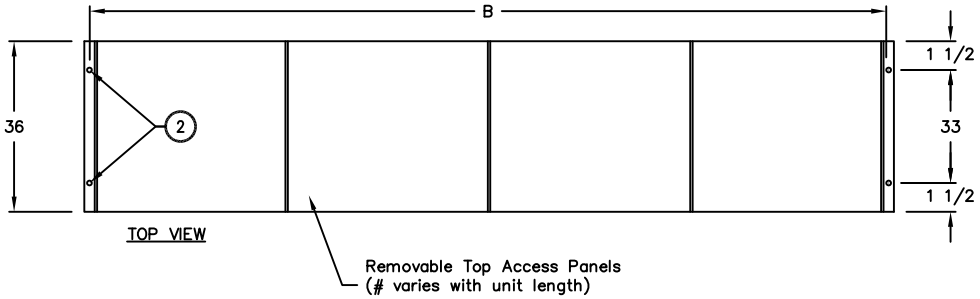
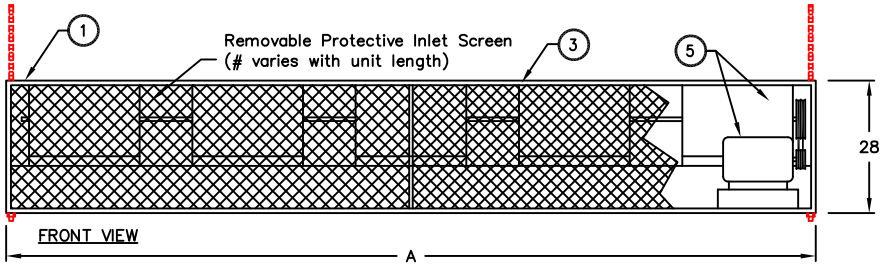
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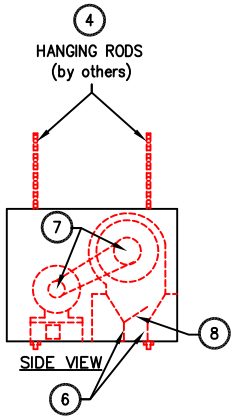
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Unheated Drawing

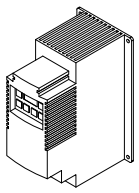
BD22
(Belt Driven 22)
Series







10 Recommended Accessories


Variable Frequency Drive


Control Panels 9


Door Limit Switches

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

MODEL NUMBER	NOZZLE LENGTH (in)	OVERALL LENGTH A (in)	MOUNTING WIDTH B (in)
BD2296-1U*-TS	96	107	105 1/2
BD22120-1U*-TS	120	131	129 1/2
BD22144-1U*-TS	144	155	153 1/2
BD22168-1U*-TS	168	179	177 1/2
BD22192-1U*-TS	192	203	201 1/2

Notes:

1. This product is designed to meet the National Electric Code (NEC).
2. (4) 3/4" mounting holes provided on for overhead mounting provided, (2) on each end.
3. All units have a self contained one piece cabinet, fire retardant and corrosion proof paint lock metal double protected with baked on Titanium Silver color, rust preventative electrostatic polyurethane powder coating.
4. Cabinet is to be mounted from overhead and has sufficient strength for suspension from both ends without intermediate support.
5. High efficiency motor and dynamically balanced forward curved centrifugal blowers.
6. Unit is to be installed such that air flow is unobstructed. Unit has a 5" air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
7. Unit provided with adjustable sheaves and pulleys field adjustable to suit varying conditions. VFD optional.
8. Adjustable perforated volume dampers (2). Capable of reducing air velocity up to 50%.
9. Circuit protection as per NEC by others.
10. Optional motor control panel and door limit switch are field installed and/or wired by others. The door limit switch is to be mounted such that the air curtain turns on as door begins to open. To prevent unit damage, the air curtain must be installed such that the bottom of the air curtain is not below the door header.

BD22 (Belt Driven 22) Series

Unheated

Model Lengths 96” – 192”

atmosphere is everything

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Unheated Data Sheet

Applications: Environmental Separation (up to 22’)

BD22 (WindGuard)	Mechanical Data						Lab Data	
Model Number	Nozzle Length (in)	Length (in)	Depth (in)	Height (in)	Motor (hp)	Weight (lbs)	Max Velocity (fpm)	Max Volume (cfm)
BD2296-1U*-TS	96	107	36	28	10	700	6000	16250
BD22120-1U*-TS	120	131	36	28	15	800	6000	20300
BD22144-1U*-TS	144	155	36	28	15	900	6000	24350
BD22168-1U*-TS	168	179	36	28	20	1000	6000	28400
BD22192-1U*-TS	192	203	36	28	20	1100	6000	32500

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

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

Features:

- 10 to 20 HP continuous duty premium efficiency industrial motors
- Motor shall be inverter rated totally enclosed fan cooled suitable for continuous heavy duty operation
- Sleek self-contained one piece heavy gauge corrosion proof paint lock metal design
- Heavy duty cabinet 16 gauge, 1 ½” square galvanized tube, cased with a minimum 14 gauge galvanized steel panels
- Belt drive unit for heavy duty industrial projects
- Top mounting holes provided (3/4”)
- Cabinet has sufficient strength for fastening to wall on both ends without intermediate support.
- Motor shall be internally mounted in the cabinet to prevent damage and to eliminate the need for a belt guard, complying with OSHA requirements
- Adjustable air discharge nozzle with 40° sweep front to back
- Discharge nozzle shall be 5 inches wide and shall distribute a uniform outlet air velocity pattern without the use of baffles or diverters
- Adjustable perforated volume dampers capable of reducing air velocity up to 50%
- Blower wheel shall be forward curved cold rolled steel, direct coupled, dynamically balanced and furnished complete with blower wheel housing
- Variable pitch sheaves adjustable to suit field conditions
- Standard color is Titanium Silver
- Rust preventative electrostatic polyurethane powder coating
- 18 month parts warranty
- Freight Not Included (FOB Factory)
- Proudly Made in the USA

Electrical Data (FLA)	Unit Voltage (Voltage Code)		
	208/230v (G)	460v (H)	575v (I)
BD2296-1U*-TS	28.0/26.0	14.0	10.3
BD22120-1U*-TS	42.0/40.0	20.0	15.6
BD22144-1U*-TS	42.0/40.0	20.0	15.6
BD22168-1U*-TS	55.0/51.0	25.5	20.2
BD22192-1U*-TS	55.0/51.0	25.5	20.2

* - Use corresponding letters in"Electrical Data" columns to complete the model numbers.
Note: For Ampacity Multiply FLA X 1.25

Options and Accessories: (see Accessories Brochure)

- Motor Control Panels
- VFD controls
- Custom colors and finishes (304SS & 316SS)

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

EXAMPLE

BD22 96 - 1 U H - TS

- BD22 — Series: BD22
- 96 — LENGTH OF UNIT
- 1 — # OF MOTORS
- U — U = UNHEATED
- H — VOLTAGE CODE
- TS — COLOR

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.