



DWVA

Chilled Water Air Handling Units

7,700-18,000 CFM

238-660 MBH

TRANE
TECHNOLOGIES



Presenting the DWVA Series, compact double skin air handlers

Easy and versatile installation	<ul style="list-style-type: none"> • Small footprint to save space. • Fully factory packaged to quicken installation (filters, drives, motors)
Built to last	Attractive double-wall panel with baked polyester powder painted steel sheet on exterior wall and Galvanized steel sheet on the inner surface.
Wide capacity range	Meets most application's needs with a range of 6,000-20,000 CFM covering 5 modules.
Flexible fan arrangement	<ul style="list-style-type: none"> • DWVA offers added flexibility of fan arrangement for horizontal or vertical discharge. • Flush mounted to walls save expensive floor space.

Unit Casing

The unit framework casing shall be constructed of 25mm double-wall panels injected with Polyurethane foam to provide a rigid, sturdy and easily cleaned enclosure. This double-wall construction keeps the insulation out of the air stream and contributes to improved indoor air quality. The panels shall be constructed of baked Polyester powder painted steel sheet on exterior wall and Galvanized sheet on the inner surface that contacted with the air stream.

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 internally grooved, seamless copper tubes mechanically expanded into aluminium corrugated fins for DWVA.

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.

Filters

1-inch, washable aluminium filter shall be provided with side loading filter for duct return.

Fan

Supply fans shall be 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 drive 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:

Hi-static Motor

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

Stainless Steel Drain Pan

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

DISCHARGE PLENUM & GRILLES

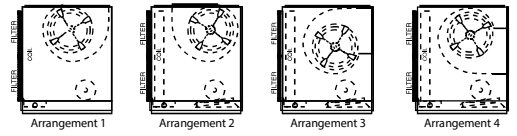
Discharge plenum shall be available for vertical free-below discharge applications. It shall be constructed of Galvanized steel, finished with baked Polyester powder paint to match the unit casing. Grilles shall be satin finished aluminium and double-deflection adjustable louvers. Fan motor hp output will be specially selected to properly match with Free Blow deflection adjustable louvers.

(This option is available for DWVA075&DWVA090 only)

Trane AHU Starter Panel

Particularly controls the HVAC system. Integrated with motor protection system. Reliable according to UL/IEC/NEMA standard and easy to install.

DWVA-Flexible Fan Arrangement



Features and Benefits

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. • Blue Fin Cooling Coil (Optional).	• Higher heat transfer efficiency. • To further enhance protection against moisture carry-over and mild corrosion.
• Broad filter selection.	• DWVA075-180 provided with 1 inch with side loading filter suitable for ducted return. • Broad filter selection for application flexibility and improved indoor air quality.
• Powder paint color. • Baked polyester powder paint is applied on treated Galvanized steel.	• Uniform coverage-no liquid runs. • Highly corrosion resistant gloss finish.
• Hi-static motors and drives from factory (Optional).	• Eliminates need for field modification. • Assures proper airflow. • Increased application flexibility.
• High CFM/Ton.	• Better comfort, better air quality.
• Permanently lubricated ball bearings.	• Longer lasting. • No maintenance.

Product Specifications

Model	Indoor Unit		DWVA075	DWVA090	DWVA120	DWVA150	DWVA180
Electrical Data	Power Supply	V/Ph/Hz	380 - 415/3/50				
Performance Data	Nominal Airflow	cfm	7,760	9,240	12,120	15,130	18,080
	Standard Cooling Capacity	MBH	238	280	380	570	660
Cooling Coil							
Standard Coil	Tube and Header Material		Copper				
	Row		3	3	3	4	4
	Fin per inches	FPI	12	12	12	12	12
	Water Flow Rate		47.5	56.0	76.0	113.8	131.9
	Water Pressure Drop		9.3	9.1	15.8	8.1	8.9
	Water inlet/outlet Connection	in	1-1/2	1-1/2	1-1/2	2.0	2.0
Drain Connection Size	in	1	1	1	1	1	
Fan and Motor							
Fan	Type		Centrifugal FC				
	Fixed Drive Type		Belt and Pulley				
	Quantity		1	1	2	2	2
	Maximum Airflow	cfm	8,900	10,600	13,800	18,310	21,800
Minimum Airflow	cfm	5,900	7,000	9,100	12,060	14,400	
Motor	Type		TEFC				
	Quantity		1	1	1	1	1
	Motor Output HP	STD	5.5	7.5	7.5	10.0	15.0
		Option	7.5/10.0	10.0/15.0	10.0/15.0	15.0/20.0	20.0
	Number of Speed		1	1	1	1	1
RLA	A	8.56	12.0	12.0	15.2	22.0	
Unit Dimension and Weight							
Dimension	Crated (H x W x D)	mm	1,500x2,100x1,290	1,650x2,100x1,290	1,780x2,390x1,290	1,900x2,900x1,520	1,980x2,900x1,520
	Uncrated - Net (H x W x D)	mm	1,219x1,808x1,040	1,372x1,808x1,040	1,520x2,088x1,040	1,653x2,596x1,275	1,777x2,596x1,275
Weight	Crated	kg	402	470	543	768	832
	Uncrated - Net	kg	353	421	487	685	749

Note: 1. Cooling capacity is rated at 80° FWD at nominal airflow listed, entering water temperature at 45°F and water temperature rise of 10° F.
2. Product design and specification are subjected to change without notice.



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