

## ELECTRICAL DRAFT BARRIER HEATERS

### MODEL SBT/SBF AND SBT/SBF-PD

#### Submittal

Project	Engineer	Customer
---------	----------	----------

Item	Quantity	Catalog No.	Length	Volts	Watts	Amps	Built-In Controls	Color

### SB FEATURES

**SBT – Bottom intake, top discharge**  
**SBF – Front intake, top discharge**  
**Two piece all aluminum, 14 gauge front and back.**

- Extended backs and fronts available.
- 4" junction boxes at each end.
- 3/4" EMT raceway standard.
- 1/2" and 3/4" knockouts.
- Control packages available.
- In house engineering and design assistance.
- Custom selection of convector lengths from 2' to 12' length in 1/16" increments.
- Multiple heater sections on one common back.
- UL and CUL listed.
- Full length thermal limit switch.
- There are 5 anodized finishes available, six durable Decorator painted finishes and grey prime.
- Custom finishes specified by the architect are available.
- Available with optional 2" pedestals and finished back.
- 1/4" pencil proof discharge grill.
- Accessories include: end caps, wall trims, splice plates, corners and blank sections.
- Cabinet size is 3"W x 5"H.
- Available with built in thermostat or disconnect.
- Wattages from 100 to 250 watts per foot.

Control sections include 6" or 12" with: disconnect, thermostat, pneumatic relay, transformer relay, relay, fused disconnect or duplex receptacle Standard built-in controls shall include thermostats (single and double pole) and disconnect switches.

#### Suggested Engineering Specifications

Model SB Architectural Draft Barriers shall be 5" high and 3" wide. The front cover shall be 14 gauge extruded aluminum construction suitable for Architectural, Commercial and Industrial use with 1/4" pencil proof intake and discharge grills. The one piece cover shall be extruded for maximum strength and shall be available in lengths up to 12'.

The cover shall be linear mount to the 14 gauge heater back with no visible fasteners. The 14 gauge heater back shall be suitable for mullion to mullion mounting.

Standard painted finishes or optional anodizing (see color chart) shall be provided as specified by the architect. Color matching to architects specifications are available as optional finishes.



Heat sections from 2' to 10' are available. All heaters shall contain 3/4" EMT built in raceway with factory wiring to provide field wiring from either end when optional controls are not included.

1/2" and 3/4" knockouts shall be provided in the side and rear of the heater junction box to permit end to end wiring. All blank sections shall be fully enclosed to allow branch circuit wiring. All heaters shall contain a full length thermal overheat protector with automatic reset. Wattages shall be available from 100 to 250 watts per foot. Heating elements shall be tubular stainless steel or aluminum tubing with aluminum fins mechanically bonded to ensure efficient heat transfer.

Element fin temperature shall not exceed 350 degrees Fahrenheit to ensure long element life. Elements shall be center anchored and free floating in nylon bushings at each end.

Control sections include 6" or 12" with: disconnect, thermostat, pneumatic relay, transformer relay, relay, fused disconnect or duplex receptacle. Standard built-in controls shall include thermostats (single and double pole) and disconnect switches.

Built-in controls shall be tamper proof and shall be adjustable with a blade screwdriver through the discharge louver.

All heaters are Underwriters Laboratories listed.

## SB-PD

SB-PD series shall have 2" adjustable pedestals and the heater back will be painted to match the front cover.

### Standard Painted Finishes

Black, Bronze, Grey, Tan, White, Prime Grey

### Available Anodized Finishes

204, 311, 312, 313 and 315.

### Furniture, Drapes & Carpeting

Proper operation of heater requires free circulation of room air through the heating element. Keep electrical cords, drapes, rugs and other furnishings away from the heater.

Furniture should be placed no closer than 4" from the heater. Drapes should clear the top of the heater by at least 12". Or, if you prefer floor length drapes, they should clear the floor by 3", and the minimum clearance from the back fold to the front cover should be at least 4".

For best results when carpeting is involved in the installation, allow clearance for carpet to be installed under the heaters and corners. Rugs can be placed up to the heater provided that they are not of a thickness that would block the air-intake at the bottom of the heater.

## CONTROLS BUILT-IN

### SB-ITS (thermostat)

Single pole rated 25 amps, 120 – 227 volt. Adjustable through discharge grill, mounted in right hand junction box.

### SB-ITD

Same as Above (double pole.)

### SB-IDS (disconnect)

Double pole, rated 20 amps, 120 – 277 volt. Adjustable through discharge grill, mounted in left junction box.

## CONTROL SECTIONS SB-CS

### 6" Control Section

6" long and can be added to total enclosure length. Contains 1 or 2 controls. Right or left hand mounting (right hand is standard).

### 12" Control Section

12" long and can be added to total enclosure length. Contains 1, 2 or 3 controls. Right or left hand mounting (right hand is standard).

### PR (power relay), PE (Pneumatic relay), MDR (mercury relay)

Single or double pole (specify). Rated 25 amps, Low or line volt coils (specify).

### TR (transformer relay)

Single pole, rated 25 amps, 120 – 277 volt. Contacts rated up to 277 volt (specify). Coils are 24 volt.

### DR (duplex receptacle)

Mounted on front cover. Rated 15 amps, 120 volt. Snap in type control section mounting.

### FDS (fused disconnect)

Fuse block with fuse and 20 amp disconnect switch. Control section mounting.

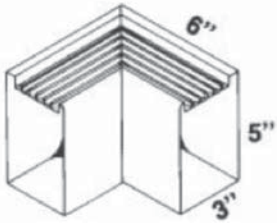
Cat. No.	Description
SB-WT	Wall Trim (specify 4" or 6")
SB-SP	Splice Plate
SB-EC	End Cap (specify right or left)
SB-IC	Inside Corner (specify miter degree)
SB-OC	Outside Corner (specify miter degree)
SB-BS	Blank Section (specify length 6"-12")
SBT	Bottom Intake, Top Discharge
SBF	Front Intake, Top Discharge

Lengths	Nominal Watts/Ft.	Heat Watts	Cat No.	Volts
2'	150	300	2150	120, 208, 240, 277
	200	400	2200	
	250	500	2250	
3'	100	300	3100	120, 208, 240, 277
	150	450	3150	
	200	600	3200	
4'	250	750	3250	120, 208, 240, 277
	100	400	4100	
	150	600	4150	
5'	200	800	4200	120, 208, 240, 277
	250	1000	4250	
	100	500	5100	
6'	150	750	5150	120, 208, 240, 277
	200	1000	5200	
	250	1250	5250	
7'	100	600	6100	120, 208, 240, 277
	150	900	6150	
	200	1200	6200	
8'	250	1500	6250	120, 208, 240, 277
	100	700	7100	
	150	1050	7150	
9'	200	1400	7200	120, 208, 240, 277
	250	1750	7250	
	100	800	8100	
10'	150	1200	8150	120, 208, 240, 277
	200	1600	8200	
	250	2000	8250	
11'	100	900	9100	120, 208, 240, 277
	150	1350	9150	
	200	1800	9200	
12'	250	2250	9250	120, 208, 240, 277
	100	1000	10100	
	150	1500	10150	
13'	200	2000	10200	120, 208, 240, 277
	250	2500	10250	

Other Wattages Available. Consult Factory.

120 Volt 100 or 250 W.P.F. only

**CORNERS, FILLERS, BLANK SECTIONS & END CAPS**



**INSIDE CORNER**



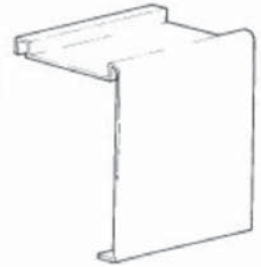
**CAST PEDESTAL**



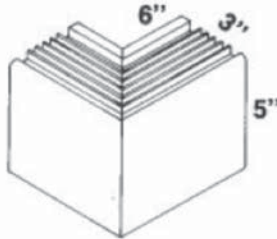
**END CAP**



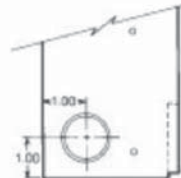
**SPLICE PLATE**



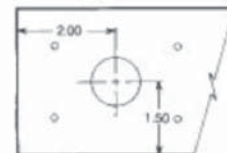
**WALL TRIM**



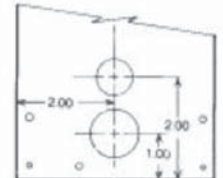
**OUTSIDE CORNER**



**SIDE VIEW**



**BOTTOM VIEW  
Pedestal Unit Only**



**BACK VIEW**