Model In	Indoor Unit		DWVA075	DWVA090	DWVA120	DWVA150	DWVA180
Electrical Data	Power Supply	V/Ph/Hz			380 - 415/3/50		
Performance Data	Nomial 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	З	4	4
	Fin per Inche	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 intel/outtel Connection	Ē	1-1/2	1-1/2	1-1/2	2.0	2.0
	Drain Connection Size	i	1	1	-	-	-
Fan and Motor							
Fan	Type				Centrifugal FC		
	Fixed Drive Type				Belt and Pulley		
	Quantity		-	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
	Motor HP	STD	5.0	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	-
	RLA/LRA	A	8.0/63.0	12.0/79.0	12.0/79.0	15.2/110.0	22.0/153.0
Unit Dimension and Weight	d Weight						
Dimension	Crated (H x W x D)	mm	1,620x2,200x1,440	1,770x2,200x1,440	1,920x2,490x1,440	2,130x3,000x1,680	` `
	Uncrated - Net (H x W x D)	mm	1,320x1,900x1,140	1,470x1,900x1,140	1,620x2,190x1,140	1,830x2,700x1,375	1,880x2,700x1,375
Weight	Crated	kg	440	520	600	840	920
5	Uncrated - Net	kg	400	470	540	760	830
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.	8/67°FWB at no	minal airflow listed	', entering water tem	perature at 45°F an	d water temperatur	e rise of 10°F.



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Trane Thailand

30th-31st Floor, Vanit Building II, New Petchburi Road, Makkasan, Rachthevee, Bangkok 10400

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SGS

DWVA

Chilled Water Double-wall Air Handling Unit 6,000 - 20,000 CFM 50 Hz





Presenting the DWVA Series, the compact air handlers...

A high performance system engineered with your costs in mind, DW Series of compact air handlers offer

Hasy and versatile installation	 Small footprint to save space Fully factory packaged to quicken installation (filters, drives, motors) 	
Ruilt to last	Attractive double-wall panel with baked polyester powder painted steel sheet on exterior wall and ganvalized steel sheet on the innner surface.	
Wide capacity range	Meets most application's needs with a range of 6,000-20,000 CFM covering 5 modules	
Hexible fan arrangement	 DWVA offers added flexibility of fan arrangement for horizontal or vertical discharge. Flush mounted to walls save expensive floorspace. 	

Unit Casing

The unit framework casing shall be constructed of 25 mm 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 9.5 mm OD, 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 compenents 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:

AHU Starters

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

Hi-static Motor

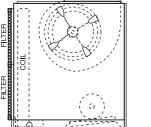
Optional factory mounted oversized fan motor for high external static pressure application.

Stainless Steel Drain Pan

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

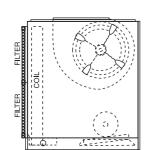
FOR DWVA075 & DWVA090 ONLY DISCHARGE PLENUM & GRILLES

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.



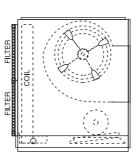
Arrangement 1

DWVA-Flexible Fan Arrangement



Arrangement 2

Arrangement 3



Arrangement 4



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	Higher heat transfer efficiency.
 Blue Fin Cooling Coil (Optional) 	• To further enhance protection against moisture carry-over
	and corrosion.
Broad filter selection	 DWVA075-180 provided with 1 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 powder paint is applied on treated 	 Highly corrosion resistant gloss finish.
galvanized steel.	
• 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.

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