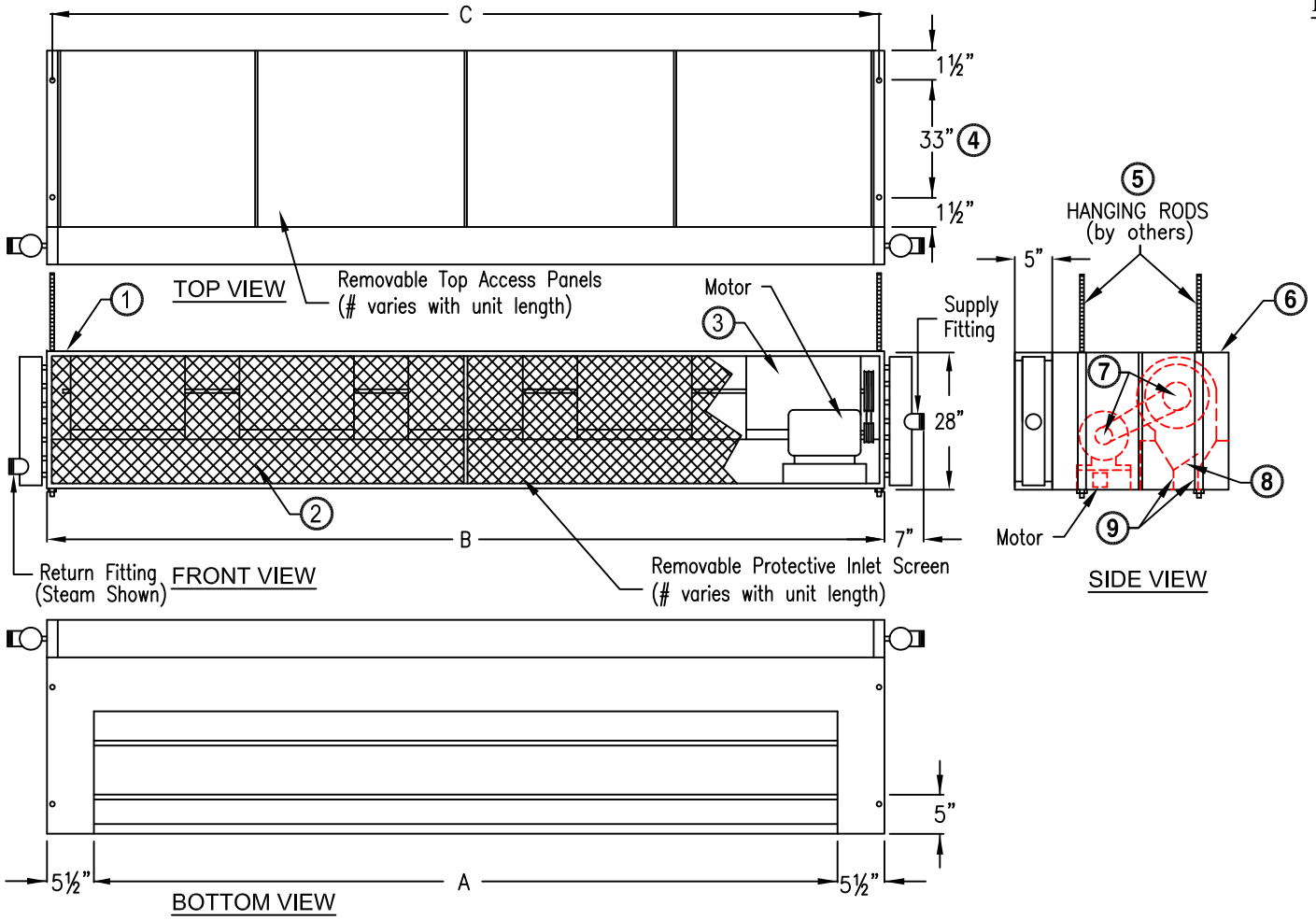
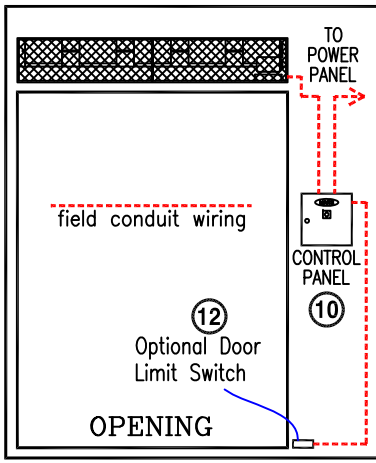


NOTES:

1. This product is designed to comply with the National Electric Code (NEC).
2. Unit includes a Steam/Hot Water Coil. Supply Fittings are Middle Right (Steam) or Bottom Right for (Hot Water). Return is Bottom Left (Steam) or Top Left (Hot Water).
3. High efficiency forward curved centrifugal blowers. (1 per 2 linear feet)
4. (4) 3/4" mounting holes for top mounting, (2) on each end.
5. Cabinet is to be mounted from overhead and has sufficient strength for suspension from both ends without intermediate support.
6. All units have a self contained, one piece cabinet, fire retardant, and corrosion proof paint lock metal, double protected with baked on gray color rust proof electrostatic polyurethane powder coating.
7. Unit provided with adjustable sheaves and pulleys, field adjustable to suit varying conditions.
8. Adjustable perforated volume dampers (2). Capable of reducing air velocity up to 50%.
9. Unit is to be installed such that air flow is not obstructed. Air discharge nozzle is adjustable with 40° sweep front to back.
10. Optional motor control panel. Overloads are factory preset. Standard procedure is to ship panel loose for remote mount.
11. Circuit protection as per N.E.C. by others.
12. Optional door limit switch is field installed and is to be wired to control panel. Switch to be mounted such that air curtain turns on as door begins to open.
13. ∗When specifying one row design, use "Y" for steam and "W" for hot water. For two row design, use "X"for hot water and consult factory for steam. See code chart on second page.

MODEL NUMBER (13)	NOZZLE WIDTH A	OVERALL WIDTH B	MOUNTING WIDTH C
BD26 96–1*	96"	107"	105 1/2"
BD26 120–1*	120"	131"	129 1/2"
BD26 144–1*	144"	155"	153 1/2"
BD26 168–1*	168"	179"	177 1/2"
BD26 192–1*	192"	203"	201 1/2"



TYPICAL INSTALLATION

1. Connect supply voltage from power panel to control panel. (11)
2. Connect wires from motor leads in junction box to terminals in panel per print.
3. Connect wires from door limit switch to terminals in panel per print. (optional)
4. Check rotation of motors and switch leads if necessary to correct.

PROJECT	Model No.:
	Drawing No.:
LOCATION	Date
ARCHITECT	Sheet of
	Drawn By:
ENGINEER	Checked By:

MARS®
AIR SYSTEMS
14716 S. BROADWAY • GARDENA, CA 90248 • USA
TEL:(310) 532-1555 • (800) 421-1266 • FAX:(310) 324-3030
Web Site: www.marsair.com • E-mail:info@marsair.com

BD-26 WindGuard® BELT DRIVE INDUSTRIAL STEAM / HOT WATER MODELS

JOB: **ARCHITECT/ENGINEER:** **DRWG.:** _____

CONTRACTOR: **SHEET** ____ **of** ____ **DATE:** _____

MARK	STANDARD STEAM HOT WATER HEATED MODEL NUMBER ①	NO. REQ'D	LENGTH (INCHES)	WEIGHT (LBS)	MOTOR FAN DATA: MOTOR HP @ 1750 RPM**	VOLTS & PHASE	FLA* THREE PHASE 208V/230V	FLA* THREE PHASE 460V	MAX FPM** @ NOZZLE	MAX CFM** @ NOZZLE	HEATING CAPACITY OF COILS: STEAM ② HEAT MBH ONE ROW	STEAM ② HEAT MBH TWO ROW	STEAM ② TEMP RISE °F ONE ROW	STEAM ② TEMP RISE °F TWO ROW	HOT WATER ② HEAT MBH ONE ROW	HOT WATER ② HEAT MBH TWO ROW	HOT WATER ② TEMP RISE °F ONE ROW	HOT WATER ② TEMP RISE °F TWO ROW	dBA Measured 10 ft. from Nozzle	REMARKS
	BD26 96–1*		107	950	1 @ 15		42.0/40.0	20.0	6500	18700	789	1120	39	55	482	629	24	31	76	
	BD26 120–1*		131	1100	1 @ 20		55.0/51.0	25.5	6500	23400	865	1273	34	50	580	751	23	30	77	
	BD26 144–1*		155	1250	1 @ 25		65.0/60.0	30.0	6500	29200	1048	1549	33	49	681	899	22	28	78	
	BD26 168–1*		179	1400	1 @ 25		65.0/60.0	30.0	6500	32700	1185	1754	33	49	758	967	21	27	78	
	BD26 192–1*		203	1550	1 @ 30		78.0/71.0	35.5	6500	37400	1280	1874	36	43	840	1063	21	26	79	

NOTES: ① * When specifying one row design, use "Y" for steam and "W" for hot water. For two row design, use "X" for hot water and consult factory for steam. See code chart below.
② MBH and air temperature rise based on 70°F ambient air and (5 psi steam) or (200°F hot water).

*** - For Ampacity Multiply FLA X 1.25**

**** - 17% Reduction In Performance on units with 50Hz.**

EQUIPMENT SPECIFICATIONS – Standard Features

GENERAL

Air curtain shall be a Mars® Air Doors brand air curtain: Type WindGuard® Belt Drive Industrial Steam/Hot Water Heated Models.

APPROVALS

Air curtains, excluding coils, shall meet the requirements of the National Electric Code (NEC).

CABINET

Cabinets shall be self contained one piece housing with sufficient strength for fastening to wall on both ends without intermediate support. Cabinet constructed of fire retardant, corrosion proof paint lock metal and double protected with gray baked rust preventative electrostatic polyurethane powder coating. Cabinet to have mechanically field adjustable variable air intake louver assembly capable of reducing outlet air velocity up to 50% with louvers in the totally closed position. Discharge air outlet nozzle shall be wedge shape containing adjustable air directional vanes with a 40° sweep front to back. Motor/fan assembly to be easily accessible for maintenance.

COIL CONSTRUCTION FOR BOTH STEAM & HOT WATER

Single Row Steam Distributing Coils shall be constructed of .035" heavy tube wall x 1" OD seamless copper tubing with die formed aluminum fins. Tubes shall be arranged in a staggered pattern in the direction of air flow.

Double Row Steam Distributing Coils (Dual Feed) shall be constructed of .035" heavy tube wall x 5/8" OD seamless copper tubing with die formed aluminum fins. Tubes shall be arranged in a staggered pattern in the direction of air flow.

Hot Water Coils One & Two Row shall be constructed of .025" heavy tube wall x 5/8" OD seamless copper tubing with die formed aluminum fins. Tubes shall be arranged in a staggered pattern in the direction of air flow.

All casings shall not be less than 16 gauge galvanized steel with tube holes formed with extruded collars. Tube shall be mechanically expanded into fins to ensure a uniform pressure bond throughout the entire length of each tube. Manifolds shall be of heavy seamless copper construction. All joints shall be brazed with high temperature silver brazing alloy. Fittings shall be of wrought copper or similar construction such that the entire fluid circuit shall be of compatible nonferrous materials. Manifold shall be fitted with 1/4" vent or drain fittings. Supply fitting is on the right side of coil. Return fitting is on the left side.

MOTOR & BLOWER HOUSING

Motors shall be a standard totally enclosed fan cooled type suitable for continuous heavy duty operation Motor shall be a belt drive type capable of maintaining and adjusting outlet air velocity through the use of an adjustable motor base, sheaves, and pulleys. Motor shall be internally mounted in the air curtain cabinet to prevent damage and to eliminate the need of a belt guard, complying with OSHA requirements. Fixed pulley mechanism and replacement of motor belts. Blower wheel shall be forward curved cold rolled steel, direct coupled, dynamically balanced and furnished with blower wheel housing. Blower wheels shall not exceed 1500 RPM.

ELECTRICAL WIRING

A 4"x4" watertight junction box shall be mounted on motor end unless otherwise specified.

GUARANTEE

Shall be 18 months on all parts.

ACCESSORIES

Refer to the optional features and accessories page.

EXAMPLE

BD26 168-1 X G-TS

- BD26 — SERIES-BD
- 168 — LENGTH OF UNIT
- 1 — # OF MOTORS
- X — X = 2 ROW HOT WATER
- G — VOLTAGE CODE
- TS — OPTIONAL COLOR

HEATING OPTION	CODE
1 ROW HOT WATER	W
2 ROW HOT WATER	X
1 ROW STEAM	Y
2 ROW STEAM	CONSULT FACTORY

SIZE	VOLTAGE	CODE
96"-192"	208-230/3/60	G
96"-192"	460/3/60	H
96"-192"	575/3/60	I

COLOR	CODE
OBSIDIAN BLACK	OB
TITANIUM SILVER	TS
PEARL WHITE	PW
SPARTAN BRONZE	SB
BATTLESHIP GRAY	BG

MADE WITH PRIDE IN THE U.S.A.

BD-26 WindGuard® BELT DRIVE INDUSTRIAL STEAM / HOT WATER MODELS