



SUBMITTAL SHEET

Job Name: _____	Submitted By: _____	Date: _____
Location: _____	_____	_____
Architect: _____	_____	_____
Engineer: _____	Approved By: _____	Date: _____
Contractor: _____	_____	_____
Submitted By: _____	_____	_____
King Contact: _____	_____	_____

Quotes@king-electric.com

Date: _____

Tag	Qty	Item Number	Watts	Volts	PH	Amps	Weight
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Accessories

Tag	Qty	Item Number
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Stainless Steel High Temp Unit Heater KBSH Series



Model Code:

KBSH 48 20 -3 -SSR
A B C D E

A: Series

B: 48 - 480V

24 - 240V 20 - 208V

C: Watts (20,000)

D: 3 Phase

E: -Solid State Relay



- 20-gauge 304 stainless steel construction, including stainless steel hardware
- For areas requiring periodic hose-down
- Auxiliary temperature control panel mounts outside of the heated space
- Solid state relay (SSR) provides proportional heating
- Adjustable louvers to direct air
- Rear Intake Screen: protects against foreign objects, complying with OSHA standards
- NEMA 4 enclosure: protecting against corrosion, dust, dirt, & hose-directed water
- Includes fan only switch and service disconnect switch.
- Includes temperature probe that mounts into the heated space
- Permanent lubricated totally enclosed motor
- Automatic primary and secondary safety limit with indicator light
- High mass stainless steel fin heat exchanger
- 2-Year limited warranty

Engineered to Elevate Unoccupied Room Temperatures Up To 160°F

The KBSH is a stainless steel high-temperature unit heater designed for harsh environments and engineered to elevate unoccupied room temperatures up to 160°F. Features a remote auxiliary temperature control panel that gets mounted outside of the heated space. Designed for Process Equipment Rooms & Laboratories. Built with rugged 20-gauge type 304 stainless steel and stainless steel elements, this heater was specifically designed for harsh environments, including dirty, dusty or corrosive areas requiring periodic washing or hose-down. Ideal for industrial settings, food processing plants and other facilities where maintaining high temperatures is paramount. The N.E.M.A. 4 wiring compartment is sealed and gasketed making it water tight. The remote auxiliary temperature control panel includes advanced thermostatic controls to ensure precise and consistent heating and is mounted outside the heated space increasing the heater's durability and longevity by protecting the electronics and mechanical components from extreme temperatures and potential damage. This ensures reliable performance and extends the heater's service life. This strategic design choice helps maintain optimal functionality and minimizes the need for frequent maintenance or replacements.

Ordering Information - three phase

MODEL	UPC	KW	BTUH (000)	PHASE	VOLTS	AMPS	THERMOSTAT CONTROL VOLTAGE	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT HEIGHT	SIZE	WT. (lbs.)
KBSH2020-3-SSR	70367	20	68.3	3	208	55.5	24***	1/4 HP	1750	36°	37ft.	14ft.	E	60.0
KBSH2420-3-SSR	70368	20	68.3	3	240/208*	48.1/41.6*	24***	1/4 HP	1750	36°	37ft.	14ft.	E	60.0
KBSH4820-3-SSR	70369	20	68.3	3	480*	24	24***	1/4 HP	1750	36°	37ft.	14ft.	E	60.0

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

*** Include provision for 24V remote thermostat (thermostat purchased separately).

Engineering Specifications

Contractor shall supply and install KBSH 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 20 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.

Low Voltage Terminal Block: Feature 24V control voltage and include terminal block provision for 24V remote thermostat (Purchased separately).

N.E.M.A. 4 Enclosure: All wiring compartment penetrations are 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.

Stainless Steel High Temp Unit Heater KBSH Series

Engineering Specifications (Continued)

Totally Enclosed Fan Motor: Permanently lubricated, long life PSC 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

Primary and Secondary Auto-Reset Thermal Overload with Indicator Light: Heaters shall be equipped with a primary auto-rest type thermal cut-out that disconnects the power from the elements if an overheated condition occurs. The fan continues to run to dissipate excess heat from the element. The element is re-energized automatically when normal operating temperatures returns.

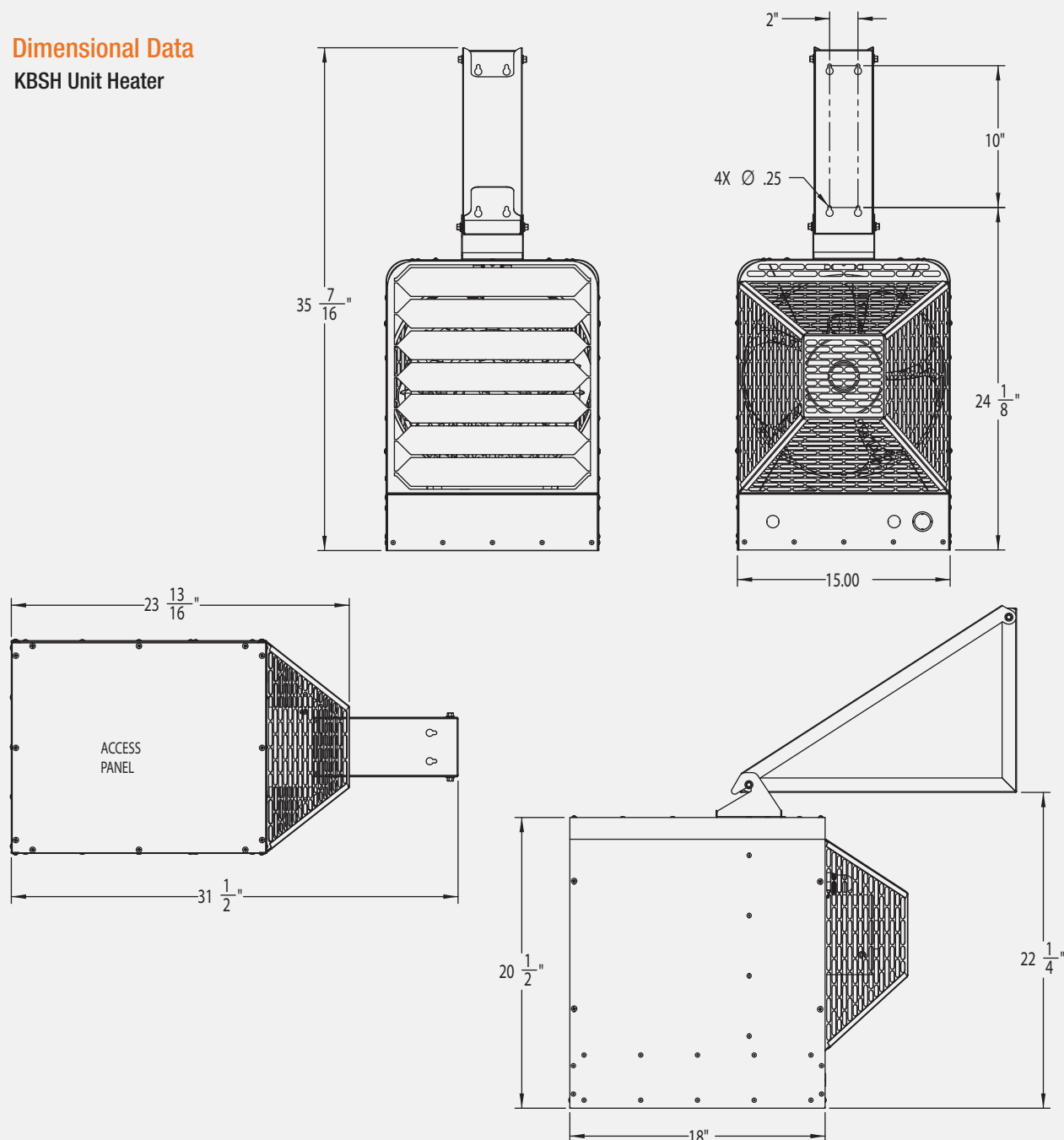
Heaters shall be equipped with a secondary auto-reset capillary tube type thermal cut-out which disconnects elements in the event normal operating temperatures are exceeded. If thermal overload trips due to abnormal operating temperatures, thermal overload shall remain open until automatically reset when normal operating temperatures returns.

Auxiliary Temperature Control Panel: Mounts outside the heated space increasing the heater's durability and longevity by protecting the electronics and mechanical components from extreme temperatures and potential damage.

Approval: cULus.

Dimensional Data

KBSH Unit Heater



Stainless Steel High Temp Unit Heater KBSH Series

Dimensional Data

Precision Control Panel

