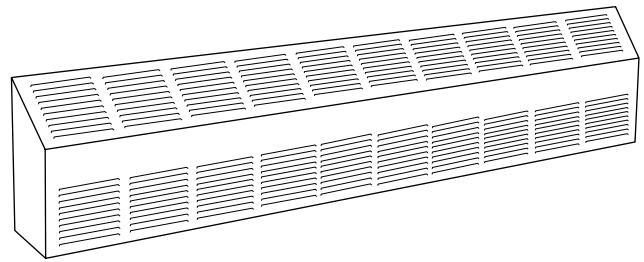




Marley

Engineered Products



ST Series Slope Top Convector



FILE #E37116

Installation & Maintenance Instructions

Dear Owner,

Congratulations! Thank you for purchasing this new heater manufactured by a division of Marley Engineered Products. You have made a wise investment selecting the highest quality product in the heating industry. Please carefully read and follow the installation and maintenance directions shown in this manual. You should enjoy years of efficient heating comfort with this product from Marley Engineered Products... the industry's leader in design, manufacturing, quality and service.

*... The Employees of
Marley Engineered Products*



WARNING

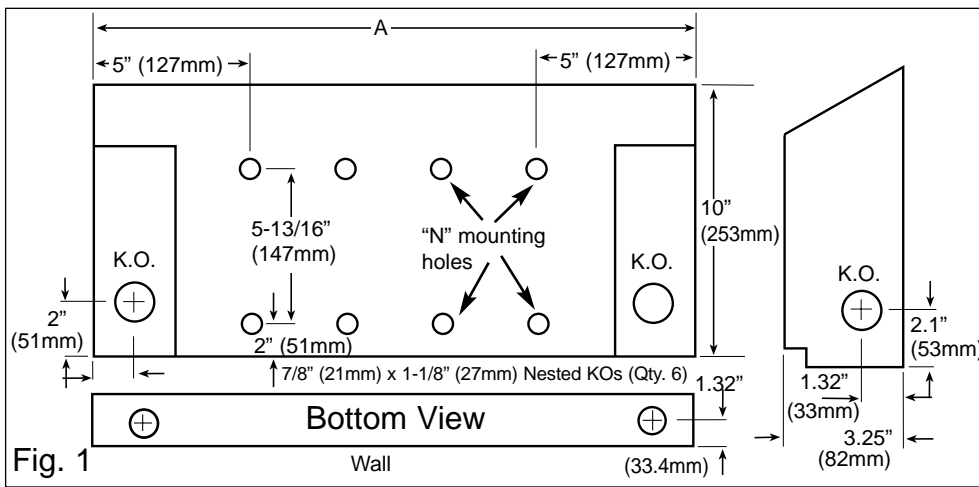


Read Carefully - These instructions are written to help you prevent difficulties that might arise during installation of heaters. Studying the instructions first may save you considerable time and money later. Observe the following procedures, and cut your mounting time to a minimum.

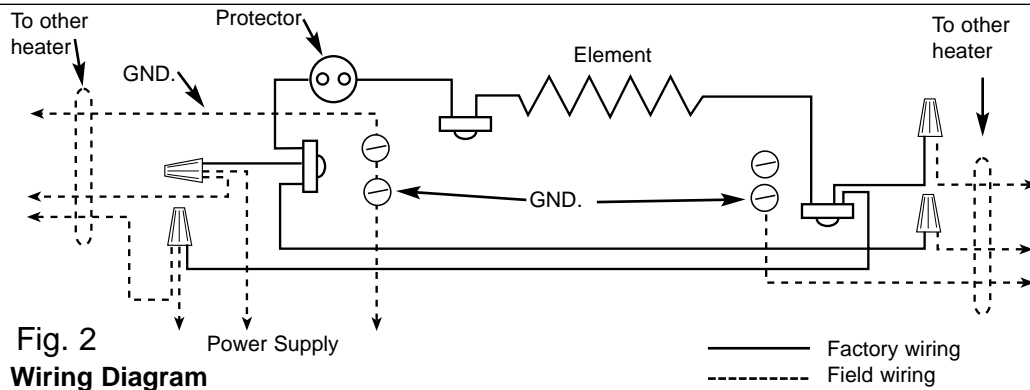
TO REDUCE RISK OF FIRE AND ELECTRIC SHOCK:

1. Disconnect all power coming to heater at main service panel before wiring or servicing.
2. All wiring must be in accordance with the National and Local Electrical Codes and the heater must be grounded as a precaution against possible electric shock.
3. Verify the power supply voltage coming to heater matches the ratings printed on the heater name plate before energizing.
4. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock, fire, or damage to the heater.
5. Do not block air intakes or exhaust in any manner. Keep combustible materials, such as boxes, crates, drapes, etc., away from heater.
6. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are stored.
7. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
8. This heater is not approved for use in hazardous atmospheres or corrosive atmospheres such as marine, green house or chemical storage areas.

SAVE THESE INSTRUCTIONS



WATTAGE	DIMENSIONS		
	A	B	N Holes
500	28" 709mm	-	-
750	36" 912mm	-	-
1000	48" 1216mm	19" 481mm	2
1250	60" 1520mm	16.68" 423mm	4
1500	72" 1824mm	20.63" 523mm	4
2000	96" 2432mm	21.5" 545mm	6
2500	120" 3040mm	27.5" 697mm	6



For supply connections use 75° copper wire as follows:

Amps	Wire size
12	14 AWG
16	12 AWG
24	10 AWG
35	8 AWG
45	4 AWG

Fig. 2
Wiring Diagram

CAUTION

DO NOT MOUNT HEATER IN A RECESS, SINCE SUCH MOUNTING INTERFERES WITH FREE AIR CIRCULATION, INCREASES TEMPERATURE AND PREVENTS PROPER THERMOSTAT OPERATION. UNIT MUST BE CONTROLLED BY OPTIONAL WALL MOUNTED OR INTERNAL LINE VOLTAGE THERMOSTAT.

MOUNTING AND WIRING

NOTE: Electrical wiring is to be sized in accordance with National Electric Code and local codes using at least 75°C type RH, THW or equivalent insulated wire. See chart located on page 3 for amp loads.

1. Locate on vertical wall with length of heater positioned horizontally.
2. When selecting a mounting location, the following are the minimum required distances to floor and walls.
 - a. Zero (0") inch (0mm) from bottom of heater to floor.
 - b. Zero (0") inch (0mm) from wall or other obstruction to the right or left side of heater.
3. Remove front cover by removing screws at bottom of cover and lifting cover out and up.
4. Select knockout through which electrical wiring must be brought into heater. Wiring can enter from either end. See Fig. 1. Remove junction box cover by removing two (2) screws. Install strain relief leaving 6" (152mm) of wire inside junction box.
5. Mount the rear panel assembly of the heater to the wall using the 3/16" (4.7mm) diameter holes (screws and wall anchors to be supplied by customer).


6. Make the proper connections following the wiring diagram (Fig 2). Grounding conductor must be connected to green ground wire. Replace junction box cover.
7. Install the front cover by hooking the top edge of the cover over the top edge of rear panel and attaching the bottom lip of the cover to the rear panel using screws removed in step 3.

OPERATION AND MAINTENANCE


To assure efficient operation, follow the simple instructions listed below.

TO CLEAN HEATER

Because of the convection heating principle which depends upon a circulation of air through the finned element, dust particles will



WARNING



HAZARD OF ELECTRIC SHOCK. DISCONNECT ALL POWER BEFORE ATTEMPTING TO SERVICE THE HEATERS.

periodically be deposited between the fins and should be removed occasionally for maximum efficiency of the heater. With front cover removed, a vacuum cleaner with proper attachments can easily be worked along the top and bottom of the finned element to clear it of dust deposits.

TO REPAINT

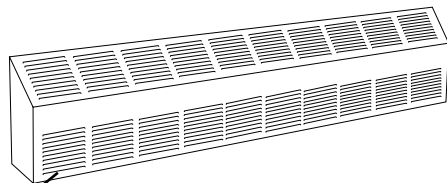
The baked enamel finish was chosen to blend with interior decor. If you wish to repaint the heaters, use high quality household enamel. No primer is necessary. However, light sanding is recommended. Do not use rubber base paint. Paint heater front cover only. Do not paint heating element or protector.

IMPORTANT INFORMATION

Catalog Number*	Length	Nominal Watt/Ft.	Total Heating Capacity		Amperage						Ship Wt. Lbs.
			Watts	BTU/Hr.	120V	208V	240V	277V	347V	600V	
ST02125	28"	125	250	853	2.1	1.2	1.0	0.9	-	-	12
ST02188		188	375	1280	3.1	1.8	1.6	1.4	-	-	
ST02250		250	500	1706	4.2	2.4	2.1	1.8	1.4	-	
ST03125	36"	125	375	1280	3.1	1.8	1.6	1.4	1.1	-	15
ST03188		188	546	1925	4.7	2.7	2.4	2.0	1.6	-	
ST03250		250	750	2560	6.2	3.6	3.1	2.7	2.2	-	
ST04125	48"	125	500	1706	4.2	2.4	2.1	1.8	1.4	-	19
STO4188		188	750	2560	6.2	3.6	3.1	2.7	2.2	1.3	
ST04250		250	1000	3412	8.3	4.8	4.2	3.6	2.9	1.7	
ST05125	60"	125	625	2133	5.2	3.0	2.6	2.3	1.8	1.0	24
ST05188		188	940	3208	7.8	4.5	3.9	3.4	2.7	1.6	
ST05250		250	1250	4266	10.4	6.0	5.3	4.5	3.6	2.1	
ST06125	72"	125	750	2560	6.2	3.6	3.1	2.7	2.1	1.3	26
ST06188		188	1125	3840	9.4	5.4	4.7	4.1	3.2	1.9	
ST06250		250	1500	5120	12.5	7.2	6.3	5.4	4.3	2.5	
ST08125	96"	125	1000	3412	-	4.8	4.2	3.6	2.9	1.7	37
ST08188		188	1500	5120	-	7.2	6.3	5.4	4.3	2.5	
ST08250		250	2000	6824	-	9.6	8.3	7.2	5.8	3.3	
ST10125	102"	125	1250	4266	-	6.0	5.2	4.5	3.6	2.1	45
ST10188		188	1875	6400	-	9.0	7.8	6.8	5.4	3.1	
ST10250		250	2500	8532	-	12.0	10.4	9.0	7.2	4.2	

*Catalog number shown in above table will be followed by a three-digit suffix indicating voltage and phase

121 = 120V/1Ø	271 = 277V/1Ø
201 = 208V/1Ø	341 = 347V/1Ø
241 = 240V/1Ø	601 = 600V/1Ø



NAMEPLATE

MODEL NO. **STO3250271** DATE CODE **1096**

VOLTS AC	WATTS	AMPS.
277	750	2.8

c

54E1 LISTED
BASEBOARD HEATER

MARLEY ENGINEERED PRODUCTS
BENNETTSVILLE, SC 29512 4104-2194-001

HOW TO ORDER REPAIR PARTS

In order to obtain any needed repair or replacement parts, warranty service or technical information, please contact Marley Engineered Products toll-free by calling 1-800-642-HEAT.

When ordering repair parts, always give the information listed as follows:

1. The Part Number
2. The Model Number
3. The Part Description
4. Date of Manufacture

Notes

LIMITED WARRANTY

All products manufactured by Marley Engineered Products are warranted against defects in workmanship and materials for one year from date of installation, except heating elements which are warranted against defects in workmanship and materials for five years from date of installation. This warranty does not apply to damage from accident, misuse, or alteration; nor where the connected voltage is more than 5% above the nameplate voltage; nor to equipment improperly installed or wired or maintained in violation of the product's installation instructions. All claims for warranty work must be accompanied by proof of the date of installation.

The customer shall be responsible for all costs incurred in the removal or reinstallation of products, including labor costs, and shipping costs incurred to return products to Marley Engineered Products Service Center. Within the limitations of this warranty, inoperative units should be returned to the nearest Marley authorized service center or the Marley Engineered Products Service Center, and we will repair or replace, at our option, at no charge to you with return freight paid by Marley. It is agreed that such repair or replacement is the exclusive remedy available from Marley Engineered Products.

THE ABOVE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESAID EXPRESSED WARRANTIES ARE HEREBY DISCLAIMED AND EXCLUDED FROM THIS AGREEMENT. MARLEY ENGINEERED PRODUCTS SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES ARISING WITH RESPECT TO THE PRODUCT, WHETHER BASED UPON NEGLIGENCE, TORT, STRICT LIABILITY, OR CONTRACT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For the address of your nearest authorized service center, contact Marley Engineered Products in Bennettsville, SC, at 1-800-642-4328. Merchandise returned to the factory must be accompanied by a return authorization and service identification tag, both available from Marley Engineered Products. When requesting return authorization, include all catalog numbers shown on the products.

SWO 309A

5/97

4

Part No. 5200-2320-001



Marley
Engineered Products

SPX Corporation
470 Beauty Spot Rd. East
Bennettsville, SC 29512 USA