

# Stainless Steel High Temp Unit Heater KBSH Series



**Model Code:**

KBSH 24 20 -3 -SSR  
A B C D E

- A: Series
- B: 24 - 240V 20 - 208V  
27 - 277V 48 - 480V
- C: Watts (20,000)
- D: 3 Phase
- E: -Solid State Relay



- 304 stainless steel construction
- For areas requiring periodic hose-down
- Auxiliary temperature control panel mounts outside of the heated space
- Solid state relay (SSR) provides proportional heating
- 20-gauge Stainless Steel Construction: including fasteners & hardware
- 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
- Permanent lubricated totally enclosed motor
- Patented Smart Limit Protection®
- 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 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, hot yoga studios 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	208	1/4 HP	1750	36°	37ft.	14ft.	E	60.0
KBSH2420-3-SSR	70368	20	68.3	3	240/208*	48.1/41.6*	240	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.

\*\*\* 480V models 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.

**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.

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## Engineering Specifications (Continued)

**Totally Enclosed Fan Motor:** Permanently lubricated, long life unit bearing coated 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

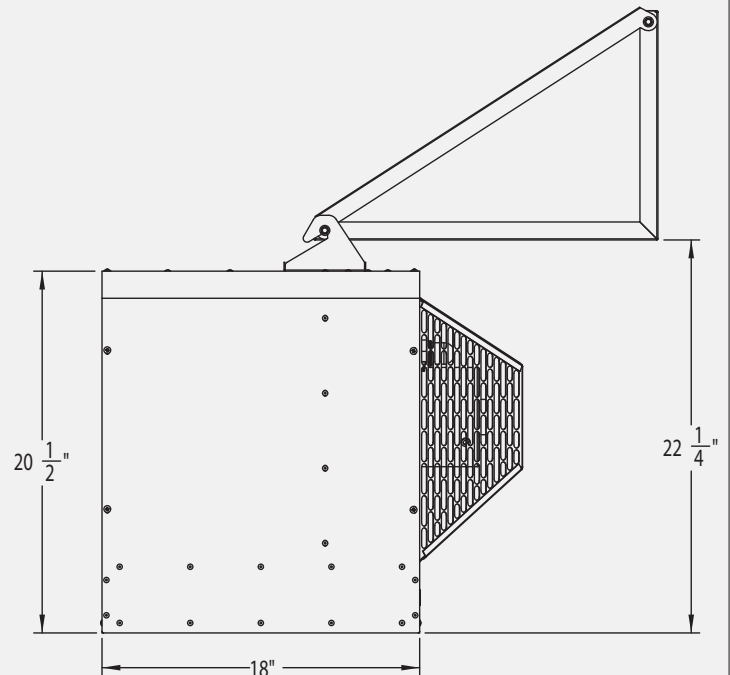
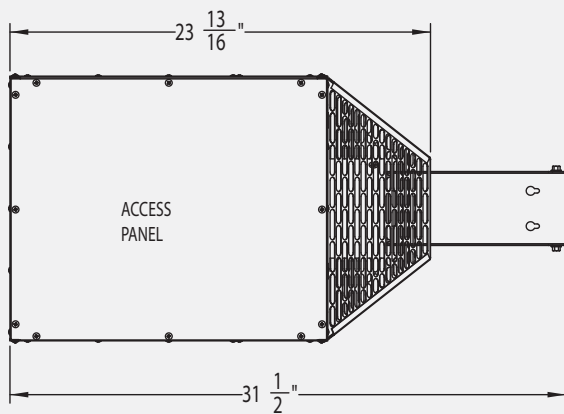
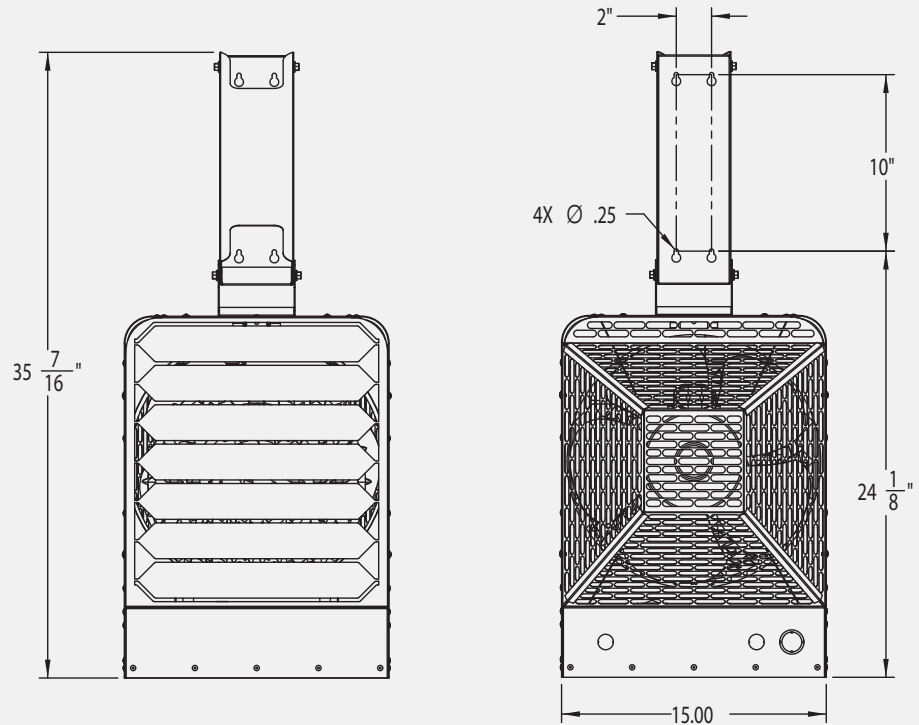
**Manual Reset Limit Electrically Held:** Power is disconnected from the heater if an overheated condition occurs. The heater is re-energized automatically when the normal operating temperature returns.

**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



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## Dimensional Data

Precision Control Panel

