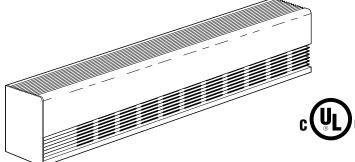


470 Beauty Spot Rd. E Bennettsville, SC 29512



SUBMITTAL SHEET DBA & SHA SERIES

ARCHITECTURAL SILL-HEIGHT CONVECTOR

See Selection Chart for Options

JOB NAME:		
LOCATION:		
ARCHITECT:		
ENGINEER:		
CONTRACTOR:		
SUBMITTED BY:	DATE:	

			HEATER		HEATER		HEATER		HEATER		HEATER				
TAG/ITEM	QTY.	CATALOG NUMBER	ĸw	VOLTS	ø	AMPS	LENGTH	NUMBER OF ELEMENTS	BUILT-IN CONTROLS						
					L										

	TAG/ITEM	QTY.	CATALOG NUMBER	DESCRIPTION
ACCESSORIES				
AND				
CONTROLS				

SUBMITTED BY:	DATE	APPROVED BY:	DATE

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS*

Furnish and install, where indicated on plans, SHA/DBA Series convector type heaters, suitable for continuous operation, as manufactured by QMark, A Division of Marley Engineered Products, Bennettsville, SC.

ENCLOSURE: Shall be 12-gauge (.080" min.) aluminum extrusion (DBA) or 10- gauge (0.95" min.) aluminum extrusion (SHA). The one-piece back and bottom shall join to the one-piece top and front utilizing Qmark's Snap-Lock design. Both inlet and outlet air grilles shall be punched pencil-proof slots negating the need for mesh under the grille.

SIZE: Heaters shall be low profile $(3 \frac{5}{6}" \times 6" \text{ or } 5 \frac{3}{6}" \times 7")$ and available in standard lengths from 28 inches through 12 feet. Additionally, custom length cabinets available with single or multiple heat decks shall be furnished as specified.

HEATING LENGTHS AND VOLTAGES: Heater lengths, voltages and wattage capacities shall be as indicated on the plans.

FINISH: The top and front shall be finished with a baked enamel paint or anodized. Finished backs are available upon request. **HEATING ELEMENTS**: The nickel-chromium heating element wire shall be encased in a steel sheath for maximum, troublefree element life. Aluminum fins shall be pressure bonded to the steel sheath. Elements shall be centered, anchored and shall float freely at each end through high-temperature Noryl bushings. The SHA shall utilize QMark's "Stair-Step" element arrangement.

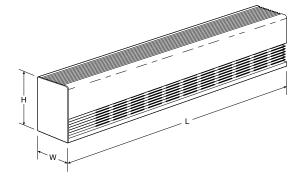
CONTROL SECTIONS: Control sections, finished to match heaters, shall be furnished as an optional accessory for field installation of controls, or shall be used to house factory-installed controls as specified.

OPTION BUILT-IN CONTROLS: Thermostats, power relay, low-voltage control relays, and power on/off switches, singly or in combination, may be specified for factory installation in heaters. Thermostats and power on/off switches are accessible through the grille.

PEDESTALS: The heater shall be convertible for use as a selfstanding unit with pedestal conversion kit. Pedestals shall be painted steel or anodized aluminum. Pedestals can either be mounted on or embedded in the floor surface, and wiring or conduit brought through the pedestal during installation.

*QMark reserves the right to change specifications without prior notice.

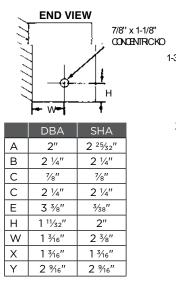
Dimensions and Clearances:

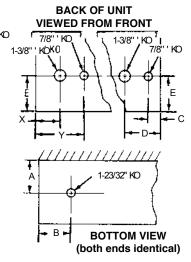


	Dimensions					
Cat. No.	н	W	L			
DBA	6″	3 5⁄8″	28"-12'			
SHA	7″	5 5⁄8″	28"-12'			

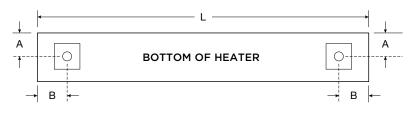
Minimum Mounting Heig Above Floor	ght
DBA & SHA Front Inlet	0″
DBA & SHA Bottom Inlet (100W/Ft250W/Ftr.)	1-3/4″
SHA Bottom Inlet (375W/Ft750W/Ft.)	3″

Knockouts:





Pedestal Placement:



	Standard Pedestal Placement						
Cat. No.	А	В	L				
DBA	2"	2 ¼″	28-12″				
SHA	SHA 2 ¹³ / ₁₆ "		28-12″				

NOTE: On units longer than 12', three pedestals are required. Consult factory for placement.

DBA & SHA (1 Element) Lengths

Length	28″	3'	4'	5′	6′	7'	8′	9′	10′
Shipping Weight	8 lbs	10 lbs	13 lbs	17 lbs	20 lbs	24 lbs	27 lbs	30 lbs	33 lbs

NOTE: Custom length cabinets are priced with heater and blank to the next larger size. Backs are provided standard with no finish. For finished backs, add 10% to list price. Knockouts on back omitted by request only. All nodels are NON-STOCK made-to-order. When ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color. Consult sales representative for lead times

Voltages*

Watts per Ft.*

•			•		
100	125	150	120	208	
188	250		480	347	

•			
120	208	240	277
480	347	600	

SHA (Multiple Elements) Lengths

Length	28″	3′	4'	5′	6′	7'	8′	9′	10′
Shipping Weight	12 lbs	15.5 lbs	20 lbs	25.5 lbs	30 lbs	35 lbs	40 lbs	45 lbs	50 lbs

NOTE: Cabinet available up to 12 ft. length. Custom length cabinets are priced with heater and blank to the next larger size. Backs are provided standard with no finish. For finished backs, add 10% to list price. Knockouts on back omitted by request only. All models are NON-STOCK made-to-order. When ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color. Consult sales representative for lead times.

Watts per Ft. - 2 Elements*

375 500

Voltages — Single Phase*

208 240 277 347 600	
---------------------	--

600

Watts per Ft. - 3 Elements *

Voltages — Three Phase*

000 010	
200 210	

750 *Specs vary by length. Reference the submittal sheet or additional detail

Optional Built-In Controls:

600

SUFFIX*	OPTIONAL BUILT-IN CONTROL	RATINGS & DESCRIPTION
Т	Single-Pole Thermostat	Rated 25 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range; adjustable through outlet grille-tamper-resistant. (See Note B) Not available on three-phase heaters.
2T	Double-Pole Thermostat	Rated 25 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range; adjustable through outlet grille-tamper-resistant. (See Note B for amperage restrictions.)
DS	Power On/Off Switch	Double-pole, rated 20 amp @ 120-277 VAC. (See Note A) For three-phase heaters and single-phase heaters over 20 amps specify two.
TR	Transformer Relay	Single-pole, low voltage relay with built-in transformer (24 VAC control), rated 22 amps @ 120-240 VAC and 22 amps @ 277 VAC. (See note E) 17 amps @ 347V. Not available on three-phase heaters.
PR	Power Relay	Single-pole thermal time delay relay, rated 25 amps @ 120-600 VAC. (See Notes E & F). Specify control voltage.
2ST	2-Stage Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 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.
PDT	Single-Pole Thermostat	Same as -T except Pilot Duty. (See Note C)
2TPD	Double-Pole Thermostat	Same as -2T except Pilot Duty. (See Note C & D)
М	Outlet Mesh	Price per foot

NOTE: * Addition To Basic Catalog No. (See Note D)

A. For single-phase loads over 20A and all three-phase loads, specify (2) power on/off switches. B. This control option is not available on single-phase heaters over 25 amps (22 amps on 277 VAC). In combination with the power on/off switch option use the 2ST thermostat option on heaters over 20 amps. **C**. A second transformer relay can be sequenced off the first transformer relay in the same heater. Up to 30 power relays in different heaters can be controlled by (1) single-stage pilot duty thermostat. **D**. Up to 30 power relays in different heater can be controlled by each stage of a two-stage pilot duty thermostat. **E**. Two relays are required on single-phase heaters over 20 amps with a power on/off switch, over 25 amps without a power on/off and on all three-phase heaters. Two relays are available for two-stage on two- or three-element heaters only. **F**. Three power relays are available for three-stage on three-element heaters only.

Control Combinations:

	No Thermostat or Power ON/OFF Switch	Thermostats				Power	Thermostats & Power ON/OFF Switches					
		1-Pole (-7)	2-Pole (<i>-2ST</i>)	2-Stage (<i>-2ST</i>)	Pilot Duty (<i>-PDT</i>)²	2-Stage Pilot Duty (<i>-2SPD</i>)²	ON/OFF (-DS) ⁴	1-Pole	2-Pole	2-Stage	Pilot Duty	2-Stage Pilot Duty
No Power Controls	x	x	x				x	х	х			
Power Relay (<i>-PR</i>)	x	х	x		x		x	х	х		х	
Transformer Relay (-TR)	x	х	x		x		×	x	х		х	
No Power controls	x	х	×	x	×	х	x	x	х	x		
Power Relay (-PR)	x	х	x	x	x	х	x	x	х	x	х	
2 Power Relays (2-PR)	x		x	x	x	х	x		х	x	х	x
3 Power Relays (-3PR)	x		x	x	x	х	x		х	x	х	x
Transformer Relay (-TR)	x	x	x	x	x		x	х	х	x	x	
2 Transformer Relays (-2TR)	x		×3	×3	×3	×3	×3		×3	×3	×3	

NOTE: 1. Normal mounting configuration is a thermostat and Power ON/OFF in left junction box; power relay, transformer relay, and pneumatic/electric switch in right junction box. 2. When used with power relays or transformer relays, pilot duty thermostats will be wired into the coil circuit of the power relay or the 24V side of the transformer relay. The line voltage thermostats will be wired into the power circuit of the heater. 3. When using two transformer relays with any additional controls (built-in thermostat or Power ON/OFF), please consult factory. 4. For three-phase units, specify two Power ON/OFF.

Blank Sections & Accessories – DBA Series:

CATALOG NO.	DIMENSIONS (W x H x L)	INLET	SHIP WT.
DBABS1F	3 5%" x 6" x 1'	Front	4 lbs
DBABS1B	1 5 %8 X 0 X I	Bottom	4 105
DBABS2F	3 5⁄8″ x 6″ x 28″	Front	7 lbs
DBABS2B	5 % X 6 X 28	Bottom	7 105
DBABS3F	3 5%" x 6" x 3'	Front	9 lbs
DBABS3B	5 % X 6 X 5	Bottom	2016
DBABS4F	3 5%" x 6" x 4'	Front	10 //
DBABS4B	3 % X 6 X 4	Bottom	12 lbs
DBABS5F	3 5%″ x 6″ x 5′	Front	16 lbs
DBABS5B	5 % X 6 X 5	Bottom	
DBABS6F	3 5%" x 6" x 6'	Front	19 lbs
DBABS6B	5 % X 6 X 6	Bottom	19 105
DBABS7F	3 5%" x 6" x 7'	Front	22 lbs
DBABS7B	3 % X 6 X 7	Bottom	22 IDS
DBABS8F	3 5%" x 6" x 8'	Front	24 lbs
DBABS8B	3 % X 6 X 8	Bottom	24 IDS
DBABS9F	3 5%" x 6" x 9'	Front	27 lbs
DBABS9B	3 % X 6 X 9	Bottom	27 IDS
DBABS10F	7.5/11 011 101	Front	70.11
DBABS10B	3 5⁄8″ x 6″ x 10′	Bottom	30 lbs

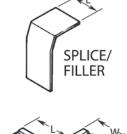
CATALOG NO.	DESCRIPTION	ADDITIONAL SPACE REQUIRED	SHIP WT.
DBAECLS**	End Cap w/Screws — Left		
DBAECRS**	End Cap w/Screws — Right		
DBAICF**	Inside Corner-Front In	8 1⁄2″	5 lbs
DBAICB**	Inside Corner-Bottom In	8 1⁄2″	5 lbs
DBAOCF**	Outside Corner-Front In	5″	4 lbs
DBAOCB**	Outside Corner-Bottom In	5″	4 lbs
DBA135ICF**	135° Inside Corner-Front In	8 1⁄2″	5 lbs
DBA135ICB**	135° Inside Corner-Bottom In	8 1⁄2″	5 lbs
DBA1350CF**	135° Outside Corner-Front In	5″	4 lbs
DBA1350CB**	135° Outside Corner-Bottom In	5″	4 lbs
DBADESBL**	Dec. End Section-Bottom In, Left		5 lbs
DBADESBR**	Dec. End Section-Bottom In, Right	9 %4″	5 lbs
DBADESFL**	Dec. End Section-Front In, Left	9 %4"	4 lbs
DBADESFR**	Dec. End Section-Front In, Right		4 lbs
DBASP**	Splice Plate	0-1⁄4″	1 lbs
DBAFL3**	Filler Section 3 in.	0-3"	1 lbs
DBAFL6**	Filler Section 6 in.	3-6"	1 lbs
DBAFL9**	Filler Section 9 in.	6-9"	1 lbs
DBAFL12**	Filler Section 12 in.	9-12"	1 lbs
DBA-FL18**	Filler Section 18 in.	15-18″	1.5 lbs
DBADRF**	Receptacle Section-Front In	4.1/1	15
DBADRB**	Receptacle Section-Bottom In	4 1⁄2″	1.5 lbs
PK3S*	Standard Pedestal 2 7/8 in. (H)	-	2 lbs
PK3A*	Architectural Pedestal 2 7/8 in. (H)	-	2 lbs
SO1A***	Stand-Off Bracket	_	1 lbs

NOTE: Blank section grilles are not punched unless requested.

*One pedestal. Two required on units up to 10 ft., three required on units over 10ft.

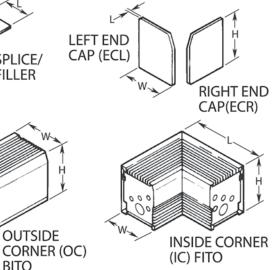
** Add suffix -P for painted followed by the color code (i.e. W for White, B for Black, etc.), -C for clear anodized (excludes PK3S—Black only).

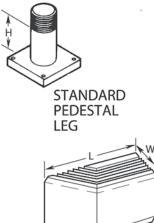
*** All Stand-off Brackets come standard as Beige.



OUTSIDE

BITO



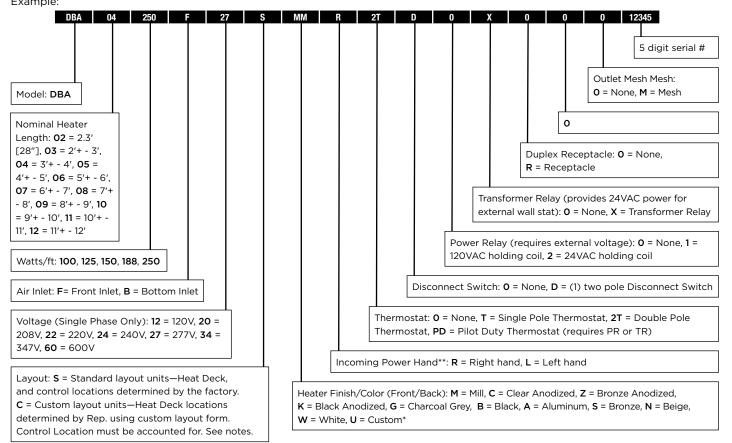




ARCHITECTURAL PEDESTAL LEG

DIAGONAL END SECTION

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^{*}Custom finishes require additional approvals prior to acceptance

thermostat when facing the heater.

Contact Marley Sales Representative for additional configuration details

^{**}Control Hand / Incoming Power connection is determined by the hand of the DS/

Blank Sections & Accessories – SHA Series:

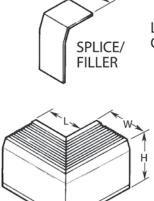
CATALOG NO.	DIMENSIONS (W x H x L)	INLET	SHIP WT.
SHABS1F		Front	
SHABS1B	5 ¾" x 7" x 1'	Bottom	7 lbs
SHABS2F	F 7/11 711 2011	Front	11.11
SHABS2B	5 ¾" x 7" x 28"	Bottom	11 lbs
SHABS3F	F	Front	14 11
SHABS3B	5 v" x 7" x 3'	Bottom	14 lbs
SHABS4F	E 7/11 711 A)	Front	10 //
SHABS4B	5 ¾" x 7" x 4'	Bottom	18 lbs
SHABS5F		Front	22 lbs
SHABS5B	5 ¾" x 7" x 5'	Bottom	22 IDS
SHABS6F	E 7/11 711 C)	Front	07.0
SHABS6B	5 ¾" x 7" x 6'	Bottom	27 lbs
SHABS7F		Front	70 //
SHABS7B	5 ¾" x 7" x 7'	Bottom	32 lbs
SHABS8F	5 ³ ⁄ ₈ " x 7" x 8'	Front	37 lbs
SHABS8B	5 %° X /° X 8	Bottom	37 IDS
SHABS9F	F 7/11 711 O	Front	40 llb -
SHABS9B	5 ¾" x 7" x 9'	Bottom	40 lbs
SHABS10F	5.7/# 7# 101	Front	
SHABS10B	5 ¾" x 7" x 10'	Bottom	44 lbs

CATALOG NO.	DESCRIPTION	ADDITIONAL SPACE REQUIRED	SHIP WT.
SHAECLS**	End Cap w/Screws - Left		
SHAECRS**	End Cap w/Screws - Right		
SHAICF**	Inside Corner-Front In	10″	11 lbs
SHAICB**	Inside Corner-Bottom In	10″	11 lbs
SHAOCF**	Outside Corner-Front In	5″	7 lbs
SHAOCB**	Outside Corner-Bottom In	5″	7 lbs
SHA135ICF**	135° Inside Corner-Front In	10″	11 lbs
SHA135ICB**	135° Inside Corner-Bottom In	10″	11 lbs
SHA135OCF**	135° Outside Corner-Front In	5″	7 lbs
SHA135OCB**	135° Outside Corner-Bottom In	5″	7 lbs
SHADESBL**	Dec. End Section-Bot. In, Left		11 lbs
SHADESBR**	Dec. End Section-Bot. In, Right	12 1/2'	11 lbs
SHADESFL**	Dec. End Section-Front In, Left	12 1/2	7 lbs
SHADESFR**	Dec. End Section-Front In, Right		7 lbs
SHASP**	Splice Plate	0-1/4"	1 lbs
SHAFL3**	Filler Section 3 in.	0—3″	1 lbs
SHAFL6**	Filler Section 6 in.	3—6″	1 lbs
SHAFL9**	Filler Section 9 in.	6—9″	2 lbs
SHAFL12**	Filler Section 12 in.	9—12"	3 lbs
SHA-FL18**	Filler Section 18 in.	15—18″	5 lbs
SHADRF**	ADRF** Receptacle Section-Front In		0.11
SHADRB**	Receptacle Section-Bottom In	4 1⁄2″	2 lbs
PK5S*	Standard Pedestal 4 ½ in. (H)		2 lba
PK5A*	Architectural Pedestal 4 ½ in. (H)	-	2 lbs
SO1A***	Stand-Off Bracket	-	1 lbs

NOTE: Blank section grilles are not punched unless requested.

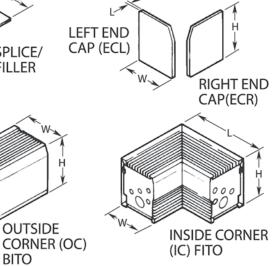
*One pedestal. Two required on units up to 10 ft., three required on units over 10ft.
** Add suffix -P for painted followed by the color code (i.e. W for White, B for Black, etc.), -C for clear anodized, -B for bronze anodized (excludes PK5S—Black only).

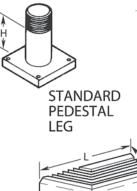
*** All Stand-off Brackets come standard as Beige.



OUTSIDE

BITO





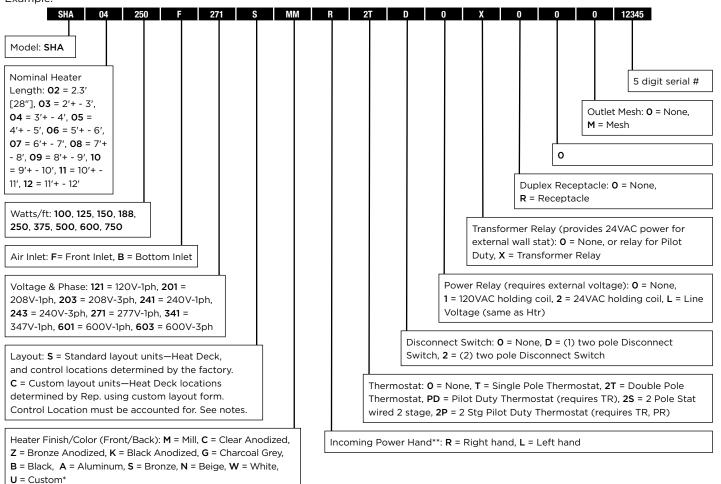


LEG

DIAGONAL END SECTION

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How to Order - SHA Example:



*Custom finishes require additional approvals prior to acceptance

**Control Hand / Incoming Power connection is determined by the hand of the DS/ thermostat when facing the heater.

Contact Marley Sales Representative for additional configuration details

No matter the industry or application, Marley Engineered Products has a robust portfolio of innovative, reliable, high-performance comfort heating and ventilation solutions for all your heating needs.

Scan the QR code to access additional specs and features



For more information or assistance on your next project, contact Technical Services at 800-642-4328