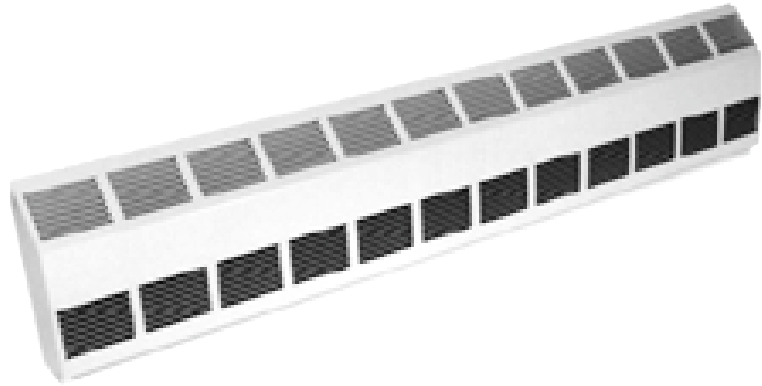


## TYPE ST COMMERCIAL SLOPE TOP CONVECTORS

- Provides total or supplemental heating for offices, corridors, lobbies, motels, apartments, or similar facilities. Mounted under expanses of glass, they prevent cold down drafts.
- With a range of heating capacities from 125 watts (426 BTU per hour) to 250 watts (852 BTU per hour) per foot length, these units can run from wall-to-wall or they can be mounted as discrete units in lengths of 28-inches to ten feet.
- The attractive 45 degree sloped top discourages use of heater as a shelf or a "stepstool."
- The unit is designed to mount on the wall at sill height (or lower) and can be positioned directly on the floor. The end of the unit can be positioned against adjacent sidewall if desired.
- Standard finish is neutral grey. Also available in a spectrum of muted architectural colors in baked enamel finishes which are compatible with all interior decors.
- Front cover is fabricated from 16-gauge steel. While the back is constructed of 18-gauge steel. For service, all internal parts are accessible by removing cover. Top of front cover engages with back; bottom of cover locks into place with screws.
- Elements are long life metal sheath, aluminum fin type anchored to allow for quiet expansion and contraction.
- Thermal limit switch with linear type (full length) sensing bulb provides constant protection against overheating from any cause. The switch will automatically reset when normal operating temperatures are restored.

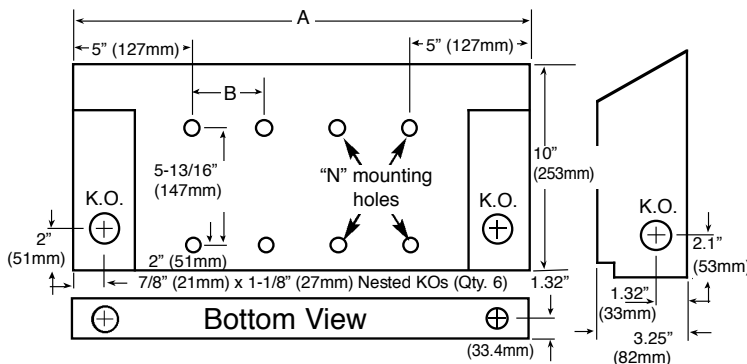


- Units are prewired. Units without optional controls are designed for either right hand or left hand entry for easy connection of supply wiring from bottom, rear or end, as well multiple wiring of adjacent heaters from one entry point.
- Accessories include a complete line of matching splice sections, inside and outside corners.
- Optional built-in controls consist of: thermostat, disconnect switch, transformer relay, and power relay. (Refer to specification table for ratings.)
- Stainless Steel, NEMA 4X models available for washdown and corrosive applications. Contact Sales Rep.
- The NEMA 4X series slope top convectors were specifically designed for use in wet or corrosive environments like those found in

food processing areas, dairies, breweries, locker rooms, stadium dugouts, and other areas that are subject to high pressure hosing and / or constantly wet conditions. They are suitable for use in areas where severe corrosion problems exist from either salt spray or chemical exposure like a sewage treatment plant or indoor swimming pool.

- Rugged 16-gauge Stainless Steel front and back covers
- NEMA 4X rated for washdown and corrosive environments
- 250 Watts per foot
- Automatic thermal cutout

Note: Optional built-in controls are not compatible with the NEMA 4X series of slope top convectors.



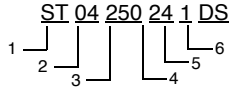
**NEMA 4X Models available for washdown and corrosive applications.  
Contact Sales Representative.**

### SPECIFICATIONS

WATTAGE	DIMENSIONS		
	A	B	N Holes
500	28" 709 mm	—	—
750	36" 912 mm	—	—
1000	48" 1216 mm	19" 481 mm	2
1250	60" 1520 mm	16.68" 423 mm	4
1500	72" 1842 mm	20.63" 523 mm	4
2000	96" 2432 mm	21.5" 545 mm	6
2500	120" 3040 mm	27.5" 697 mm	6

## HOW TO ORDER THE ST CONVECTORS:

Ex. 4', 250 W/ft., 240V, 1 phase unit with a built-in disconnect switch.



1. Prefix: ST designates 3" x 10" slope top convactor
2. Cabinet length:  
02 = 28", 03 = 36", 04 = 48", 05 = 60"  
06 = 72", 08 = 96", 10 = 120"

3. Watt Density:  
125W/ft., 188W/ft., 250W/ft.
4. Voltage: 12 = 120V, 20 = 208V, 24 = 240V  
27 = 277V, 34 = 347V, 60 = 600V
5. Phase: 1 = 1 PH.

6. Optional built-in controls:  
2T - double pole thermostat  
T - single pole thermostat  
DS - disconnect switch  
PR - power relay  
TR - transformer relay

## SELECTION CHART

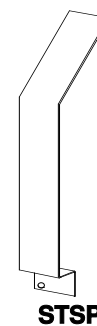
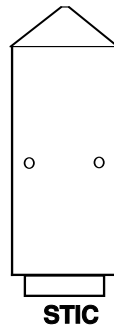
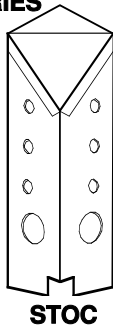
CATALOG NUMBER	LENGTH	NOMINAL WATTS/FT.	TOTAL HEATING CAPACITY		AMPERAGE						SHIP WEIGHT LBS.
			WATTS	BTU/HR.	120V	208V	240V	277V	347V	600V	
ST02	28"	125	250	853	2.1	1.2	1.0	0.9	-	-	12
		188	375	1280	3.1	1.8	1.6	1.4	-	-	
		250	500	1706	4.2	2.4	2.1	1.8	1.4	-	
ST03	36"	125	375	1280	3.1	1.8	1.6	1.4	1.1	-	15
		188	546	1925	4.7	2.7	2.4	2.0	1.6	-	
		250	750	2560	6.2	3.6	3.1	2.7	2.2	-	
ST04	48"	125	500	1706	4.2	2.4	2.1	1.8	1.4	-	19
		188	750	2560	6.2	3.6	3.1	2.7	2.2	1.3	
		250	1000	3412	8.3	4.8	4.2	3.6	2.9	1.7	
ST05	60"	125	625	2133	5.2	3.0	2.6	2.3	1.8	1.0	24
		188	940	3208	7.8	4.5	3.9	3.4	2.7	1.6	
		250	1250	4266	10.4	6.0	5.3	4.5	3.6	2.1	
ST06	72"	125	750	2560	6.2	3.6	3.1	2.7	2.1	1.3	26
		188	1125	3840	9.4	5.4	4.7	4.1	3.2	1.9	
		250	1500	5120	12.5	7.2	6.3	5.4	4.3	2.5	
ST08	96"	125	1000	3412	-	4.8	4.2	3.6	2.9	1.7	37
		188	1500	5120	-	7.2	6.3	5.4	4.3	2.5	
		250	2000	6824	-	9.6	8.3	7.2	5.8	3.3	
ST10	120"	125	1250	4266	-	6.0	5.2	4.5	3.6	2.1	45
		188	1875	6400	-	9.0	7.8	6.8	5.4	3.1	
		250	2500	8532	-	12.0	10.4	9.0	7.2	4.2	

## OPTIONAL BUILT-IN CONTROLS AND OPTIONAL ACCESSORIES (1)

CATALOG NUMBER	SHIP WT. LBS.	DESCRIPTION
T*	1	Single pole thermostat rated 24A @ 120 - 240 VAC. Pilot duty rating of 125 VA (all voltages). 60°F - 120°F temperature range.
2T*	1	Double pole thermostat rated 24A @ 120 - 240 VAC. Pilot duty rating of 125 VA (all voltages). 60°F - 120°F temperature range.
DS*	1	Double-pole disconnect switch, rated 20 amp @ 120-277 VAC.
TR*	1	Single-pole, low voltage relay with built-in transformer (24 VAC control), rated 25 amps @ 120-240 VAC, 17 amps @ 347V, 12 amps @ 600V.
PR*	1	Single-pole magnetic relay, rated 18A @ 120-600 VAC. Specify control voltage (24, 120, 240).
2ST		Related 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating 125 VA (all voltages). 60-120°F temperature range, adjustable through outlet grille-tamper-resistant. Available on 2- or 3-element, single phase heaters only.
R**		Duplex receptacle, 120V/20A, mounting in left or right end cap of 6, 9, 12 or 18-inch filler sections only.
STIC	2	Inside corner (requires additional wall space).
STOC	2	Outside corner (requires additional wall space).
STSP	1	Splice plate wide, coverage gap up to 1/2".

\* - Factory built-in. Add suffix to heater model number. \*\*For use with DSH, CSH, end caps and filler sections only.  
(1) NEMA 4X models do not support built in controls and accessories.

## ACCESSORIES



## APPLICATION LIMITATIONS AND PRE-CAUTIONS

- A. Hazardous Atmospheres - Because the possibility of a concealed spark can exist from the built-in over-head cutout, heaters should not be used in potentially explosive atmospheres.
- B. Corrosive Atmosphere - The high quality finish and steel sheet internal metal parts will give excellent service under most operating conditions, including coastal salt air and industrial atmospheres. However, the finish is not intended for direct salt spray exposure in marine application or highly corrosive atmospheres like greenhouses, swimming pools or chemical storage areas.
- C. Cleanliness - Although specifically designed for mounting below window areas, heaters can be installed on plaster, wood paneled, metal, masonry, or composition wall surfaces with reasonable expectation of clean wall operation. Should some soiling occur, after a period of years, smooth walls may be cleaned with standard maintenance materials. For deep textured walls, consideration should be given to choice of watt per foot capacity - generally, the enclosures with lowest

surface temperature will have the least soiling tendency.

- D. Comfort - Optimum room comfort results when heater is mounted just below the window sill, since cold down draft is eliminated and maximum convection air distribution without stratification is maintained throughout the room. Because of the tendency for warm air to stratify, installing heaters close to the ceiling is not recommended. If it should be necessary, at least eighteen inches clearance above the air discharge must be maintained. Bottom of heaters are not intended for attractive appearance when mounted above eye level.
- E. Air Throw - Since heaters provide only natural convection air throw, they are not recommended for combatting cold outside air blast through high traffic, main entryways and vestibules. Heaters will maintain satisfactory comfort conditions in low traffic, side entryways and vestibules, but for most entryways, faster response fan driven heaters would be preferred.
- F. Curtains, draperies, or blinds - should clear the top of the heater by at least six inches. Never permit draperies to completely cover the unit. Furniture - should be placed so it does not touch
- G. Recess mounting - UL labeled for free standing wall surface mounting only. Not recommended for mounting behind built-in book shelves, storage cabinets, window seats, etc..
- H. In institutional applications such as hospitals, nursing homes, child daycare centers, and clinics, it is recommended that low-watt density convectors be used to provide optimum comfort at lowest case temperature.
- I. Due to variations in vinyl compositions and their potential to discolor, the use of a lower watt density unit may be required when installing on vinyl wall coverings or under vinyl window dressings. Prior to setting specification, consult factory for installation recommendations.

the heater and so it does not completely block the air vents. Allow at least four inches free space between furniture and the heaters.

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## SUGGESTED ENGINEERING SPECIFICATIONS

Heaters shall be slim profile (3.25" x 10") and available in lengths from 28 inches through 10 feet.

Front cover shall be 16 gauge, and the back shall be 18 gauge furniture quality steel with reinforced, all welded construction; designed to withstand heavy-duty commercial and institutional use.

Enclosures shall be chemically-treated to resist corrosion. Finish shall be mar and temperature-resistant to retain contemporary appearance throughout years of rough use.

The enclosure shall have end caps integral to the design, eliminating the

need for accessory end cap.

For safety, the electric heating bank shall consist of metal sheath heating elements. The elements shall have a copper clad steel sheath for strength and corrosion resistance, and aluminum fins for faster heat transfer.

Elements shall be wall mounted and have a 0" mounting clearance to the floor and adjacent side wall.

Intake and discharge louvers shall be closely spaced to prevent insertion of foreign objects. The louver configuration shall be front intake and top discharge.

Optional built-in controls shall include single-pole, and double-pole thermostat, disconnect switch, transformer relay and power relay. The thermostat shall be

capable of controlling multiple units on a pilot duty circuit. (Observe the control limitations indicated.) Thermostat adjustment shall be with a thin bladed screwdriver through the intake louvers and shall be considered tamper-resistant.

Heaters shall be designed so they can be butted together with use of splice plates.

All heaters and electrical accessories shall be labeled by Underwriters' Laboratories, Inc.

Accessories shall include inside and outside corners and splice plates.

