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: SP Stat
H: Double Pole Disconnect Switch

- 125ºF max surface temperature
- Fan-Forced heat
- Ceramic element
- Aluminum fin element
- 18 gauge cabinet
- Squirrel cage blower
- Capillary tube limit
- 1 or 3-phase
- Powder-coated
- Standard color: almond
- 5-year limited warranty

MADE IN USA

c(UL)us 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. Not for residential use unless the manual reset option is added.

Ordering Information
*Add suffix -1for single phase, -3 for three phase   *Add suffix -R for recessed mount, -S for surface mount

	MODEL	VOLTS	WATTS	(1ph) AMPS (3ph)		BTUH	#of BLOWERS	CFM	LENGTH	SHIP WEIGHT lbs
208V	KCF2-2005	208	500	2.4	1.4	1.7	1	70	24"	35
	KCF3-2007	208	750	3.6	2.1	2.6	1	70	36"	35
	KCF4-2015	208	1500	7.2	4.2	5.1	2	140	48"	45
	KCF4-2020	208	2000	9.6	5.6	6.8	3	210	48"	55
240V	KCF2-2405	240	500	2.1	1.2	1.7	1	70	24"	35
	KCF3-2407	240	750	3.1	1.8	2.6	1	70	36"	35
	KCF4-2415	240	1500	6.3	3.6	5.1	2	140	48"	45
	KCF4-2420	240	2000	8.3	4.8	6.8	3	210	48"	55
277V	KCF2-2705	277	500	1.8	n/a	1.7	1	70	24"	35
	KCF3-2707	277	750	2.7	n/a	2.6	1	70	36"	35
	KCF4-2715	277	1500	5.4	n/a	5.1	2	140	48"	45
	KCF4-2720	277	2000	7.2	n/a	6.8	3	210	48"	55
480V	KCF2-4805	480	500	1.0	0.6	1.7	1	70	24"	35
	KCF3-4807	480	750	1.6	0.9	2.6	1	70	36"	35
	KCF4-4815	480	1500	3.1	1.8	5.1	2	140	48"	45
	KCF4-4820	480	2000	4.2	2.4	6.8	3	210	48"	55

*Refer to KCF for dimensions, control options, mounting data.

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.

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