



General Characteristics 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

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.

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

All units come equipped with automatic reset type limit controls to de-energize the heater should an over-temperature situation occur. 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. Fan over-ride purges unit of residual heat at shutdown.

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.

Optional low voltage and line voltage thermostats available with an adjustable temperature range of 40°F to 110°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. Unit Heaters can be mounted for horizontal or vertical discharge. Applications up to 6000 ft. See UH Series above 6000 ft.

Includes Disconnect switch.

Made in U.S.A.

Product Applications 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

Recommended for all industrial, commercial, and residential. For indoor and outdoor use.

Warranties 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

Manufacturer's Limited Warranty: 1 Year.



Specific Characteristics 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

Item #	Watts	BTU's	Volts	PH	Amps	Control voltaje	Temp Rise (°F)	Air Throw	CFM	Recom'd mounting ht.		Weight and Dimensions With Packaging (CM)	
										Horizontal	Vertical	Lbs	W, H, D
USSHK-001	3.3	11.2	208	1	15.9	208	26°F	12'	400	9'	9'	25	45,17,37
USSHK-002	3.3/2.5	11.2/8.5	240/208	1	13.7/12	240/208	26°F	12'	400	9'	9'	25	45,17,37



5100 Series With Disconnect switch

Data Sheet

Specific Characteristics 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

Item #	Watts	BTU's	Volts	PH	Amps	Control voltaje	Temp Rise (°F)	Air Throw	CFM	Recom'd mounting ht.		Weight and Dimensions With Packaging (CM)	
										Horizontal	Vertical	Lbs	W, H, D
USSHK-003	3.3	11.2	208	1/3	15.9/9.17	208	26°F	12'	400	9'	9'	25	45,17,37
USSHK-004	3.3	11.2	208	1/3	15.9/9.17	208	26°F	12'	400	9'	9'	25	45,17,37
USSHK-005	3.3/2.5	11.2/8.5	240/208	1/3	13.7/11.9	240/208	26°F	12'	400	9'	9'	25	45,17,37
USSHK-006	3.3/2.6	11.2/8.6	240/209	3	7.9/6.9	240/209	26°F	12'	400	9'	9'	25	45,17,37
USSHK-007	3.3	11.2	277	1	11.9	277	26°F	12'	400	9'	9'	25	45,17,37
USSHK-008	3.3	11.2	480	3	4	24	26°F	12'	400	9'	9'	25	45,17,37
USSHK-009	5	17.1	208	1	24.1	208	40°F	12'	400	9'	9'	25	45,17,37
USSHK-010	5/3.7	17.1/12.8	240/208	1	20.9/18.1	240/208	40°F	12'	400	9'	9'	25	45,17,37
USSHK-011	5	17.1	208	1/3	24.1	208	40°F	12'	400	9'	9'	25	45,17,37
USSHK-012	5	17.1	208	3	13.9	208	40°F	12'	400	9'	9'	25	45,17,37
USSHK-013	5	17.1	240	1/3	20.8/18.1	240	40°F	12'	400	9'	9'	27	45,17,37
USSHK-014	3.7	12.8	208	1/3	17.1/10.4	208	40°F	12'	400	9'	9'	27	45,17,37
USSHK-015	5	17.1	277	1	18.1	277	40°F	12'	400	9'	9'	27	45,17,37
USSHK-016	5	17.1	480	3	6.1	24	40°F	12'	400	9'	9'	27	45,17,37
USSHK-017	7.5	25.6	208	1/3	36.1/20.8	24	34°F	22'	700	10'	12'	54	62,17,55
USSHK-018	7.5	25.6	208	1/3	36.1/20.8	24	34°F	22'	700	10'	12'	54	62,17,55
USSHK-019	7.5	25.6	240	1/3	27.1/16.04	24	34°F	22'	700	10'	12'	54	62,17,55
USSHK-020	5.6	19.2	208	1/3	31.3/27.1	24	34°F	22'	700	10'	12'	54	62,17,55
USSHK-021	7.5	25.6	277	1	27.1	24	34°F	22'	700	10'	12'	54	62,17,55
USSHK-022	7.5	25.6	480	3	9.1	24	34°F	22'	700	10'	12'	54	62,17,55
USSHK-023	9.9	33.8	208	1/3	47.8/27.4	24	45°F	22'	700	10'	14'	55	62,17,55
USSHK-024	9.9	33.8	208	1/3	47.8/27.4	24	45°F	22'	700	10'	14'	55	62,17,55
USSHK-025	10	34.1	240	1/3	41.2/24	24	45°F	22'	700	10'	14'	55	62,17,55
USSHK-026	7.5	25.6	208	1/3	36.1/20.7	24	45°F	22'	700	10'	14'	55	62,17,55
USSHK-027	10	34.1	277	1	36.1	24	45°F	22'	700	10'	14'	55	62,17,55
USSHK-028	10	34.1	480	3	12.4	24	45°F	22'	700	10'	14'	55	62,17,55
USSHK-029	15	51.2	208	3	41.7	24	43°F	32'	1100	11'	20'	64	73,17,55
USSHK-030	15/11.2	51.2/38.4	240/208	3	36.1/31.3	24	43°F	32'	1100	11'	20'	64	73,17,55
USSHK-031	15	51.2	480	3	18.1	24	43°F	32'	1100	11'	20'	64	73,17,55
USSHK-032	19.7/14.8	67.2/50.5	240/208	3	47.8/41.1	24	57°F	32'	1100	12'	18'	65	73,17,55
USSHK-033	20	68.3	480	3	24.1	24	57°F	32'	1100	12'	18'	65	73,17,55
USSHK-034	25	85.3	208	3	69.5	24	40/44°F	45'	2000/1800	12'	22'	120	87,26,75
USSHK-035	25/18.7	85.3/64	240/208	3	60.2/52.1	24	40/44°F	45'	2000/1800	12'	22'	120	87,26,75
USSHK-036	25	85.3	480	3	30.1	24	40/44°F	45'	2000/1800	12'	22'	120	87,26,75
USSHK-037	30/22.5	102.4/76.8	240/208	3	72.3/62.5	24	47/53°F	40'	2000/1800	12'	20'	120	87,26,75
USSHK-038	30	102.4	480	3	36.2	24	47/53°F	40'	2000/1800	12'	20'	120	87,26,75
USSHU-039	39	133.1	480	3	47	24	40/45°F	55'	3100/2800	15'	24'	120	87,26,75
USSHU-040	50	170.6	480	3	60.3	24	51/56°F	50'	3100/2800	15'	27'	120	87,26,75



Recommended Control Options, Control Accessory Options, & Control Accessories
Specific Characteristics 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

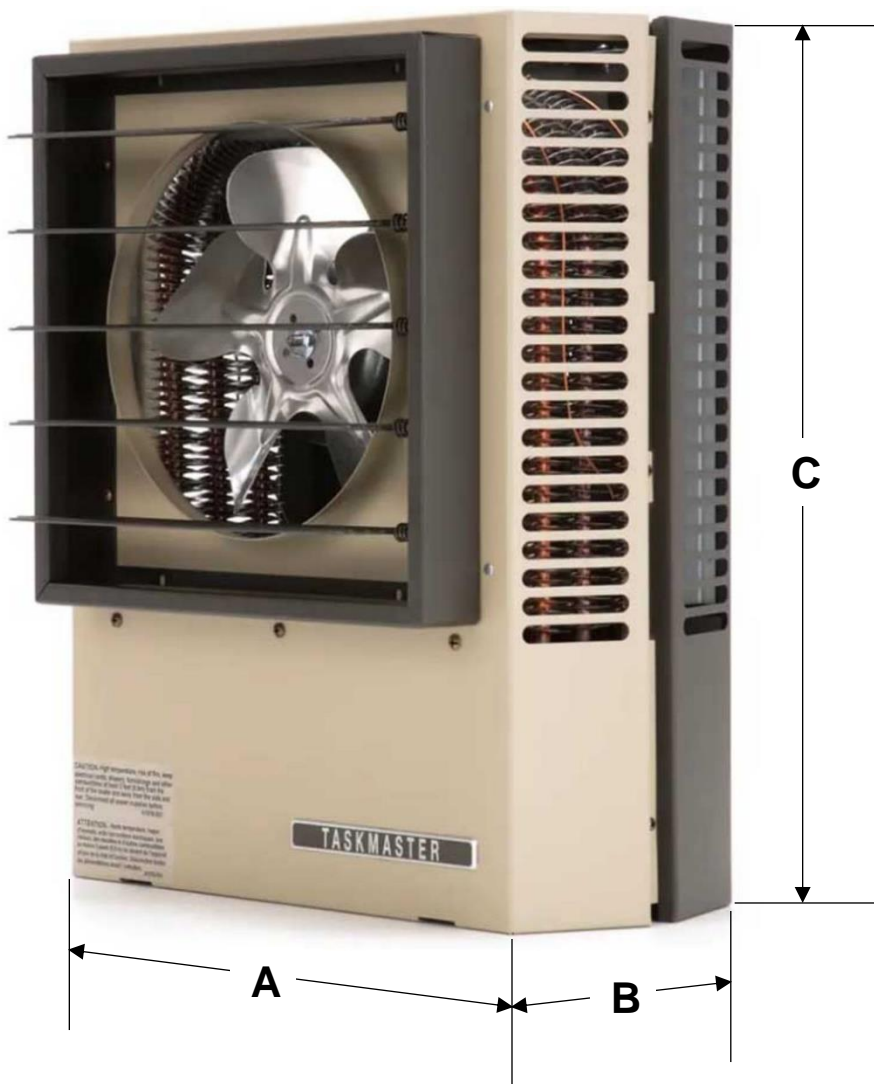
Item #	Disconnect switch		Description	Lbs
	MFG Model number			
	Diameter 1Ø	Diameter 3Ø		
USSHK-001	DCS202 / 5100	NA	20 AMP; 0-16 Amps	5
USSHK-002	DCS202 / 5100		20 AMP; 0-16 Amps	5
USSHK-003	DCS202 / 5100		20 AMP; 0-16 Amps	5
USSHK-004	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-005	DCS202 / 5100	NA	20 AMP; 0-16 Amps	5
USSHK-006	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-007	DCS202 / 5100	NA	20 AMP; 0-16 Amps	5
USSHK-008	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-009	DCS403 / 5100	NA	40 AMP; 16.1-32 Amps	5
USSHK-010	DCS403 / 5100	NA	40 AMP; 16.1-32 Amps	5
USSHK-011	DCS403 / 5100	NA	40 AMP; 16.1-32 Amps	5
USSHK-012	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-013	DCS403 / 5100	NA	40 AMP; 16.1-32 Amps	5
USSHK-014	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-015	DCS403 / 5100	NA	40 AMP; 16.1-32 Amps	5
USSHK-016	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-017	DCS603 / 5100	NA	60 AMP; 32.1-48 Amps	5
USSHK-018	NA	DCS603 / 5100	60 AMP; 32.1-48 Amps	5
USSHK-019	DCS403 / 5100	NA	40 AMP; 16.1-32 Amps	5
USSHK-020	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-021	DCS403 / 5100	NA	40 AMP; 16.1-32 Amps	5
USSHK-022	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-023	DCS603 / 5100	NA	60 AMP; 32.1-48 Amps	5
USSHK-024	NA	DCS603 / 5100	60 AMP; 32.1-48 Amps	5
USSHK-025	DCS603 / 5100	NA	60 AMP; 32.1-48 Amps	5
USSHK-026	NA	DCS603 / 5100	60 AMP; 32.1-48 Amps	5
USSHK-027	DCS603 / 5100	NA	60 AMP; 32.1-48 Amps	5
USSHK-028	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-029	NA	DCS603 / 5100	60 AMP; 32.1-48 Amps	5
USSHK-030	NA	DCS603 / 5100	60 AMP; 32.1-48 Amps	5
USSHK-031	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-032	NA	DCS603 / 5100	60 AMP; 32.1-48 Amps	5
USSHK-033	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-034	NA	DCS1003 / 5100	100 AMP; 48.1-80 Amps	5
USSHK-035	NA	DCS1003 / 5100	100 AMP; 48.1-80 Amps	5
USSHK-036	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-037	NA	DCS1003 / 5100	100 AMP; 48.1-80 Amps	5
USSHK-038	NA	DCS403 / 5100	40 AMP; 16.1-32 Amps	5
USSHK-039	NA	DCS603 / 5100	60 AMP; 32.1-48 Amps	5
USSHK-040	NA	DCS1003 / 5100	100 AMP; 48.1-80 Amps	5

*Disconnect must be rated at 80% of total ampload.



Dimensions (in) 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater

Item #	Wide	Deep	High
	A	B	C
USSHK-001 a USSHK-011	17 3/4	14 15/32	6 1/2
USSHK-012 a USSHK-025	24 5/16	21 1/2	6 1/2
USSHK-026 a USSHK-030	28 11/16	21 1/2	6 1/2
USSHK-031 a USSHK-040	34	29 1/4	10 1/16





5100 Series With Disconnect switch

Data Sheet

DCS202/5100



DCS403/5100



DCS603/5100



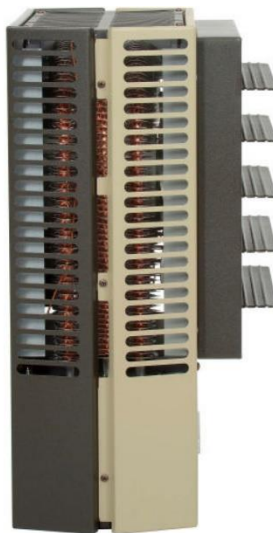
DCS1003/5100





5100 Series With Disconnect switch

Data Sheet





Installing the Taskmaster Series

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

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 be 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.

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.

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

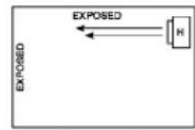


Figure A

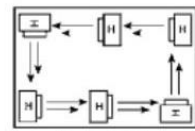


Figure B

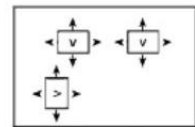


Figure C

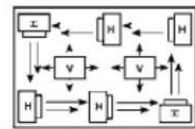


Figure D

ID	Author	Description Error	Description Update	Supervisor Name
V1	Angelica Romero	New Data Sheet	New Data Sheet	Jessica Lorenzo