



Standard Model With Mounting Plate

Wing Ton Low noise level plated mounted propeller fans are custom engineered low noise fans for a spectrum of engine cooling, radiator, HVAC and refrigeration applications. The need for low noise fans has become vital for any hearing conservation program for workplace noise.

Wing Ton low noise airfoil profiles are a vital component in sound reduction because their twisted design reduces turbulence across the blade surface, and the blades' thin trailing edge reduces the vortex created as air leaves the surface. Blade design is vital in engineering a low noise fan, and possible decrease in the fan speed will also reduce the noise level. It is because higher rotational speeds generally create greater noise. Larger fans can run at slower speeds and generate the same airflow while reducing the pure tonal noise caused by blade pass frequency. Focusing on these variables and using blade profiles designed for sound reduction is key in engineering optimized low noise fans.

Wing Ton also concerns the safety level of the complete fan unit. Design, construction and production of New propeller fans are according to IEC60335-2-80 (Safety of Household and similar electrical appliances. Part 2 :Particular Requirements for Fans).

TEST REPORT
IEC 60529

Degrees of protection provide by enclosure(IP code)

Report Number: Q02A23030179Q00101
Date of issue: 2023-03-13
Total number of pages: 9 pages

Name of Testing Laboratory (preparing the Report): Guangdong Meide Testing Technology Co., Ltd.
Applicant's name: FOSHAN SHUNDE SAM HING CHEUNG FANS AND EQUIPMENT LIMITED
Address: Building B1 Jiangyi Hongyu Industrial Park Lelu Town, Shunde District, Foshan City, Guangdong Province.

Test specification: IEC 60529-1989+A1-1999+A2:2013
Standard: IP54 Test
Test procedure: N/A
Non-standard test method: Q7-Q024-1A
Test Report Form No: GTG
Test Report Form(s) Originator: GTG
Master TRF: Dated 2022-07-01

General disclaimer:
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Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):
Testing Laboratory: Guangdong Meide Testing Technology Co., Ltd.
1st Floor, Area B, Jinbaisheng Industrial Park, 2nd Road, Songshan Lake High-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China
Testing location/ address: Abal Chen
Project handler
Tested by (name, function, signature): Louis Lu
Reviewer
Reviewed by (name, function, signature): Mo JiaKeng
Authorized Signatory

Web: www.gtggroup.com
E-mail: info@gtggroup.com
Tel: 86-400 755 8988

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Test item description: Electric Motor
Trade Mark: WingTon
Manufacturer: FOSHAN SHUNDE SAM HING CHEUNG FANS AND EQUIPMENT LIMITED.
Building: B1 Jiangyi Hongyu Industrial Park Lelu Town, Shunde District, Foshan City, Guangdong Province
Model/Type reference: Y53, Y71, Y80, Y90
Ratings: 0.08KW-1.5KW

List of Attachments (including a total number of pages in each attachment):
Attachment 1: Photo

Summary of testing:
Tests performed (name of test and test clause): IEC 60529-1989+A1-1999+A2:2013
Testing location: Guangdong Meide Testing Technology Co., Ltd.
1st floor, B Area, Jinbaisheng Industrial Park, Headquarters 2 Road, Songshan Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.

Summary of compliance with National Differences:
List of countries addressed: N/A
Copy of marking plate: The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

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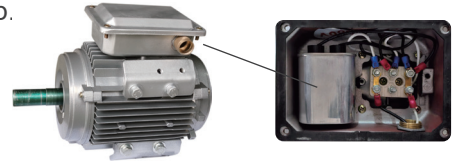
Requirement - Test	Result - Remark	Verdict
General requirements for tests		
Spheric conditions for water or dust tests	IP54, 23.2°C, 64%	P
Conditions of test requirements and interpretation	The tests specified are Commissioned tests	P
Conditions of test conditions for the first characteristic numeral		P
Conditions of protection against access to hazardous parts indicated by the first characteristic numeral		N/A
Conditions of protection against access to hazardous parts indicated by the second characteristic numeral	Not considered	N/A
Conditions of protection against access to hazardous parts indicated by the third characteristic numeral		N/A
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Conditions of protection against access to hazardous parts indicated by the ninety-eighth characteristic numeral		N/A
Conditions of protection against access to hazardous parts indicated by the ninety-ninth characteristic numeral		N/A
Conditions of protection against access to hazardous parts indicated by the one hundredth characteristic numeral		N/A

Global Testing, Great Quality.

CONSTRUCTION

MOTOR

- Fan motors are totally enclosed construction.
- Single phase motors are equipped with high quality capacitors for start up.
- The metal capacitor shall comply BS EN/IEC60252-1 Class B and Safety Protection of Class S2.
- Motor is Class F Insulation and IP54 Protection.
Motor IP rating test according to IEC60529 : 1989 + A1: 1999 + A2:2013



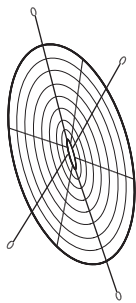
IMPELLER

- Aerodynamic fan blades are available in 630mm and 800mm.
- Hubs and Blades are made of aluminum.
- Blade angle can be adjusted to meet exact working requirement.
- Air performance is tested according to AMCA Standard 210-16 .
Type A installation (Free Inlet and Free Outlet)
- Sound performance is tested according to AMCA Standard 301.
Type A installation (Free Inlet and Free Outlet)
- They are statically and dynamically balanced to ensure smooth operation.

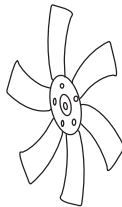


COMPONENTS

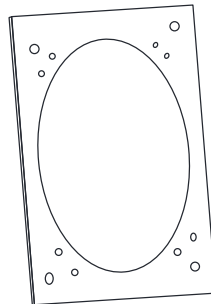
- Supporting arms are made of press steel.
- Mounting Plates are made of Zinc coated steel plate.
- Metal wire guard is included.



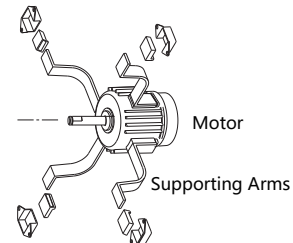
Wire Guard



Impeller



Standard Mounting Plate

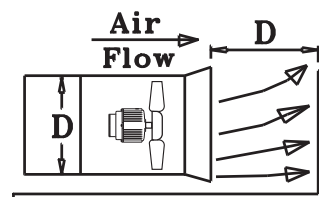


Some required duty pressure should be adjusted to account for the below gains before making a selection on the standard performance curves.

Fan unit with inlet bell mount (or fan unit being installed inside an air duct) will increase the effective pressure compatibility by 25 % and the total sound level will be increase by 1 db.



Fan Unit With Bellmouth (Optional)



Fan Unit Install Inside The Airduct

TEST REPORT



Asia AMCA Sdn. Bhd.
No. 7, Jalan SiLC 1/6, Kawasan Perindustrian SiLC Nusajaya, 79200 Nusajaya, Johor, Malaysia.

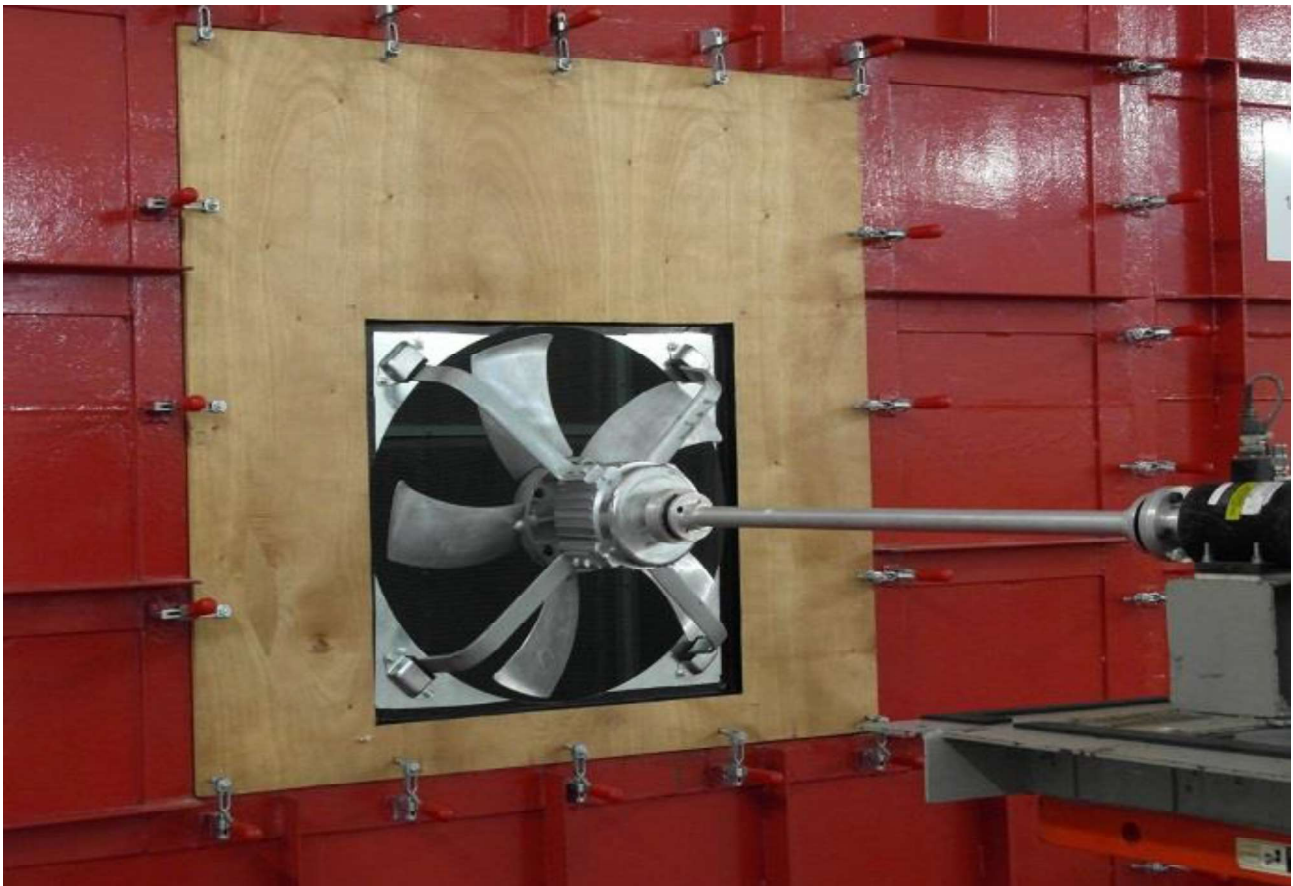
Test Number

38137-A2

Test Unit:	Propeller	Test Purpose:	Contract Test
Manufacturer:	Wing Ton Fan Industry Ltd.	Date of Test:	7 Jul 2020
Trade Name:	CLP Series Plate Mounted Propeller Fans	Client:	Wing Ton Fan Industry Ltd.
Model Number:	CLP630-5 (20deg)	Witness:	No
Impeller Diameter:	626 mm	Personnel:	TBL
Inlet Area:	0.332 m ²	P ₀ :	100.9 kPa
Outlet Area:	0.332 m ²	Unit System:	SI

Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup, Installation Type A

Comments: -, Flow direction 'A', 5 bladed impeller



TEST REPORT



Asia AMCA Sdn. Bhd.
No. 7, Jalan SiLC 1/6, Kawasan Perindustrian SiLC Nusajaya, 79200 Nusajaya, Johor, Malaysia.

Test Number

38138-A2

Test Unit:	Propeller	Test Purpose:	Contract Test
Manufacturer:	Wing Ton Fan Industry Ltd.	Date of Test:	8 Jul 2020
Trade Name:	CLP Series Plate Mounted Propeller Fans	Client:	Wing Ton Fan Industry Ltd.
Model Number:	CLP800-6 (20deg)	Witness:	No
Impeller Diameter:	782 mm	Personnel:	TBL
Inlet Area:	0.522 m ²	P _b :	100.9 kPa
Outlet Area:	0.522 m ²	Unit System:	SI

Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup, Installation Type A

Comments:

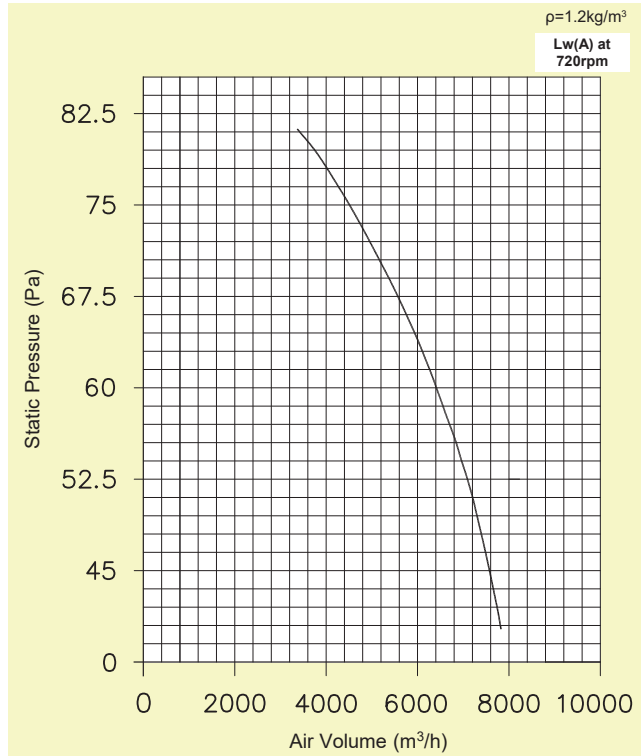
-, Flow direction 'A', 6 bladed impeller





LDB630DBV

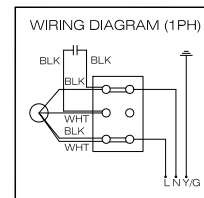
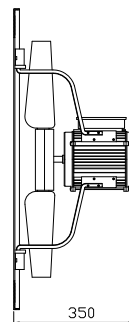
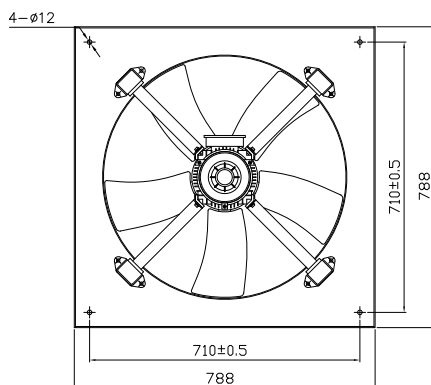
Plate Mounted Propeller Fan



Standard Model Number	Voltage V/Ph/Hz	Speed RPM	Motor Power (KW)	Capacitor (uF)	Current (A)		AirFlow (m ³ /h)	St.Pressure (Pa)	Noise dB (A)		
					Start Up	Running			1m	2m	3m
LDB630DBV	220-240/1/50	720	Y90-1-8 0.23KW	9	3.5	1.1	3500	50	66	60	56

Dimension (mm)

* Identical To CLP630-1-8



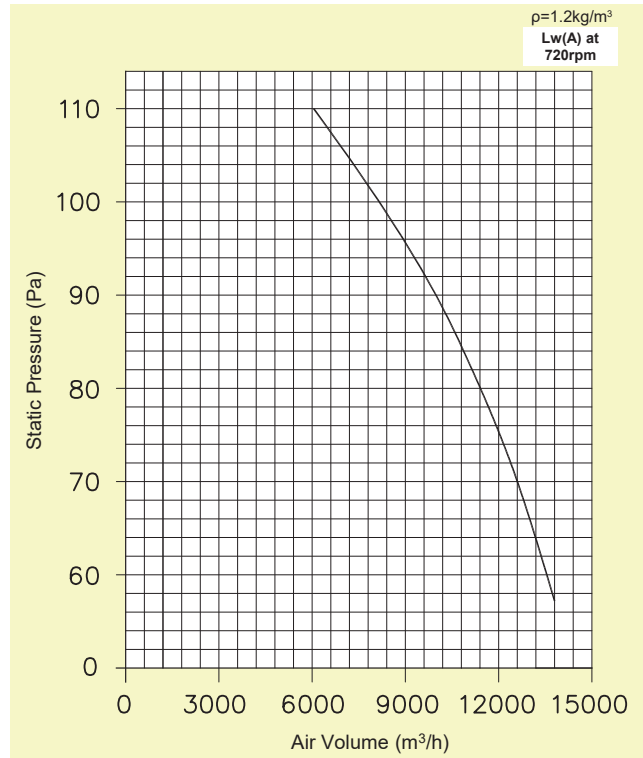
* Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



LDB800DBV

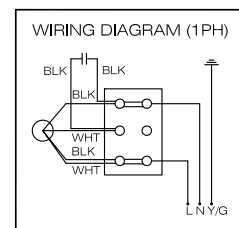
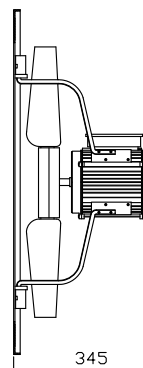
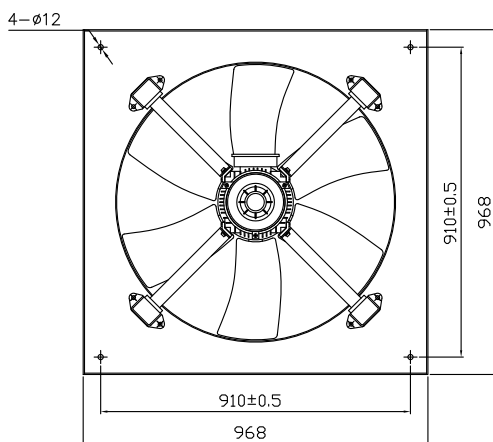
Plate Mounted Propeller Fan



Standard Model Number	Voltage V/Ph/Hz	Speed RPM	Motor Power (KW)	Capacitor (uF)	Current (A)		AirFlow (m³/h)	St.Pressure (Pa)	Noise dB (A)		
					Start Up	Running			1m	2m	3m
LDB800DBV	220-240/1/50	720	Y90-1-8 0.58KW	15	6.0	2.9	7000	100	74	68	63

Dimension (mm)

* Identical To CLP800-1-8



* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwIA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.