

ELECTRIC UNIT HEATERS

ELECTRIC FAN-FORCED UNIT HEATERS ENGINEERED FOR HORIZONTAL OR VERTICAL DISCHARGE

3.3 to 50kw heater sizes generating up to 170,600 btus



5100-SERIES

FEATURES

- ETL C/US indoor commercial & industrial heating applications
- 18 -gauge steel cabinet design with powder coated beige and brown finish
- Control compartment containing a master terminal board with hinged and latched access door
- Spiral fin steel element with continuously brazed steel fins
- Units equipped with automatic reset type limits to de-energize the heater should an over-temperature situation occur
- Totally enclosed, 1-speed, unit bearing, thermal protected fan motor; 3-20kW models. 2-speed sleeve bearing on all 25-50kW
- Fan over-ride purges residual heat during shutdown cycles to reduce heat build-up inside the heater housing
- Louvers are individually adjustable for directional control of airflow up to 15° from straight horizontal
- Optional low and line voltage thermostats available with an adjustable temperature range of 40-100 F. Units with model numbers ending in CA1 are factory wired with @ 24-volt control circuit system, for operating remote low voltage wall mounted thermostats
- Heaters are designed to mount directly to a wall/ceiling or vertical surface using the optional mounting brackets

BENEFITS

- Control compartment is hinged to simplifying wiring, installation, & maintenance
- Heater housing has slotted openings and formed steel ends to allow side airflow draw through the element assembly
- ETL listed for both U.S. and Canadian standards
- Wall / ceiling bracket allows the customer to install heaters in a horizontal position using either a wall or ceiling surface
- Vertical Bracket allows the consumer the ability to mount heaters in this position thus having a vertical down flow heat discharge for specific application needs

APPLICATION SOLUTIONS

- These electric unit heaters are designed for commercial and industrial applications are ideal for high bay warehouse facilities, industrial and maintenance locations, pole barn buildings, government facilities, and many more.
- Designed for spot, supplement, and primary comfort heating systems
- Engineered for directional air flow discharge allowing the consumer to adjust the steel louvers on the front of the heater housing
- Units are constructed for a variety of applications and designed to operate at single or three phase electrical service

kW Heater Size	Dimensions (in.)		
	L	W	H
3.3 to 5.0	6.5	14.5	17.8
7.5 to 10.0	6.5	21.5	24.3
15.0	6.5	21.5	28.7
25.0 to 50.0	10	29.3	34

Indoor Spot Heating



208, 240, 277 & 480 Volt Application

MOUNTING BRACKETS

GRAINGER MODEL #	MFG MODEL #	DESCRIPTION	FOR USE WITH	Fits kW	WT. (lbs.)
52TW94	A5105	Wall/Ceiling Mounting Bracket	49ZZ89, 49ZZ90, 49ZZ91, 49ZZ92, 49ZZ93, & 49ZZ94	3.3-5kW	9
52AT82	A5120		49ZZ95, 49ZZ96, 49ZZ97, 49ZZ98, 49ZZ99, 52AT70, 52AT71, 52AT72, 52AT73, & 52AT74	7.5-20kW	13
52AT83	A5150		52AT75, 52AT76, 52AT77, 52AT78, 52AT79, 52AT80, & 52AT81	25-50kW	16
52AT84	V5105	Vertical Mounting Bracket	49ZZ89, 49ZZ90, 49ZZ91, 49ZZ92, 49ZZ93, & 49ZZ94	3.3-5kW	9
52AT85	V5120		49ZZ95, 49ZZ96, 49ZZ97, 49ZZ98, 49ZZ99, 52AT70, 52AT71, 52AT72, 52AT73, & 52AT74	7.5-20kW	13
52AT86	V5150		52AT75, 52AT76, 52AT77, 52AT78, 52AT79, 52AT80, & 52AT81	25-50kW	16



Wall/Ceiling Mounting Bracket



Vertical Mounting Bracket



ELECTRIC UNIT HEATERS



GRAINGER MODEL #	MFG MODEL #	WATTS	BTUs	VOLTS	AMPS	PH	CONTROL VOLTAGE	TEMP RISE	CFM	AIR THROW	Recommended Mounting Ht.		WT. (lbs.)
											H	V	
49ZZ89	F2F5103N	3,300	11,200	208	15.9 / 9.2	1/3	208	26°	400	12'	15'	9'	25
49ZZ90	HF2B5103N	3,300 / 2,500	11,200 / 8,500	240/208	13.7 / 6.9	1/3	240/208	26°	400	12'	15'	9'	25
49ZZ91	F2F5105N	5,000	17,100	208	24.1 / 13.9	1/3	208	40°	400	12'	15'	9'	25
49ZZ92	G1G5105N	5,000	17,100	277	18.1	1	277	40°	400	12'	15'	9'	25
49ZZ93	HF2B5105N	5,000 / 3,700	17,100 / 12,800	240/208	20.8 / 10.4	1/3	240/208	40°	400	12'	15'	9'	27
49ZZ94	P3P5105CAIN	5,000	17,100	480	6.1	3	24	40°	400	12'	15'	9'	27
49ZZ95	F2F5107CA1L	7,500	25,600	208	36.1 / 20.8	1/3	24	34°	700	22'	18'	12'	54
49ZZ96	HF2B5107CA1L	7,500 / 5,600	25,600 / 19,200	240/208	31.3 / 27.1	1/3	24	34°	700	22'	18'	12'	54
49ZZ97	G1G5107CA1L	7,500	25,600	277	27.1	1	24	34°	700	22'	18'	12'	54
49ZZ98	P3P5107CA1N	7,500	25,600	480	9.1	3	24	34°	700	22'	18'	12'	54
49ZZ99	F2F5110CA1L	9,900	33,800	208	47.8 / 27.4	1/3	24	45°	700	22'	18'	14'	55
52AT70	HF2B5110CA1L	10,000 / 7,500	34,100 / 25,600	240/208	41.2 / 20.8	1/3	24	45°	700	22'	18'	14'	55
52AT71	G1G5110CA1L	10,000	34,100	277	36.1	1	24	45°	700	22'	18'	14'	55
52AT72	P3P5110CA1N	10,000	34,100	480	12.1	3	24	45°	700	22'	18'	14'	55
52AT73	HF3B5115CA1L	15,000 / 11,200	51,200 / 38,400	240/208	36.1 / 31.3	3	24	43°	1100	32'	18'	20'	64
52AT74	P3P5115CA1N	15,000	51,200	480	18.1	3	24	43°	1100	32'	18'	20'	64
52AT75	HF3B5125CA1L	25,000 / 18,700	85,300 / 64,000	240/208	60.2 / 52.1	3	24	40-44°	2000	45'	18'	22'	120
52AT76	P3P5125CA1N	25,000	85,300	480	30.1	3	24	40-44°	2000	45'	18'	22'	120
52AT77	HF3B5130CA1L	30,000 / 22,500	102,400 / 76,800	240/208	72.3 / 62.5	3	24	47-53°	2000	40'	18'	22'	120
52AT78	P3P5130CA1N	30,000	102,400	480	36.2	3	24	47-53°	2000	40'	18'	22'	120
52AT79	P3P5140CA1N	39,000	133,100	480	47	3	24	40-45°	3100	55'	21'	24'	120
52AT80	HF3B5150CA1L	50,000 / 37,500	170,600 / 128,000	240/208	120.5 / 104.3	3	24	51-56°	3100	50'	24'	24'	120
52AT81	P3P5150CA1N	50,000	170,600	480	60.3	3	24	51-56°	3100	50'	24'	24'	120

CONTROLS

GRAINGER MODEL #	MFG MODEL #	DESC.	FOR USE WITH	MAX. AMPS	PHASE	TEMP. RANGE	SWITCH TYPE	Fits kW	WT. (lbs.)
52AT87	DCS202/5100	Disconnect Switch (Unit Mount)	49ZZ90 & 49ZZ92 (single phase only)	20	1	--	Manual	3.3-5kW	2
52AT88	DCS403/5100		49ZZ89 to 49ZZ99, 52AT70 to 52AT74, 52AT76, & 52AT78	40	1 or 3	--		3-30kW	2
52AT89	DCS603/5100		52AT79	60	1 or 3	--		39kW	3
52AT90	DCS1003/5100		52AT75, 52AT77, & 52AT81	100	3	--		25, 30, & 50kW	3
52AT91	T5100	Thermostat (Unit Mount) with remote capillary temperature sensor	49ZZ89 to 49ZZ99, 52AT70, to 52AT81	25	1 or 3	40-100°F	SPST	3.3-50kW	1
52AT92	T5102		49ZZ89, 49ZZ90, 49ZZ91, & 49ZZ93		1 or 3	60-120°F	DPST	3-5kW	
52AT93	T5122		52AT75, 52AT76, 52AT77, 52AT78, 52AT79, 52AT80, & 52AT81		3	45-90°F	DPST	25-50kW	

