



Brasch Architectural Convectors

BRASCH ARCHITECTURAL ELECTRIC CONVECTORS

Architectural Convectors are custom built with unsurpassed craftsmanship. Standard length and custom fitted draft barrier, sill height and pedestal heaters meet the most demanding architectural specifications. Low initial cost and negligible maintenance make them suitable for all projects stressing energy and cost optimization.

Application

Brasch Architectural Convectors are ideal for perimeter heating of schools, lobby areas, public buildings, nursing homes and other commercial applications providing individual room control and warm air draft protection for wall and window exposures. Heating capabilities to 750 watts per foot in a wide variety of cabinet styles provide continuous clean horizontal lines to complement any building project. Enclosures are available in standard and special painted colors and in clear and color anodized finishes.

Construction Features

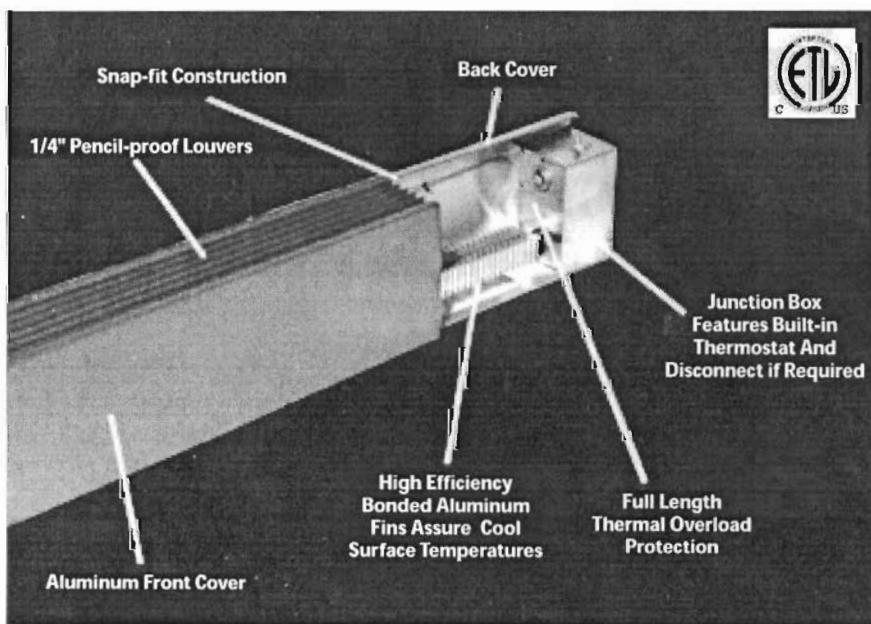
- Snap-fit construction saves installation time, eliminates unsightly screws.
- Pencil-proof louvers have 1/4 inch spacings.
- Heavy gauge extruded aluminum grilles with 15 degree angled louvers direct heated air away from wall for cleaner operation.
- Enclosures are fabricated of heavy gauge materials to assure compliance with architectural requirements to withstand years of rough usage. All enclosures can be finished to match window mullions, wall surfaces and interior decor.
- Multiple heaters factory wired on the same backplate are available up to maximum front enclosure lengths (see Table 1).

- Front cover enclosures are available in continuous lengths up to maximums (see Table 1) to eliminate unnecessary splices (special order). Aluminum only.
- Full length thermal cutout with automatic reset prevents overheating when airflow is blocked. Heating elements mounted on free floating nylon bushings for quiet operation.
- Aluminum sheath element has mechanically bonded fins for cooler operating temperatures.
- Built-in 1/2 inch EMT raceway allows field wiring from either end. (3/4 inch EMT also available).
- Control section can accommodate optional controls as required.
- Junction boxes in heaters (except DBTS) will accept most controls (see page 4).
- Optional controls include thermostat, disconnect (with or without 20 amp fuse and fuse block), power relay, transformer relay and PE switch.

- Accessories (see page 4) include end caps, wall trim splice plates, inside and outside corners, mullion fronts, inside fillers, blank sections, control sections, 1/4 inch wire mesh under grille, pedestals and duplex receptacles.
- Disconnect switch and relay, separately or in combination with thermostat, allow for right hand wire entry. Integral thermostat allows wire entry at either end.

Finishes

The standard finish on all heaters is ASI Bronze paint. Other standardized paint colors which are available are Eggshell White, Beige, Gray, and Black. Anodized finishes can be provided on aluminum enclosure heaters. Those available are 204R1 Clear, 313R1 Bronze and Black. Actual samples of any of the foregoing finishes can be provided upon request. Additionally, special painted colors can be provided to match submitted color samples. Heater backs (except RDBT-PD) are not finished unless specified.



Standard Profile Draft Barriers DBF & DBT

These heaters have a 6" x 3 1/2" profile with a snap-fit extruded aluminum enclosure and a 12 ga. aluminum backplate. The DBF is available with up to 250 watts per foot of heating and the DBT with up to 300 watts per foot of heating. DBF is designed for floor mounting with front inlet and top outlet. DBT is designed for wall mounting with bottom inlet and top outlet but pedestals can be supplied for floor mounting.

Low Profile Draft Barriers DBTS & CB

The DBTS heater has a 4" x 2 5/8" profile and the CB heater has a 4 1/2" x 2 5/8" profile. Both have a snap-fit extruded aluminum enclosure and a 14 ga. aluminum backplate. The DBTS heater is available with up to 300 watts per foot of heating. The CB heater is available with up to 250 watts per foot of heating. Both are designed for wall mounting with bottom inlet and top outlet but pedestals can be supplied for floor mounting.

Dual Element Draft Barriers DBCF & DBCT

These heaters have a 7" x 5" profile with a snap-fit extruded aluminum enclosure and a 10 ga. aluminum backplate. The DBCF is available with up to 650 watts per foot of heating and the DBCT with up to 750 watts per foot of heating. DBCF is designed for floor mounting with front inlet and top outlet. DBCT is designed for wall mounting with bottom inlet and top outlet but pedestals can be supplied for floor mounting.

Sill Height Draft Barriers ASHDB

The ASHDB has a standard 5 1/2" depth and heights are available from 8" to 20" in 1/16" increments—specify height required. The front cover is 16 ga. steel and the backplate is 18 ga. steel. The grille is extruded aluminum. The ASHDB is available with up to 500 watts per foot of heating. The heater is designed for wall mounting with bottom inlet and top outlet. Pedestals can be supplied for floor mounting of 8" height only.

Rounded Pedestal Draft Barriers RDBT-PD

The RDBT-PD heater has a rounded 6" x 7" profile with a flat bottom and a flat top and has an extruded aluminum enclosure. The heater is supported on 1 3/4" - 2 1/4" adjustable pedestals. The RDBT-PD is available with up to 300 watts per foot of heating. The heater is designed for floor mounting with bottom inlet and top outlet.

Standard Elements

The following standard elements are available in even foot lengths at the watts per foot heat outputs shown for single phase voltages:

	277	240	208	120
125	94	93	125	
165	124	106	188	
188	141	113	250	
200	150	141		
250	188	188		
333	250	212		
375	282	250		

DBCF, DBCT and ASHDB can be furnished with any combination of two elements. Special elements at different heat outputs and/or lengths are available.

Model	Type	Enclosure Dimension (H x D)	Airflow	Maximum Heat Watts/Ft	Front Enclosure/ Max Length	Grilles	Mounting	Finishes	
								Standard	Optional
DBF	Standard	6" x 3 1/2"	Front Inlet Top Outlet	250	.100" Extruded Aluminum/10Ft.	Extruded Aluminum	Floor	Painted Bronze	Color or Clear Anodized Std. and Spcl. Painted Colors
DBT	Standard	6" x 3 1/2"	Bottom Inlet Top Outlet	300	.100" Extruded Aluminum/10 Ft.	Extruded Aluminum	Wall	Painted Bronze	Color or Clear Anodized Std. and Spcl. Painted Colors
DBTS	Low Profile	4" x 2 5/8"	Bottom Inlet Top Outlet	300	.070" Extruded Aluminum/10 Ft.	Extruded Aluminum	Wall	Painted Bronze	Color or Clear Anodized Std. and Spcl. Painted Colors
CB	Low Profile	4 1/2" x 2 5/8"	Bottom Inlet Top Outlet	250	.070" Extruded Aluminum/10 Ft.	Extruded Aluminum	Wall	Painted Bronze	Color or Clear Anodized Std. and Spcl. Painted Colors
DBCF	Dual Element	7" x 5"	Front Outlet Top Outlet	650	.100" Extruded Aluminum/10 Ft.	Extruded Aluminum	Floor	Painted Bronze	Color or Clear Anodized Std. and Spcl. Painted Colors
DBCT	Dual Element	7" x 5"	Bottom Outlet Top Outlet	750	.100" Extruded Aluminum/10t.	Extruded Aluminum	Wall	Painted Bronze	Color or Clear Anodized Std. and Spcl. Painted Colors
ASHDB	Sill Height	8" - 20" X 5 1/2"	Bottom Inlet Top Outlet	500	16 ga. Steel/ 10 Ft.	Extruded Aluminum	Wall	Painted Bronze	Std. and Spcl. Painted Colors
RDBT-PD	Rounded	6" x 7"	Bottom Inlet Top Outlet	300	.100" Extruded Aluminum/10 Ft.	Extruded Aluminum	Floor	Painted Bronze	Color or Clear Anodized Std. and Spcl. Painted Colors

Accessories

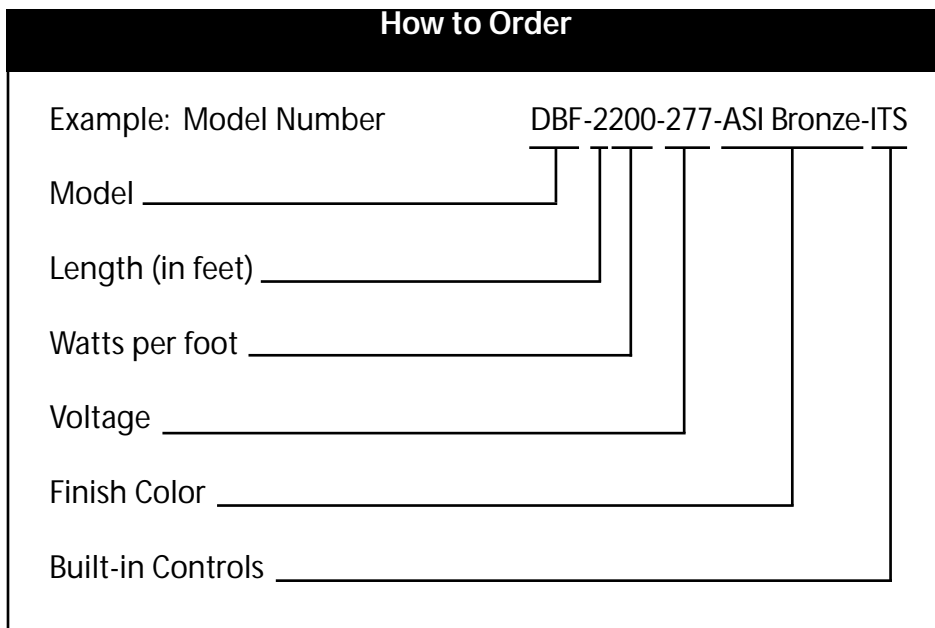
IC	Inside Corner
OC	Outside Corner
EC	End Cap—left or right (N/A RDBT-PD)
IEC	Inside Fitting End Cap— left or right (N/A DBTS, CB, DBCF, AHSDDB)
WT	Wall Trim
SP	Splice Plate, 1 1/2" - 6" (N/A RDBT-PD)
MF	Mullion Front to 1 foot (DBF, DBT, CB only)
IF	Inside Filler to 1 foot (DBF, DBT, DBCT only)
BS	Blank Section—specify length (1'-0" to 10'-0")
ASB Conduit	3/4" Raceway (Not on CB or DBTS) (1/2" Standard)
ASB Mesh	1/4" wire mesh under grille
ASB DR	Duplex Convenience Receptacles
ASB PD	Pedestals—specify 2" or 3" (3" over 300W/Ft)

Controls

CS	Control Section—6" or 12"
ITS	Single Pole Thermostat— 20 amps
ITD	Double Pole Thermostat— 20 amps
IDS	Double Pole Disconnect— 20 amps
PR	Power Relay—18 amps
TR	Transformer Relay
PE	Pressure Electric Switch

DBTS requires a CS with any controls. A six inch CS will accept 1 or 2 controls, a twelve inch CS will accept 3 controls. CB will accept only a thermostat, disconnect or power relay in the junction box. More or other controls require a CS. All other heaters will accept any two of the following controls to be installed in the junction box—disconnect and thermostat, disconnect and power relay or disconnect and PE switch. Increase the length of the heater enclosure by 6" or 12" when using a control section. Integral thermostats are mounted on the left side unless otherwise specified; integral disconnects are mounted on the right side unless otherwise specified; integral relays are mounted on the left side unless otherwise specified. Heaters are wired for either right or left hand entry where there are no controls. Otherwise, entry is in the junction box containing the controls.

How to Order



When Ordering, specify:

- Model Number
- Length (in feet)
- Watts Per Foot
- Voltage
- Finish Color
- Built-in Controls

Sample Specification

Electric convectors shall be architectural series by Brasch Manufacturing Co., Inc. as scheduled:

Series Description	Height By Depth
DBF—Draft Barrier (front inlet)	6" x 3 1/2"
DBT—Draft barrier (bottom inlet)	6" x 3 1/2"
DBTS—Draft barrier (bottom inlet)	4" x 2 5/8"
CB—Draft barrier (bottom inlet)	4 1/2" x 2 5/8"
DBCF—Draft barrier (front inlet)	7" x 5"
DBCT—Draft barrier (bottom inlet)	7" x 5"
ASHDB—Sill Height (bottom inlet)	8" - 20" x 5 1/2"
RDBT-PD Rounded Pedestal (bottom inlet)	6" x 7"

Draft barrier shall be fabricated of aluminum extrusions with 1/4" pencil-proof louvers at a 15° angle for improved convection and cleaner operation. Cabinets to have clean square corners, suitable for front or bottom intake and heating at watts per foot as scheduled.

Sill height convectors shall be fabricated of 16 gauge furniture steel with 14 gauge extruded aluminum, pencil-proof louvers installed at a 15° angle for improved convection and cleaner operation.

Enclosure covers, louvers and end caps will snap-fit together without screws or fasteners for easy maintenance. Wall-mounted units shall have pre-punched slots for quick installation. Pedestal and

mullion-to-mullion units to have solid finished backs without slots. Standard backed acrylic bronze or optional painted or anodized finish will be provided in architectural colors as scheduled.

Provide full length linear thermal cutout with automatic reset on all units to prevent overheating from blocked airflow. Provide built-in EMT raceway with factory wiring and 3/4" knockouts on side and rear of junction boxes at each end. Heater to accept field wiring at either end when optional controls are not included. Blank sections shall be fully enclosed for branch circuit wiring. Heating elements shall be aluminum sheath with mechanically bonded fins to maximize heat transfer and limit fin temperatures to 330°F.

Elements shall be centered in free-floating nylon bushings for quiet operation. Per schedule, controls include single or double pole thermostats, disconnect switches, and relays. Thermostats shall be adjustable (tamperproof) through discharge louver. Separate control sections shall include factory mounted PE switches, mercury contactors, circuit breakers and control transformers (as scheduled).

Accessories shall include end caps, wall trim, splice plates, inside and outside corners, and blank sections of matching material for visual continuity.

All heaters and controls shall be listed by ETL Semko and are warranted for one year from date of sale.

Limited Warranty

All Brasch Manufacturing Company, Inc. products covered in this bulletin are warranted against defects in workmanship and materials for one year from date of purchase. This warranty does not apply to damage from accident, misuse or alteration; nor where the connected voltage is more than 5% above product nameplate voltage; nor to equipment improperly installed or wired or maintained in violation of installation instructions. This warranty is valid only in the fifty states of the United States. No other written or oral warranty applies. No employee, agent, dealer or other person is authorized to extend warranty on behalf of Brasch Manufacturing Company.

The customer shall be responsible for all costs incurred in the removal or reinstallation and shipping of the product for repairs. Inoperative units should be returned to Brasch, attention of Service Manager for repair or replacement at our option. Product will be returned freight prepaid. Repair or replacement is the exclusive remedy available from Brasch who is not liable for damages of any kind, including incidental and consequential damage.



BRASCH
MANUFACTURING COMPANY, INC.

2310 Millpark Drive
Maryland Heights, MO 63043
314.291.0440 • Fax 314.291.0646
e-mail: braschmfg@braschmfg.com
www.braschmfg.com

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