Standard Taskmaster Models & Series Notes

MFG CATALOG NUMBER	MFG MODEL NUMBER	KW	BTUs / H	VOLTS	PH	AMPS	CONTROL VOLTAGE	TEMP RISE	AIR THROW	CFM	RECOMMENDED MOUNTING HT.		WT. (LBS)
											Horizontal	Vertical	
06450802	F1F5103N	3.3	11.2	208	1	15.9 / 9.17	208	26ºF	12’	400	9’	9’	25
06451002	HF1B5103N	3.3/2.5	11.2 / 8.5	240/208	1	13.7 / 11.9	240 / 208						
06456802	F2F5103N	3.3	11.2	208	1 / 3	15.9 / 9.17	208						
06457002	HF2B5103N	3.3/2.5	11.2 / 8.5	240/208	1 / 3	13.7 / 11.9	240 / 208						
					3	7.9 / 6.9							
06457202	G1G5103N	3.3	11.2	277	1	11.9	277						
06451202	P3P5103CA1N			480	3	4.0	24						
06455402	F1F5105N	5.0	17.1	208	1	24.1	208	40ºF	12’	400	9’	9’	25
06455602	HF1B5105N	5.0/3.7	17.1 / 12.8	240/208	1	20.9 / 18.1	240 / 208						
06451402	F2F5105N	5.0	17.1	208	1 / 3	24.1	208						
					3	13.9							
06451602	HF2B5105N	5.0	17.1	240	1 / 3	20.8 / 18.1	240						27
		3.7	12.8	208	1 / 3	12.1 / 10.4	208						
06458402	G1G5105N	5.0	17.1	277	1	18.1	277						
06451802	P3P5105CA1N	5.0	17.1	480	3	6.1	24						
06452002	F2F5107CA1L	7.5	25.6	208	1 / 3	36.1 / 20.8	24	34°F	22’	700	10’	12’	54
06452202	HF2B5107CA1L	7.5	25.6	240	1 / 3	27.1 / 31.3							
		5.6	19.2	208	1 / 3	31.3 / 27.1							
06459202	G1G5107CA1L	7.5	25.6	277	1	27.1							
06452402	P3P5107CA1N	7.5	25.6	480	3	9.1							
06452602	F2F5110CA1L	9.9	33.8	208	1 / 3	47.8 / 27.4		45°F	22’	700	10’	14’	55
06452802	HF2B5110CA1L	10.0	34.1	240	1 / 3	41.2 / 24.0							
		7.5	25.6	208	1 / 3	36.1 / 20.8							
06456402	G1G5110CA1N	10.0	34.1	277	1	36.1							
06453002	P3P5110CA1N	10.0	34.1	480	3	12.1							
06453202	F3F5115CA1L	15.0	51.2	208	3	41.7		43°F	32’	1100	11’	20’	64
06453402	HF3B5115CA1L	15.0/11.2	51.2 / 38.4	240/208	3	36.1 / 31.3							
06453602	P3P5115CA1N	15.0	51.2	480	3	18.1							
06453802	HF3B5120CA1L	19.7/14.8	67.2 / 50.5	240/208	3	47.8 / 41.1		57°F	32’	1100	12’	18’	65
06454002	P3P5120CA1N	20.0	68.3	480	3	24.1							
06458802	F3F5125CA1L	25.0	85.3	208	3	69.5		40/44°F	45’	2000/1800	12’	22’	120
06459402	HF3B5125CA1L	25.0/18.7	85.3 / 64.0	240/208	3	60.2 / 52.1							
06459802	P3P5125CA1N	25.0	85.3	480	3	30.1							
06454202	F3F5130CA1L	30.0	102.4	208	3	83.4		47/53°F	40’	2000/1800	12’	20’	120
06454402	HF3B5130CA1L	30.0/22.5	102.4 / 76.8	240/208	3	72.3 / 62.5							
06454602	P3P5130CA1N	30.0	102.4	480	3	36.2							
06440402	F3F5140CA1L	40.0	136.5	208	3	111.2		40/45°F	55’	3100/2800	15’	24’	120
06440602	HF3B5140CA1L	40.0/30.0	136.5/102.4	240/208	3	96.4 / 83.4							
06440802	P3P5140CA1N	39.0	133.1	480	3	47.0							
06454802	F3F5150CA1L	49.6	169.3	208	3	139.0		51/56°F	50’	3100/2800	15’	22’	120
06455002	HF3B5150CA1L	50.0/37.5	170.6/128.0	240/208	3	120.5/104.3							
06455202	P3P5150CA1N	50.0	170.6	480	3	60.3							

International Models

MFG CATALOG NUMBER	MFG MODEL NUMBER	KW	BTUs / H	VOLTS	PH	AMPS	CONTROL VOLTAGE	TEMP RISE	AIR THROW	CFM	RECOMMENDED MOUNTING HT.		WT. (LBS)
											Horizontal	Vertical	
07153002	Q3H5103CA1	3.3	11263	380	3	5.02	24	26	12’	400	9’	9’	25
07249202	R3H5103CA1			415		4.6							
07249302	Q3H5105CA1	5.0	17065	380		7.6		40					27
04249402	R3H5105CA1			415		6.96							
07171302	Q3H5107CA1	7.5	25600	380		11.4		34	22’	700	10’	12’	54
07249502	R3H5107CA1			415		10.5							
06865702	Q3H5110CA1	10.0	34130	380		15.2		45			10’	14’	55
07249602	R3H5110CA1			415		13.9							
07249702	Q3H5115CA1	15.0	51195	380		22.8		43	32’	1100	11’	20’	64
07249802	R3H5115CA1			415		20.9							
07041702	Q3H5120CA1	20.0	68260	380		30.4		57			12’	18’	65
07249902	R3H5120CA1			415		27.85							
07191902	Q3H5125CA1	25.0	85325	380		38.0		40/44	45’	2000/1800	12’	22’	120
07106102	R3H5125CA1			415		34.8							
07250002	Q3H5130CA1	30.0	102390	380		45.6		47/53	40’		12’	20’	
07106202	R3H5130CA1			415		41.8							
07250102	Q3H5140CA1	40.0	136520	380		60.85		40/45	55’	3100/2800	15’	24’	
07098302	R3H5140CA1			415		55.7							

‡)RU 9 FRQWURO DGG ³&$´ VXI¿[‡)RU 9 FRQWURO DGG ³&$´ VXI¿[

NOTES:

- 25-50KW models are wired for single or two stage heating and have two speed motors.

‡$LU GHOLYHU\ DQG PRWRU GDWD RQ GXDO YROWDJH XQLWV UHÀHFW KLJKHU YROW

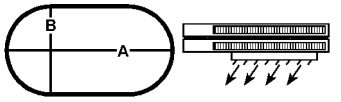
- 600 Volt models available in 5 KW through 30 KW. Contact factory for delivery.
- Supply wire on 40 and 50 KW models should have rated insulation of 75ºC minimum.
- Use T5122 for two stage control.
- Use TW123 for two stage control.
- Use TFS5102 for two stage control.

‡:DOO WKHUPRVWDW PXVW EH XVHG ZKHQ EXLOW LQ VWUDWL¿FDWLRQ WKHUPRVWD

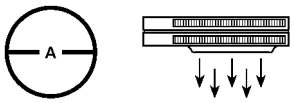
5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

Diffuser Options

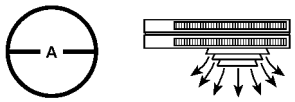
	DESCRIPTION	UPC# 686334	MODEL NUMBER	KW USED	MAX MOUNTING HEIGHT (ft.)	DIMENSION A (feet)	DIMENSION B (feet)	WT. (lbs.)	LIST
1	Louver Diffuser (Standard). Louvers can be individually adjusted for rectangular coverage over doorways as an air curtain, RU WR PHHW UHFWDQJXODU ÀRRU SDWWHUQ KHDWLQJ requirements.	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 ÀRZ DLU SDWWHUQ GLVWULEXWLRQ DW D higher mounting height.	NA	Not Required	3.3-5 7.5-10 25-30 40-50	9 12 18 22 24	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
4	Radial Diffuser (Optional). Individually DGMXVWDEOH ¿QV SHUPLW coverage at 45° open. Additional throw is DFFRPSOLVKHG ZKHQ ¿QV (Please allow for higher mounting heights)	692663 692687 692670 692670 722087	RD5120 RD5120 RD5150 RD5150 RD5175	7.5-20 25-50 60-70	45° / 90° 10 / 14 14 / 21 20 / 30 18 / 28 26 / 36	45° / 90° 36 / 30 42 / 35 62 / 44 68 / 54 72 / 60	NA	12 14 39	412 481 519



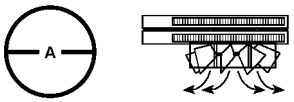
Description 1
Louver Diffuser



Description 2
No Diffuser



Description 3
Anemostat Diffuser



Description 4
Radial Diffuser

Mounting Brackets & Model Designator

(*Included with A5100 bracket.)

Not actual colors. Red & yellow shading is for diagram clarity only.

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

HOW TO DESIGNATE A MODEL:

HF 2 B 51 10 C A 1

Element Volts	Phase	Motor Voltage	Model Series	Element KW	Control System	Transformer	Control Volts
F = 208 H = 240 HF = 240/208 G = 277 P = 480	1 = 1-Phase 2 = 1 or 3-Ph. 3 = 3-Phase	F = 208 H = 240 B = 240 / 208 G = 277 P = 480	51		Blank = None C = Contactor	Blank = None A = Included	1 = 24 2 = 120 (with CA option)

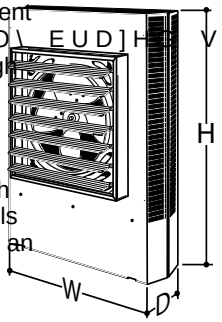
3.3 KW THROUGH 50 KW SUSPENDED FAN FORCED UNIT HEATERS AVAILABLE IN 1 OR 3 PHASE FOR ALL STANDARD VOLTAGES FROM 208V TO 480V THAT CAN BE MOUNTED TO PROVIDE HORIZONTAL OR VERTICAL DISCHARGE.

CONSTRUCTION:
+HDY\ *DXJH ZHOGHG VWHHO FDELQHW ZLWK SRZGHU FRDW finish. Each unit has a master terminal board with a hinged and latched access door, simplifying wiring, installation & maintenance.

HEATING ELEMENT:
Copper clad steel sheath element ZLWK FRQWLQXRXVO\ EUD]HG VW formed to allow side draw through DLU ÀRZ

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

Taskmaster Dimensions



KW RATING	DIMENSIONS (inches)		
	H	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

Horizontal Discharge

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 shutdown.

LOUVER ASSEMBLY:
/RXYHUV DUH LQGLYLGXDOO\ DGMXVWDEOH IRU GLUHFWLRQ KRUL]RQWDO 2SWLRQDO GLIIXVHUV DYDLODEOH IRU GRZQ À

Vertical Discharge

Manufactured in U.S.A.

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.

FIELD INSTALLED OPTIONS:
‡ ,Q XQLW RU ZDOO PRXQWHG temperature control thermostats low or line voltage.
‡ 6XPPHU IDQ VZLWFK WR RSHUDWH the fan only.
‡ 3RZHU GLVFRQQHFW VZLWFK
‡ +HDW VWUDWL¿FDWLRQ WKHUPRVWDW

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 VL]H RI XQLW KHDWHUV WR EH XVHG 7R PDLQWDLQ XQLIRUP KHDW DQG U 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.

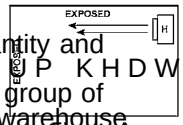


Figure A

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.

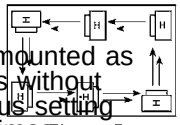


Figure B

VERTICAL MOUNT
Units should be mounted vertically in high bay areas, or where heater location would not interfere with plant RSHUDWLRQ RU WUDI¿F +HDWHUV VKRXOG EH VLWXDWHG WR SURYLGH IU 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).

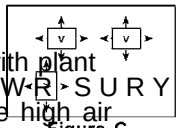


Figure C

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

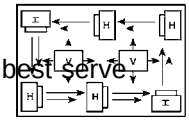


Figure D

Note: Products in this section with factory installed controls are subject to 100% cancellation/restocking charges.