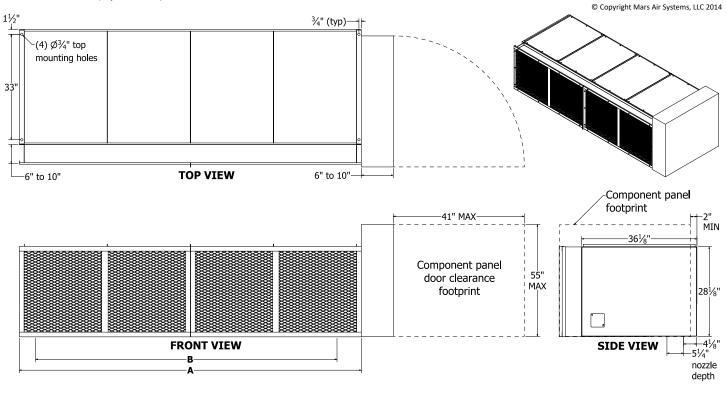
# BD14 (Belt Driven 14) Series



Electric Heated Model Lengths: 96"–192" Environmental Separation (up to 16') Insect Control (up to 14')

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#### Notes:

- 1. Recommended service clearances are 6" to the left and right sides, 24" on top, and 24" in front of the unit.
- 2. Circuit protection (per NEC) to be installed by others.
- 3. To prevent accidental damage during operation, unit must be installed so that the bottom of the air curtain does not extend below the door header.
- 4. Unit can be suspended from overhead on both ends without intermediate support.
- 5. Electric heater shown with heater component panel on the right side, as standard.

			Mechanical Data	Lab Data			
Model Number	Overall Length A (in)	Nozzle Length (in)	Mounting Width	Motor (hp)	Weight (lb)	Max Velocity (fpm)	Max Volume (cfm)
BD1496-1E*-TS	107	96	105½	5	750	4500	11700
BD14120-1E*-TS	131	120	129½	5	875	4500	14650
BD14144-1E*-TS	155	144	153½	71⁄2	1000	4500	17600
BD14168-1E*-TS	179	168	177½	71⁄2	1125	4500	20500
BD14192-1E*-TS	203	192	201½	10	1250	4500	23450

\* – Use corresponding letters in "Electrical Data" column headers (see page 2) to complete the model numbers.

Note: above data is for 60 Hz at 950 RPM. For 50 Hz, RPM is 790 with a 17% reduction in performance.

## **BD14 (Belt Driven 14) Series**

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### Standard Features:

#### Air Curtain

- 5 to 10 HP continuous duty Premium Efficiency industrial motors
- Motor shall be inverter rated Totally Enclosed Fan Cooled (TEFC) suitable for continuous heavy-duty operation
- Fire retardant and rust preventative electrostatic polyurethane powder coating
- Standard color is Titanium Silver (TS)
- Adjustable air directional vanes with 40° sweep front to back
- All units are shipped with fully assembled ready for installation
- 12-months parts warranty
- Freight not included
- Proudly made in the USA

#### **Electric Heater Coil and Wiring**

- Electric heaters are U.L. listed for "Zero Clearance" and meets all applicable NEC requirements
- Coils are an open type for rapid temperature rise to be located in the air curtain's intake directly in the air stream.
- Manual reset thermal overload protection provided.
- Heater component panel is mounted on the right side, as standard.
  - Left side mount or remote mounted options available

**Note:** This heater component panel is not the same as a motor control panel (MCP). MCP is recommended to integrate the motors, heater component panel, and door switch.

### Mars Recommended Accessories (see catalog for complete listing):

- Door Limit Switches (§)
- 99-125, Industrial surface mounted magnetic switch (controller required)
  Controllers

□ MCP<sup>‡</sup>-<sup>†</sup>E<sup>\*</sup>, Motor Control Panel, 120V control voltage (<sup>‡</sup> = HP Code, <sup>†</sup> = # of Motors, <sup>\*</sup> = Voltage Code) (§)

**Note:** possible HP codes = E (5 HP), G (7 ½ HP) or H (10 HP)

- MCP-TD, Adjustable time delay, 1sec-100hr (panel required)
- MCP-24V, Low voltage control option (panel required)
- BMS-306, BMS for monitor and control (panel with MCP-24V required) **Note:** Dry contact provided in panel for monitoring motor. 24Vac signal provided from panel for controlling motor.
- (§) = Shipped loose

#### Sound Levels (measured at 10' in a free field):

5 HP Motor Unit = 73 dBA, 7½ Motor Unit = 74 dBA, 10 HP Motor Unit = 75 dBA

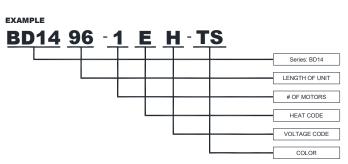
	© Copyright Mars Air Systems, LLC 2014											
	Electrical Data Full Load Amp		Unit Amperage(Voltage Code)				Heater Data					
			460V	575V		3Ø		Temp Rise				
	(FLA)		(H)		(I)	k\	N	(°F)				
	BD1496-1E*-TS		139		111	11	.0	30				
	BD14120-1E*-TS		176		141	14	0	30				
	BD14144-1E*-TS		214		171	17	'0	31				
	BD14168-1E*-TS		245		196	19	5	30				
	BD14192-1E*-TS		283		226	22	5	30				

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Ampacity (MCA) = total FLA x 1.25

Amps per motor (included in values above): 5HP: 6.5A @ 460V/3Ø; 5.3A @ 575V/3Ø 7%HP: 10A @ 460V/3Ø; 8.9A @ 575V/3Ø 10HP: 13A @ 460V/3Ø; 10.3A @ 575V/3Ø





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