

# Electronic Wall Heater LPW ECO2S Series



**Model Code:**

LPW	24	45	ECO	WD	R
A	B	C	D	E	F

A: Series  
 B: 12 - 120V 24 - 240V  
 20 - 208V  
 C: Watts 45-(2500-4500W)  
 27-(1500-2750W)  
 D: ECO2S Controller  
 E: Color  
 F: Retail Packaging



- Modern Curved Design
- ECO2S Electronic Controller
- Energy Efficient 2-Stage Heating
- Fan Only & Timer Modes
- Remote Control Included
- Dual Pic-A-Watt® Elements
- Patented Smart Limit Protection®
- 5-Blade Aluminum Fan
- 20 Gauge Powder-Coated Grill
- Long Life Unit Bearing Motor
- Standard Color: White Dove
- Design Colors Available
- Display lock feature for high traffic areas
- Bedroom Dimming Feature, (turns OFF the display when not in use)
- 120, 208, 240 volts
- 5-Year limited warranty

## The LPW **eco2s** Series Electronic 2-Stage Smart Wall Heater w/ Remote

King redefines comfort with the smart series LPW ECO2S wall heater. Combining a sleek and modern design with unparalleled performance, energy efficiency and user control. The ECO2S controller ensures consistent comfort by minimizing temperature swings. In a cold room it utilizes full power to heat the room quickly. Once the desired temperature is achieved, the heater automatically reduces the wattage to maintain the room temperature and save energy. 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. Includes both summer fan only and timer mode options, as well as a remote control for simple operation. In addition, King's exclusive dual Pic-A-Watt selectable wattage elements allow customers to select from a range of wattage options, tailoring the heater to a room's specific heating requirements, up to 4500W. It's as easy as unplugging a wire to select the maximum wattage during installation. Now That's Smart! An ideal choice for both residential and commercial applications.

### Meet the ECO2S Sensor



Balanced Heat  
Throughout the Space







Comfort, Right  
Where You Want It



Remote  
Temperature Sensing

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**“Complete” Stock Models** For other color grill options use "Order A'la Carte" chart below to build your own complete heater.

BASE MODEL	VOLTS	COLOR	WATTS	AMPS	SHIP WEIGHT lbs	DESIGNER COLORS AVAILABLE
LPW1227-ECO-WD-R	120	White Dove	1500•1750•2000•2250•2500•2750	10.4 - 22.9	19.0	  White Dove    Satin Nickel   Almondine    Oiled Bronze
LPW2045-ECO-WD-R	208	White Dove	2500•3000•3500•4000•4500	10.8 - 21.6	19.0	
LPW2445-ECO-WD-R	240/208*	White Dove	2500•3000•3500•4000•4500	9.4 - 18.8	19.0	
LPW2445-ECO-AD-R	240/208*	Almondine	2500•3000•3500•4000•4500	9.4 - 18.8	19.0	
LPW2445-ECO-SN-R	240/208*	Satin Nickel	2500•3000•3500•4000•4500	9.4 - 18.8	19.0	
LPW2445-ECO-OB-R	240/208*	Oiled Bronze	2500•3000•3500•4000•4500	9.4 - 18.8	19.0	

(-R) Full color consumer packaging

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

**NOTE:** Not all configurations listed above are stock items (A+ or A stock code). Refer to price book for the Stock code. For non-stock items refer to the table below to order heater parts separately.

**Order A'la Carte** \*\*To build your own “Complete” with designer grill options (not noted above) select HRC model of proper voltage and LPWG grill model of proper color.

**STEP 1:** Order Heatbox Interior and Recessed Wall Can

ADD SUFFIX	UPC	DESCRIPTION	SHIP WEIGHT lbs
LPW1227-ECO-HRC	32638	LPW ECO, 120V 2750W, Heatbox Interior & Recessed Wall Can	11.5
LPW2045-ECO-HRC	32639	LPW ECO, 208V 4500W, Heatbox Interior & Recessed Wall Can	11.5
LPW2445-ECO-HRC	32640	LPW ECO, 240V 4500W, Heatbox Interior & Recessed Wall Can	11.5

**STEP 2:** Order Grill

MODEL	UPC	DESCRIPTION	SHIP WEIGHT lbs
LPWG-ECO-WD	32628	LPW ECO, Grill, White Dove Color	4.5
LPWG-ECO-AD	32631	LPW ECO, Grill, Almondine Color	4.5
LPWG-ECO-SN	32630	LPW ECO, Grill, Satin Nickel Color	4.5
LPWG-ECO-OB	32629	LPW ECO, Grill, Oiled Bronze Color	4.5

**NOTE:** This is the quickest option when the factory installed heaters options are not in stock.

## Accessories

MODEL	UPC	DESCRIPTION	SHIP WEIGHT lbs
LPWSMF-WD	32620	LPW, Surface Mount Frame, White Dove Color	2.0
LPWSMF-AD	32623	LPW, Surface Mount Frame, Almondine Color	2.0
LPWSMF-SN	32621	LPW, Surface Mount Frame, Satin Nickel Color	2.0
LPWSMF-OB	32622	LPW, Surface Mount Frame, Oiled bronze Color	2.0
ECO2S-5V-PWRSPLY	33167	ECO2S+ 5V DC Wall Adapter	0.4
102155		PX ECO Replacement Infrared Remote Control	0.12
102156		PX ECO Replacement Infrared Remote Control Wall Mount Bracket	0.06
102806		PX ECO Remote Temperature Sensor	0.14

\*\* Kraft box packaging

## Engineering Specifications

*Contractor shall supply and install LPW-ECO2S Series in-wall mounted forced-air electric heaters manufactured by King Electrical Mfg. Company, of the wattage and voltage as indicated on the plans.*

**Ratings:** Heaters shall be available in wattages of 1500 to 2750 at 120 or 2500-4500 at 208, or 240 Volts

**Motor:** Heavy-duty, cast iron, unit bearing, permanently lubricated with 20cc oil reservoir, 1440 RPM. Enclosed impedance protected with intake air cooling motor for increased bearing life.

**Fan:** High efficiency, dynamically balanced 5-blade aluminum fan. 185 CFM.

**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. The control voltage is equal to the line voltage.

**ECO2S 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.

**Elements:** Element assemblies shall consist of three steel sheathed heating tubes in a furnace-brazed, plate-finned, block design. Each sheathed tube shall contain coiled Ni-Chrome wire, embedded in an insulator of Magnesium Oxide. The element assembly shall provide up to five (5) possible wattage configurations available for selection during field installation. The use of external resistors, diodes, or other weak links to obtain multiple wattages will not be accepted.

**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.

**Fan / Heat / Off:** Electronic Controller provides heating and summer fan-only operation.

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## Engineering Specifications *Continued*

**Wall-Can:** 20 gauge electro-galvanized steel with factory installed ground-wire. Minimum 4" clearance to floors and 6" to sidewalls. Zero clearance to combustibles in the wall. Recommended 10" clearance to floors and 16" to sidewalls.

**ECO2S 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.

**Grill:** The grill shall be a louvered, one-piece curved front design with rounded edges on all four sides. The grill shall be epoxy powder-coated in white dove, almondine, satin nickel or oiled bronze.

**Options:** Wired for remote thermostat, retrofit grill, and surface wall-box.

**Approvals:** (E41422 cULus)

### Dimensional Data

