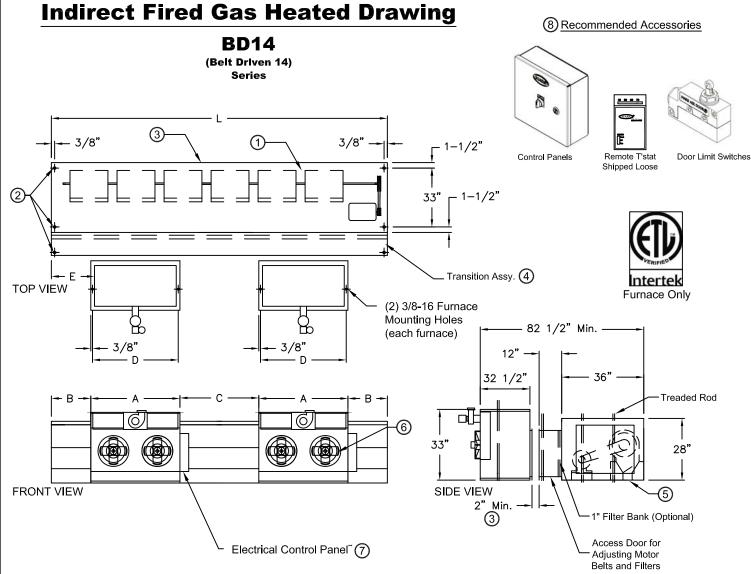


14716 S. Broadway Gardena, CA 90248 US

MODEL NO. BD14 Series

DRAWING NO BD14IG-F

	PROJECT	OPTIONS/ITEMS		
	TITLE			
	COMMENTS		DATE 4/21/15	PAGE
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Note: MARS 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.

Please see Furnace Submittal for Furnace Data and Dimension Removal of Furnace may be required for servicing and trouble shooting.

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

MODEL NUMBER	Overall Width (in) L	Furnace Width (in) A	End Space (in) B	Center Space (In) C	Mounting Distance (In) D	End Dim (in) E	Furnace Size (MBH)
BD1496-1I*-TS	107	32 3/4	10 3/8	20 3/4	30 5/8	11 3/4	2 @ 250
BD14120-1I*-TS	131	50 3/4	7 3/8	14 3/4	48 5/8	8 3/4	2 @ 350
BD14144-1I*-TS	155	50 3/4	13 3/8	26 3/4	48 5/8	14 3/4	2 @ 400
BD14168-1I*-TS	179	50 3/4	ı	12 1/2	48 5/8	2 1/4	3 @ 350
BD14192-1I*-TS	203	50 3/4	8 11/24	16 11/12	48 5/8	9 5/6	3 @ 400

#### Notes:

- The Air Curtain is designed to comply with the National Electric Code (NEC) and the Furnaces are ETL verified to be 83% efficient with 3/8 overhead mounting hardware for overhead mounting.
- 2. 7/8" mounting holes (4) provided, (2) on each end of air curtain and 5/8" mounting holes (2) provided, (1) on each end of transition assembly.
- Cabinet has sufficient strength for fastening from overhead on both ends without
  intermediate support. Furnace must be mounted at least 2" away from the transition.
  Transition pieces are provided with pilot holes for easy field assembly and hardware
  is included.
- Factory assembled, powder coated Transition shipped loose for field installation. Units 10' and longer, use (2) transitions side by side.
- 5. Unit is to be installed such that air flow is unobstructed. Air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
- Furnaces with impellers have positive pressure, 20 gauge aluminized tubular heat exchanger with in-shot burner technology, power vented exhaust (horizontal or vertical), single stage gas valve, direct spark ignition and certified for Category I and III venting.
- 7. Circuit protection as per NEC by others.
- 8. 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 mounting brackets must be installed such that the bottom of the air curtain is not below the door header.

# BD14 (Belt Driven 14) Series

Indirect Fired Gas Heated Model Lengths 96" - 192"



#### atmosphere is everything

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## Indirect Fired Gas Heated Data Sheet

### Applications: Environmental Separation - Interior Door up to 18' and Exterior Door up to 14'

BD14 (WindGuard)	Mechanical Data							Lab Data	
Model Number	Nozzle Length (in)	Length (in)	Depth (in)	Height (in)	Motor (hp)	Total Weight*** (lbs)	Furnace Weight (lbs)	Max Velocity (fpm)	Max Volume (cfm)
BD1496-1I*-TS	96	107	82 1/2	33	5	1098	2 @ 211 ea	4500	11700
BD14120-1I*-TS	120	131	82 1/2	33	5	1435	2 @ 321 ea	4500	14650
BD14144-1I*-TS	144	155	82 1/2	33	7 1/2	1580	2 @ 335 ea	4500	17600
BD14168-1I*-TS	168	179	82 1/2	33	7 1/2	1990	3 @ 321 ea	4500	20500
BD14192-1I*-TS	192	203	82 1/2	33	10	2149	3 @ 335 ea	4500	23450

<sup>\* -</sup> 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.									
	Uni (Vol	Electrical Data (FLA) Furnace							
Electrical Data (FLA)	208/230v (G)	460v (H)	575v (I)	115V					
BD1496-1I*-TS	14.2/13.0	6.5	5.3	16.0					
BD14120-1I*-TS	14.2/14.0	6.5	5.3	27.0					
BD14144-1I*-TS	21.6/20.0	10.0	8.9	27.0					
BD14168-1I*-TS	21.6/20.0	10.0	8.9	40.5					
BD14192-1I*-TS	28.0/26.0	13.0	10.3	40.5					

<sup>-</sup> Use corresponding letters in "Electrical Data" columns to complete the

Note: For Ampacity Multiply FLA X 1.25

#### Features:

Air Curtain and Transition

- 5 to 10 HP continuous duty premium efficiency industrial TEFC motors
- Air curtain is a self-contained one piece heavy gauge corrosion proof paint lock metal design
- Air curtain is constructed to conform to UL 507 (US) and CSA 22.2 (Canada) Standards
- Top mounting holes provided
- Cabinet has sufficient strength for fastening from overhead on both ends without intermediate
- Adjustable air directional nozzle with 40° sweep front to back
- Transition is shipped fully assembled and attached to unit
- Standard color is Titanium Silver
- Rust preventative electrostatic polyurethane powder coating
- 12 month parts warranty
- Freight Not Included (FOB Factory)
- Proudly Made in the USA

#### **Indirect Fired Gas Furnaces**

- ETL verified to be 83% efficient
- In-shot burner technology
- Aluminized tubular heat exchanger (20 gauge)
- Positive pressure 120V impellers (separate 120V, 1Ø power req'd)
- Power vented exhaust
- Single stage gas valve
- Standard direct spark ignition
- Certified for Category I and III Venting
- Natural gas
- Factory test fired
- Overhead mounting hardware provided (2 per furnace)

#### Options and Accessories: (see Accessories Brochure)

- Motor Control Panels with remote mounted t'stat
- 409 and 321 stainless steel heat exchangers
- \* Separated combustion
- Two stage and modulating gas valves
- Custom housing and transition colors and finishes (304SS, 316SS)

#### Indirect Fired Gas Data Input MBH Total emp Ris Model Numbe Output (NPT) CON Furnace MBH BD1496-11\*-TS 250 415 1/2" BD14120-1I\*-T 350 581 37 6" Rnd 3/4" BD14144-1I\*-T 400 664 35 6" Rnd 3/4" BD14168-1I\*-T 350 872 39 6" Rnd 3/4" BD14192-1I\*-400

## Series: BELT DRIVE LENGTH OF UNIT # OF MOTORS I = INDIRECT FIRED GAS VOLTAGE CODE COLOR



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

5 HP Motor Unit = 73 dBA, 7 ½ HP Motor Unit = 74 dBA, 10 HP Motor Unit = 75 dBA

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<sup>\*\*\* -</sup> Total Weight includes air curtain, transition and furnace weights