# Standard Taskmaster Models & Series Notes

UPC#	MODEL	KW	BTU/H	VOLTS	PH	AMPS	CONTROL	TEMP	AIR	CFM	RECOMMENDED MOUNTING HT.		HT WI.	
686334	MODEL	1011	BIO / II	VOLID	1	711111 5	VOLTAGE	RISE	THROW	CINI	Horizontal	Vertical	(LBS.)	LIGI
645089	F1F5103N	3.3	11.2	208	1	15.9	208				Horizontai	Vertical		
645102	HF1B5103N	3.3/2.5	11.2 / 8.5	240/208	1	13.7 / 11.9	240 / 208			12' 400				i
645683	F2F5103N	3.3	11.2	208	1/3	11.9 / 6.9	208							i
					1/3	13.7 / 11.9		26°F	12'		9'	9'	25	693
645706	HF2B5103N	3.3/2.5	11.2 / 8.5	240/208	3	7.9 / 6.9	240 / 208							i
645720	G1G5103N	3.3	11.2	277	1	11.9	277							i i
645126	P3P5103CA1N	3.3	11.2	480	3	4.0	24							883
645546	F1F5105N	5.0	17.1	208	1	24.1	208			1				
645560	HF1B5105N	5.0/3.7	17.1 / 12.8	240/208	1	20.9 / 18.1	240 / 208					9'	25	l l
645140	F2F5105N	5.0	17.1	208	1/3	24.1	208							l 1
043140	F2F3103N	5.0	17.1	208	3	13.9	208	40°F	12,	400	9'			724
(451(4	HF2B5105N	5.0	17.1	240	1/3	20.8 / 18.1	240	40°F	12'	400	9		27	1 I
645164	HF2B3103N	3.7	12.8	208	1/3	12.1 / 10.4	208							l 1
645843	G1G5105N	5.0	17.1	277	1	18.1	277							
645188	P3P5105CA1N	5.0	17.1	480	3	6.1	24							958
645201	F2F5107CA1L	7.5	25.6	208	1/3	36.1 / 20.8								
645225	HF2B5107CA1L	7.5	25.6	240	1/3	27.1 / 31.3								1116
043223	HF2B510/CA1L	5.6	19.2	208	1/3	31.3 / 27.1	1	34°F	22'	700	10'	12'	54	1116
645928	G1G5107CA1L	7.5	25.6	277	1	27.1	1							
645249	P3P5107CA1N	7.5	25.6	480	3	9.1	1							1204
645263	F2F5110CA1L	9.9	33.8	208	1/3	47.8 / 27.4						14'	55	
(45207	HEAD STILL CALL	10.0	34.1	240	1/3	41.2 / 24.0				700	10'			1220
645287	HF2B5110CA1L	7.5	25.6	208	1/3	36.1 / 20.8		45°F	22'					1230
645645	G1G5110CA1N	10.0	34.1	277	1	36.1								
645300	P3P5110CA1N	10.0	34.1	480	3	12.1								1275
645324	F3F5115CA1L	15.0	51.2	208	3	41.7								1000
645348	HF3B5115CA1L	15.0/11.2	51.2 / 38.4	240/208	3	36.1 / 31.3		43°F	32'	32' 1100	1100 11'	20'	64	1980
645362	P3P5115CA1N	15.0	51.2	480	3	18.1								2060
645386	HF3B5120CA1L	19.7/14.8	67.2 / 50.5	240/208	3	47.8 / 41.1	24	57°F	32'	1100	12'	18'	65	2719
645409	P3P5120CA1N	20.0	68.3	480	3	24.1	]	3/*F	32	1100	12	18	05	[ 2/19 ]
645881	F3F5125CA1L	25.0	85.3	208	3	69.5	]							
645942	HF3B5125CA1L	25.0/18.7	85.3 / 64.0	240/208	3	60.2 / 52.1		40/44°F	45'	2000/1800	2000/1800 12'	22'	120	3204
645980	P3P5125CA1N	25.0	85.3	480	3	30.1								
645423	F3F5130CA1L	30.0	102.4	208	3	83.4	]							
645447	HF3B5130CA1L	30.0/22.5	102.4 / 76.8	240/208	3	72.3 / 62.5	]	47/53°F	40'	2000/1800	12'	20'	120	3709
645461	P3P5130CA1N	30.0	102.4	480	3	36.2	]							
644044	F3F5140CA1L	40.0	136.5	208	3	111.2								
644068	HF3B5140CA1L	40.0/30.0	136.5/102.4	240/208	3	96.4 / 83.4		40/45°F	55'	3100/2800	15'	24'	120	4742
644082	P3P5140CA1N	39.0	133.1	480	3	47.0								
645485	F3F5150CA1L	49.6	169.3	208	3	139.0								
645508	HF3B5150CA1L	50.0/37.5	170.6/128.0	240/208	3	120.5/104.3		51/56°F	50'	3100/2800	15'	22'	120	5920
645522	P3P5150CA1N	50.0	170.6	480	3	60.3								

# International Models

UPC# 686334	MODEL	KW	BTU/H	VOLTS	PH	AMPS	CONTROL VOLTAGE	TEMP RISE	AIR THROW	CFM	RECOMN MOUNTI Horizontal	NG HT.	WT. (LBS.)	LIST					
715300	Q3H5103CA1	3.3	11263	11060	11060	11000	44000	44000	380		5.02		26					25	693
724920	R3H5103CA1	3.3		415		4.6			12'	400	9,	9,	∠5	883					
724937	Q3H5105CA1	5.0	17065	380		7.6		40	12	400			27	724					
424944	R3H5105CA1	5.0	17003	415		6.96		40						958					
717137	Q3H5107CA1	7.5	25600	380		11.4		34		700	10'	10' 12'	54	1116					
724951	R3H5107CA1	7.5	23000	415		10.5		J <del>4</del>	22'		10		34	1204					
686570	Q3H5110CA1	10.0	34130	380		15.2		45	22		10'	14'	55	1230					
724968	R3H5110CA1	10.0	34130	415		13.9	]	40			10			1275					
724975	Q3H5115CA1	15.0	51195	380	3	22.8	24	43			11'	20'	64	1980					
724982	R3H5115CA1	15.0	13.0 31195	415	٦	20.9	] 24	43	32'	1100	'''	20	04	2066					
704175	Q3H5120CA1	20.0	68260	380		30.4		57	32	1100	12'	18'	65	2719					
724999	R3H5120CA1	20.0	00200	415		27.85		37				12	10	03	2119				
719193	Q3H5125CA1	25.0	85325	380		38.0	]	40/44	45'		12'	22'		3204					
710619	R3H5125CA1	25.0   6532	03323	415	34.8		40/44	45	2000/4000	12	22		3204						
725002	Q3H5130CA1	30.0	30.0 102390	30.0 103300 380 45.6	]	47/53	40'	2000/1800	12'	20'	120	3709							
710626	R3H5130CA1	30.0	102390	415		41.8		47/55	40		12	20	120	3709					
725019	Q3H5140CA1	40.0	136520	380		60.85	]	40/45	55'	3100/2800	15'	24'		4742					
709835	R3H5140CA1	40.0	130520	415		55.7	]	40/45	55	3100/2000	15	24		4142					

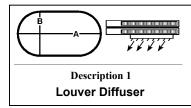
- For 24V control add "CA1" suffix and \$101 list. For 120V control add "CA2" suffix and \$101 list.
- For other voltages consult factory.

- NOTES:
  25-50KW models are wired for single or two stage heating and have two speed motors.
  Air delivery and motor data on dual voltage units reflect higher voltage.
  600 Volt models available in 5 KW through 30 KW. Contact factory for delivery.
  Supply wire on 40 and 50 KW models should have rated insulation of 75°C minimum.
  Use T5122 for two stage control.
  Use TW123 for two stage control.
  Use TFS5102 for two stage control.
  Wall thermostat must be used when built-in stratification thermostat is required.

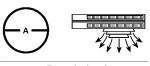
Note: Please see page 60 for custom color availability - add 10% to net heater cost.

# Diffuser Options

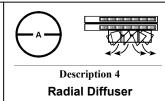
DESCRIPTION			UPC# 686334	MODEL NUMBER	KW USED	MAX MOUNTING HEIGHT (ft.)		DIMENSION A (feet)		DIMENSION B (feet)	WT. (lbs.)	LIST
	1	Louver Diffuser (Standard). Louvers can be individually adjusted for rectangular coverage over doorways as an air curtain, or to meet rectangular floor pattern heating requirements.	NA	Standard	3.3-5 7.5-10 25-30 40-50	9 12 18 22 24		20 40 52 75 84		10 22 30 42 47	NA	NA
	2	General Distribution (No Diffuser). The 5100 air chute venturi permits general down flow air pattern distribution as required at a higher mounting height.	NA	Not Required	3.3-5 7.5-10 25-30 40-50	1 1 2	9 2 8 2 4	15 30 40 55 64		NA	NA	NA
	3	Anemostat Diffuser (Optional). For applications where draft restriction is required at lower unit mounting heights.	692687 681186 681186 722070	AD5120 AD5150 AD5150 AD5175	7.5-10 25-30 40-50 60-70	15 17 20 31		38 50 60 -		NA	10 12 37	372 555 598
		Radial Diffuser (Optional). Individually	692663	RD5120	7.5-20	45°	90°	45°	90°		12	412
	4	adjustable fins permit increased floor coverage at 45° open. Additional throw is accomplished when fins are 90° vertical.	692663 692670 692670	RD5120 RD5150 RD5150	25-50	14 20	21 30	42 62	35 44	NA	14	481
		(Please allow for higher mounting heights.)	722087	RD5130 RD5175	60-70	18 26	28 36	68 72	54 60		39	519



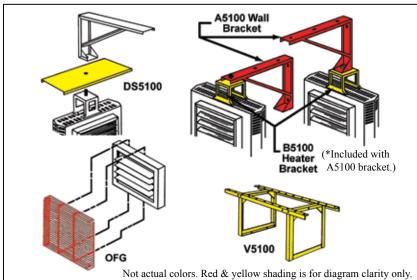




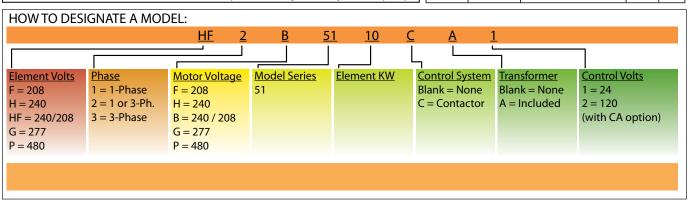




# Mounting Brackets & Model Designator



MOUNTING BRACKETS									
UPC# 686334	MODEL	MODEL SIZE	WT.	LIST					
692694	A5105	3.3 KW TO 5.0 KW	9 lbs.	96					
692700	A5120	7.5 KW TO 20.0 KW	13 lbs.	117					
692717	A5150	25.0 KW TO 50.0 KW	16 lbs.	131					
688628	B5105*	3.3 KW TO 20.0 KW	3 lbs.	52					
688635	B5150*	25.0 KW TO 50.0 KW	8 lbs.	77					
692847	V5105	3.3 KW TO 5.0 KW	9 lbs.	183					
692854	V5120	7.5 KW TO 20.0 KW	13 lbs.	224					
692861	V5150	25.0 KW TO 50.0 KW	16 lbs.	236					
		DUST SHIELD							
692878	DS5105	3.3 KW TO 5.0 KW	3 lbs.	33					
692885	DS5120	7.5 KW TO 20.0 KW	4 lbs.	38					
681223	DS5150	25.0 KW TO 50.0 KW	5 lbs.	40					
FAN GUARD									
706544	OFG5101	3.3 KW TO 5.0 KW	3 lbs.	53					
706551	OFG5102	7.5 KW TO 20.0 KW	4 lbs.	58					
706568	OFG5103	25.0 KW TO 50.0 KW	5 lbs.	66					



# 3.3 KW THROUGH 50 KW SUSPENDED FAN FORCED UNIT HEATERS AVAILABLE IN 1 OR 3 PHASE FOR ALL STANDARD VOLTAGES FROM 208V TO 480V THAT CAN BE MOUNTED TO PROVIDE HORIZONTAL OR VERTICAL DISCHARGE.



Horizontal Discharge



Vertical Discharge Manufactured in U.S.A.

# FIELD INSTALLED OPTIONS:

- · In-unit or wall mounted temperature control thermostats low or line voltage.
- Summer fan switch to operate the fan only.
- Power disconnect switch.
- Heat stratification thermostat.

#### **CONSTRUCTION:**

Heavy 18 Gauge welded steel cabinet with powder coated finish and control compartment housing a master terminal board with a hinged and latched access door, simplifying wiring, installation & maintenance.

#### **HEATING ELEMENT:**

Copper clad steel sheath element with continuously brazed steel fins formed to allow side draw through air flow

## **OVERHEAT PROTECTION:**

All units come equipped with automatic reset type limit controls to de-energize the heater should an over-temperature situation occur.



KW	DIMENSIONS (inches)							
RATING	н	w	D					
3.3 - 5.0	17 3/4	14 15/32	6 1/2					
7.5 - 10.0	24 5/16	21 1/2	6 1/2					
15.0 - 20.0	28 11/16	21 1/2	6 1/2					
25.0 - 50.0	34	29 1/4	10 1/16					

Taskmaster Dimensions

#### **FAN and MOTOR:**

Totally enclosed, 1-speed, 1-phase, permanently lubricated, thermally protected motors with unit bearings on 3 KW - 20 KW models. Totally enclosed, 2-speed, 1-phase, permanently lubricated, thermally protected motors with sleeve bearings on 25 KW - 50 KW models. All motors mounted with rubber insulators to minimize vibration & noise. Fan over-ride purges unit of residual heat at

#### LOUVER ASSEMBLY:

Louvers are individually adjustable for directional control of air flow up to 15° from straight horizontal. Optional diffusers available for down flow (vertical discharge) applications.

### **TEMPERATURE CONTROLS:**

Optional low voltage and line voltage thermostats available with an adjustable temperature range of 40°F to 90°F. Units with model numbers ending in CA1 are factory wired for low voltage controls. 25 KW through 50 KW units are designed for two stage heating operation.

### **INSTALLATION:**

Unit Heaters can be mounted for horizontal or vertical discharge. Applications up to 6000 Ft. See UH Series above 6000 Ft. ABS (American Bureau of Shipping) type approved.

# Installing the Taskmaster Series

## DETERMINING HEATER REQUIREMENTS

Calculate the heating loads using the NEMA handbook or ASHRAE guide. Then determine the quantity and size of unit heaters to be used. To maintain uniform heat and reduce stratified air, it is recommended that the total CFM of the units turn the air over approximately 3 times per hour. In instances where a large group of people are located and normally in the same area, use a large number of lower KW unit heaters. In warehouse areas or storage rooms where heat distribution and constant temperatures are less important, use fewer heaters of higher capacity.



Figure A

## HORIZONTAL MOUNT

Small rooms can be heated by one unit heater. Where two walls are exposed, heaters should be mounted as shown in Figure A. In larger rooms, units should he located so their air streams wipe exposed walls without blowing at them. Units should be located so that the air stream of one supports that of another thus setting up a circulatory air movement shown in Figure B. (Distance between units to be approximately 1-1/2 times published air throw.) Units should not be mounted horizontally in areas having ceiling heights in excess of 15-18 ft.



Figure B

## VERTICAL MOUNT

Units should be mounted vertically in high bay areas, or where heater location would not interfere with plant operation or traffic, Heaters should be situated to provide free air circulation. Size and selection of units should be based on recommended mounting height. Optional diffusers may best be employed to reduce high air velocity and at the same time disperse heated air in a uniform pattern. When unit heaters are used to combat cold air inrush from opened loading dock doors, one or more units should be arranged to blow warm air across opening (Figure C).



## **DUAL MOUNTING**

Where square footage is large and comfort essential, both horizontal and vertical installations may best serve your requirements as Figure D demonstrates.

