



# TDA Series

AHU Double Skin



**Tasaki**  
AHU Double Skin

# COMPANY PROFILE

Bitwise group of companies were established in 1988 in samutprakarn province by a determined team of engineers who desired to manufacture international standard air conditioner to cater to the needs of OEM and ODM customers.

Some years after very well success in Thailand, the company expanded its factory line to China. These companies are known as Shanghai Bitwise Electric Motor & Appliances, Yongwise (Shanghai) Molding Co., Ltd. And Shanghai Bitwise Freezing Equipment Co., Ltd.

Today, Bitwise Group has its production area of 120,000 square meters, the R&D team, highly qualified and experienced engineers, technicians, over 1,000 workers. The company has successfully developed a complete range of air conditioner products from 1,000 to 2,000,000 Btu/Hr, evaporator and condenser coils for air conditioners, as well as for the frozen food industry, evaporative air cooler and water heater, IQF freezer etc.

Apart from air conditioner industry, Bitwise Group also manufactures various types of different products such as resin packed motors, PCBA, LED bulbs, mould manufacturing and plastic injections, public telephone booths entrusted by government telecommunication authorities.

With over 20 years experience in the air conditioner industry, through all the international standards it had achieved, Bitwise Group has demonstrated that it will continue to develop further innovation and technologies by its own R&D teams. As a result, it is one of the main ODM players in this field and will continue to constantly grow together with its customers.



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## SPECIFICATIONS STANDARD



MODEL	DIMENSION		AIR FLOW	Coil Face Area	Coil Face Velocity
	Width(mm)	Height(mm)	(CFM)	(m2)	(m/s)
TDA020-50	1030	930	1,900	0.37	2.41
TDA030-50	1335	930	2,900	0.56	2.45
TDA040-50	1640	930	3,900	0.74	2.47
TDA060-50	1640	1235	5,900	1.12	2.49
TDA080-50	1640	1540	7,900	1.49	2.50
TDA100-50	1945	1540	9,800	1.86	2.49
TDA120-50	2250	1540	11,800	2.23	2.49
TDA150-50	2250	1845	14,800	2.79	2.50
TDA180-50	2250	2150	17,700	3.35	2.49
TDA210-50	2555	2150	20,700	3.91	2.50
TDA240-50	2860	2150	23,700	4.47	2.50
TDA280-50	2860	2455	27,600	5.21	2.50
TDA320-50	2860	2760	31,600	5.95	2.50
TDA360-50	3165	2760	35,500	6.70	2.50
TDA400-50	3470	2760	39,500	7.44	2.50
TDA440-50	3775	2760	43,400	8.19	2.50
TDA480-50	4080	2760	47,400	8.93	2.50

### Dimension Calculation

External Dimension AHU Width : Width

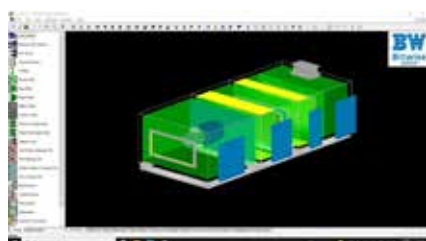
External Dimension AHU Height : Height + Base AHU

Example : Model TDA100-50

External Dimension AHU Width : 1945 mm.

External Dimension AHU Height : 1540 + 100 = 1640 mm.

### COMPUTER PROGRAM



### EUROVENT TEST REPORT

Galvanized/Stainless Steel

Thermal Transmittance	T2/T1
Thermal Bridging of the Casing	TB1/TB2
Mechanical Strength of Casing	D1/D1
Casing Air Leakage	
@-400 Pa	L1/L1
@+700 Pa	L1/L2
Filter Bypass Leakage	F9/F9



## FAN SECTION

Some application, such as cleanroom need to provide clean air. Plenum fan can support about it. Also, plenum fan contribute to lower overall system pressure drop, thereby reducing energy consumption and can use it with inverter control



## MOTOR

Normally, we provide 4 poles, 380V-415V/3Ph/50Hz with IP55 class F to standard models and also we have to option motor as

1. 2 & 6 poles motor
2. Economic efficiency motor.
3. Hi efficiency motor
4. 50Hz motor

There are a few components which are able to provide safety, efficiency and flexibility for the operation of AHU. It includes thermistor, Inverter, disconnect switch and other.

## ACCESSORIES



VOLUME DAMPER



WATER PROOF SW.



LAMP



INSPECTION WINDOW





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*SPECIFICATIONS AND INFORMATION IN THIS BROCHURE  
ARE SUBJECT TO CHANGE WITHOUT NOTICE*

รายละเอียดดังกล่าวอาจมีการเปลี่ยนแปลงโดยไม่另行通知ให้ทราบล่วงหน้า

**ISO 50001 : 2018**

**ISO 9001 : 2015**

**ISO 14001 : 2015**

**ISO 45001 : 2018**

**ISO/IEC 17025 : 2017**



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