

BD14 (Belt Driven 14) Series

Indirect Fired Gas Heated
Model Lengths 96" – 192"



atmosphere is everything

14716 S. BROADWAY, GARDENA, CA 90248 • Ph: (310) 532-1555 Fax: (310) 532-3030 • www.marsair.com
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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

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

*** - Total Weight includes air curtain, transition and furnace weights

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

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 support
- 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
- LP gas
- Custom housing and transition colors and finishes (304SS, 316SS)

Electrical Data (FLA)	Unit Voltage (Voltage Code)			Electrical Data (FLA) Furnace
	208/230v (G)	460v (H)	575v (I)	
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

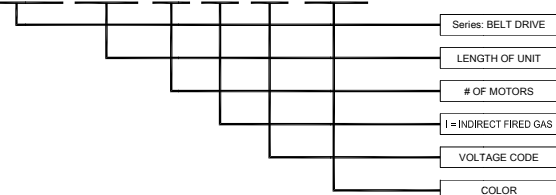
* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Note: For Ampacity Multiply FLA X 1.25

Indirect Fired Gas Data						
Model Number	# of Furnaces	Input MBH per Furnace	Total Output MBH	Temp Rise (°F)	Flue Size	Natural Gas (NPT) CONN
BD1496-1I'-TS	2	250	415	33	5" Rnd	1/2"
BD14120-1I'-TS	2	350	581	37	6" Rnd	3/4"
BD14144-1I'-TS	2	400	664	35	6" Rnd	3/4"
BD14168-1I'-TS	3	350	872	39	6" Rnd	3/4"
BD14192-1I'-TS	3	400	996	39	6" Rnd	3/4"

EXAMPLE

BD14 144 - 1 I H - TS



Intertek

Furnace Only

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

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.