

Circuit protection as per NEC by others.

BD22168-1E*-TS

BD22192-1E*-TS

168

192

179

203

177 1/2

201 1/2

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10. Optional remote air curtain unit control panel and door limit switch are field installed and wired by others. The remote air curtain unit control panel is required when a door limit switch is used to automatically turn the air curtain on as door begins to open. Special remote mounted heater component panel (see note 7) is integrated with the optional remote air curtain unit control panel when the two options are selected.

BD22 (Belt Drive) Series

Electric Heated Model Lengths 96" – 192"



atmosphere is everything

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Electric Heated Data Sheet

Applications: Environmental Separation: Max Height 24' / Insect Control: Max Height 22'

BD22 (WindGuard)	Mechanical Data						Lab Data	
Model Number	Nozzle Length (in)	Length (in)	Depth (in)	Height (in)	Motor (hp)	Weight (Ibs)	Max Velocity (fpm)	Max Volume (cfm)
BD2296-1E*-TS	96	107	42	28	10	850	6000	16250
BD22120-1E*-TS	120	131	42	28	15	975	6000	20300
BD22144-1E*-TS	144	155	42	28	15	1100	6000	24350
BD22168-1E*-TS	168	179	42	28	20	1225	6000	28400
BD22192-1E*-TS	192	203	42	28	20	1350	6000	32500

* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Features:

Air Curtain

- 10 to 20 HP Heavy Duty TEFC Motors
- Air curtain has a self-contained cabinet with sufficient strength for fastening from overhead on both ends without intermediate support. Top and rear mounting holes provided (4) 3/4"
- Adjustable air directional nozzle with 40° sweep front to back
- Standard color is Titanium Silver
- Rust preventative electrostatic polyurethane powder coating
- All units are shipped fully assembled ready for installation
- 12-month parts warranty
- Freight Not Included (FOB Factory)
- Proudly Made in the USA

Electric Heater Coil and Wiring

- 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
- Controls are externally mounted, prewired ready for power connection
- A heat ON/OFF switch is unit mounted on external controls

Mars Recommended Accessories (See Submittals for additional details):

Door Limit Switches

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- $\circ~$ 99-125, Industrial surface mounted magnetic switch (controller required) Controllers
- MCP*-†E‡, Motor Control Panel, 120V control voltage (* = HP Code, † = # of Motors, ‡ = Voltage Code)

Note: possible HP Codes = H (10 HP), I (15 HP), J (20 HP)

- $\circ~$ MCP-TD, Adjustable time delay, 1sec-100hr (panel required)
- $\circ~$ MCP-24V, Low voltage control option (panel required)
- $\,\circ\,\,$ BMS-306, BMS for monitor and control (panel required with MCP-24V)

Note: Dry contact provided in panel for monitoring motor. 24Vac signal provided from panel for controlling motor

Sound Levels: (measured at 10' in an open field)

10 HP Motor Unit = 75 dBA, 15 HP Motor Unit = 76 dBA, 20 HP Motor Unit = 77 dBA

Note: Data above is for 60 Hz, 17% reduction in the performance data with 50 Hz.

Electrical Data	(Voltag	Voltage e Code) erage	Heater Data		
(FLA)	460∨ (H)	575v (I)	3Ø kW	Temp Rise (°F)	
BD2296-1E*-TS	195	156	155	30	
BD22120-1E*-TS	245	196	195	30	
BD22144-1E*-TS	289	231	230	30	
BD22168-1E*-TS	339	272	270	30	
BD22192-1E*-TS	390	312	310	30	

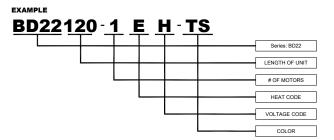
* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Note: For Ampacity Multiply FLA X 1.25

	Motor Amperage				
Model Number	460v/3Ø (H)	575v/3Ø (I)			
BD2296-1E*-TS	14.0	10.3			
BD22120-1E*-TS	20.0	15.6			
BD22144-1E*-TS	20.0	15.6			
BD22168-1E*-TS	25.5	20.2			
BD22192-1E*-TS	25.5	20.2			

* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Note: For ampacity, multiply FLA X 1.25



NOTE: MARS AIR SYSTEMS, LLC reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.