



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 Thermostat. 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 voltage	Temp Rise (°F)	Air Throw	CFM	Recom'd mounting ht.		Weight and Dimensions With Packaging (CM)	
										Horizontal	Vertical	Lbs	W, H, D
USTRE-001	3.3	11.2	480	3	4	24	26°F	12'	400	9'	9'	25	45,17,37
USTRE-002	5	17.1	480	3	6.1	24	40°F	12'	400	9'	9'	27	45,17,37
USTRE-003	7.5	25.6	208	1/3	36.1/20.8	24	34°F	22'	700	10'	12'	54	45,17,37
USTRE-004	7.5	25.6	208	1/3	36.1/20.8	24	34°F	22'	700	10'	12'	54	45,17,37



5100 Series Thermostat & summer fan switch wall mounted Data Sheet

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

Item #	Watts	BTU's	Volts	PH	Amps	Control voltage	Temp Rise (°F)	Air Throw	CFM	Recom'd mounting ht.		Weight and Dimensions With Packaging (CM)	
										Horizontal	Vertical	Lbs	W, H, D
USTRE-005	7.5	25.6	240	1/3	27.1/16.04	24	34°F	22'	700	10'	12'	54	62,17,55
USTRE-006	5.6	19.2	208	1/3	31.3/27.1	24	34°F	22'	700	10'	12'	54	62,17,55
USTRE-007	7.5	25.6	277	1	27.1	24	34°F	22'	700	10'	12'	54	62,17,55
USTRE-008	7.5	25.6	480	3	9.1	24	34°F	22'	700	10'	12'	54	62,17,55
USTRE-009	9.9	33.8	208	1/3	47.8/27.4	24	45°F	22'	700	10'	14'	55	62,17,55
USTRE-010	9.9	33.8	208	1/3	47.8/27.4	24	45°F	22'	700	10'	14'	55	62,17,55
USTRE-011	10	34.1	240	1/3	41.2/24	24	45°F	22'	700	10'	14'	55	62,17,55
USTRE-012	7.5	25.6	208	1/3	36.1/20.7	24	45°F	22'	700	10'	14'	55	62,17,55
USTRE-013	10	34.1	277	1	36.1	24	45°F	22'	700	10'	14'	55	62,17,55
USTRE-014	10	34.1	480	3	12.4	24	45°F	22'	700	10'	14'	55	62,17,55
USTRE-015	15	51.2	208	3	41.7	24	43°F	32'	1100	11'	20'	64	73,17,55
USTRE-016	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
USTRE-017	15	51.2	480	3	18.1	24	43°F	32'	1100	11'	20'	64	73,17,55
USTRE-018	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
USTRE-019	20	68.3	480	3	24.1	24	57°F	32'	1100	12'	18'	65	73,17,55
USTRE-020	25	85.3	208	3	69.5	24	40/44°F	45'	2000/1800	12'	22'	120	87,26,75
USTRE-021	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
USTRE-022	25	85.3	480	3	30.1	24	40/44°F	45'	2000/1800	12'	22'	120	87,26,75
USTRE-023	30	102.4	208	3	83.4	24	47/53°F	40'	2000/1800	12'	20'	120	87,26,75
USTRE-024	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
USTRE-025	30	102.4	480	3	36.2	24	47/53°F	40'	2000/1800	12'	20'	120	87,26,75
USTRE-026	40	136.5	208	3	111.2	24	40/45°F	55'	3100/2800	15'	24'	120	87,26,75
USTRE-027	40/30	136.5/102.4	240/208	3	96.4/83.4	24	40/45°F	55'	3100/2800	15'	24'	120	87,26,75
USTRE-028	39	133.1	480	3	47	24	40/45°F	55'	3100/2800	15'	24'	120	87,26,75
USTRE-029	49.6	169.3	208	3	139	24	51/56°F	50'	3100/2800	15'	27'	120	87,26,75
USTRE-030	50/37.5	170.6/128	240/208	3	120.5/104.3	24	51/56°F	50'	3100/2800	15'	27'	120	87,26,75
USTRE-031	50	170.6	480	3	60.3	24	51/56°F	50'	3100/2800	15'	27'	120	87,26,75



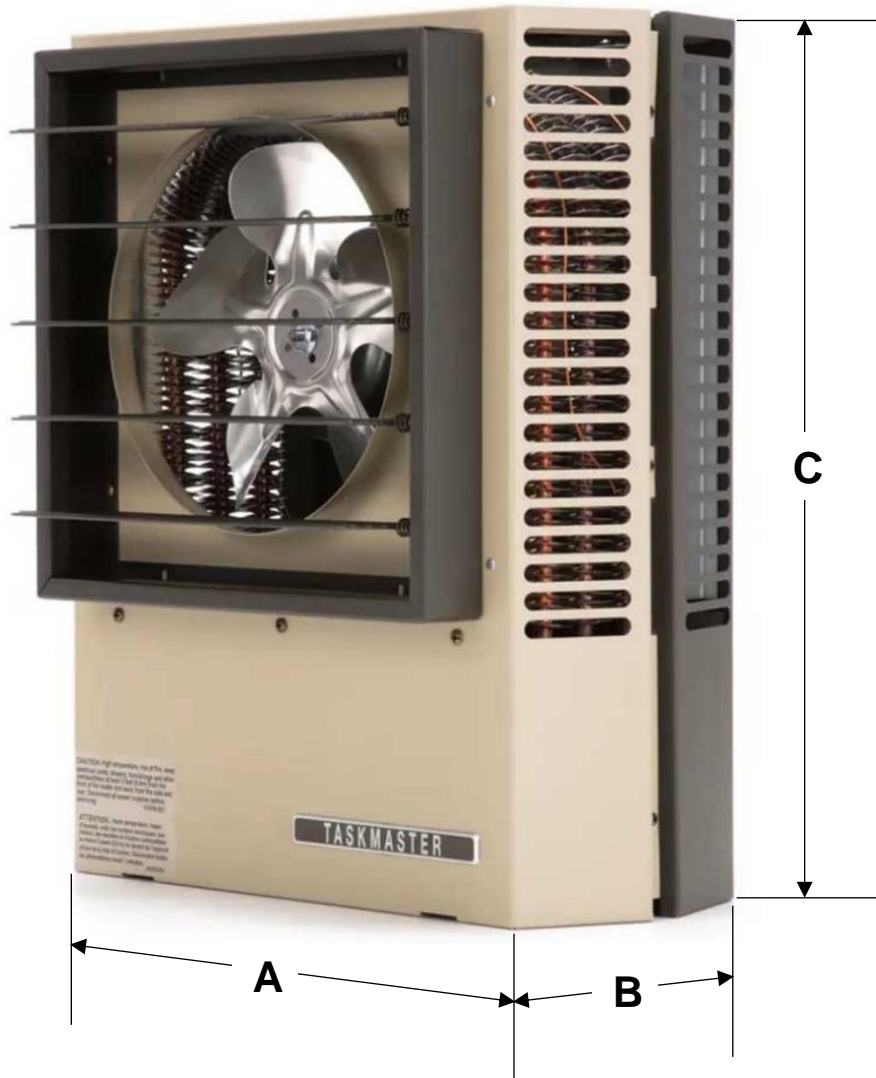
**Recommended Control Options, Control Accessory Options, & Control Accessories
 Specific Characteristics 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater**

Item #	Thermostat & summer fan switch wall mounted	Description	Lbs
USTRE-001	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-002	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-003	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-004	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-005	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-006	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-007	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-008	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-009	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-010	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-011	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-012	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-013	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-014	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-015	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-016	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-017	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-018	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-019	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-020	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-021	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-022	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-023	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-024	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-025	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-026	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-027	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-028	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-029	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-030	TFS5101	SPST; LOW VOLT; 50-90°	5
USTRE-031	TFS5101	SPST; LOW VOLT; 50-90°	5

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



Dimensions (in) 5100 Series Horizontal or Vertical Mounted Fan Forced Unit Heater			
Item #	Wide	Deep	High
	A	B	C
USTRE-001 a USTRE-011	24 5/16	21 1/2	6 1/2
USTRE-012 a USTRE-025	28 11/16	21 1/2	6 1/2
USTRE-026 a USTRE-031	34	29 1/4	10 1/16



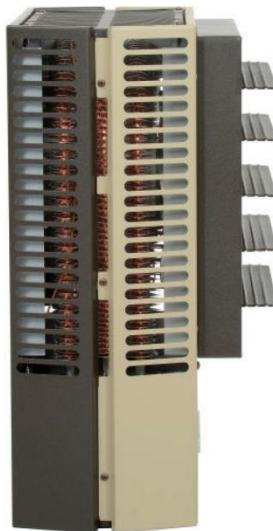


TFS5101





**5100 Series Thermostat &
summer fan switch wall
mounted
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.

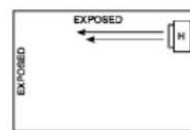


Figure A

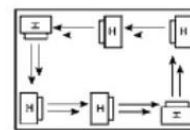


Figure B

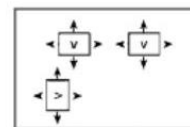


Figure C

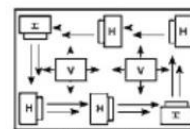


Figure D

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