

Electronic Unit Heater KB Platinum Series



Model Code:

KB	48	10	-1	-P	-FB
A	B	C	D	E	F

A: Series
B: 20 - 208V, 24 - 240/208V
 27 - 277V, 48 - 480V
C: kiloWatts (4-66)
D: -1 = Single Phase
 -3 = Three Phase
 -3MP = 1-3 Phase
E: -B1 = Platinum Controller
F: FB = Fuse Block



- Electronic temperature controller
- Large LED display
- Remote control included
- Fan only & timer modes
- Fan delay
- Patented Smart Limit Protection®
- Adjustable louvers
- Unit bearing motor
- Spiral finned heat elements
- Standard color: textured gray
- Universal mounting bracket included
- 5-year limited warranty



The KB Platinum Horizontal Unit Heater

King's KB Platinum series unit heaters are the most full-featured unit heaters on the market, with in-built electronic thermostat for accuracy and remote control for simple operation. With integrated summer fan only and thermostat timer mode, the KB Platinum has you covered. Designed for use as primary or supplemental heat sources in large or exposed areas, including high-rise buildings, stores, warehouses, garages, water treatment and fire room vaults to prevent freezing. Spiral finned steel elements and high CFM ensure even air distribution producing cooler element operation, prolonging heater life. By combining the highest quality components, with a dynamically balanced fan blade, the KB Platinum unit heater will provide years of trouble-free service. Includes universal wall/ceiling bracket for simple installation.

Platinum Electronic Controller Features

- Electronic control for accuracy
- Thermostat timer mode (1-9 Hours)
- Summer Fan only mode
- Large LED display
- Built-In fan delay
- Remote control and wall/ceiling bracket included
- Heaters above 20kW are ECO2S 2-stage heaters



Engineering Specifications

Contractor shall supply and install KB Series unit 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 with 20cc of oil. Epoxy-coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Aluminum Fan Blade: Axial flow-type fan mounted directly to the motor shaft for maximum efficiency.

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.

Automatically reset of thermal overloads, which allow the element to continue to cycle under abnormal conditions, will not be accepted.

Internal Controls: Magnetic contactors are standard on all 480V heaters, all 208V/1-Phase, 240V/1-Phase, 277V/1-Phase heaters above 6kW, and all 3-Phase heaters. The control voltage is equal to the line voltage (208, 240 or 277) except for 480V models where a transformer is provided for 24V control. Over 5kW the line voltage control is operating the contactor coil only and will draw only 1 Amp. See page 64 for control voltages.

Fusing: Internal circuit fusing is provided when the heater ampacity exceeds 48 Amps to comply with N.E.C. standards. A fan delay is provided standard on models 12.5-kW and above to dissipate residual heat from the heating elements.

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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Ordering Information - single phase

MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	MOTOR HP	CFM	TEMP. RISE	AIR THROW	MAX. MOUNT HEIGHT	*SIZE	WT. (lbs.)
KB2003-1-P	13312	3	10.2	1	208	14.4	9W	400	37°	15ft.	8ft.	A	30.5
KB2403-1-P	13313	3	10.2	1	240/208*	12.5	9W	400	37°	15ft.	8ft.	A	30.5
KB2703-1-P	13314	3	10.2	1	277	10.8	9W	400	38°	15ft.	8ft.	A	30.5
KB2004-1-P	13315	4	13.5	1	208	19.2	9W	400	38°	15ft.	8ft.	A	30.5
KB2404-1-P	13316	4	13.5	1	240/208*	16.7/14.4	9W	400	38°	15ft.	8ft.	A	30.5
KB2704-1-P	13317	4	13.5	1	277	14.4	9W	400	38°	15ft.	8ft.	A	30.5
KB2005-1-P	13323	5	17	1	208	24.0	9W	400	40°	16ft.	8ft.	A	30.5
KB2405-1-P	13324	5	17	1	240/208*	20.8/18	9W	400	40°	16ft.	8ft.	A	30.5
KB2705-1-P	13325	5	17	1	277	18.1	9W	400	40°	16ft.	8ft.	A	30.5
KB2007-1-P	13326	7.5	25.6	1	208	36.1	16W	600	40°	20ft.	9ft.	B	45.0
KB2407-1-P	13327	7.5	25.6	1	240/208*	31.3/27	16W	600	40°	20ft.	9ft.	B	45.0
KB2707-1-P	13328	7.5	25.6	1	277	27.1	16W	600	40°	20ft.	9ft.	B	45.0
KB2010-1-P	13329	9.98	34.1	1	208	48.0	25W	725	44°	24ft.	10ft.	B	45.0
KB2410-1-P	13330	10	34.1	1	240/208*	41.6/36.1	25W	725	44°	24ft.	10ft.	B	45.0
KB2710-1-P	13331	10	34.1	1	277	36.1	25W	725	44°	24ft.	10ft.	B	45.0
KB2012-1-P-FB	13404	12.5	42.7	1	208	60.1	25W	825	48°	30ft.	11ft.	C	50.0
KB2412-1-P-FB	13405	12.5	42.7	1	240/208*	52.1/45.1	35W	825	48°	30ft.	11ft.	C	50.0
KB2015-1-P-FB	13406	15	51.2	1	208	72.1	50W	925	51°	33ft.	12ft.	C	50.0
KB2415-1-P-FB	13407	15	51.2	1	240/208*	62.5/54.1	50W	925	51°	33ft.	12ft.	C	50.0
KB2003-3MP-P	13332	3	10.2	1-3	208	14.4/8.3	9W	400	37°	14ft.	8ft.	C	45.0
KB2403-3MP-P	13333	3	10.2	1-3	240/208*	62.5/54.1	9W	400	37°	14ft.	8ft.	C	45.0
KB4803-3MP-P	13348	3	10.2	1-3	480	6.3/3.6	9W	400	37°	14ft.	8ft.	C	45.0
KB2005-3MP-P	13334	5	17.1	1-3	208	24 & 13.9	9W	400	40°	16ft.	8ft.	C	45.0
KB2405-3MP-P	13335	5	17.1	1-3	240/208*	20.8/18 & 18/15.6	9W	400	40°	16ft.	8ft.	C	45.0
KB4805-3MP-P	13349	5	17.1	1-3	480	10.4 & 6.0	9W	400	40°	16ft.	8ft.	C	45.0
KB2007-3MP-P	13336	7.5	25.6	1-3	208	36.1 & 20.8	16W	600	40°	20ft.	9ft.	C	46.5
KB2407-3MP-P	13337	7.5	25.6	1-3	240/208*	31.2/27 & 18/15.6	16W	600	40°	20ft.	9ft.	C	46.5
KB4807-3MP-P	13350	7.5	25.6	1-3	480	15.6/9	16W	925	51°	33ft.	12ft.	C	46.5
KB2410-3MP-P	13338	10	34.1	1-3	240/208*	41.7/36.1 & 24.1/20.8	25W	725	44°	24ft.	10ft.	C	46.5
KB4810-3MP-P	13351	10	34.1	1-3	480	20.8 & 12	25W	725	44°	24ft.	10ft.	C	46.5
KB4812-3MP-P	13401	12.5	42.7	1-3	480	26 & 15	25W	825	48°	30ft.	11ft.	C	46.5
KB4815-3MP-P	13402	15	51.2	1-3	480	31.3 & 18.1	50W	925	51°	33ft.	12ft.	C	46.5
KB2010-3MP-P	13343	9.98	47.9	3	208	27.7	25W	825	48°	30ft.	11ft.	C	46.5
KB2012-3-P	13344	12.5	42.7	3	208	34.7	35W	825	48°	30ft.	11ft.	C	50.0
KB2412-3-P	13345	12.5	42.7	3	240/208*	30.1/26	35W	825	48°	30ft.	11ft.	C	50.0
KB2015-3-P	13346	15	51.2	3	208	41.7	50W	925	51°	33ft.	12ft.	C	50.0
KB2415-3-P	13347	15	51.2	3	240/208*	36.1/31.2	50W	925	51°	33ft.	12ft.	C	50.0
KB2020-3-P-FB	13408	20	68.3	3	208	55.6	1/4 HP	1100	57°	47ft.	13ft.	E	55.0
KB2420-3-P-FB	13409	20	68.3	3	240/208*	48.2/41.6	1/4 HP	1100	57°	47ft.	13ft.	E	55.0
KB4820-3-P	13416	20	68.3	3	480	24.1	1/4 HP	1100	57°	47ft.	13ft.	E	55.0
*KB2025-3-P-FB	13417	25	85.3	3	208	69.5	(2) 35W	1100	57°	47ft.	13ft.	F	60.5
KB2425-3-P-FB	13418	25	85.3	3	240/208	60.2/52.1	(2) 35W	1350	58°	41ft.	14ft.	F	60.5
*KB4825-3-P	13439	25	85.3	3	480	30.1	(2) 35W	1350	58°	41ft.	14ft.	F	60.5
*KB2030-3-P-FB	13419	30	102.4	3	208	83.4	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
KB2430-3-P-FB	13420	30	102.4	3	240/208	72.3/62.5	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
*KB4830-3-P	13440	30	102.4	3	480	36.1	(2) 50W	1800	53°	48ft.	15ft.	F	60.5
*KB2440-3-P-FB	13438	40	136.5	3	240	96.3/83.3	(2) 1/4 HP	2200	57°	53ft.	15ft.	F	60.5
*KB4840-3-P-FB	13441	40	136.5	3	480	48.2	(2) 1/4 HP	2200	57°	53ft.	15ft.	G	60.5

Maximum mounting height is manufacturer's recommendation

*Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V. *2-Stage heating standard.

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Field Mount Options

ADD SUFFIX:	UPC	DESCRIPTION
DS32	13480	Disconnect Switch, Field Installed Kit, 32 AMP, 600V
DS63	13481	Disconnect Switch, Field Installed Kit, 63 AMP, 600V
DS80	13482	Disconnect Switch, Field Installed Kit, 80 AMP, 600V
DS100	13483	Disconnect Switch, Field Installed Kit, 100 AMP, 600V

Replacement Accessories

MODEL	UPC	DESCRIPTION	WT. (lbs.)
KBB-1	13484	Replacement Universal Wall/Ceiling Small Mounting Bracket (for heaters with size A heaters)	1.9
KBB-2	13485	Replacement Universal Wall/Ceiling Large Mounting Bracket (for heaters with size B and C)	2.6
KBB-3	13488	Replacement Universal Wall/Ceiling Large Mounting Bracket (for heaters with size F & G)	3.9
KBHS	13486	Replacement Hook Swivel	0.4
KBHK	13487	Replacement Hardware Kit	0.1
61747	61747	Platinum Replacement Infrared Remote Control	0.1

Bracket Selection Chart

BRACKET #	HEATER KW SIZE USED WITH	BRACKET DIMENSIONS											
		L	W	H	A	B	C	D	E	F	X	Y	Z
KBB-1	3 to 5 kW (1 phase)	12½"	2 ¹⁵ / ₁₆ "	10 ¹ / ₁₆ "	1 ³ / ₁₆ "	7"	1 ⁷ / ₈ "	1 ⁷ / ₈ "	9¼"	1 ⁷ / ₈ "	¾"	1"	½"
KBB-2	7.5 to 10 kW (1 phase) 3 to 20 kW (3 phase)	16 ⁷ / ₈ "	2 ¹⁵ / ₁₆ "	10 ¹ / ₈ "	1¼"	7"	1 ⁷ / ₈ "	1 ⁵ / ₈ "	13 ⁵ / ₈ "	1 ⁵ / ₈ "	¾"	1"	1½"
KBB-3	25 to 40 kW (3 phase)	19½"	4 ³ / ₁₆ "	13 ³ / ₁₆ "	1 ⁵ / ₁₆ "	10"	1 ⁷ / ₈ "	1 ⁵ / ₈ "	16¼"	1 ¹ / ₈ "	11 ¹ / ₁₆ "	1"	2"

Dimensional Data

Twin Unit Size F & G

HEATER SIZE	HEIGHT	DEPTH	WIDTH
A	16.5"	11"	15"
B	16.5"	13.5"	15"
C	16.5"	18"	15"
E	20.5"	18"	15"
F	18.5"	18"	30"
G	20.5"	18"	30"

KBB-1, KBB-2 & KBB-3
Unit heater brackets can be used for mounting on ceiling or wall. 3/8" threaded hole on top of unit heater can also be used with threaded rod to drop the unit closer to the floor. Refer to bracket selection chart.