2-Stage Electronic Unit Heater KB EC02S+ Series



- EC02S+ electronic temperature controller
- Energy efficient 2-stage heating
- Includes EC02S+ remote temperature sensor
- Built-In provision for optional 24V remote thermostat
- Compatible with NEST / any 24V WIFI Stat
- Remote control included
- Large LED display
- Standard color: textured gray
- Fan Delay, Fan Only & timer modes
- Unit bearing motor
- Adjustable louvers
- Spiral finned heat elements
- Universal bracket included
- Patented Smart Limit® Protection
 - 5-year limited warranty

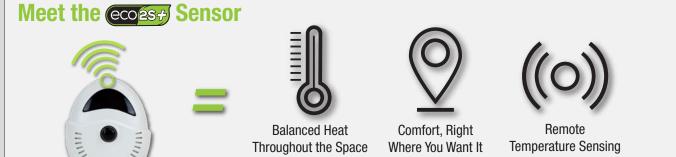
EC02S+ 2-Stage Electronic Garage Heater with IR Remote Control

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. With the ECO2S+ Remote Temperature Sensor, your ECO2S+ heater knows exactly where the room's cold spot is and works smarter to keep the entire room comfortable. Just place it on a wall or shelf and get the right temperature, right where you want it. Comes standard with a provision for adding an optional 24V thermostat for remote temperature control. Combined with integrated summer fan only and thermostat timer modes, the KB ECO2S+ has you covered....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.

EC02S+ 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
- Built-In provision for optional 24V remote thermostat
- Compatible with NEST / any 24V WIFI Stat







Ordering Information - single phase MODEL UPC KW **BTUH PHASE** VOLTS AMPS **MOTOR CFM** TEMP. AIR MAX. *SIZE WT. HP RISE THROW MOUNT (lbs.) HEIGHT KB2404-1-EC02S-PLUS 33237 4 13.5 1 240/208* 16.6/14.4 9W 400 38°F 15ft. 8ft. В 36 19.2 KB2004-1-EC02S-PLUS 33236 4 13.5 9W 400 38°F 15ft. В 36 1 208 8ft. 40°F KB2405-1-EC02S-PLUS 33239 5 17 1 240/208* 20.8/18.0 9W 400 16ft. 8ft. В 36 KB2005-1-EC02S-PLUS 33238 5 17 1 208 24.0 9W 400 40°F 16ft. 8ft. В 36 25.6 16W 40°F KB2407-1-EC02S-PLUS 33241 7.5 1 240/208* 31.2/27.0 600 20ft. 9ft. В 36 KB2007-1-EC02S-PLUS 33240 7.5 25.6 208 36.1 16W 600 40°F 20ft. 9ft. В 29 1 KB2410-1-EC02S-PLUS 33243 10 240/208* 41.6/36.1 25W 725 44°F 24ft. 10ft. В 42 34.1 1 44°F В KB2010-1-EC02S-PLUS 33242 10 34.1 1 208 48.1 25W 725 24ft. 10ft. 42 KB2412-1-EC02S-PLUS-FB 33245 12.5 42.7 52.1/45.1 35W 825 48°F 30ft. 11ft. С 46 1 240/208* KB2012-1-EC02S-PLUS-FB 33244 12.5 42.7 1 35W 825 48°F 11ft. С 46 208 60.1 30ft. KB2415-1-EC02S-PLUS-FB 51°F 33247 15 51.2 240/208* 62.5/54.1 50W 925 33ft. 12ft. С 47 1 KB2015-1-EC02S-PLUS-FB 33246 15 51.2 1 208 72.1 50W 925 51°F 33ft. 12ft. С 47

Maximum mounting height is manufacturer's recommendation

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

Replacement Accessories

MODEL UPC			DESCRIPTION										WT. (lbs.)	
ECO2S-REMOTE 33489			ECO2S+ Replacement Infrared Remote Control										0.1	
EC02S-REMOTE-BRACKET 33490			EC02S	EC02S+ Replacement Infrared Remote Control Wall Mount Bracket									0.2	
EC02S-REMOTE-SENSOR 3349		33491		EC02S	EC02S+ Remote Temperature Sensor									
EC02S-5V-PWRSPLY 33		33167		EC02S+ 5V DC WALL ADAPTER, Optional Accessory										0.4
Bracket Selection Chart														
	HEATER KW SIZE USED WITH			BRACKET DIMENSIONS										
BRACKET #			L	W	Н	Α	В	С	D	Е	F	Х	Y	Z
KBB-2	4 to 15 kW (1 p	ohase)	167/8"	215/16"	101/8"	1¼"	7"	17/8"	15/8"	135/8"	15/8"	3⁄4"	1"	1½"

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.

ECO2S+ Electronic Control: Up, Down temperature mode. Automatic 2-Stage heating (High & ECO Modes). Start/Stop. Fan Only and Timer (1-9hours) Modes. Standard on all heaters.

EC02S+ Remote Temperature Sensor: Wireless remote temperature sensing for balanced heating at the coldest spot in the room. 2.4G wireless protocol. Includes wall mounting bracket.

Provision For 24V Remote Thermostat: Includes terminals to connect an optional 24V 2-Stage Thermostat. Compatible with NEST / any 24V WIFI Stat.

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)

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