

## Electronic Unit Heater KB EC02S Series





#### **Model Code:** KB 24 04 -1 -B2 -ECO B C D E

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



- Smart EC02S design
- 2-Stage heating
- Hand held remote & wall holder
- Timer & Summer Fan
- Only Modes
- Auto Memory Feature: returns units to last settings after power outage
- Built-In Fan Delay To Dissipate Heat
- High mass steel fin heat exchanger
- Patented Smart Limit® Protection
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- Permanent lubricated unit bearing motor
- Universal wall/ceiling bracket included
- UL Certified in Canada & US
- Proudly made in the USA with U.S. & Global Materials
- 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 Fan only mode
- Large LED display
- · Remote control and wall bracket included
- Thermostat timer mode (1-9 Hours)
- · Built-In fan delay





Remote Style May Vary

#### **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.

Auto Memory Feature: Returns Unit To Last Settings After Power Outage. **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 guick access panel located on the bottom of the heater allows for guick wiring and easy maintenance for the life of the heater. Includes universal wall/ceiling bracket for simple installation.

**Approvals:** cULus (E41422)



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#### **Ordering Information**

	MODEL	UPC	kilo Watts	втин	PHASE	VOLTS	AMPS	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX MOUNT HEIGHT	SIZE	WT. (lbs.)
208V	KB2004-1-B2-EC0	22045	4	13.5	1	208	19.2	9W	400	38°F	15 ft.	8 ft.	В	36
	KB2005-1-B2-EC0	22046	5	17	1	208	24	9W	400	40°F	16 ft.	8 ft.	В	36
	KB2007-1-B2-EC0	22048	7.5	25.6	1	208	36.1	16W	600	40°F	20 ft.	9 ft.	В	29
	KB2010-1-B2-EC0	22050	10	34.1	1	208	48.1	25W	725	44°F	24 ft.	10 ft.	В	42
	KB2012-1-B2-EC0	22051	12.5	42.7	1	208	60.1	35W	825	48°F	30 ft.	11 ft.	С	46
	KB2015-1-B2-EC0	22052	15	51.2	1	208	72.1	50W	925	51°F	33 ft.	12 ft.	С	47
240V	KB2404-1-B2-EC0	22037	4	13.5	1	240/208*	16.6/14.4	9W	400	38°F	15 ft.	8 ft.	В	36
	KB2405-1-B2-EC0	22038	5	17	1	240/208*	20.8/18	9W	400	40°F	16 ft.	8 ft.	В	36
	KB2407-1-B2-EC0	22040	7.5	25.6	1	240/208*	31.2/27	16W	600	40°F	20 ft.	9 ft.	В	36
	KB2410-1-B2-EC0	22042	10	34.1	1	240/208*	41.6/36.1	25W	725	44°F	24 ft.	10 ft.	В	42
	KB2412-1-B2-EC0	22043	12.5	42.7	1	240/208*	52/45.1	35W	825	48°F	30 ft.	11 ft.	С	46
	KB2415-1-B2-EC0	22044	15	51.2	1	240/208*	62.5/54.1	50W	925	51°F	33 ft.	12 ft.	С	47

<sup>\*</sup>Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V.

#### **Replacement Accessories**

MODEL	UPC	DESCRIPTION	WT. (lbs.)
EC02S-REMOTE	33489	ECO2S Replacement Infrared Remote Control	0.1
EC02S-REMOTE-BRACKET	33490	ECO2S Replacement Infrared Remote Control Wall Mount Bracket	.04
KBB-2	15195	Replacement Universal Large Mounting Bracket	2.6
KBHS	13486	Replacement Hook swivel	0.3
KBHK	13487	Replacement Hardware Kit	0.1

#### **Bracket Selection Chart**

DD A OL/ET #	HEATER KW SIZE	BRACKET DIMENSIONS												
BRACKET #	USED WITH	L	W	Н	Α	В	C	D	Ε	F	Χ	Υ	Z	
KBB-2	4 to 15 kW (1 phase)	167/8"	215/16"	101/8"	11/4"	7"	17/8"	15/8"	135/8"	15/8"	3/4"	1"	1½"	

