

BDVA Chilled Water Air Handling Units 6,000-20,000 CFM (2.83-9.44CMS) 238-660 MBH (70-247 kW)







Presenting the BD Series compact air handlers...

A system engineered with your costs in mind, the BD Series of compact air handlers offer:-

1.Easy and versatile installation	 Small footprint to save space. Fully factory packaged to quicken installation (filters, drives, motors)
2.Built to last	 Attractive, high gloss durable finish on baked polyester powder painted GI panels removes corrosion concerns.
3.Wide capacity range	Meets most application needs with a CFM range of 6,000-20,000 CFM covering 5 modules.
4.Flexible fan arrangement	 BDVAs offer added flexibility of fan arrangement for horizontal or vertical discharge. Flush mounted to walls save expensive floorspace.

UNIT CASING

The unit framework shall be GI steel. Exterior panels shall be fabricated from galvanized steel. All panels shall be cleaned and coated with a baked polyester powder paint. The base frame shall be welded galvanized steel.

All panels in contact with air stream shall be insulated with Polyethylene foam. All panels shall be removable to ensure proper access for servicing and maintenance. Removable panels shall be secured with bolts.

FOOTPRINT

To save building space all models shall be placed against wall with return air from the front and general service from the sides.

COOLING COIL

The cooling coil shall be 9.5 mm (3/8") OD (Except for BDVA150&180 cooling coil shall be 12.7 mm (1/2") OD) internally grooved, seamless copper tubes mechanically expanded into aluminium corrugated fins for BDVA.

6 - Row coil option is available for higher cooling capacity model.

Coils shall be leak tested at 380 psig. The drain pan shall be fabricated of galvanized steel, insulated to prevent any condensation, and baked polyester powder paint to prevent corrosion.

FILTER

1 inch or 2 inch washable filters shall be provided with side loading filter for ducted return.

FAN

Supply fans shall be of double width double inlet forward curved centrifugal fans statically and dynamically balanced. The drive components shall include fixed pitch drives and multiple V-belts. The drives shall be factory run tested and balanced. The supply fan motor shall be totally enclosed fan cooled. Fan and motor bearings shall be permanently lubricated.

OPTIONAL ACCESSORIES: STARTERS

Unit mounted DOL fan motor starters are available as an optional feature.

HI-STATIC MOTOR

Optional factory mounted oversized fan motor for high external static pressure application.

RETURNS AIR GRILLES

Return air grilles shall be provided for vertical or horizontal discharge, horizontal return application. Grilles shall be installed in place of the front lower side panels.

STAINLESS STEEL DRAIN PAN

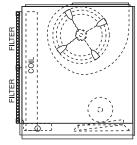
Stainless steel drain pan shall be available as an optional feature for BDVA.

DISCHARGE PLENUM AND GRILLES

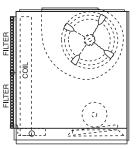
Discharge plenum shall be available for vertical free-blow discharge applications. It shall be constructed of galvanized steel, finished with baked polyester powder paint to match the unit casing. Grilles shall be satin finished aluminium and have double-deflection adjustable louvers. Fan motor tip output will be specially selected to property mateh with Free Blow Application.

(This option is available for BDVA075 & BDVA090 only)

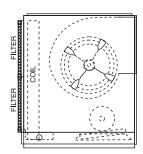
BDVA-Flexible Fan Arrangement



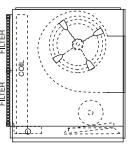
Arrangement 1



Arrangement 2

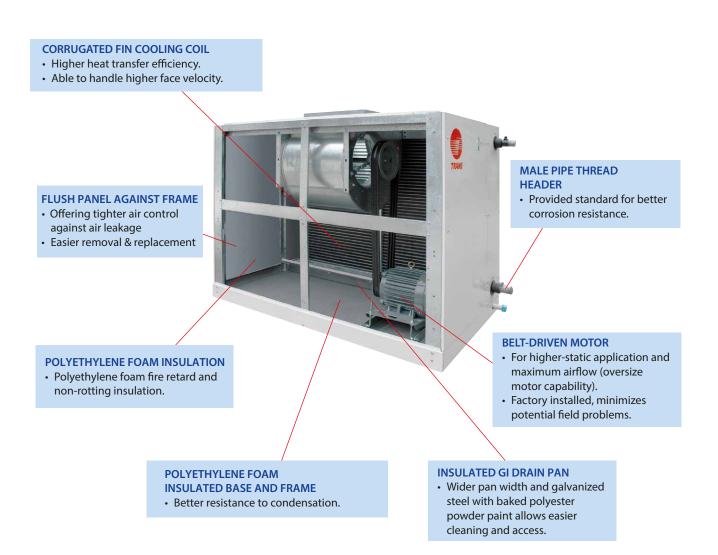


Arrangement 3



Arrangement 4





STANDARD & FEATURES

FEATURES	BENEFITS
Compact Air Handler	Small equipment room space requirements.
	Greater flexibility in positioning the unit.
	More usable (rental/leasing) space.
Corrugated Fin Cooling Coil	Higher heat transfer efficiency.
Blue Fin Cooling Coil	To further enhance protection against moisture carry-over and corrosion.
(Optional in BCVA)	
Broad filter selection	BDVA 075-180 provide 1 inch or 2 inch with side loading filter for ducted return.
	Broad filter selection for application flexibility and improved indoor air quality.
 Powder paint in attractive color 	Uniform coverage, no liquid runs.
 Baked polyester power paint is applied 	Highly corrosion resistant gloss finish.
on treated galvanized steel.	
 Optional Hi-static motors and 	Eliminates need for field modification.
drives from factory	Assures proper airflow.
	Increased application flexibility.
High CFM/TON	Better comfort, better air quality.
 Permanently lubricated ball bearings 	Longer lasting
	No maintenance

	BI	380-	-			0								Cent	Belt		,					10		
	BDVA090		9,240	280			3	12	56.0	9.1	1-1/2	l				1	10,600	7,000		1	7.5	10.0/15.0	1	12.0
	BDVA075		7,760	238			3	12	47.5	9.3	1-1/2	1				1	8,900	5,900		1	5.5	7.5/10.0	1	8.56
		V/ph/Hz	cfm	MBH				FPI			in	. <u>c</u>					cfm	cfm			STD	Option		A
Standard Product Specifications	Indoor unit	Power Supply	Nominal Airflow	Standard Cooling Capacity		Tube & Header Material	Row	Fin Per Inch	Water Flow Rate	Water Pressure Drop	Water intel/outtel Connection	Drain Connection Size		Type	Fixed Drive Type	Qty	Maximum Airflow	Minimum Airflow	Type	Qty	Matar Output Power		Number of Speed	RLA
Standard Prod	Models	Electrical Data	Performance Data		Cooling Coil	Standard Coil							Fan & Motor	Fan					Motor					
	r R	A	N/£	0																	S ANI 200	SGS		
เทรน (ประเทศไทย) เลขที่ 1126/2 ชั้น 30 อาคารวานิช 2 ถนนเพชรบุรีดัดใหม [่] แขวงมักกะสัน เขตราชเทวี กรุงเทพฯ 10400 © 0-2761-1111 ©2025 Trane. All Rights Reserved. BDVA-SLB001-E4 April 18, 2025																								

Note: 1. Cooling capacity is rated at 80 °FDB/67 °FWB at nominal airflow listed, entering water temperature at 45 °F and water temperature rise of 10 °F.

353 402

ĝ

Uncrated - Net Crated

ĝ

1,980x2,900x1,520 1,777x2,596x1,275

1,900x2,900x1,520 1,653x2,596x1,275

1,780x2,390x1,290 1,520x2,088x1,040

1,650x2,100x1,290 1,372x1,808x1,040

1,500x2,100x1,290 1,219x1,808x1,040

шш шш

Uncrated - Net $(H \times W \times D)$ Crated $(H \times W \times D)$

22.0

15.2

12.0

-

, -

15.0/20.0

10.0/15.0

7.5

10.0

.

749

832

768 685

543 487

470 421

21,800

18,310

13,800

2

9,100

TEFC

2

ntrifugal FC t and Pulley 12,060

2

14,400

15.0 20.0

-

2. Product design and specification are subject to change without notice.



Unit Dimension and Weight

Dimensions

Weight





BDVA180

BDVA150

0-415/3/50

12,120

380

Copper

BDVA120

18,080

15,130

570

660

131.9

113.8

76.0 15.8

12 ω

12 4

8.1 2.0

1-1/2

.

8.9 2.0

12

4