

AC FAN

GARAGE

LIVING ROOM

KITCHEN

STUDIO

TELECOM



ADDA CORPORATION

OSMART AC Fan

Product Picture





index

- Energy-saving war
- About OSmart AC Fan
- Technological innovation
- Product advantages
- Energy saving
- Energy-saving comparison
- Applications
- Price
- LOW noise
- High competitive cost
- Sensor
- Safety
- OSmart AC Fan series
- Specifications
- Q&A

Energy-saving war



OSMART AC FAN's unique AC temperature control matrix circuit provides you linear speed control. The dimension 120x120x38mm AC fan takes 60% of the worldwide AC fan market. (Annual demand is about 10 Million.) It is suitable for networking, inspection equipment, power equipment and etc. The variable speed control solves your problem on energy-saving.

The Actual Effect on Power Consumption:

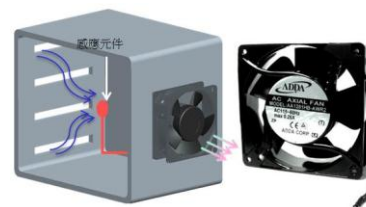
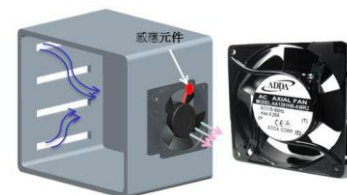
Scenario 1: Say, if basis on the annual selling amount of OSMART AC FAN is 10 Million pcs and its utilization is only 50%, we will get below result

- Ordinary 12038 AC FAN= 17.5W x 12hours x 365days x 10,000,000pcs= 766.5KMW (the power consumption in whole year.)
- ADDA 12038 OSMART AC FAN = (17.5W+7W)/2 x 12hours x 365days x 10,000,000pcs = 536.55KMW(the power consumption in whole year.)

Scenario 2: Assuming OSMART AC FAN is running at high-speed mode and low-speed mode evenly, then we can save about 229.5KMW annually worldwide. That is enough power to supply 63,000 household's electricity in Taiwan the whole year around. (Static reference: TaiPower announces in 2010 each household is using averagely 3648KW annually) In other words, using ordinary AC Fan meaning 229.5KW per year is wasted.

Developing the most value-added product is not ADDA's single goal, but also to be responsible for our CSR and our mother Earth. Comparison Table of AC Fan:

Performance	Competitor	OSMART AC FAN	OSMART AC FAN Specialty
Air-Flow(CFM)	92	46~92	controllable
Noise dB(A)	43	23~43	Lower noise
Power(W)	17.5	7~17.5	Lower power consumption
Power Consumption/PCS	76.65 KW	53.655 KW	Energy saving
Linear Speed Control	Fixed speed	Linear Speed Control	Maximum operation line



OSmart AC fan With your will , with your speed



ADDA corporation's **OSMART AC FAN** temperature control smart energy-saving fan is the first to use **AC temperature control matrix circuit technology**.

Equipped with AC cooling fan's high performance, combined with smart technology and integrated human designs, it comprehensively solves the energy-saving, noise-polluting and cost-lowering issues, saving unnecessary electricity costs for customers.





Technological innovation



- OSmart AC Fan can alter its speed upon ambient temperature change, hence saving more energy.
- The ordinary Ac fan is limited by rated input frequency, so the speed cannot be controlled or altered. OSmart AC fan is the first AC fan applying AC temperature control matrix circuit. It's the best combination of AC fan's high cooling performance and smart fuzzy technology.
- One can adjust the rated speed of OSmart Ac fan whether manually or by customizing the circuit, so that more energy is saved.

- **2011 ROC Patent No.M410115**



Product advantages




**OSmart
AC FAN**

Energy saving

Low noise

High competitive cost

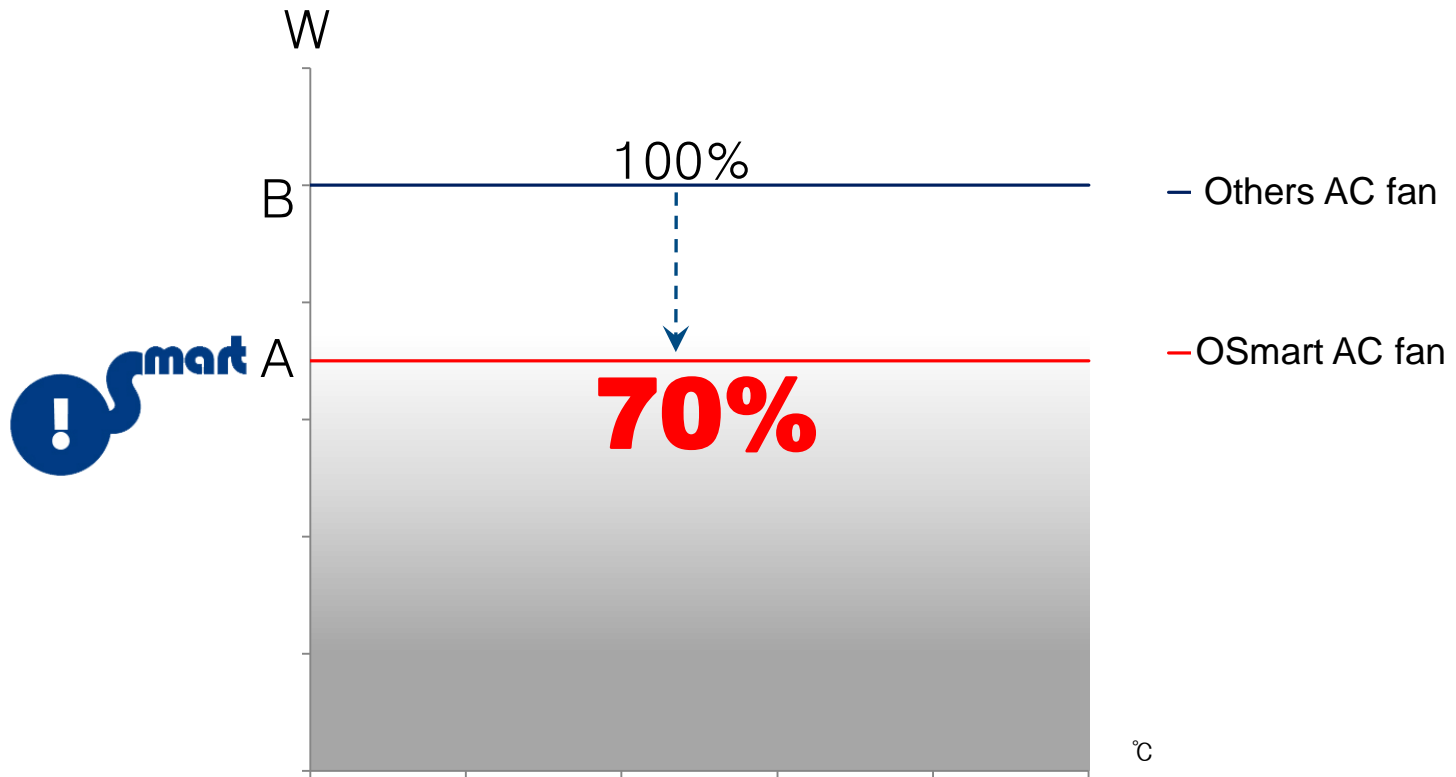
Auto speed control by temperature

Speed adjustment for the linear curve

Energy Saving



How to keep cooling performance but at same time being energy-efficient, it is a task for all fan makers. Now ADDA presents you the most energy saving AC Fan.





Energy-saving comparison

Fan Speed, Power vs Control Method



Working Phase:

1. Ramp Up: Smart AC provide smoother ramp up speed rises according to temperature change.
2. Operating: Both operating same power consumption and speed.
3. Cooling: While temperature drop, smart AC has effectively speed drop while temperature drop to save energy.
4. Idle: Smart AC may lower the speed to Idle mode, where Normal AC may keep operating as continuously.

Applications-Industrial



Power Welding Machine



Uninterruptible Power System



Industry Power Supply Rack



Power Backup Station

Applications-Commercial



Combination Oven



Commercial Freezer



Freezer

Applications-Latest Technological



Automation Controller Box



Photovoltaic Inverter



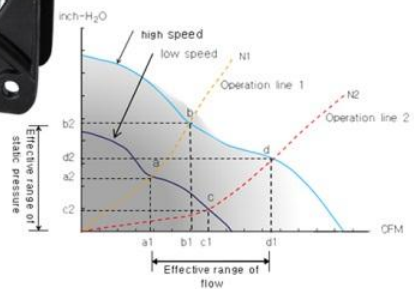
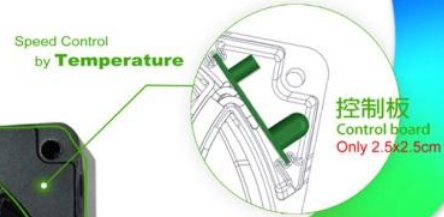
Electrical Car Charger



OSMART AC FAN TENT NUMBER. M410113 控智慧型節能風扇

With your will, with your speed!

- Low noise
- Lower cost
- Lower power consumption
- Low-speed operation
- Temperature-oriented auto-speed adjustment
- Customer-adjustable RPM
- Adjustable RPM-to-linear curve



SPEC

Frame Size (mm)	120*120*38	Max Air Flow @2800rpm (CFM)	95
Model No.	AA1281HB-AWR2(T6)	(CMM)	2.7
Bearing Type	Ball	Max Pressure @2800rpm (InAq)	0.2
Volt.(VAC)	115	(mmAq)	5.2
Freq. (Hz)	60	Max Noise @2800rpm	43.6
Current (A)	25°C~45°C 0.14~0.19	Weight (g)	570
Power (W)	25°C~45°C 9~16.5		
Rated Speed (rpm)	25°C~45°C 1350~2650		

ADDA Be Our FANs! www.adda.com.tw



LOW noise

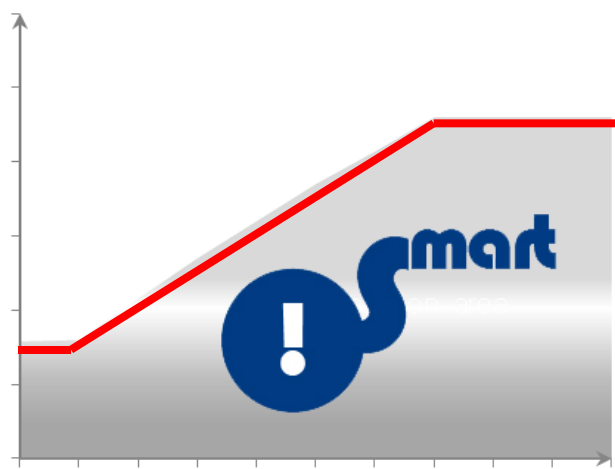


ADDA Smart AC fan, mainly by temperature control devices for environment or specific sensing point , it does belong to ADDA patented by the AC control circuits ,to make the linear change of fan speed in the many kind of applications. This linear variable speed model, with many advantages, especially in the energy saving considerations.

* Figure 1 is a typical example.

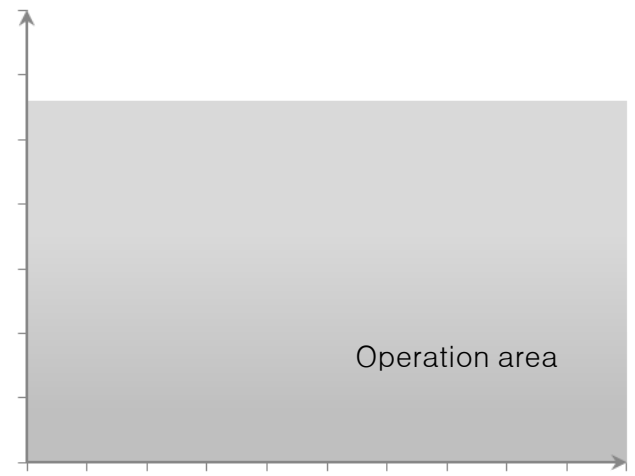
* Figure-2 is belong to the mode of fixed speed, no matter how the temperature is on the low or high, the speed always keep on the standards.

Figure 1



W	CFM	dB(A)	rpm
16.5	93	42	2800
12.6	76	36.8	1900
9	48	24.7	1300

Figure 2



W	CFM	dB(A)	rpm
16.5	93	42	2800

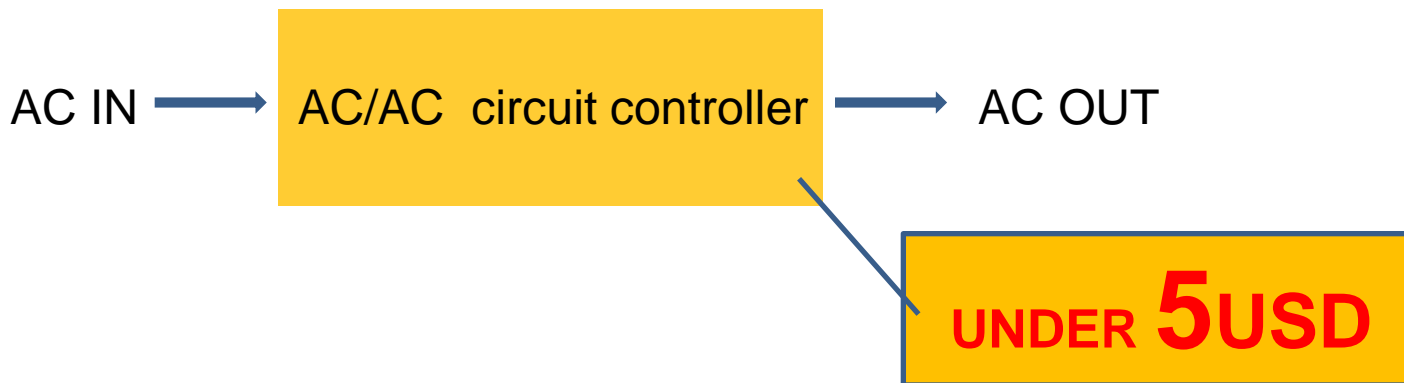


High competitive cost

- General the AC the FAN SPEED, CONTROL: Inverter



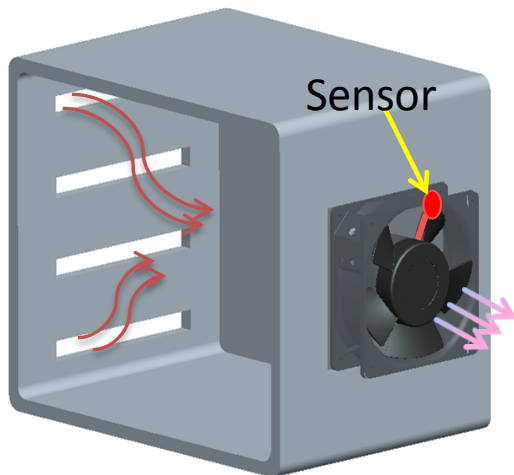
ADDA AC FAN SPEED CONTROL: AC/AC matrix



Sensor

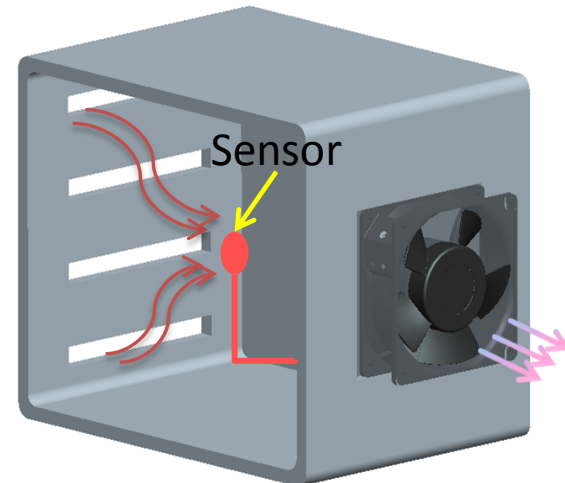
Sensor is fixed on the fan frame

Internal



Users to determine the fixed position of the sensor

External





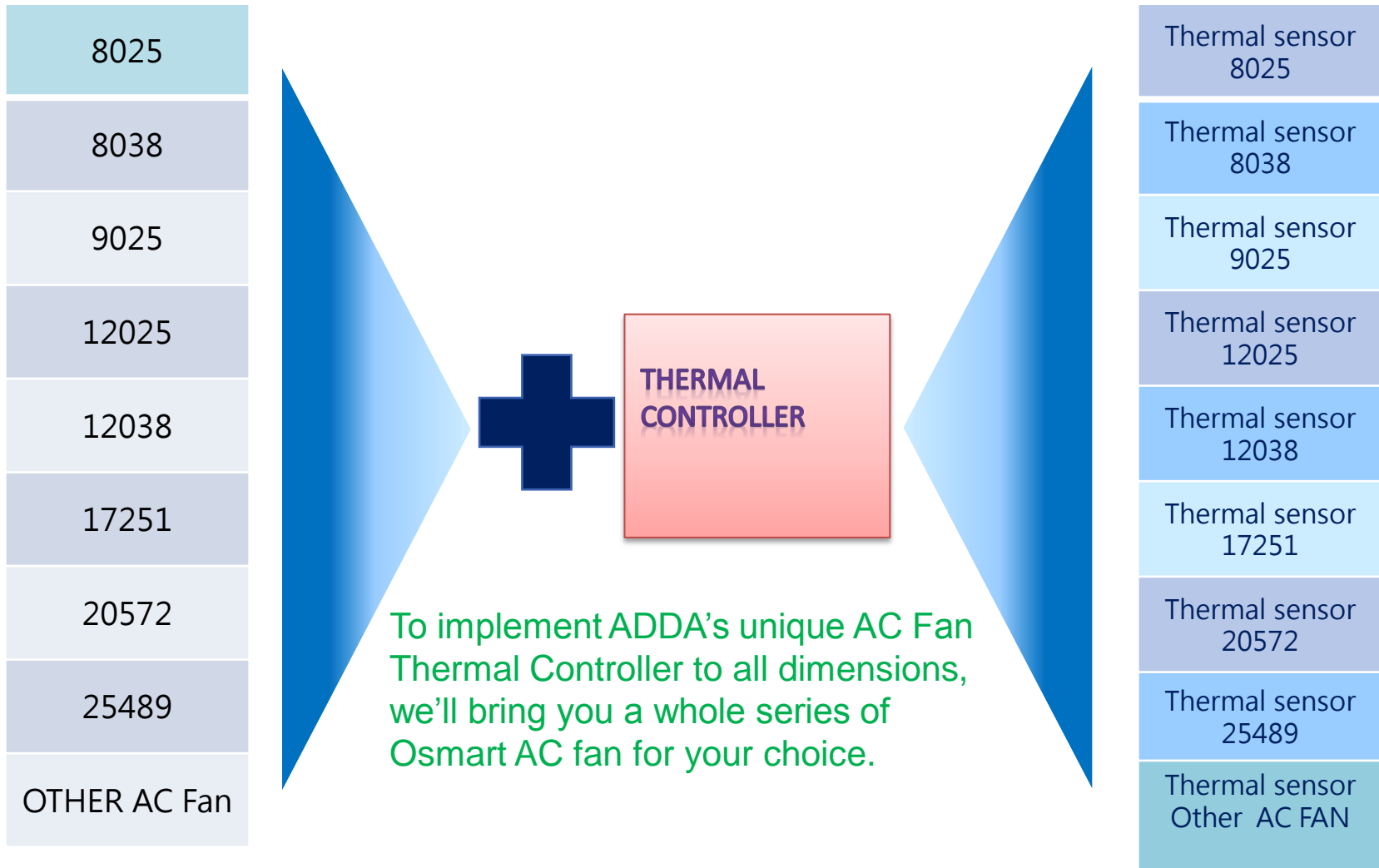
Safety



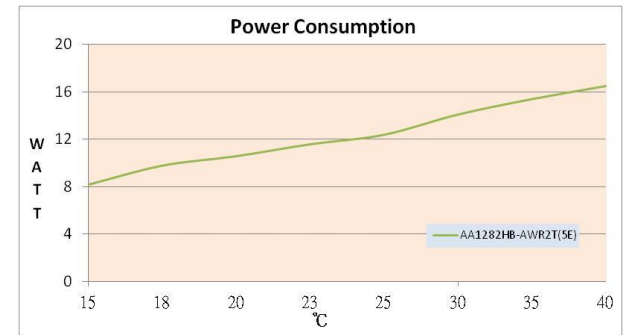
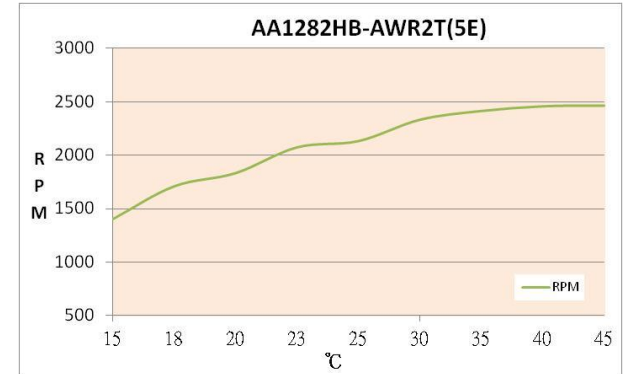
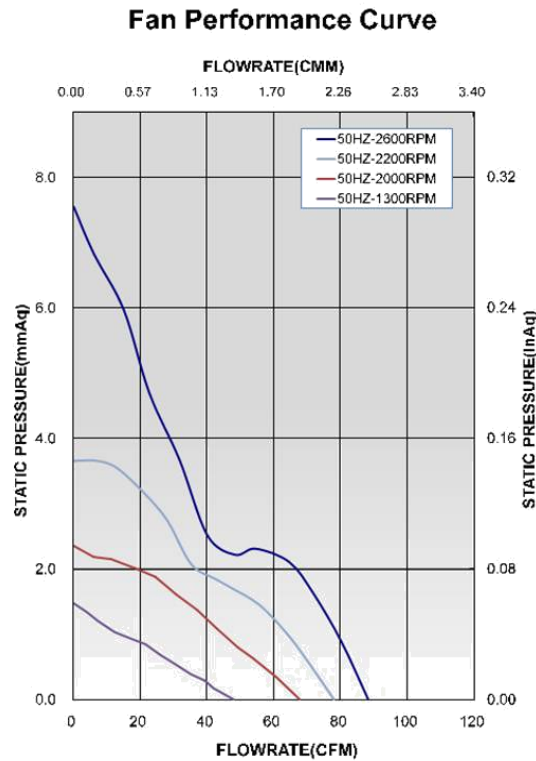
Item	Model	(HZ)	(V)	Wire type	Sensor	CUL	UL	CE	TUV
1.	AA1281HB-AWR2(T5N)	50	110	Wire	In	✓	✓	✓	✓
2.	AA1281HB-AWR2(T5E)	50	110	Wire	out	✓	✓	✓	✓
3.	AA1281HB-AWR2(T6N)	60	110	Wire	In	✓	✓	✓	✓
4.	AA1281HB-AWR2(T6E)	60	110	Wire	out	✓	✓	✓	✓
5.	AA1281HB-ATR2(T5N)	50	110	terminal	In	✓	✓	✓	✓
6.	AA1281HB-ATR2(T5E)	50	110	terminal	out	✓	✓	✓	✓
7.	AA1281HB-ATR2(T6N)	60	110	terminal	In	✓	✓	✓	✓
8.	AA1281HB-ATR2(T6E)	60	110	terminal	out	✓	✓	✓	✓
9.	AA1282HB-AWR2(T5N)	50	220	Wire	In	✓	✓	✓	✓
10.	AA1282HB-AWR2(T5E)	50	220	Wire	out	✓	✓	✓	✓
11.	AA1282HB-AWR2(T6N)	60	220	Wire	In	✓	✓	✓	✓
12.	AA1282HB-AWR2(T6E)	60	220	Wire	out	✓	✓	✓	✓
13.	AA1282HB-ATR2(T5N)	50	220	terminal	In	✓	✓	✓	✓
14.	AA1282HB-ATR2(T5E)	50	220	terminal	out	✓	✓	✓	✓
15.	AA1282HB-ATR2(T6N)	60	220	terminal	In	✓	✓	✓	✓
16.	AA1282HB-ATR2(T6E)	60	220	terminal	out	✓	✓	✓	✓
17.	AA1282HB-AWA2(T5E)	50	220	Wire	In	✓	✓	✓	✓
18.	AA1282HB-AWA2(T5N)	50	220	Wire	out	✓	✓	✓	✓
19.	AA1282HB-ATA2(T6E)	60	220	terminal	In	✓	✓	✓	✓
20.	AA1282HB-ATA2(T6N)	60	220	terminal	out	✓	✓	✓	✓



OSmart AC Fan series



Specifications-AA1282HB-AWR2T(5E)



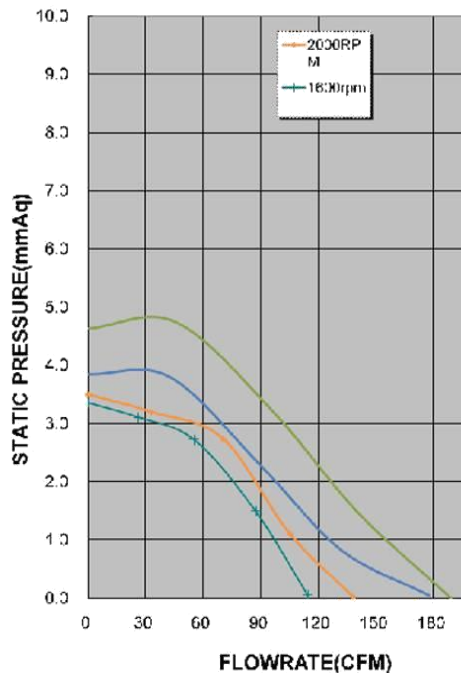
Frame Size (mm)	Model No.	Bearing System Type	Voltage (VAC)	Freq. (Hz)	Current (A) 15°C~45°C	Power (W) 15°C~45°C	Rated Speed (rpm) 15°C~45°C	Max Air Flow @2800rpm		Max Pressure @2800rpm		*Max Noise @2800rpm	Weight (g)
								(CFM)	(CMM)	(InAq)	(mmAq)		
120×120×38	AA1282HB-AWR2T(5E)	Ball	230	50	0.07~0.12	8~19.5	1350~2500	88.5	2.51	0.298	7.45	43	570
120×120×38	AA1282HB-AWR2T(5N)	Ball	230	50	0.07~0.12	8~19.5	1350~2500	88.5	2.51	0.298	7.45	43	570



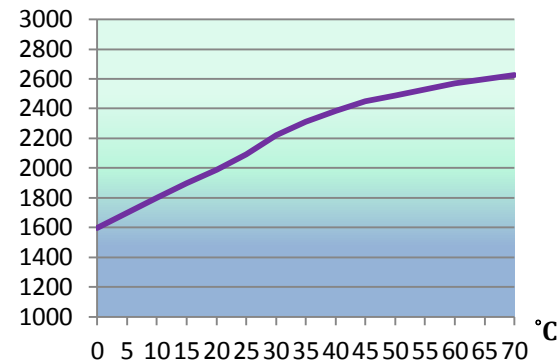
Specifications-AA1751HB-AWT



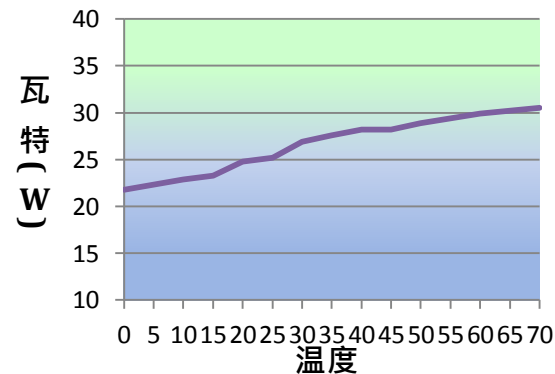
Fan Performance Curve



Rpm AA1751HB



AA1751HB



Frame Size (mm)	Model No.	Bearing System Type	Voltage (VAC)	Freq. (Hz)	Current (A) 0°C~70°C	Power (W) 0°C~70°C	Rated Speed (rpm) 0°C~70°C	Air Flow (CFM)	Noise dBA	Weight (g)
172x150x51	AA1751HB-AW(T)	Ball	115	60	0.32~0.45	20~32	1600~2600	113.5~190.3	38.1~51.5	950

