5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

										· · · · · ·			
MFG	MFG	1011					CONTROL	TEMP	AIR THROW	0514	RECOMM		WT.
CATALOG	MODEL	KW	BTUs / H	VOLTS	PH	AMPS	VOLTAGE	RISE		CFM	MOUNTIN		(LBS)
NUMBER	NUMBER F1F5103N	3.3	11.2	200	1	150/017	208				Horizontal	Vertical	· ,
06450802	HF1B5103N	3.3/2.5	11.2 / 8.5	208 240/208	1	15.9/9.17							
06451002 06456802	F2F5103N	3.3/2.5	11.2 / 8.5	240/208		<u>13.7 / 11.9</u> 15.9 / 9.17	240/208					9'	
00430602	F2F3103N	3.3	11.2	200	1/3		200	26°F	12'	400	9'		25
06457002	HF2B5103N	3.3/2.5	11.2 / 8.5	240/208	1/3 3	13.7 / 11.9 7.9 / 6.9	240 / 208	201		400	9		25
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						
06455602	HF1B5105N	5.0/3.7	17.1 / 12.8	240/208	1	20.9 / 18.1	240 / 208						25
06451402	F2F5105N	5.0	17.1	208	1/3 3	24.1 13.9	208	1005	12'	100	01	01	20
00454000		5.0	17.1	240	1/3	20.8 / 18.1	240	40°F		400	9'	9'	
06451602	HF2B5105N	3.7	12.8	208	1/3	12.1 / 10.4	208						07
06458402	G1G5105N	5.0	17.1	277	1	18.1	277	1					27
06451802	P3P5105CA1N	5.0	17.1	480	3	6.1	24						
06452002	F2F5107CA1L	7.5	25.6	208	1/3	36.1 / 20.8							
00450000		7.5	25.6	240	1/3	27.1/31.3		34°F	22'	700	10'	12'	
06452202	HF2B5107CA1L	5.6	19.2	208	1/3	31.3 / 27.1							54
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							
00450000	HF2B5110CA1L	10.0	34.1	240	1/3	41.2 / 24.0			22'	700	10'	14'	
06452802	HF2B5110CATU	7.5	25.6	208	1/3	36.1 / 20.8		45°F					55
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							
06453402	HF3B5115CA1L	15.0/11.2	51.2 / 38.4	240/208	3	36.1 / 31.3		43°F	32'	1100	11'	20'	64
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	24	57°F	32'	1100	12'	10'	65
06454002	P3P5120CA1N	20.0	68.3	480	3	24.1		57 F	52	1100	12	18'	05
06458802	F3F5125CA1L	25.0	85.3	208	3	69.5							
06459402	HF3B5125CA1L	25.0/18.7	85.3 / 64.0	240/208	3	60.2 / 52.1		40/44°F	45'	2000/180) 12'	22'	120
06459802	P3P5125CA1N	25.0	85.3	480	3	30.1							
06454202	F3F5130CA1L	30.0	102.4	208	3	83.4							
06454402	HF3B5130CA1L	30.0/22.5	102.4 / 76.8	240/208	3	72.3 / 62.5		47/53°F	40'	2000/180) 12'	20'	120
06454602	P3P5130CA1N	30.0	102.4	480	3	36.2							
06440402	F3F5140CA1L	40.0	136.5	208	3	111.2							
06440602	HF3B5140CA1L	40.0/30.0	136.5/102.4	240/208	3	96.4 / 83.4		40/45°F	55'	55' 3100/2800	00 15'	24'	120
06440802	P3P5140CA1N	39.0	133.1	480	3	47.0							
06454802	F3F5150CA1L	49.6	169.3	208	3	139.0							İ
06455002	HF3B5150CA1L	50.0/37.5	170.6/128.0	240/208	3	120.5/104.3	8	51/56°F	50'	3100/280) 15'	22'	120
06455202	P3P5150CA1N	50.0	170.6	480	3	60.3							

Standard Taskmaster Models & Series Notes

International Models

MFG CATALOG NUMBER	MFG MODEL NUMBER	KW	BTUs / H	VOLTS	PH	AMPS	CONTROL VOLTAGE	TEMP RISE	AIR THROW	CFM	RECOMI MOUNT Horizontal	MENDED ING HT.	WT. (LBS)
07153002	Q3H5103CA1 R3H5103CA1	3.3	11263	380 415	415 380 415 380 415 380 415 380 415 380 415 380 415 380 415 380 415 380 415 380 415 380 415 380 415 380 415 380	5.02 4.6	24	26	10	100	C'	0	25
07249302	Q3H5105CA1 R3H5105CA1	5.0	17065			7.6 6.96		40	12'	400	9'	9'	27
07171302	Q3H5107CA1 R3H5107CA1	7.5	25600			11.4 10.5		34	001	700 - 1100 - 2000/1800	10'	12'	54
06865702 07249602	Q3H5110CA1 R3H5110CA1	10.0	34130	380		15.2 13.9		45	22'		10'	14'	55
07249702	Q3H5115CA1 R3H5115CA1	15.0	51195			22.8 20.9		43			11'	20'	64
07041702	Q3H5120CA1 R3H5120CA1	20.0	68260			30.4 27.85		57	32'		12'	18'	65
07191902	Q3H5125CA1 R3H5125CA1	25.0	85325			38.0 34.8		40/44	45'		12'	22'	120
07250002	Q3H5130CA1 R3H5130CA1	30.0	102390			45.6 41.8		47/53	40'		12'	20'	
07250102	Q3H5140CA1 R3H5140CA1	40.0	136520	-		60.85 55.7		40/45	55'	3100/2800	15'	24'	1
‡)RL		QWU	RO D		&\$ ´	5 I X V	[‡) R U	9	FRQW	/URO	DGG	³ &\$ ´

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 YROV
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 monimum.
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 WKHUPRVWE

VXI;[

5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

Diffuser Options

	DESCRIPTION	UPC# 686334	MODEL NUMBER	KW USED	-	MAX MOUNTING HEIGHT (ft.)		NSION eet)	DIMENSION B (feet)	WT. (lbs.)	LIST
1	Louver Diffuser (Standard). Louvers ca be individually adjusted for rectangular coverage over doorways as an air curta RUWRPHHWUHFWDQJX requirements.	in, NA	Standard À R R U S	3.3-5 7.5-10 D 25-30 H 40-50	1 1 UQ КЫЗ	9 2 8 2DWLQ 4	5	0 2 5	10 22 30 42 47	NA	NA
2	General Distribution (No Diffuser). The 5100 air chute venturi permits general do À R Z D L U S D W W H U Q G L V higher mounting height.		Not XR&duiReQ	3.3-5 7.5-10 D2 5-30 H 40-50	1 T X L U 2	9 2 ⁸ G DW 2 4	3 7	5	NA	NA	NA
3	Anemostat Diffuser (Optional). For applications where draft restriction is required at lower unit mounting heights	692687 681186 681186 `722070	AD5150	7.5-10 25-30 40-50 60-70	1	5 7 0		8 0 0	NA	10 12 37	372 555 598
	Radial Diffuser (Optional). Individually DGMXVWDEOH ¿QV SH			7.5-20 D V H G	45° À R 10 4 U	90° 14	45° 36	90° 30		12	412
4	coverage at 45° open. Additional throw DFFRPSOLVKHG ZKHQ	is692670 RE	RD5150	25-50 YHUWL	F D ²⁰ F D ²⁰ 18	30	42 62	35 44	NA	14	481
	(Please allow for higher mounting height	s7)22087	RD5175	60-70	18 26	28 36	68 72	54 60		39	519

		$\qquad \qquad $				
Description 1	Description 2		scription 3	Description 4		
Louver Diffuser	No Diffuser		ostat Diffuser	Radial Diffuser		

Mounting Brackets & Model Designator

		MOL	INTING 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
(*Included with	692861	V5150	25.0 KW TO 50.0 KW	16 lbs.	236
A5100 bracket.)			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
			7.5 KW TO 20.0 KW		
Not actual colors. Red & yellow shading is for diagram clarity	ohlv706568	OFG5103	25.0 KW TO 50.0 KW	5 lbs.	66
HOW TO DESIGNATE A MODEL:					
	<u>C A</u>	1			
	L –				
Element Volts Phase Motor Voltage Model Series Element KW	Control Sy	<u>stem</u> Trar	nsformer Control \	/olts	
F = 208 $1 = 1$ -Phase $F = 208$ 51	Blank = N		hk = None $1 = 24$		
H = 240 2 = 1 or 3-Ph. $H = 240$	C = Conta	ctor A =	Included 2 = 120		
HF = 240/208 3 = 3-Phase B = 240 / 208			(with CA	option)
G = 277 G = 277					
P = 480 P = 480					

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5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

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 FRD 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 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.

₩ KW KW RATING	
	es)
н и	D
H 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	1/1

2SWLRQDO GLIIXVHUV DYDLODEOH IRU GRZQ À

Taskmaster Dimensions

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.

/RXYHUV DUH LQGLYLGXDOO\ DGMXVWDEOH IRU GLUHFWLRG

١M

LOUVER ASSEMBLY:

KRUL]RQWDO

Vertical Discharge

Manufactured in U.S.A.

TEMPERATURE CONTROLS:

FIELD INSTALLED OPTIONS: Optional low voltage and line voltage thermostats available with an adjustable temperature range of 40°F. Units with model numbers ending in CA1 are factory wired for low voltage controls. t, Q XQLW RU ZDOO temperature control thermostats 25 KW through 50 KW units are designed for two stage heating operation. low or line voltage.

‡6XPPHU IĎQ VZLWFKSTALRATION

the fan only. the fan only. ‡ 3 R Z H U G L V F R Q Q H F Woplications Up to 6000 Ft. See UH Series above 6000 Ft. ‡ + H D W V W U D W L ¿ F D Wes RAme War Bukeau Br 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 total CFM of the units turn the air over approximately 3 times per hour. In instances where a large group of DQG U 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.

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 firgure B. (Distance between units to be approximately 1-1/2 times igure B published air throw.) Units should not be mounted horizontally in areas having ceiling heights in excess of 15-18 ft.

VERTICAL MOUNT

-{Ū≻ -{Ū× nalbot + 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 W-R-SURYLGH IUI 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.



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