Safe Touch Cabinet Heater KCF Series

Model Code:

KCF	2/3/4	-24	20	-1	-R	-T	-DS1	-PW
A	B	C	D	E	F	G	H	I

A: Series
B: Length
C: 20 - 208V 24 - 240V
27 - 277V 48 - 480V
D: Watts (20=2000 - 50=5000)
E: -1 single phase -3 three phase
F: Recess or Surface mount
G: Single Pole Thermostat
H: Double Pole Disconnect Switch
I: Cabinet Color

- 120ºF max surface temperature safe to touch case
- Designed for assisted living facilities, daycare centers, memory care centers, or any facility w/ high-risk occupants
- Low density heat output
- Fan-Forced heat
- High mass ceramic heating-core w/ aluminum fins
- Low noise squirrel cage blower
- Capillary tube safety limit
- Heavy duty 18 gauge cabinet
- 208/240/277 & 480V models
- 1 or 3 phase models available
- Available in (5) designer colors
- 5-year limited warranty

MADE IN USA With U.S. & Global Materials

UL LISTED

The KCF Series Safe Touch Cabinet Heater

The KCF Safe Touch heater is intended for areas that are required to have surface temperatures below 125 degrees F, These areas are typically, day care centers, memory care centers, common areas where wheel chair patients may be placed or anywhere a temperature of an electric heater over 125 degrees could cause someone to accidently burn themselves over time. Many older care centers have implemented this type of heater replacing the old style high wattage baseboards as it has been enforced by inspectors and required by code to keep their patients safe. Heavy duty front covers and our Ceramic Core heating element makes this a long lasting heater with virtually no maintenance required. Optional: Sub-base for mounting close to the floor, inbuilt thermostat factory or tamperproof thermostat may be installed. Heaters can be ganged together to work on one thermostat if higher output is required. Textured powder coated finish, available in (5) designer colors.

DESIGNER COLORS AVAILABLE

Pearl White | White Dove | Satin Nickel | Almondine | Oiled Bronze

Step 1: Ordering Information - *single phase base models*

*Important: To Order A Complete Unit, Follow Steps 1 thru 5 To Determine Complete Model Number

	MODEL	VOLTS	WATTS	1-PH AMPS	BTUH	CONTROL VOLTAGE	#of BLOWERS	CFM	LENGTH	SHIP WEIGHT lbs
	KCF2-2005-1	208	500	2.4	1.7	208V	1	70	24”	35
208V	KCF3-2007-1	208	750	3.6	2.6	208V	1	70	36”	35
	KCF4-2015-1	208	1500	7.2	5.1	208V	2	140	48”	45
	KCF4-2020-1	208	2000	9.6	6.8	208V	3	210	48”	55
	KCF2-2405-1	240	500	2.1	1.7	240V	1	70	24”	35
240V	KCF3-2407-1	240	750	3.1	2.6	240V	1	70	36”	35
	KCF4-2415-1	240	1500	6.3	5.1	240V	2	140	48”	45
	KCF4-2420-1	240	2000	8.3	6.8	240V	3	210	48”	55
	KCF2-2705-1	277	500	1.8	1.7	277V	1	70	24”	35
277V	KCF3-2707-1	277	750	2.7	2.6	277V	1	70	36”	35
	KCF4-2715-1	277	1500	5.4	5.1	277V	2	140	48”	45
	KCF4-2720-1	277	2000	7.2	6.8	277V	3	210	48”	55
	KCF2-4805-1	480	500	1.0	1.7	277V	1	70	24”	35
480V	KCF3-4807-1	480	750	1.6	2.6	277V	1	70	36”	35
	KCF4-4815-1	480	1500	3.1	5.1	277V	2	140	48”	45
	KCF4-4820-1	480	2000	4.2	6.8	277V	3	210	48”	55

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Step 1: Ordering Information - *three phase base models*

* Important: To Order A Complete Unit, Follow Steps 1 thru 5 To Determine Complete Model Number
** Note: 3-Phase models come standard with power contactor

	MODEL	VOLTS	WATTS	3-PH AMPS	BTUH	CONTROL VOLTAGE	#of BLOWERS	CFM	LENGTH	SHIP WEIGHT lbs
	KCF2-2005-3	208	500	1.4	1.7	208V	1	70	24"	35
208V	KCF3-2007-3	208	750	2.1	2.6	208V	1	70	36"	35
	KCF4-2015-3	208	1500	4.2	5.1	208V	2	140	48"	45
	KCF4-2020-3	208	2000	5.6	6.8	208V	3	210	48"	55
	KCF2-2405-3	240	500	1.2	1.7	240V	1	70	24"	35
240V	KCF3-2407-3	240	750	1.8	2.6	240V	1	70	36"	35
	KCF4-2415-3	240	1500	3.6	5.1	240V	2	140	48"	45
	KCF4-2420-3	240	2000	4.8	6.8	240V	3	210	48"	55
	KCF2-4805-3	480	500	0.6	1.7	277V	1	70	24"	35
480V	KCF3-4807-3	480	750	0.9	2.6	277V	1	70	36"	35
	KCF4-4815-3	480	1500	1.8	5.1	277V	2	140	48"	45
	KCF4-4820-3	480	2000	2.4	6.8	277V	3	210	48"	55

Step 2: Ordering Information - *Required Factory Installed Mounting Option*

ADD SUFFIX	DESCRIPTION
-R	Recessed Mount
-S	Surface Mount

Step 3: Ordering Information - *Required Factory Installed Control Option*

ADD SUFFIX	DESCRIPTION
-T	25 Amp Single Pole Thermostat w/Knob
-T2	25 Amp Double Pole Thermostat w/Knob
-TP	25 Amp Tamperproof (slotted shaft), single pole
-RT	Provision For Remote Line Voltage Thermostat: Line Voltage Terminal Block Installed
-RT24	Provision For Remote Low Voltage Thermostat: 24 Volt Contactor & Transformer Installed

Step 4: Ordering Information - *Optional Factory Installed Control Options*

ADD SUFFIX	DESCRIPTION
-CX	Power Contactor (1-Phase Models Only) *Comes Standard on 3-Phase Models
-3PS	3-Position Switch
-DS1	Double Pole Disconnect Switch (1-Phase)
-DS3	Three Pole Disconnect Switch (3-Phase)

Step 5: Ordering Information - *Required Color Grill Option*

ADD SUFFIX	DESCRIPTION
-PW	Pearl White Color
-WD	White Dove Color
-AD	Almondine Color
-SN	Satin Nickel Color
-OB	Oiled Bronze Color

Ordering Information - *Optional Field Installed Accessories*

MODEL	UPC	DESCRIPTION
KC-SB-24	20319	KC ACCY SUB-FLOOR BASE 24" WIDE, 2" TALL, 3" DEEP
KC-SB-36	20316	KC ACCY SUB-FLOOR BASE 36" WIDE, 2" TALL, 3" DEEP
KC-SB-48	20317	KC ACCY SUB-FLOOR BASE 48" WIDE, 2" TALL, 3" DEEP

Control Options

- A line voltage terminal block can be provided for wiring to a remote line voltage thermostat.
- A power contactor with line voltage coil can be provided to remotely switch the heater. Optional for 1-Phase Models Only-Comes Standard on 3-Phase Models
- A power contactor and 24V transformer can be provided to remotely switch the heater. Standard on 480V models.
- A 2-Pole disconnect switch can be provided for 1-Phase heaters.
- A 3-Pole disconnect can be provided for 3-Phase heaters.
- A floor sub-base can be provided for direct floor contact.
- A built-in 1-Pole thermostat can be provided for convenience
- A built-in 2-Pole thermostat can be provided for convenience.
- A tamperproof built-in thermostat can be provided without a knob, temperature adjustments are made with a screw driver.

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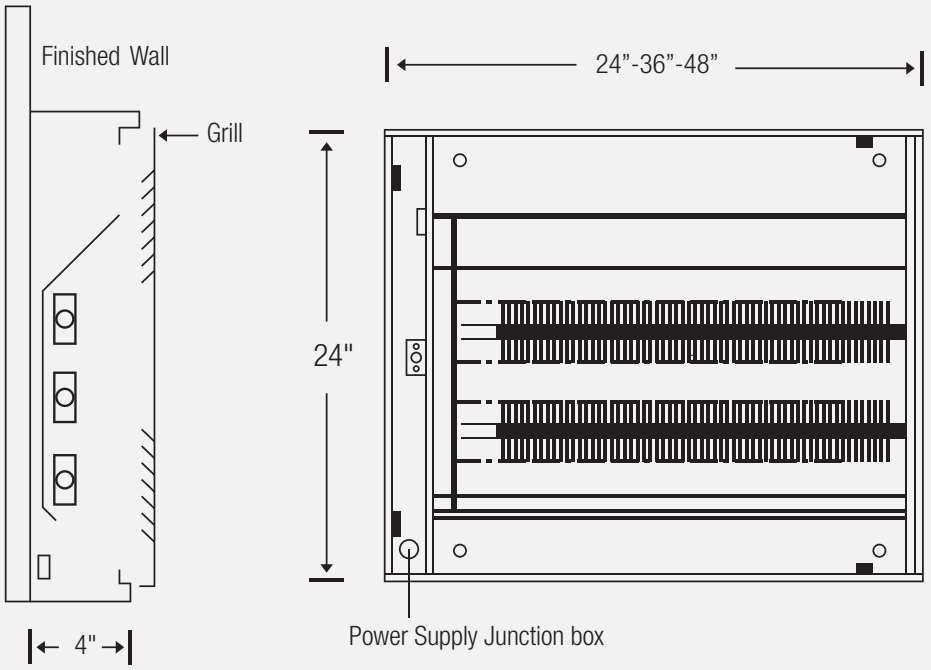
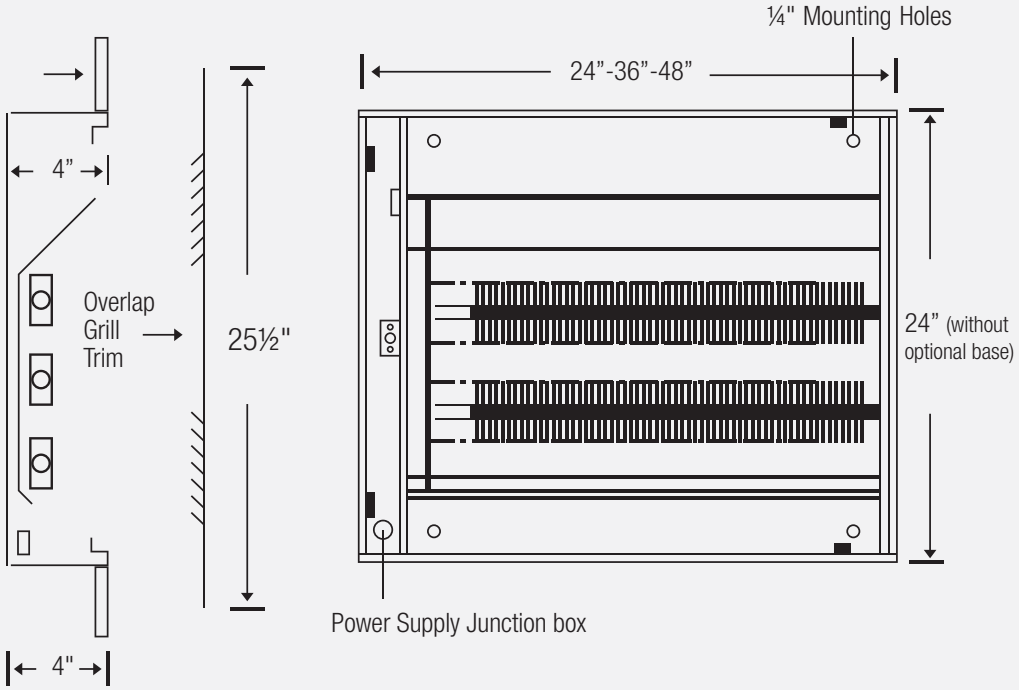
Dimensional & Mounting Data

SURFACE MOUNT MODELS



RECESSED MOUNT MODELS



MOUNTING NOTE: 1" minimum mounting height from finished floor to allow clearance for the grill overlap.

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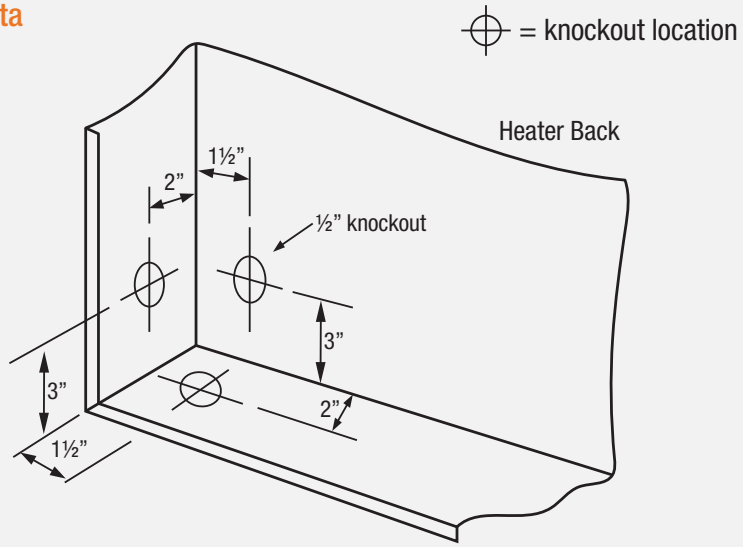


Engineering Specifications

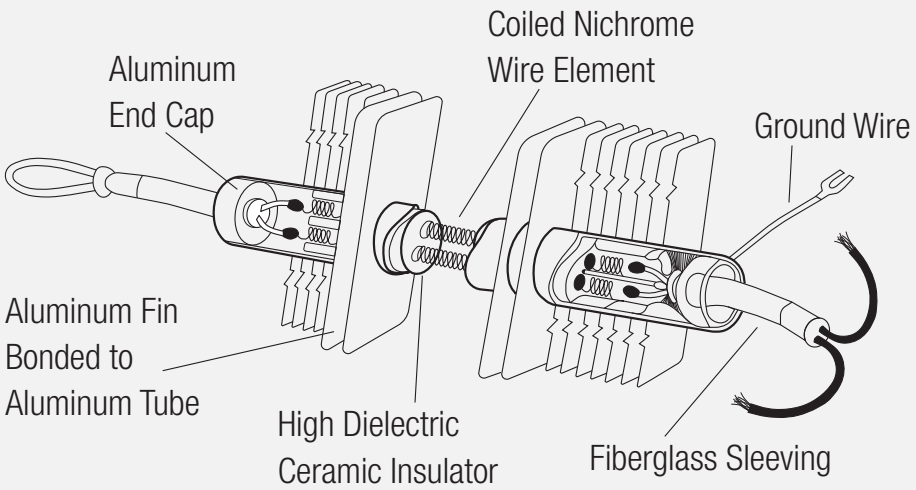
Contractor shall supply and install KCC Series cabinet heaters manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Construction: Heaters shall be constructed in 18 gauge galvanized Steel with epoxy powder-coated manufacturer's standard finish. A louvered front cover with intake and outlet grille will protect element area and provide ample air flow to dissipate heated air.

Element: The superior performance comes from the proven technology of the ceramic thermal storage heater core. A 7/8" diameter aluminum tube is filled with a special high density ceramic that stores the thermal energy. The oversized fins (4.875 in²) are made from durable (0.015" thick) high grade aluminum which produces better heat transfer than other elements. The benefit of the technology comes when the thermostat is turned off and the element continues to radiate heat. It also reduces temperature swings by heating and cooling more evenly. A fired refractory ceramic core with two large diameter Nickel Chromium coils attached with high temperature Nickel connectors and stranded Nickel wire, terminated in a junctionbox.

Controls: A built-in thermal cutout shall automatically shut off the heater in case of overheating. An optional built-in thermostat for temperature control will have a range from 40°- 95°F and be of the high accuracy capillary tube-type. Optional disconnect switches in junctionbox will be provided if necessary.

Cabinet Colors: Epoxy powder coated in pearl white, white dove, almodine, satin nickel & oiled bronze.

Approvals: cULus

High Mass Ceramic Element