424-3	240	24	81.6	57.7	6	1/3	69°	61°	49°	Fig. B	85
KFUH4824-3	480	24	81.6	28.8	6	1/3	69°	61°	49°	Fig. B	85
KFUH2030-3	208	30	102.4	83.3	6	1/3	86°	76°	62°	Fig. B	85
KFUH2430-3	240	30	102.4	72.2	6	1/3	86°	76°	62°	Fig. B	85
KFUH4830-3	480	30	102.4	36.1	6	1/3	86°	76°	62°	Fig. B	85
KFUH2435-3	240	34.5	117.7	82.9	6	1/3	99°	87°	71°	Fig. B	85
KFUH4835-3	480	34.5	117.7	41.5	6	1/3	99°	87°	71°	Fig. B	85

High Air Velocity Unit Heater KFUH Series

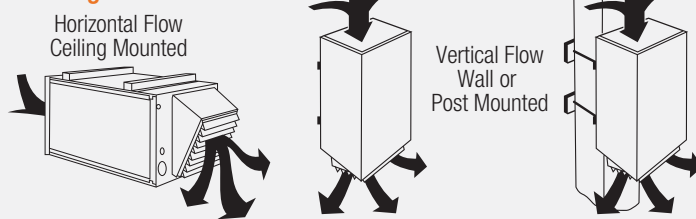
Dimensional Data



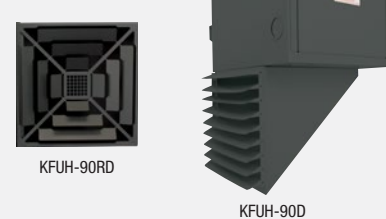
Dual Mounting



Mounting



Diffusers



Options

ADD SUFFIX:	DESCRIPTION
-2S1	2 Stage Control 1-Phase models
-2S3	2 Stage Control 3-Phase models (5 kW increments only)
-DS40	40 Amp, 3-Pole Non-Fused Locking Disconnect Switch
-DS60	60 Amp, 3-Pole Non-Fused Locking Disconnect Switch
-DS80	80 Amp, 3-Pole Non-Fused Locking Disconnect Switch
-DS100	100 Amp, 3-Pole Non-Fused Locking Disconnect Switch
-T	1-Pole Thermostat

Air Flow Delivery Chart

MOTOR HP	MOTOR SPEED				
	MOTOR LOAD		LOW	MED	HIGH
	VOLTS	AMPS	CFM FPM	CFM FPM	CFM FPM
1/5	230 ³	3.4	775 570	860 630	1000 ¹ 735
	380 / 460 ¹	1.7			
1/3	230 ³	3.2	1100 ² 810	1250 920	1540 ² 1130
	380 / 460 ²	1.7			
1/2	230 ³	3.8	1250 920	1540 1130	1750 ³ 1285
	380 / 460 ¹	1.9			
Motor Wire Color			RED	BLUE	BLACK

*Air Volume=Ft.³ Per Minute (CFM) *Air Velocity=Ft. Per Minute (FPM)
¹Single speed (high), ²Two speed (High/Low), ³Three speed (Low/Med/High)

KFUH Diffuser Options

MODEL	UPC	DESCRIPTION	WEIGHT (lbs.)
KFUH-DIFFUSER	15741	Standard KFUH Air Diffuser	5.0
KFUH-ND	15725	No Diffuser, 1" duct collar only discharge side for connection to 14" x 14" duct	N/A
KFUH-RD	15743	Radial diffuser for wide pattern heat dispersion	4.0
KFUH-90D	15728	Right angle elbow (90°) diffuser with adjustable louvers	15.0
KFUH-90RD	15729	Right angle elbow (90°) with radial diffuser	14.0

KFUH Factory Installed Options

MODEL	UPC	DESCRIPTION	WEIGHT (lbs.)
KFUH-1/3HP	NA	Upgrade to 1/3 HP Motor & Blower for 3-18KW units	N/A
KFUH-1/2HP	NA	Upgrade to 1/2 HP Motor & Blower for 20-35KW units	N/A
KFUH-ECM	NA	Upgrade to ECM Motor 1/3 HP	N/A
KFUH-T	15747	Factory Installed Stat (SPST). Temperature range 40°F to 100°F	N/A
KFUH-2TS	15707	Factory Installed Stat (DPST). Temperature range 40°F to 100°F	N/A
KFUH-SF	15708	Factory Installed Summer Fan Switch	N/A
KFUH-2S1	15714	Control Relays & Contactor for 2-Stage Element Control, 1-Phase heaters. Available on certain models.	N/A
KFUH-2S3	15716	Control Relays & Contactor for 2-Stage Element Control, 3-Phase heaters. Available on certain models.	N/A
K-DS40	NA	Factory Installed 40 Amp, 3-Pole Non-Fused Locking Disconnect Switch	N/A
K-DS60	NA	Factory Installed 60 Amp, 3-Pole Non-Fused Locking Disconnect Switch	NA
K-DS80	NA	Factory Installed 80 Amp, 3-Pole Non-Fused Locking Disconnect Switch	N/A
K-DS100	NA	Factory Installed 100 Amp, 3-Pole Non-Fused Locking Disconnect Switch	N/A
1E30-910	19000	Wall mount thermostat, 24V, range 50° - 90°	1.0
KFUH-PTBL	17216	Kit to make KFUH Portable. Includes casters and mounting bracket (No Cord)	N/A

Electronic Portable Unit Heater PKB Series



PLATINUM

Model Code:

PKB	20	10	-1
A	B	C	D

A: Series

B: 20 - 208V, 24 - 240V
48 - 480V

C: KW (10)

D: 1-Phase, 3-Phase

- Platinum electronic temperature controller
- Large LED display
- Remote control included
- Fan Only & timer modes
- Patented Smart Limit Protection®
- Adjustable louvers
- Unit bearing motor
- Spiral finned heat elements
- Standard color: Textured gray
- 6ft. SO cord (no plug)
- Heavy duty 16 gauge wheel base
- 2-year limited warranty



The PKB Platinum Electronic Portable Utility Heater

King's PKB Electronic Portable Utility Heaters are the most full-featured utility heaters on the market, with in-built Platinum electronic thermostat for accuracy and remote control for simple operation. With integrated summer fan only and thermostat timer mode, the PKB Platinum has you covered. Constructed to hold up to the rigorous demands of a jobsite or industrial facility. It is the best heat source to assist in dry-out applications where dry electric heat is preferred to propane or kerosene space heaters. In addition, electric heat has no odor, flame or carbon monoxide. The high CFM and low temperature rise are also key features to make the PKB Platinum the best solution for temporary large capacity heating applications. Spiral finned steel elements and high CFM ensure even air distribution producing cooler element operation, prolonging heater life.

Ordering Information

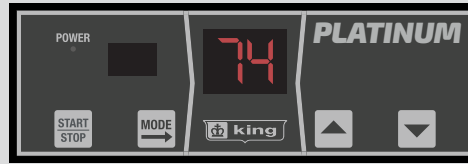
	MODEL	KW	BTUH	PHASE	VOLTS	AMPS	CFM	SIZE	SO CORD SIZE	
208V	PKB2007-1-P	7.5	25.6	1	208	36.1	600	A	8/3	
	PKB2007-3-P	7.5	25.6	3	208	20.8	600	B	10/4	
	PKB2010-1-P	10	34.1	1	208	48	725	A	6/3	
	PKB2010-3-P	10	34.1	3	208	27.7	725	B	8/4	
	PKB2015-1-P-FB	15	51.2	1	208	72.1	925	B	2/3	
	PKB2015-3-P	15	51.2	3	208	36.1	925	B	6/4	
240/ 208V	PKB2020-3-P-FB	20	68.2	3	208	55.5	1100	C	4/3	
	PKB2407-1-P	7.5/5.6	25.6/19.2	1	240/208*	31.3/26.9	600	A	8/3	
	PKB2407-3-P	7.5/5.6	25.6/19.2	3	240/208*	18.0/15.6	600	B	12/4	
	PKB2410-1-P	10/7.5	34.1/25.6	1	240/208*	41.7/36.1	725	A	6/3	
	PKB2410-3-P	10/7.5	34.1/25.6	3	240/208*	24.1/20.8	725	B	10/4	
	PKB2412-1-P-FB	12.5/9.4	42.7/32.0	1	240/208*	52.1/45.1	825	B	6/3	
	PKB2412-3-P	12.5/9.4	42.7/32.0	3	240/208*	30.1/26.1	825	B	8/4	
	PKB2415-1-P-FB	15/11.25	51.2/38.4	1	240/208*	62.5/54.1	925	B	4/3	
	PKB2415-3-P	15/11.25	51.2/38.4	3	240/208*	36.1/54.1	925	B	6/4	
	PKB2420-3-P-FB	20/15	68.2/51.20	3	240/208*	48.1/41.6	1100	C	4/4	
	480V	PKB4807-1-P	7.5	25.6	1	480	15.6	600	B	14/3
		PKB4807-3-P	7.5	25.6	3	480	9	600	B	16/4
PKB4810-1-P		10	34.1	1	480	20.8	725	B	12/3	
PKB4810-3-P		10	34.1	3	480	12	725	B	14/4	
PKB4812-1-P		12.5	42.7	1	480	26	825	B	10/3	
PKB4812-3-P		12.5	42.7	3	480	15.1	825	B	12/4	
PKB4815-1-P		15	51.2	1	480	31.3	925	B	8/3	
PKB4815-3-P		15	51.2	3	480	18.1	925	B	12/4	
PKB4820-3-P	20	68.2	3	480	24.1	1100	C	10/4		

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.

Electronic Portable Unit Heater PKB Series

Platinum Electronic Controller Features

- Electronic control for accuracy
- Thermostat timer mode (1-9 Hours)
- Summer Fan only mode
- Large LED display
- Built-In fan delay
- Remote control included



Engineering Specifications

Contractor shall supply and install PKB Series electronic utility heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Construction: All exterior and interior metal enclosure parts are made from 20 gauge electrogalvanized Steel with a rust inhibiting baked enamel finish. Smooth rounded corners and protective edge trim give an attractive modern appearance.

Electronic Control: Up, down temperature mode. Start/Stop. Standard on all heaters. The control voltage is equal to the line voltage (208, 240) for 5kW the line voltage control is operating the contactors.

Adjustable Outlet Louver: Louvers direct air up or down as needed for the heating application.

Rear Intake Screen: Heavy gauge steel screen protects against foreign objects making accidental contact with the rotating fan blade.

Spiral Fin Elements: The metal sheath element is copper brazed with spiral fins then molded into a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum airflow stream.

Totally Enclosed Fan Motor: Permanently lubricated long life, unit bearing with 20cc of oil. Epoxy-coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Aluminum Fan Blade: Axial flow-type fan mounted directly to the motor shaft for maximum efficiency.

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. Automatically reset of thermal overloads, which allow the element to continue to cycle under abnormal conditions, will not be accepted.

Cord Length: 6 Foot SO Cord (No Plug Provided)

Approvals: cETLus (517271) & (30314521)

Options/Accessories

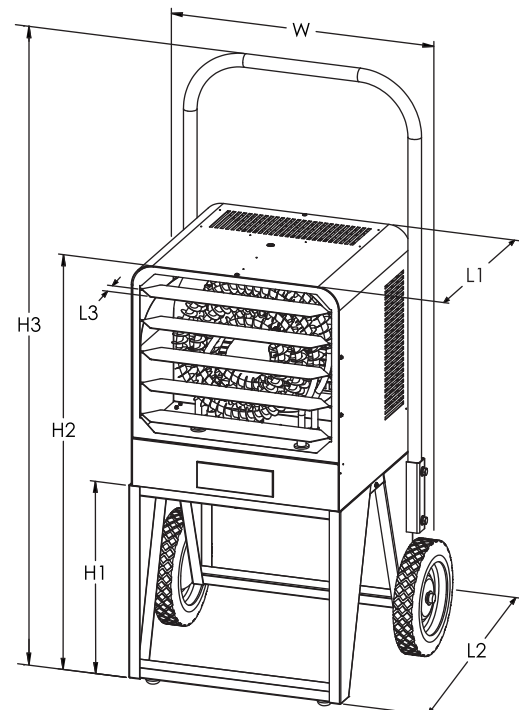
ADD SUFFIX	DESCRIPTION
-25C	25 foot cord option

Dimensional Data

HEATER SIZE	DIMENSIONS						
	L1	L2	L3	W	H1	H2	H3
A	13½"	17"	1"	19"	14¼"	30¼"	41¼"
B	18"	21½"	1"	19"	14¼"	30¼"	41¼"
C	24"	21½"	1"	19"	14¼"	30¼"	41¼"

Minimum Clearance

front.....	3 ft.
top.....	1 ft.
sides.....	1 ft.
rear.....	1 ft.



Industrial Portable Unit Heater PCK Series



Model Code:

PCK 48 20 -3 -T -DT -YJ
A B C D E F G

A: Series
B: 20 - 208V, 24 - 240V
48-480V
C: kiloWatts (10 - 30)
D: -1 = Single Phase
-3 = Three Phase
E: -T = Thermostat
G: -YJ = Yellow Jacket



- Built-in thermostat
- 24V control for heat or fan only
- steel spiral finned elements
- Long life 3R cast iron motor
- N.E.M.A. 12" gasket construction
- 12" duct transition
- Convenient carrying handles
- Optional frame
- Outdoor rating optional
- High visibility Yellow Jacket high tensile 18GA steel enclosure
- Large capacity dual-inlet blower handles high static pressure & moves large air volumes (1500 CFM)
- 95 lbs. without frame, 125 lbs. with industrial frame

PCK Industrial Portable Unit Heater

The King PCK "Yellow Jacket" Industrial portable unit heater is constructed to hold up to the rigorous demands of a jobsite or industrial facility. This unit heater is the very BEST heat source to assist in complete "Dry-out" applications, where dry electric heat is preferred to propane or kerosene space heaters. In addition, electric heat omits absolutely no odor, flame or carbon monoxide. The high CFM and moderate temperature rise are also key features to make this unit heater the very best solution for temporary large capacity heating and dry-out applications. Comes standard with a 12" collar for adding a flexible duct to extend the heated air to where it is needed. The -IF (Industrial Frame) complies with the FAA's Airport regulations of 18 inch above the ground for air inlet of the heater to reduce the jet fuel vapor being drawn in. An Outdoor rain proof rating can be added to the portable unit heater by adding the -OR (Outdoor Rating) to the Model number. This will allow you to place the heater outside in the rain and feed heated air into a building structure, plane, container, apartment, ship or any work area requiring heated dry fresh air and not take up space in the work area. The -OR option adds an intake rain baffle and electrical compartment rain cover and is UL approved for Outdoor Use. Many options are available. We can build one for your application.

Ordering Information

	MODEL	UPC	kiloWATTS	VOLTS	PHASE
208V	PCK2010-1	22186	10	208	1
	PCK2010-3	22187	10	208	3
	PCK2015-1	22188	15	208	1
	PCK2015-3	22189	15	208	3
	PCK2020-3	22190	20	208	3
	PCK2025-3	22191	25	208	3
	PCK2030-3	22192	30	208	3
240V	PCK2410-1	22193	10	240	1
	PCK2410-3	22194	10	240	3
	PCK2415-1	22195	15	240	1
	PCK2415-3	22196	15	240	3
	PCK2420-3	22197	20	240	3
	PCK2425-3	22198	25	240	3
	PCK2430-3	22199	30	240	3
480V	PCK4810-3	22200	10	480	3
	PCK4815-3	22201	15	480	3
	PCK4820-3	22202	20	480	3
	PCK4825-3	22203	25	480	3
	PCK4830-3	22204	30	480	3

Accessories

MODEL	UPC	DESCRIPTION
PCK-IF	22205	HEAVY DUTY INDUSTRIAL STEEL FRAME
PCK-IFCS	22206	CORD STORAGE SHELF
PCK-OR	22207	OUTDOOR RATING INLET RAIN BAFFLE W/ ELECTRICAL AND CORD COVER
RT100	22208	REMOTE THERMOSTAT W/100 FT. CORD

Optional heavy duty 1" x 2" steel frame for protection, convenient stackable storage and mobility from job site to job site.

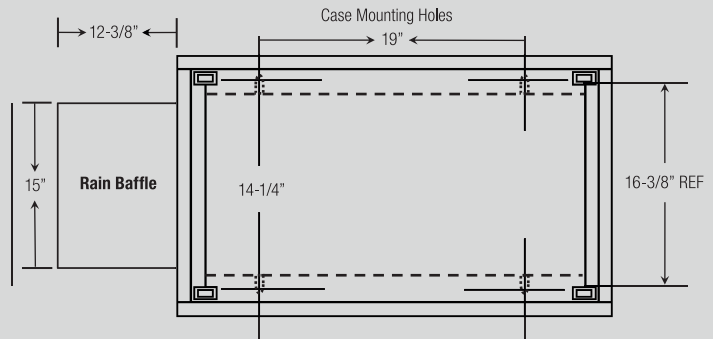
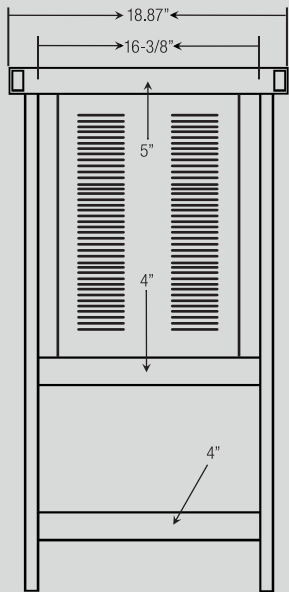
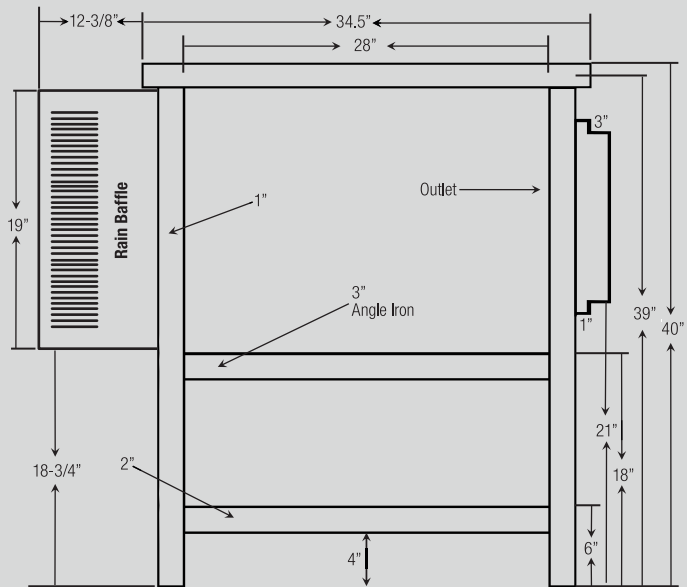
Industrial Portable Unit Heater PCK Series



Shown with industrial steel frame and cord storage tray

Dimensional Data

#	QUANTITY	DESCRIPTION
1	4	1 X 2 X 39 Rect. tubing
2	2	1 X 2 X 28 Rect. tubing
4	4	1 X 2 X 16-3/8 Rect. tubing
5	2	1 X 2 X 18-3/8 Rect. tubing
3	2	2 X 2 X 30 Angle



Shown with ducting



Shown with short steel frame 25-1/2"



Outdoor rating inlet rain baffle with electrical and cord cover

Select The Right Type Of Heater

How To Select The Right Type Of Heater

Fan heater or baseboard?

Space: A baseboard heater takes up more wall space than a fan-forced heater which can cause problems placing furniture. (For example: a 2250 Watt Pic-A-Watt® heater will provide as much heat as a 9 foot baseboard.)

Comfort: A fan-forced heater will heat a room within a few minutes whereas a baseboard will require 30 to 40 minutes. A fan-forced heater will also maintain a more even temperature because the fan will circulate air around the room. This reduces the severity of hot/cold temperature swings.

Noise: A baseboard heater has no moving parts and therefore is quieter than a fan heater. The small Pic-A-Watt® heater uses a squirrel cage blower which makes it almost inaudible.

Efficiency: A 1500 Watt baseboard uses the same amount of electrical power as a 1500 Watt fan heater. The difference is a fan heater gives more even heat throughout the room thereby reducing air stratification (hot air rising and not mixing with the cooler floor air). This process makes you feel cooler causing you to turn the baseboard thermostat to a higher temperature setting whereby it runs more often thus using more electric power than the same size fan heater. Every 1° a thermostat is turned up will raise a power bill 3.1%. As such, a baseboard set to 75°F will cost you 15.5% more than a fan heater set to 70°F.

Which fan heater to choose?

Use: If the heater will run often and be used as primary heating for the home King recommends using heaters with steel elements such as the Pic-A-Watt®. These elements carry a five year warranty and will hold up to the rigors of everyday use. For supplemental or occasional use open-coil elements work fine. If budgetary constraints are of primary importance open-coil heaters are the least expensive.

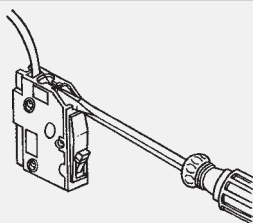
Noise: A propeller-type fan will make more noise than a squirrel cage fan. Open-coil elements make more noise than steel mass elements (Pic-A-Watt®) due to the rate of heat exchange with the air. For large rooms, two small heaters will be quieter than one large heater.

How To Size The Heating Circuit

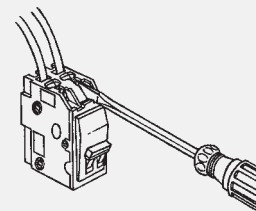
AMPS	VOLTS	WATTS	WIRE SIZE	CIRCUIT PROTECTION
12	120	1,440	#14/2	15 Amp – 1-Pole
16	120	1,920	#12/2	20 Amp – 1-Pole
12	240	2,880	#14/2	15 Amp – 2-Pole
16	240	3,840	#12/2	20 Amp – 2-Pole
24	240	5,760	#10/2	30 Amp – 2-Pole
32	240	7,680	#8/2	40 Amp - 2 Pole

- According to the National Electric Code heating circuits are considered a continuous load and therefore must be derated by 20%.
(For example: a 20 Amp heating circuit cannot have more than 16 Amps of load connected.)
- 120 Volt heaters require 1-Pole circuit breakers; 240 Volt heaters need 2-Pole breakers.
- Use 2-wire cable with ground (Romex™ or BX).
- When placing multiple heaters on a circuit do not exceed the wattage listed for the corresponding wire and circuit breaker size.
(For example: 2-1000W & 1-1500W, 240V heaters = 3500 Watts total. These 3 heaters would require 12/2 wire and a 20 Amp 2-Pole breaker if they were to all be placed on the same circuit. If more heaters are needed either run a new circuit or increase the wire and breaker size to accommodate the load.)
- A 1500 Watt heater will cost the same to run whether it is 120 or 240 Volt. 240 Volt heating circuits are more common because, as the chart shows, you can place more heaters on a 20 Amp 240 Volt circuit (maximum of 3840 Watts) versus a 120 Volt circuit (maximum of 1920 Watts).
- 120 and 240 Volt heaters are not interchangeable. A 240 Volt heater run at 120 Volt will produce 25% of the rated wattage. A 120 Volt heater run at 240 Volt will be destroyed and poses a severe fire hazard.
- What voltage are my heaters?

One breaker indicates 120 Volt is feeding your heater.



Two breakers tied together indicates a 240 Volt circuit feeding your heater.



Total Amperage Rating Chart

Total Amperage Rating Chart

Power KW	120V (1)	208V (1)	208V (3)	240V (1)	240V (3)	277V (1)	480V (1)	480V (3)	600V (1)	600V (3)
0.3	2.50	1.45	0.83	1.25	0.72	1.09	0.63	0.36	0.50	0.29
0.4	3.34	1.92	1.11	1.67	0.97	1.45	0.84	0.49	0.67	0.39
0.5	4.17	2.41	1.39	2.09	1.21	1.81	1.05	0.61	0.84	0.49
0.6	5.00	2.89	1.66	2.50	1.45	2.17	1.25	0.72	1.00	0.58
0.75	6.25	3.61	2.09	3.13	1.81	2.71	1.57	0.91	1.25	0.72
0.8	6.67	3.85	2.23	3.34	1.93	2.89	1.67	0.97	1.34	0.77
1	8.34	4.81	2.78	4.17	2.41	3.61	2.09	1.21	1.67	0.97
1.2	10.00	5.77	3.34	5.00	2.89	4.34	2.50	1.45	2.00	1.16
1.25	10.42	6.01	3.47	5.21	3.01	4.52	2.61	1.51	2.09	1.21
1.4	11.67	6.73	3.89	5.84	3.38	5.06	2.92	1.40	2.34	1.35
1.5	12.50	7.22	4.17	6.25	3.61	5.42	3.13	1.81	2.50	1.45
1.6	13.34	7.70	4.45	6.67	3.86	5.78	3.34	1.93	2.67	1.54
1.75	14.59	8.42	4.87	7.30	4.22	6.32	3.65	2.11	2.92	1.69
2	16.67	9.62	5.56	8.34	4.82	7.22	4.17	2.41	3.34	1.93
2.25	18.75	10.82	6.25	9.38	5.42	8.13	4.69	2.71	3.75	2.17
2.5	20.84	12.02	6.95	10.42	6.02	9.03	5.21	3.01	4.17	2.41
3	25.00	14.43	8.34	12.50	7.23	10.83	6.25	3.61	5.00	2.89
4	33.34	19.23	11.12	16.67	9.64	14.44	8.34	4.82	6.67	3.86
4.5	37.50	21.64	12.50	18.75	10.84	16.25	9.38	5.42	7.50	4.34
5	41.67	24.04	13.90	20.84	12.05	18.05	10.42	6.02	8.34	4.82
6	50.00	28.85	16.68	25.00	14.45	21.66	12.50	7.23	10.00	5.78
7.5	62.50	36.06	20.84	31.25	18.06	27.08	15.63	9.03	12.50	7.23
8	66.67	38.47	22.23	33.34	19.27	28.88	16.67	9.64	13.34	7.71
9	75.00	43.27	25.01	37.50	21.68	32.49	18.75	10.84	15.00	8.67
10	83.34	48.08	27.79	41.67	24.09	36.11	20.84	12.05	16.67	9.64
12	100.00	57.70	33.25	50.00	28.90	43.33	25.00	14.45	20.00	11.56
14	116.67	67.31	38.91	58.33	33.72	50.54	29.17	16.86	23.33	13.49
15	125.00	72.12	41.69	62.50	36.13	54.16	31.25	18.06	25.00	14.45
18	150.00	86.54	50.02	75.00	43.35	64.99	37.50	21.68	30.00	17.34
20	166.67	96.16	55.58	83.34	48.17	72.21	41.67	24.09	33.34	19.27
24	200.00	115.39	66.69	100.00	57.80	86.65	50.00	28.90	40.00	23.12
25	208.34	120.20	69.48	104.17	60.21	90.26	52.09	30.11	41.67	24.09
30	250.00	144.23	83.37	125.00	72.25	108.31	62.50	36.13	50.00	28.90
35	291.67	168.27	97.27	145.84	84.30	126.36	72.92	42.15	58.34	33.72
40	333.34	192.31	111.16	166.67	96.34	144.41	83.34	48.17	66.67	38.54
45	375.00	216.35	125.06	187.50	108.38	162.46	93.75	54.19	75.00	43.35
50	416.67	240.39	138.95	208.34	120.43	180.51	104.17	60.21	83.34	48.17
55	458.34	264.43	152.85	229.17	132.47	198.56	114.59	66.24	91.67	52.99
60	500.00	288.47	166.75	250.00	144.51	216.61	125.00	72.25	100.00	57.80
66	550.00	317.31	183.20	275.00	158.77	238.68	137.50	79.39	110.00	63.51

(1) Single Phase, (3) Three Phase

Heater Care And Information

Taking Care Of Your Heating System

At the start of each heating season clean and inspect each heater. **It is extremely important to remember to turn off the power at the circuit breaker before attempting any installation, maintenance or repairs. Failure to do so may result in serious electrical shock, burns or possible death.** Remove the grille on fan heaters. Clean any dust or lint from inside the heater with a vacuum cleaner, compressed air or soft bristle brush. Check that the fan spins freely. Between 5-10 years you may want to upgrade your thermostat, as the sensing element may not be as accurate as when new. The most accurate thermostat is listed as an anticipated model. If, in the future, you decide to remodel or add rooms to your home, you won't have to worry about the size of your heating system. With electric heat you can add to the heating system, in large or small increments.

Zone Control

Thermostat settings are a matter of personal preference. A few days of adjustments will help you determine the setting that is comfortable for you. Most people keep their living quarters at 68 to 72°F (20 to 22°C) and sleeping areas at 65°F (18°C). For energy conservation and financial savings it is wise to set living area thermostats back at night, but not below 60°F (16°C).

Temperature Versus Cost

When setting your thermostat, you may want to consider the relative cost of various temperatures. The chart at right shows how much higher your heating bill may be if you like temperatures warmer than 70°F (21°C).

	-3.1%	+3.1%	+6.2%	+9.4%	+12.5%	+15.6%	+18.7%	+21.9%	+25.0%	+28.0%	+31.0%
69°F	70°F	71°F	72°F	73°F	74°F	75°F	76°F	77°F	78°F	79°F	80°F
20.5°C	21.1°F	21.6°C	22.2°C	22.7°C	23.3°C	23.8°C	24.4°C	25°C	25.5°C	26.1°C	26.6°C

Ohm's Law

The relationship between Wattage (heat) output and the applied Voltage of electric resistance heating elements is determined by a precise physical rule defined as Ohm's Law which states that the current in a resistance heating element is directly proportional to the applied Voltage. Ohm's Law is traditionally expressed as:

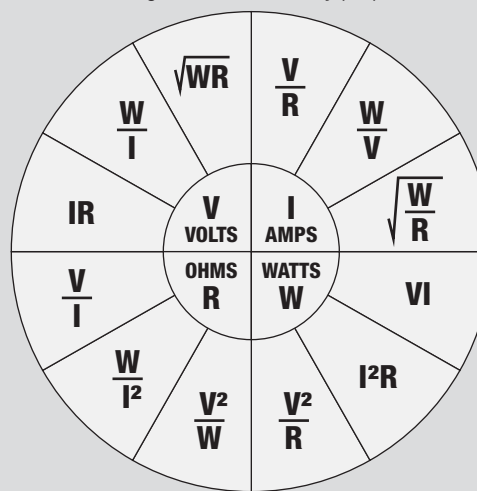
$$I = E/R$$

Where: **I** = Amperes (Current)
E = Voltage
R = Ohms (Resistance)

The same equation using the conventional abbreviation for voltage is:

$$I = V/R$$

Where: **I** = Amperes (Current)
V = Voltage
R = Ohms (Resistance)



An unknown electrical value can be derived by using any two known values in one of the variations of Ohm's Law.

VOLTS Volts = $\sqrt{\text{Watts} \times \text{Ohms}}$	AMPERES Amperes = $\frac{\text{Volts}}{\text{Ohms}}$	OHMS Ohms = $\frac{\text{Volts}}{\text{Amperes}}$	WATTS Watts = Volts x Amperes
Volts = $\frac{\text{Watts}}{\text{Amperes}}$	Amperes = $\frac{\text{Watts}}{\text{Volts}}$	Ohms = $\frac{\text{Watts}}{\text{Amperes}^2}$	Watts = Amperes ² x Ohms
Volts = Amperes x Ohms	Amperes = $\sqrt{\frac{\text{Watts}}{\text{Ohms}}}$	Ohms = $\frac{\text{Volts}^2}{\text{Watts}}$	Watts = $\frac{\text{Volts}^2}{\text{Ohms}}$

A Brief History



1956: In 1956 the electricity industry launched the “Live Better Electrically” (LBE) campaign, featuring a young Ronald Reagan touting the benefits of clean electricity, with the goal of converting American homes to 100% electric power.

1958: By 1958, electric heat was seen as a new frontier. Robert E. Wilson, founder of King Electrical MFG Co. wanted to be part of this new revolution and saw the opportunity to bring high quality all electric heating products to the market. Typical heating systems (coal, oil, and kerosene) were usually dirty, smoky and smelled terrible. Electric heat was the new, clean, flameless heating system, eliminating foul-smelling fuels and requiring no maintenance. After a successfully landing a military housing contract to outfit 5,000 military family homes, King’s electric baseboard heater was born. The public embraced it and millions of homes replaced their huge basement furnace with small baseboard heaters under the windows.



1963: Business was booming and soon KING outgrew its small factory location in South Park, a south Seattle suburb. Seattle had just hosted the 1962 World’s Fair giving millions of Americans their first look at the Pacific Northwest. After the fair one of the international pavilion buildings was moved to a lot close to KING; offices were added and the new KING factory was born.

1968: By 1968, over 30 different manufacturers of electric heat had launched into the business. Many innovations came and went, but only the strongest would survive. King introduces the KB unit heater and KCC cabinet heater product lines.

1970s: KING continued to expand distribution by adding warehouses across the United States to expedite delivery to a rapid growing market share. The international market steadily increased and several large distributors were set up in Canada, South America, and various other countries. King introduces the KFS electric furnace product line.

1984: The first small fan heaters (W series) were developed, again shifting the way Americans heat their homes. With improved air circulation and a compact design, these heaters were quickly becoming the industry standard.



A Brief History

1986: Everything changed with the invention of the Pic-A-Watt® series of heaters. A new class of heaters, that allowed customers to select the exact wattage, tailoring the heater to an area's specific heating requirements. An industry first.

Pic-A-Watt
Selectable Wattage Element®



1999: King develops and introduces the soon to be patented Smart Limit Protection (SLP) safety limit. The safety standard of the industry today.

2007: A big year for KING. Dean Wilson formerly with GE is named CEO, and daily management of the business is now run by brothers Dean, Brad and RJ Wilson. As most competitors move production offshore, KING makes the decision to significantly invest in new automated equipment to keep production in the USA. The C5 Tourette press is purchased allowing for 24/7 sheet metal production. King introduces line of electronic thermostats, the first thermostats in the market designed and built by a heating manufacturer.



2008: King Electric expands product line to include fan-forced hydronic heating.



2010: Construction is finished on 40,000 sqft warehouse and distribution center in Seattle, WA. King launches comprehensive line of Electric Heating Cables.



2013: King launches new industry leading line of Garage Heaters, effectively creating a new category for the electric heat market. King purchases second C5 machine, effectively doubling sheet metal production capacity.



2015: King launches ECO2S 2-Stage Heaters – ECO2S Works Smarter, Not Harder. KING launches the ATMOZ WIFI, connected thermostats with smart phone app control, for line voltage heaters.



2018: King Celebrates our 60 Year Anniversary of Made in America Comfort.

We believe experience matters.