Architectural Heater LPWA Series

king
Pic-A-Watt
Steel Fin Element

SMART SLP LIMIT PROTECTION

c UL us LISTED

Model Code:

LPWA	24	45	-S	-TP	-SN
A	B	C	D	E	F

A: Series
B: 12 - 120V 24 - 240V
20 - 208V 27 - 277V
C: Watts (1500 to 4500)
D: Surface Can (Included)
E: Tamper Proof Thermostat
F: Color

MADE IN USA
With U.S. & Global Materials

- Architectural Design
- Dual Pic-A-Watt® Elements
- Long life unit bearing motor
- Tamper resistant
- Tamper proof thermostat
- Tamper proof Heat/Fan/OFF Disconnect switch
- 5-Blade aluminum fan
- Multiple wattage options
- Extruded aluminum grill
- Solid riveted construction for consistent, long-term durability
- Patented Smart Limit Protection®
- 120, 208, 240, or 277 volts
- Optional colors bright white, satin nickel, oiled bronze & satin black
- 5-year limited warranty

The LPWA Architectural Heater

Entryways, corridors and all public areas are best heated with the LPWA Series. The heavy duty grill and frame can withstand heavy traffic and abuse. Tamper-resistant screws prevent unauthorized disassembly of the grill. Controls are recessed out-of-reach of fiddling fingers. Comes standard w/ Tamper proof Heat/Fan/OFF disconnect switch & tamper proof built-in thermostat. High wattage and airflow capacities replenish entryways and hallways to prevent drafts from entering the building's core. 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

*Add suffix -OB for Oiled Bronze, -SB for Satin Black, -BW for Bright White, -SN for Satin Nickel

	MODEL	UPC	COLOR	VOLTS	WATTS	AMPS	SHIP WEIGHT lbs
	LPWA1227-TP-SN	18194	Satin Nickel	120	1250•1500•1750•2000•2750	22.9	24
120V	LPWA1227-TP-BW	20557	Bright White	120	1250•1500•1750•2000•2750	22.9	24
	LPWA1227-S-TP-SN	33052	Satin Nickel	120	1250•1500•1750•2000•2750	22.9	24
	LPWA1227-S-TP-BW	20558	Bright White	120	1250•1500•1750•2000•2750	22.9	24
	LPWA2045-TP-SN	18245	Satin Nickel	208	2250•2750•3000•3250•3500•3750•4000•4500	21.6	24
208V	LPWA2045-TP-BW	18247	Bright White	208	2250•2750•3000•3250•3500•3750•4000•4500	21.6	24
	LPWA2045-S-TP-SN	18241	Satin Nickel	208	2250•2750•3000•3250•3500•3750•4000•4500	21.6	24
	LPWA2045-S-TP-BW	18339	Bright White	208	2250•2750•3000•3250•3500•3750•4000•4500	21.6	24
	LPWA2445-TP-SN	18191	Satin Nickel	*240/208	2250•2750•3000•3250•3500•3750•4000•4500	18.7	24
240V	LPWA2445-TP-BW	18178	Bright White	*240/208	2250•2750•3000•3250•3500•3750•4000•4500	18.7	24
	LPWA2445-S-TP-SN	32962	Satin Nickel	*240/208	2250•2750•3000•3250•3500•3750•4000•4500	18.7	24
	LPWA2445-S-TP-BW	32973	Bright White	*240/208	2250•2750•3000•3250•3500•3750•4000•4500	18.7	24
	LPWA2740-TP-SN	18199	Satin Nickel	277	2000•3000•4000	14.4	24
277V	LPWA2740-TP-BW	20921	Bright White	277	2000•3000•4000	14.4	24
	LPWA2740-S-TP-SN	18185	Satin Nickel	277	2000•3000•4000	14.4	24
	LPWA2740-S-TP-BW	33019	Bright White	277	2000•3000•4000	14.4	24

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

Options

ADD SUFFIX	DESCRIPTION	WEIGHT lbs
-SB	Grill - Satin Black	24
-OB	Grill - Oiled Bronze	24
-BW	Grill - Bright White	24
-SN	Grill - Satin Nickel	24
-CT24*	Transformer that converts 208, 240 and 277 Volts to 24 Remote Thermostat Control	24.5
-HLR	Heat Lock Out Relay for BMS Systems	0
-S	Surface Can Included	24
-CB2	20 Amp Double Pole Circuit Breaker / Disconnect (277V Models Only)	0.5
-CB3	30 Amp Double Pole Circuit Breaker / Disconnect	0.5

*Remove -TP Suffix when ordering -CT24 Option

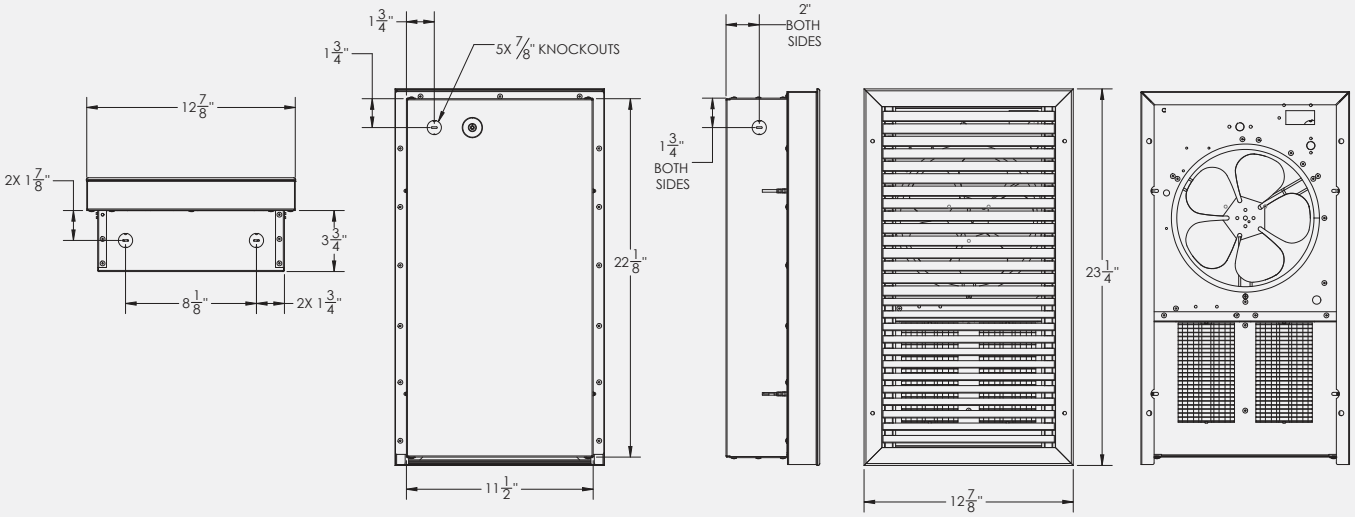
Pic-A-Watt Steel Fin Element — Architectural Heater LPWA Series

Accessories

MODEL	UPC	DESCRIPTION	WEIGHT lbs
LPWAIC	18200	Architectural Recess Wall Can	6.5
LPWASA-SB	17345	Surface Can Satin Black	5
LPWASA-OB	18202	Surface Can Oiled Bronze	5
LPWASA-SN	18197	Surface Can Satin Nickel (Standard)	5
LPWASA-BW	18201	Surface Can Bright White	5
LPWAG-OB	18206	LPWA Series Grill - Oiled Bronze	7
LPWAG-SN	18179	LPWA Series Grill - Satin Nickel	7
LPWAG-BW	18387	LPWA Series Grill - Bright White	7
LPWA-TP	18140	Tamper-proof Thermostat Replacement	2

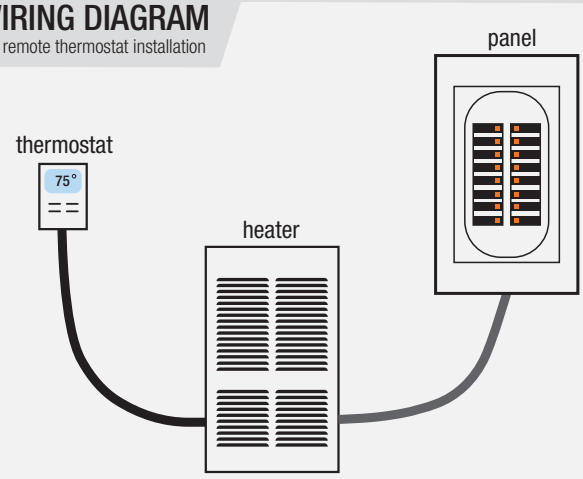
Dimensional Data

MINIMUM CLEARANCE: Zero clearance to insulation recommend 10" above floor 6" from adjacent wall surface



WIRING DIAGRAM

for remote thermostat installation



Power must be routed to the heater first, and then to the remote thermostat.
This is due to the fan delay circuit needed to cool the element on shut down

Colors

Standard

Satin Nickel *Oiled Bronze* *Bright White* *Satin Black*

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Engineering Specifications

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

Construction: All exterior and interior enclosure components are fabricated from 20-gauge electrogalvanized steel with a rust-inhibiting baked enamel finish. Components are assembled using solid mechanical rivets rather than spot welding, eliminating heat-affected zones and hidden weld defects. Riveted joints are fully visible and inspectable, providing consistent structural integrity under vibration and thermal cycling.

Grill: Heavy duty extruded 12 gauge aluminum provides high impact resistance to damage. Grill is attached with tamper-proof screws (hex socket/pinned). All controls are easily accessed through grill with slotted screwdriver. Standard color is satin nickel, oiled bronze, bright white or satin black is available.

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 eight (8) 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.

Tamper Proof: Single Pole factory installed hydraulic capillary tube with precision control. Operating range 40˚F to 90˚F. Thermostat is tamper-proof to prevent unauthorized adjustment.

Fan / Heat / Off Switch: Tamper-proof 3-position switch provides heating and summer fan-only operation. The DPST off switch provides a "positive off" that disconnects all ungrounded conductors. Controls are easily accessed through grill with slotted screwdriver.

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 Delay Switch: The fan continues to operate after the thermostat shuts off in order to remove the residual heat left in the elements.

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.

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

Optional Circuit Breaker / Disconnect: 20 Amp or 30 Amp

Control: Transformer Relay 24V/ heat lock out delay

Approvals: cULus