

Safe Touch Cabinet Heater KCF Series



SafeTouch™

Model Code:

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

- 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

- 120°F 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
- Standard color: almond
- 5-year limited warranty



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 accidentally 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. Not for residential use unless the manual reset option is added.

Ordering Information - single phase

	MODEL	VOLTS	WATTS	1-PH AMPS	BTUH	CONTROL VOLTAGE	#of BLOWERS	CFM	LENGTH	SHIP WEIGHT lbs
208V	KCF2-2005-1	208	500	2.4	1.7	208V	1	70	24"	35
	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
240V	KCF2-2405-1	240	500	2.1	1.7	240V	1	70	24"	35
	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
277V	KCF2-2705-1	277	500	1.8	1.7	277V	1	70	24"	35
	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
480V	KCF2-4805-1	480	500	1.0	1.7	277V	1	70	24"	35
	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

Ordering Information - three phase

	MODEL	VOLTS	WATTS	3-PH AMPS	BTUH	CONTROL VOLTAGE	#of BLOWERS	CFM	LENGTH	SHIP WEIGHT lbs
208V	KCF2-2005-3	208	500	1.4	1.7	208V	1	70	24"	35
	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
240V	KCF2-2405-3	240	500	1.2	1.7	240V	1	70	24"	35
	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
480V	KCF2-4805-3	480	500	0.6	1.7	277V	1	70	24"	35
	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

*Note: 3-Phase models come standard with power contactor.

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Factory Installed Options

ADD SUFFIX	DESCRIPTION
-R	Recessed Mount
-S	Surface Mount

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

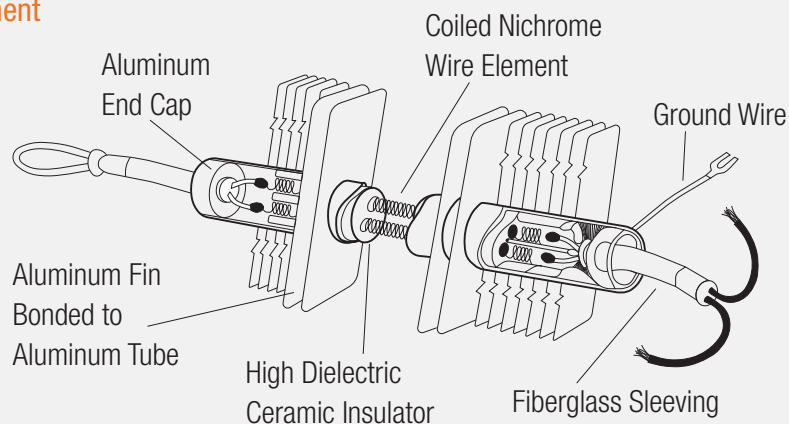
Factory Installed Control Options

ADD SUFFIX	DESCRIPTION
-RT	Line Voltage Terminal Block
-CX	Power Contactor (1-Phase Models Only) *Comes Standard on 3-Phase Models
-RT24	24 Volt Contactor & Transformer
-3PS	3-Position Switch
-DS1	Double Pole Disconnect Switch (1-Phase)
-DS3	Three Pole Disconnect Switch (3-Phase)
-T	25 Amp Single Pole Thermostat w/Knob
-T2	25 Amp Double Pole Thermostat w/Knob
-TP	25 Amp Tamperproof (slotted shaft), single pole

Control Options

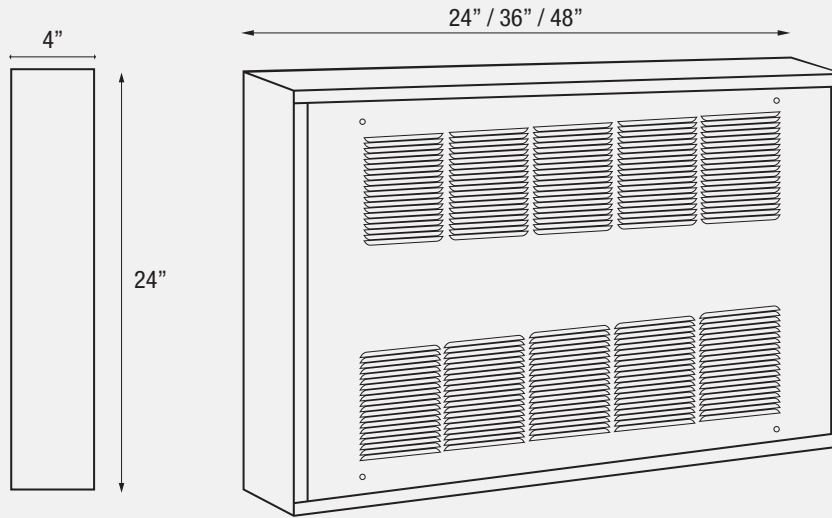
- A line voltage terminal block can be provided for wiring to a remote line voltage thermostat.
- A power contactor with line voltage coil can be provided to remotely switch the heater.
Note: Optional for 1-Phase models only- comes standard on 3-Phase models.
- A power contactor and 24V transformer can be provided to remotely switch the heater.
- A 3-position switch can be provided for manual HEAT/FAN/OFF control.
- 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.

High Mass Ceramic Element

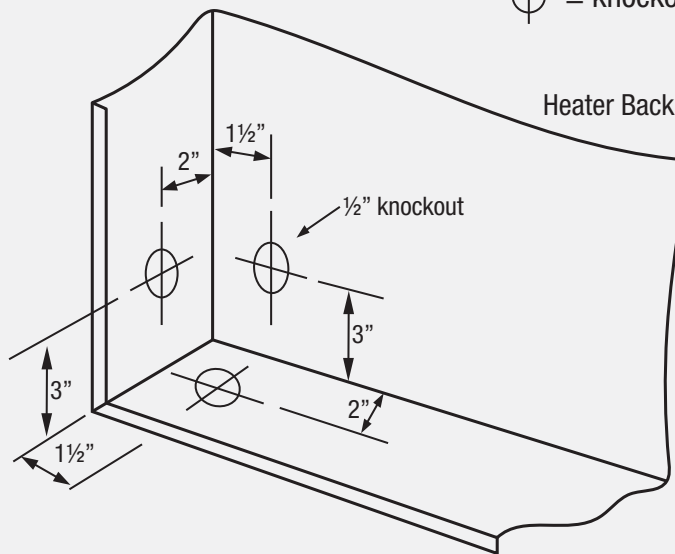


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Dimensional Data



= knockout location



Engineering Specifications

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

Surface Temperature: Not to exceed 120°F based on 76°F ambient.

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 stainless connectors and stranded Nickel wire, terminated in a junctionbox.

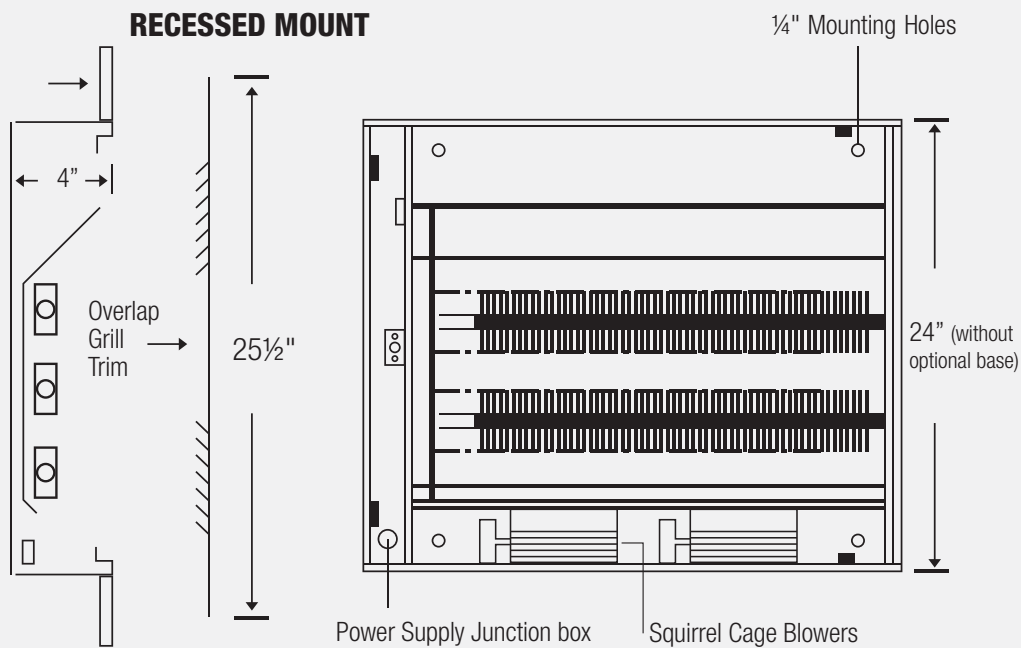
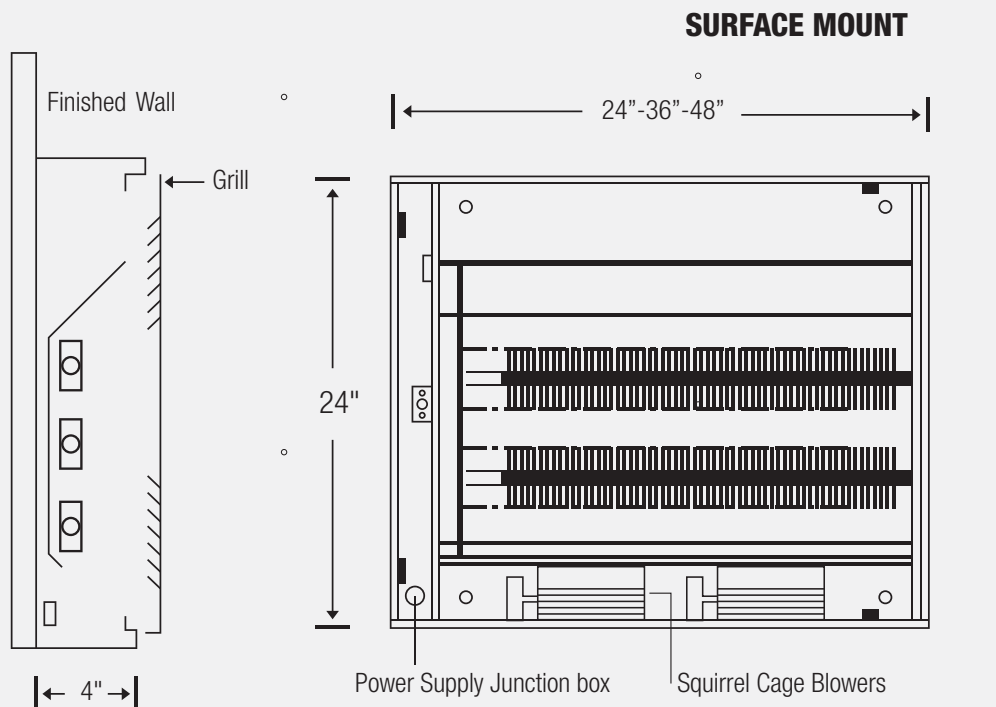
Controls: A built-in thermal cutout shall automatically shut off the heater in case of overheating. A built-in thermostat for temperature control will have a range from 40°- 95°F and be of the high accuracy capillary tube-type. Disconnect switch and contactors will be provided if necessary.

Blower and Motor: Up to 3 tangential cylindrical blowers, delivering 70 CFM each, shall be driven by a shaded pole, permanently lubricated, C-frame type motor with impedance protection and sealed bearings. Motors shall be the same voltage as the heater. All 480V units use 277V motors and contactors. This requires a neutral connection.

Approvals: cULus

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Mounting Data



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