Smart AC fan

With your will , with your speed

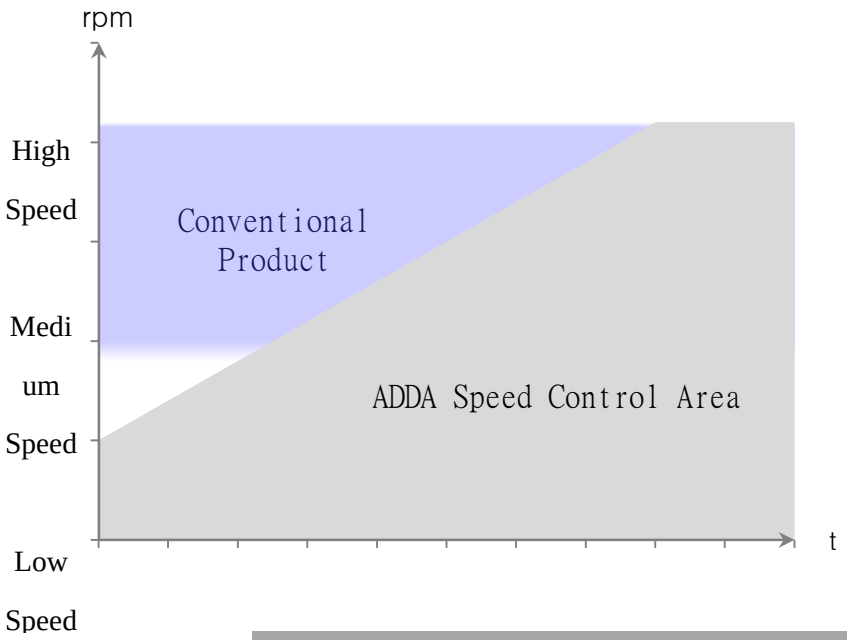
ADDA's SMART AC FAN is the first one to use AC temperature control matrix circuit technology. Equipped with AC cooling fan's high performance, combined with smart technology and integrated human designs.

New design-Smart AC Fan

Smart AC FAN

- Low noise
- Low cost
- Low power consumption
- Super Low speed operation
- uto speed control by temperature
- Speed adjustment for the linear curve

New design-Smart AC Fan



	Standard	We can do !!!
super low speed	✘	Customized

Because of the AC voltage & frequency, the most high speed and low speed are limited . Especially at low speed, how to use the method to achieve low power consumption can be lower than the conventional product design is particularly important ADDA design customers who have special requirements :

A :	Fixed the speed-less than standard rpm
B :	Manual control-customized
C :	Auto function by temperature

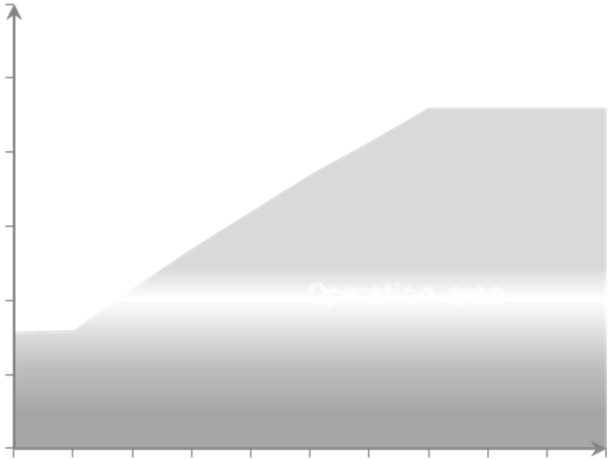
New design-Smart AC Fan

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.

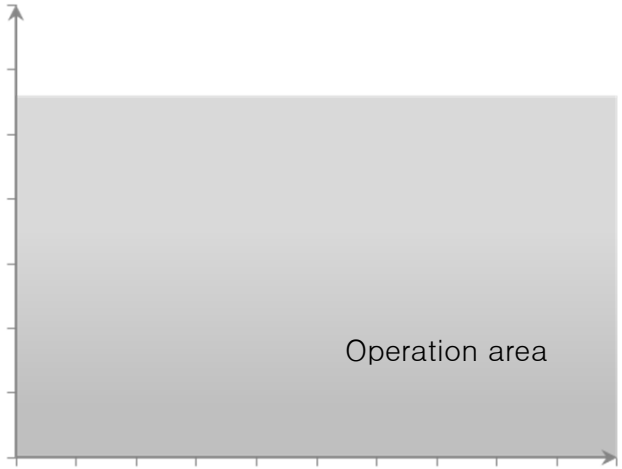
* Figure-2 is belong to the mode of fixed speed, no matter how the temperature is on the low or high, the speed always keep on the standards.

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

New design-Smart AC Fan

About the options for application：During at the customer's operation area, from the high to low speed, please refer to figure 3. the users need to understand their own system's operating line, N1/N2 operation points are decided by users system, in generally supposition is: c2➔b2 it has been changed by static pressure. a1➔d1 flow changes can be approached the cooling requirements by users.

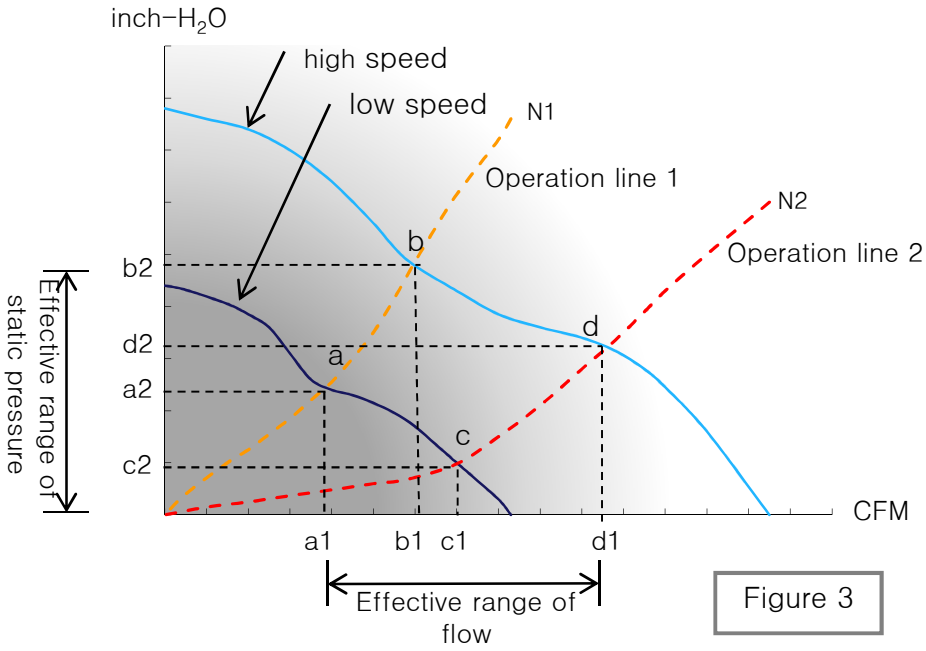


Figure 3

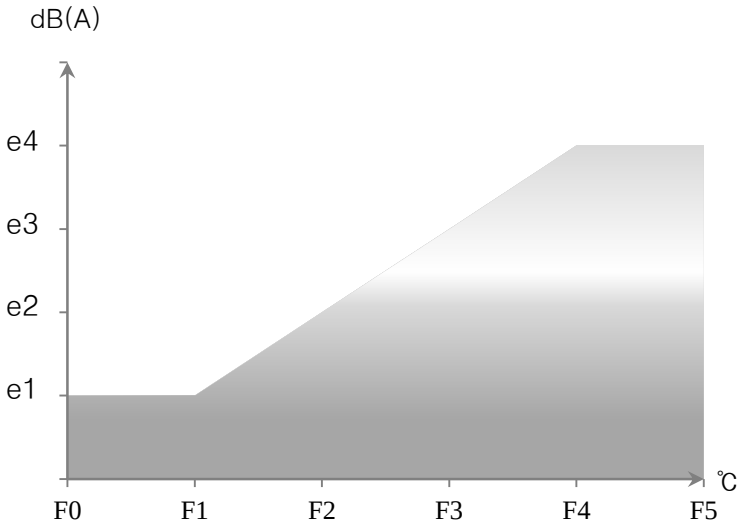
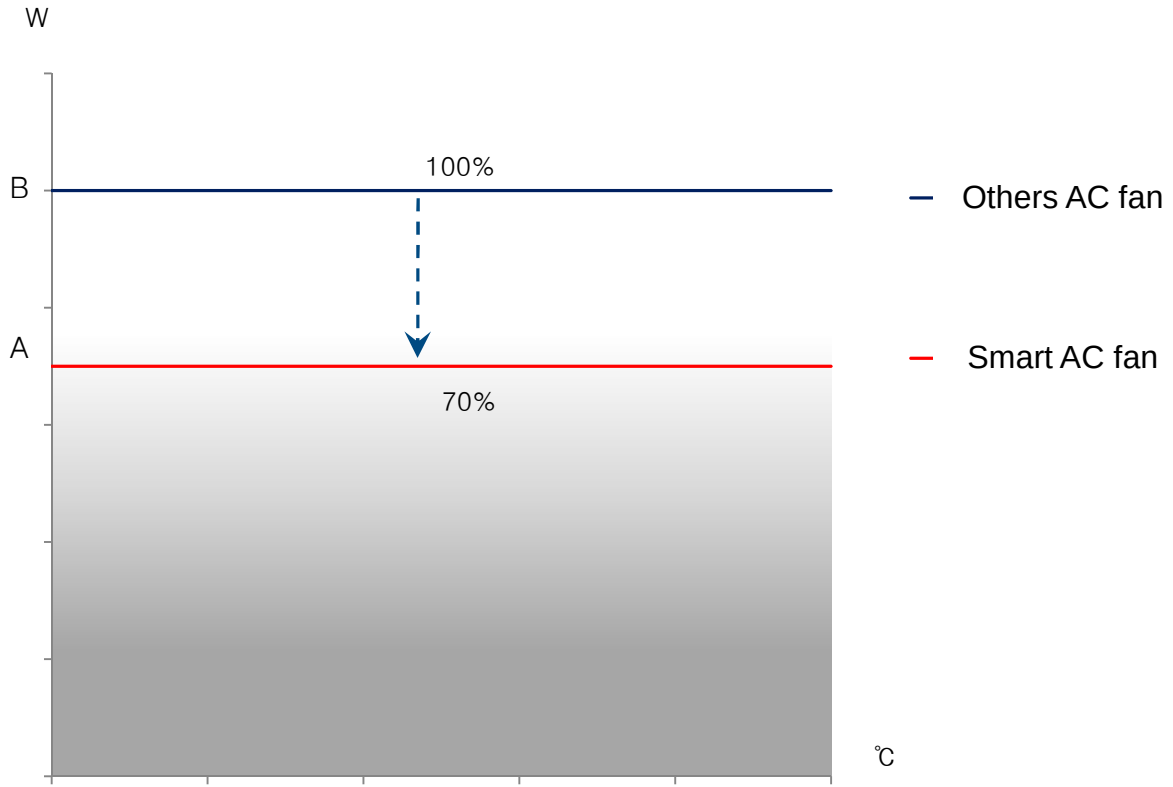


Figure 4

All the ADDA Smart AC fan users are need to know the conditions of permissible noise quality. Please refer to the figure 4 is belong to the corresponding relation.

New design-Smart AC Fan

Generally, the electric power can be saving 30% per average.



New design-Smart AC Fan

Please refer to the figure 5 or figure 6, ADDA Smart AC fan can be fixed on the frame or can be decided by user's requirements.

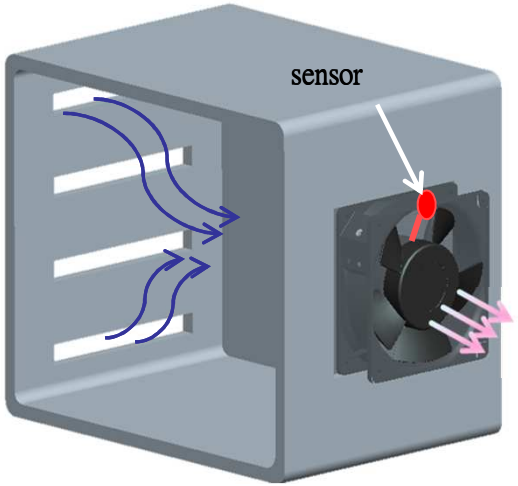


Figure 5

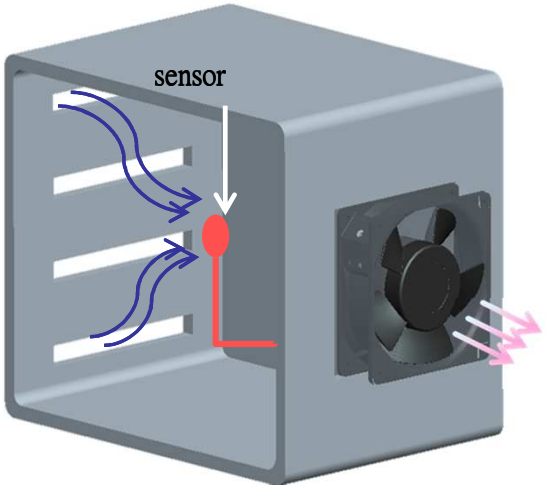
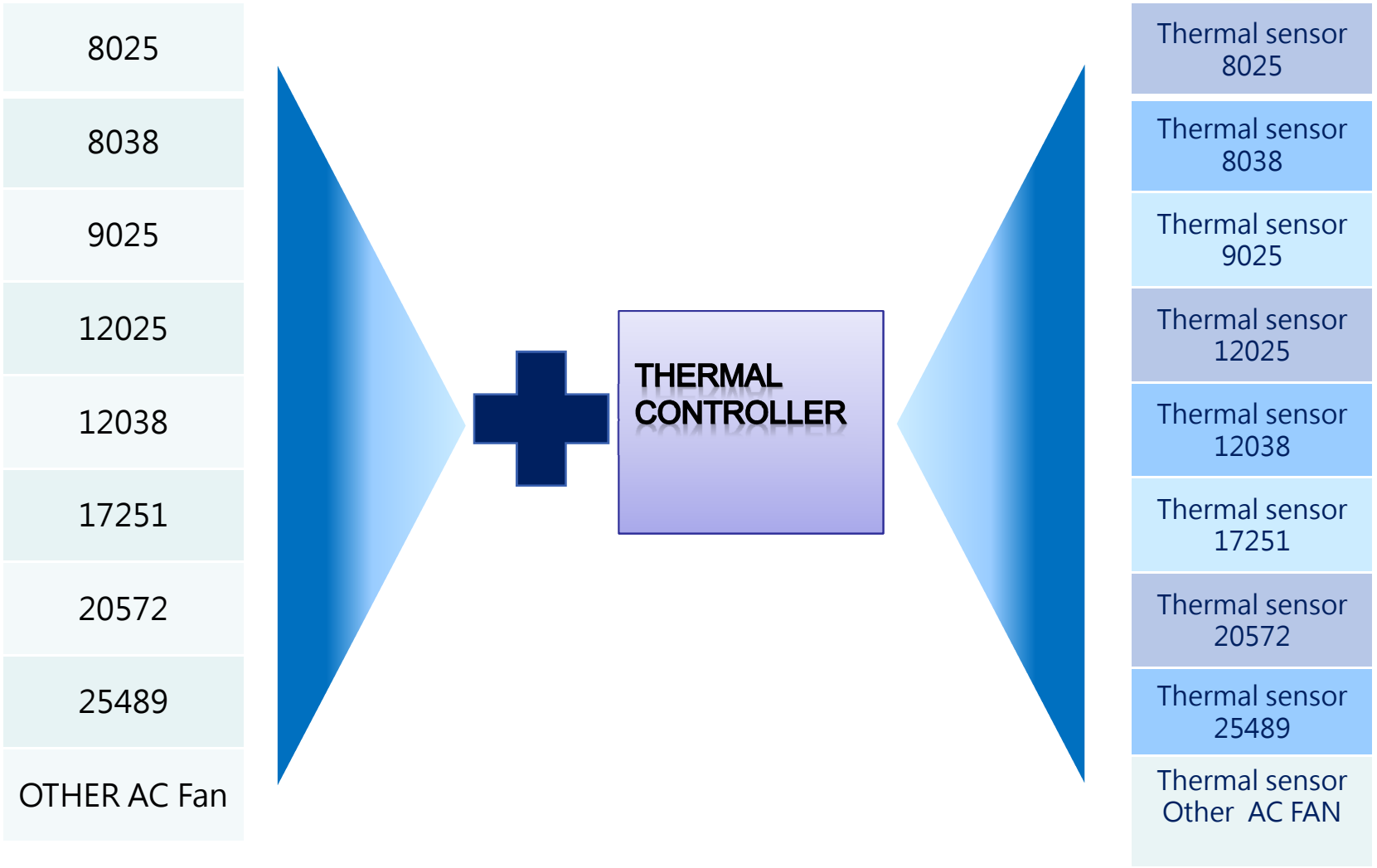


Figure 6

Sensor in out side wire
(T5E)/(T6E)

Sensor in flame
(T5N)/(T6N)

Smart AC Fan series



120*120*38 AA1281HB-AWR2(T6E)

120*120*38 AA1281HB-AWR2(T6N)

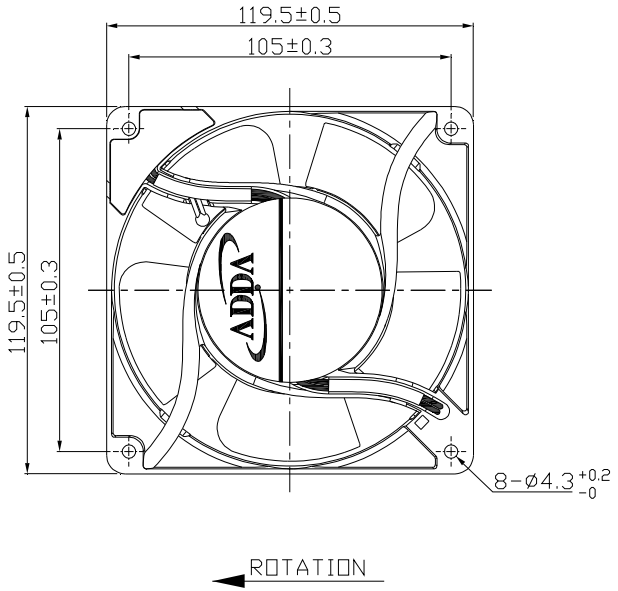
*Noise is measured at the distance of 1m form the axis of intake

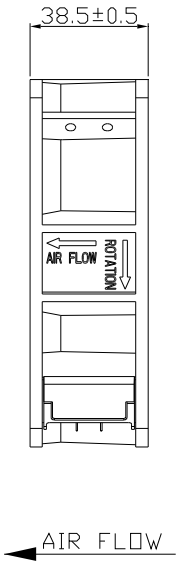
(T6N)

(T6E)

Frame: Aluminum alloy
Impeller: plastic(UL-94-V-0)
Motor structure: Shaded Pole Induction Motor
Rotational direction CCW looking at rotor.
Lead wire UL1430 AWG24
Operating Temp. -10℃ ~ 70℃
*-10℃ ~ 60℃ for fan with sleeve/ball combination bearings

External Dimensions





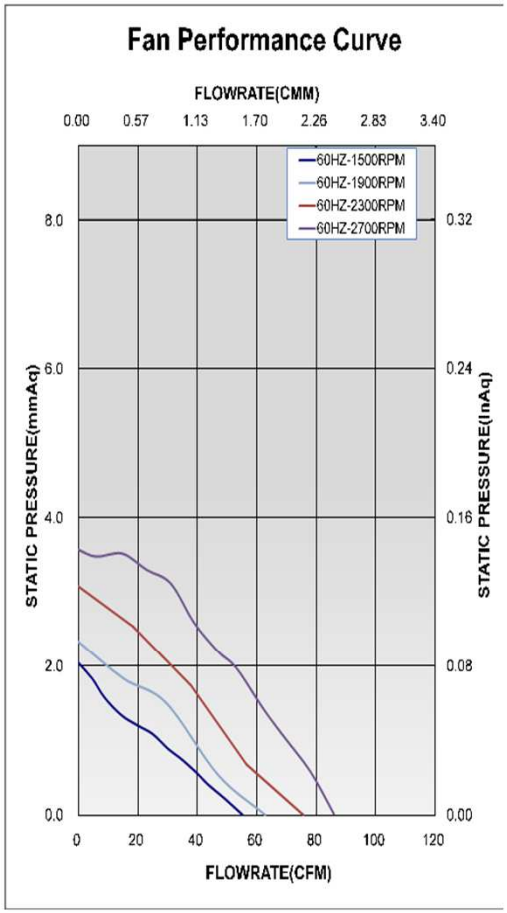
Specifications

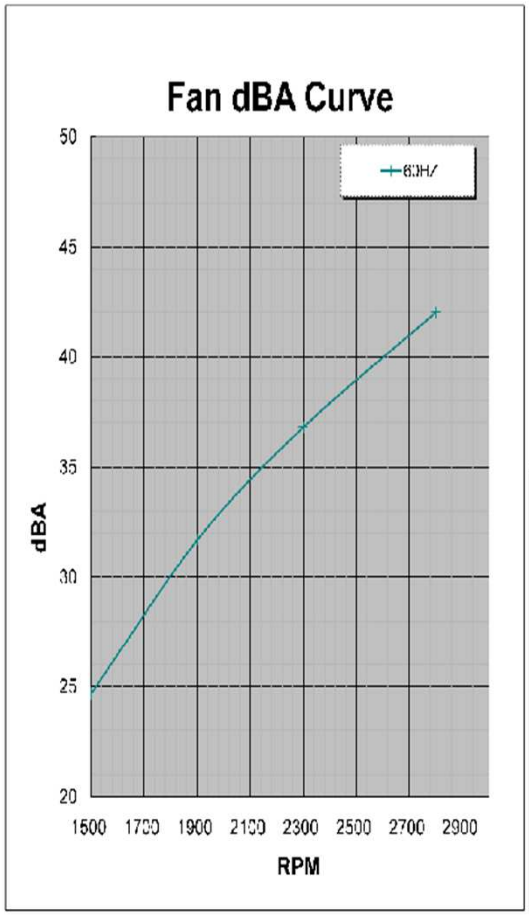
Frame Size (mm)	Model No.	BEARING System TYPE	Volt. (VAC)	Freq. (Hz)	Current (A) 25℃~45℃	Power (W) 25℃~45℃	Rated Speed (rpm) 25℃~45℃	Max Air flow @2800rpm (CFM)	(CMM)	Max Pressure @2800rpm (InAq)	(mmAq)	*Max NOISE @2800rpm	weight (g)
120*120*38	AA1281HB-AWR2(T6E)	Ball	115	60	0.14~0.19	9~16.5	1350~2650	95	2.7	0.2	5.2	43.6	570
120*120*38	AA1281HB-AWR2(T6N)	Ball	115	60	0.14~0.19	9~16.5	1350~2650	95	2.7	0.2	5.2	43.6	570

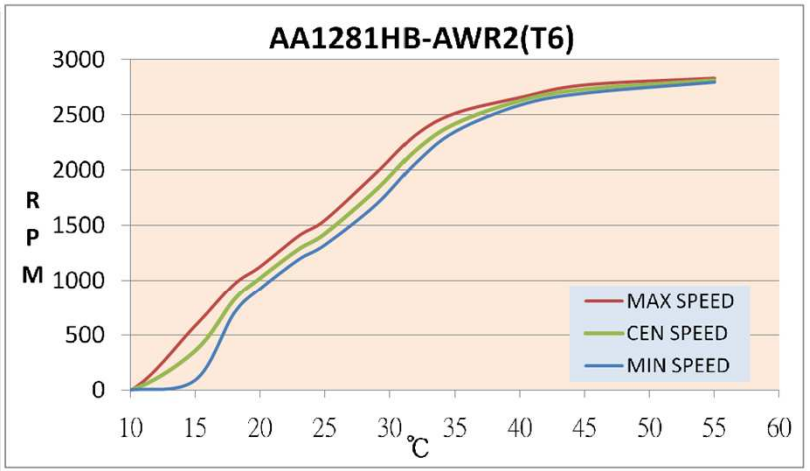
120*120*38 AA1281HB-AWR2(T6E)

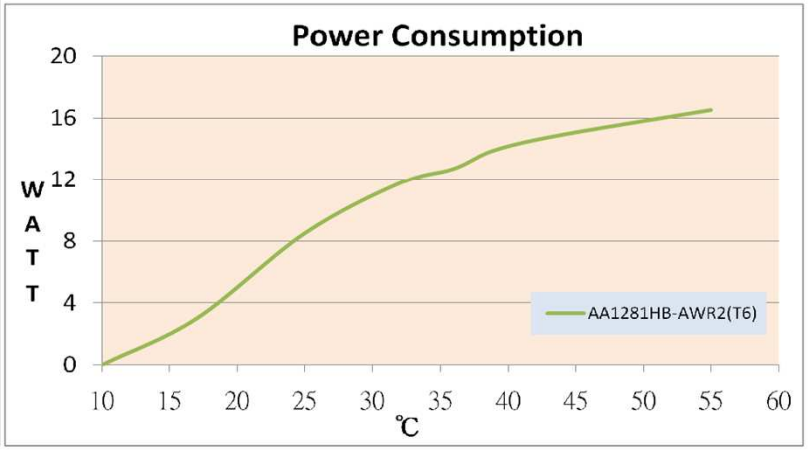
120*120*38 AA1281HB-AWR2(T6N)

Customization available
(Temp. vs Rotational speed curve)









SPECIFICATIONS SUBJECT TO CHANGE WITHUT NOTICE

120*120*38 AA1282HB-AWR2(T5E)

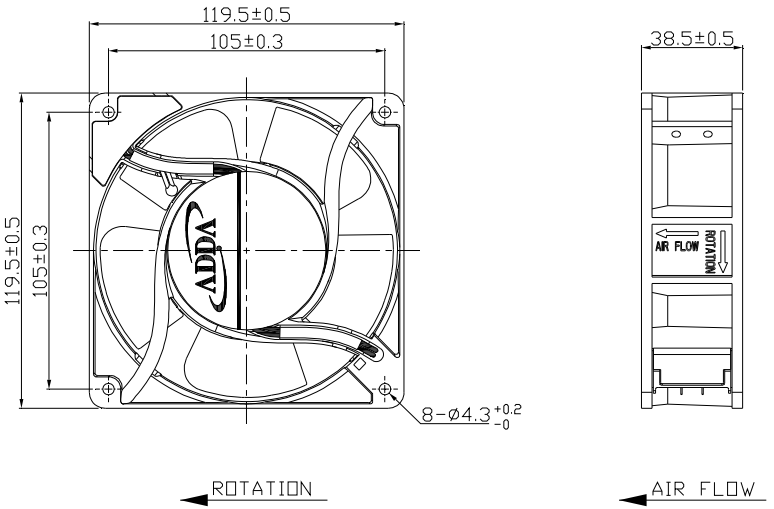
120*120*38 AA1282HB-AWR2(T5N)

(T5N)

(T5E)

Frame: Aluminum alloy
Impeller: plastic(UL-94-V-0)
Motor structure: Shaded Pole Induction
Rotational direction CCW looking at rotor.
Lead wire UL1430 AWG24
Operating Temp. -10℃ ~ 70℃
*-10℃ ~ 60℃ for fan with sleeve/ball combination bearings

External Dimensions



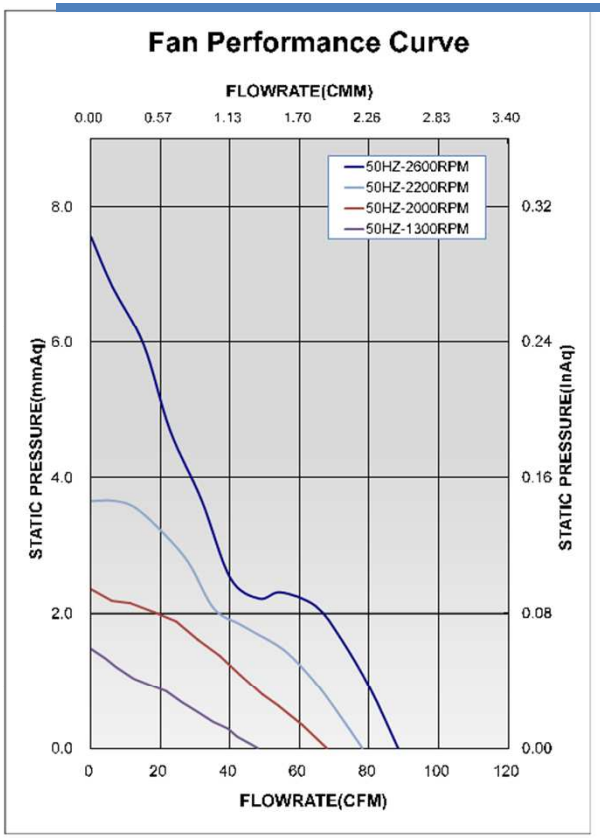
Specifications

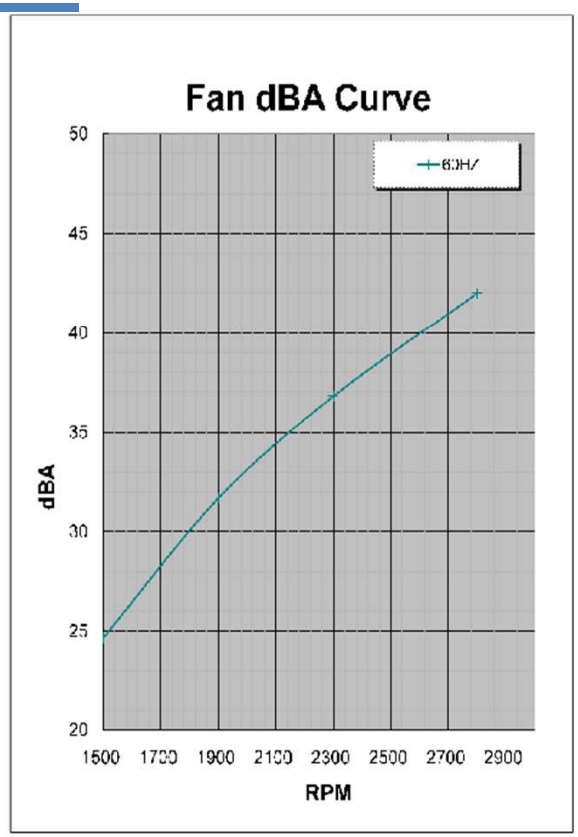
rame Size (mm)	Model No.	BEARING System Type	Volt. (VAC)	Freq. (Hz)	Current (A) 25℃~45℃	Power (W) 25℃~45℃	Rated Speed (rpm) 25℃~45℃	Max Air flow @2600rpm		Max Pressure @2600rpm		*Max NOISE @2600rpm	weight (g)
								(CFM)	(CMM)	(InAq)	(mmAq)		
120*120*38	AA1282HB-AWR2(T5E)	Ball	230	50	0.07~0.12	8~19.5	1350~2500	88.5	2.51	0.298	7.45	43	570
120*120*38	AA1282HB-AWR2(T5N)	Ball	230	50	0.07~0.12	8~19.5	1350~2500	88.5	2.51	0.298	7.45	43	570

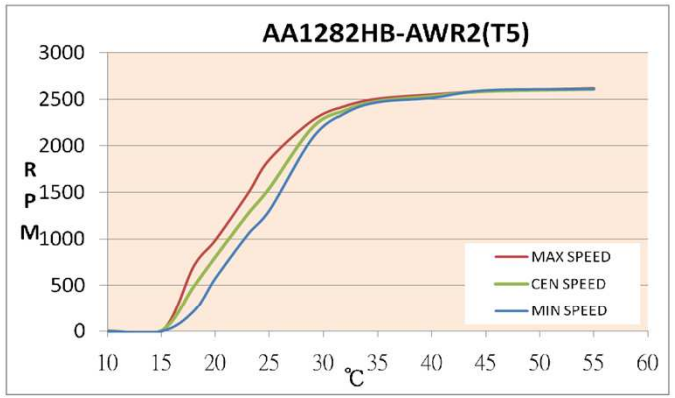
120*120*38 AA1282HB-AWR2(T5E)

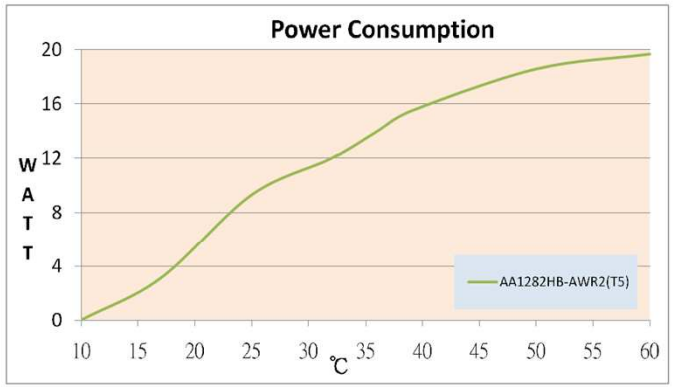
120*120*38 AA1282HB-AWR2(T5N)

Customization available
(Temp. vs Rotational speed curve)









*Safety approvals

✓	✓		✓	✓

120*120*38 AA1282HB-AWR2(T6E)

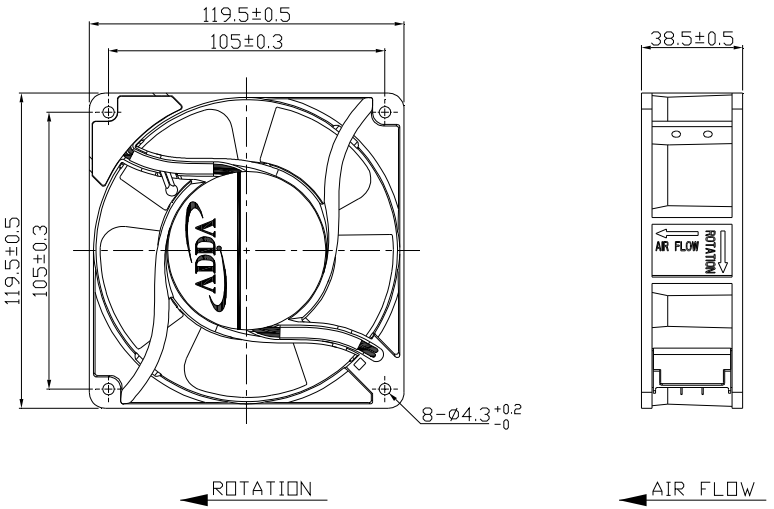
120*120*38 AA1282HB-AWR2(T6N)

(T6N)

(T6E)

Frame: Aluminum alloy
Impeller: plastic(UL-94-V-0)
Motor structure: Shaded Pole Induction Mc
Rotational direction CCW looking at rotor.
Lead wire UL1430 AWG24
Operating Temp. -10℃ ~ 70℃
*-10℃ ~ 60℃ for fan with sleeve/ball combination bearings

External Dimensions



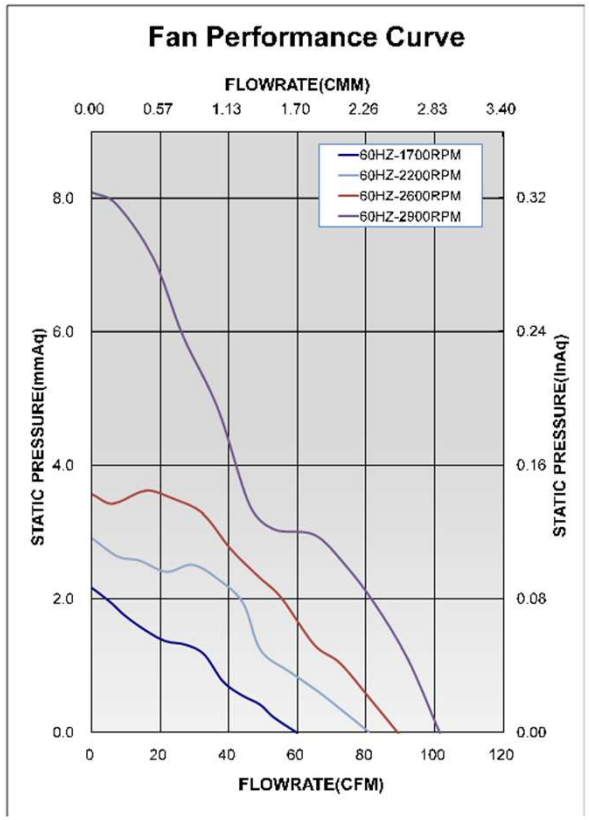
Specifications

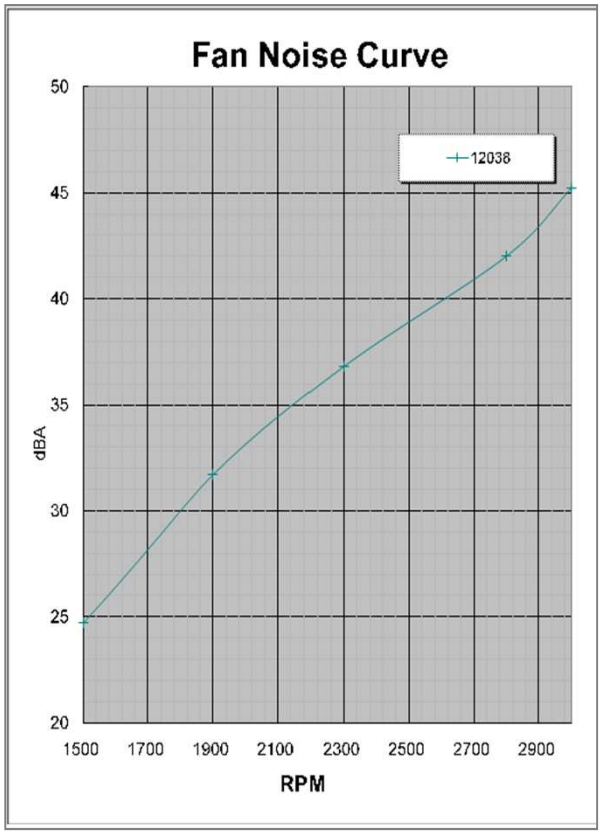
Frame Size (mm)	Model No.	BEARING System Type	Volt. (VAC)	Freq. (Hz)	Current (A) 25℃~45℃	Power (W) 25℃~45℃	Rated Speed (rpm) 25℃~45℃	Max Air flow @2800rpm		Max Pressure @2800rpm		*Max NOISE @2800rpm	weight (g)
								(CFM)	(CMM)	(InAq)	(mmAq)		
120*120*38	AA1282HB-AWR2(T6E)	Ball	230	60	0.07~0.12	8~19.5	1700~2800	95	2.7	0.2	5.2	43.6	570
120*120*38	AA1282HB-AWR2(T6N)	Ball	230	60	0.07~0.12	8~19.5	1700~2800	95	2.7	0.2	5.2	43.6	570

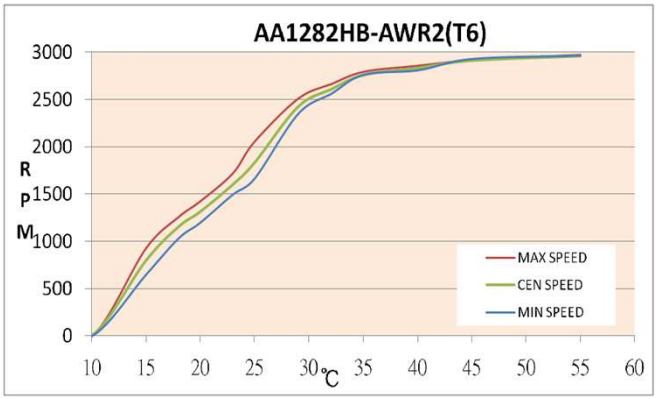
120*120*38 AA1282HB-AWR2(T6E)

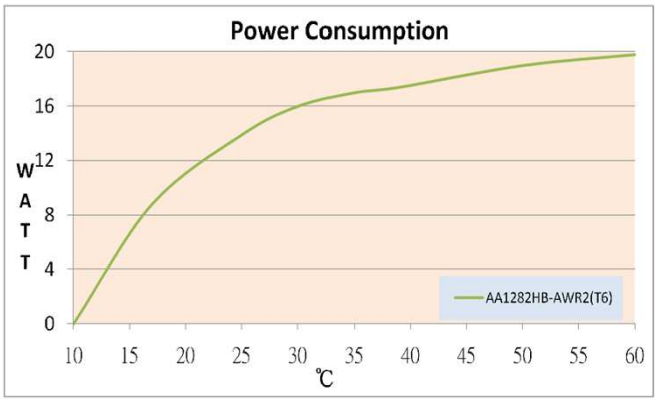
120*120*38 AA1282HB-AWR2(T6N)

Customization available
(Temp. vs Rotational speed curve)









*Safety approvals

✓	✓		✓	✓

120*120*38 AA1281HB-AWR2(T5E)

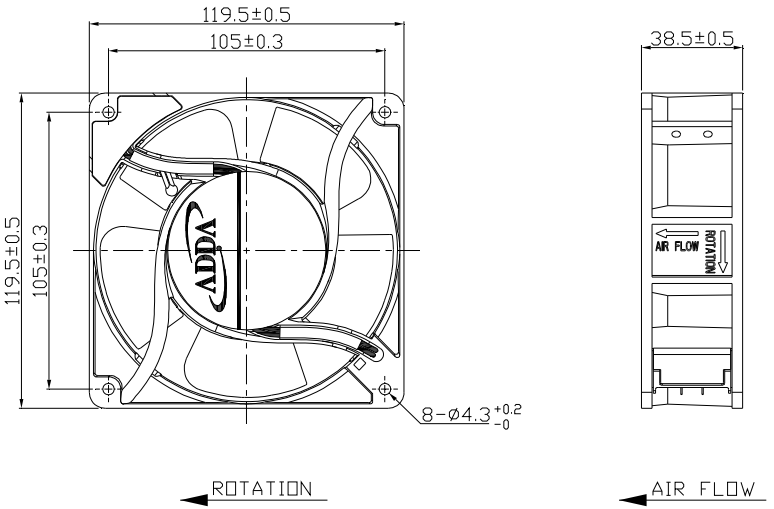
120*120*38 AA1282HB-AWR2(T5N)

(T5N)

(T5E)

Frame: Aluminum alloy
Impeller: plastic(UL-94-V-0)
Motor structure: Shaded Pole Induction M
Rotational direction CCW looking at rotor.
Lead wire UL1430 AWG24
Operating Temp. -10℃ ~ 70℃
*-10℃ ~ 60℃ for fan with sleeve/ball combination bearings

External Dimensions



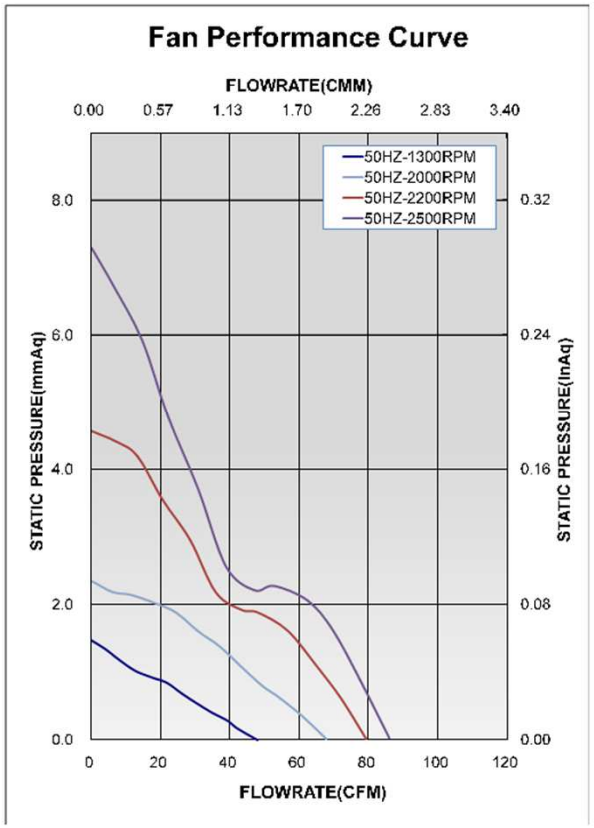
Specifications

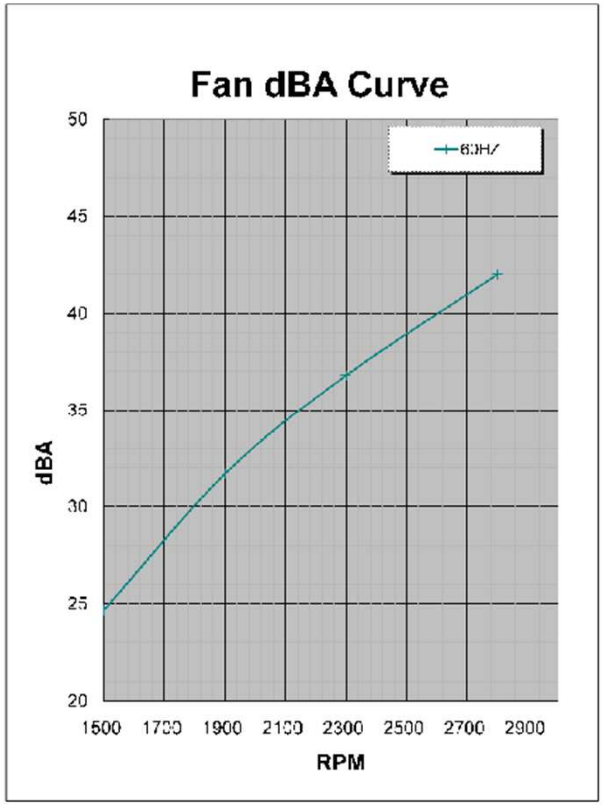
Frame Size (mm)	Model No.	BEARING System TYPE	Volt. (VAC)	Freq. (Hz)	Current (A) 25℃~45℃	Power (W) 25℃~45℃	Rated Speed (rpm) 25℃~45℃	Max Air flow @2600rpm		Max Pressure @2600rpm		*Max NOISE @2600rpm	weight (g)
								(CFM)	(CMM)	(InAq)	(mmAq)		
120*120*38	AA1281HB-AWR2(T5E)	Ball	115	50	0.15~0.19	9~16.5	1500~2500	88.5	2.51	0.298	7.45	43	570.
120*120*38	AA1281HB-AWR2(T5N)	Ball	115	50	0.15~0.19	9~16.5	1500~2500	88.5	2.51	0.298	7.45	43	570.

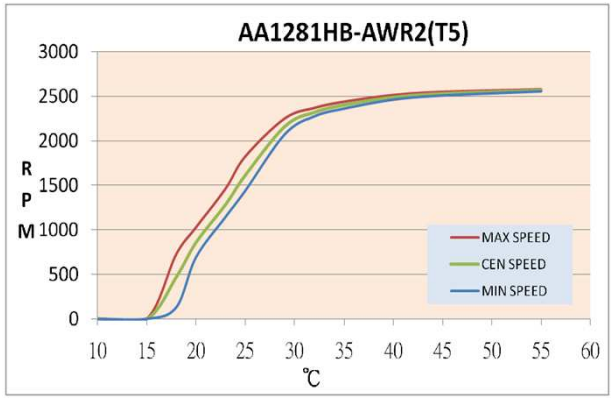
120*120*38 AA1282HB-AWR2(T5E)

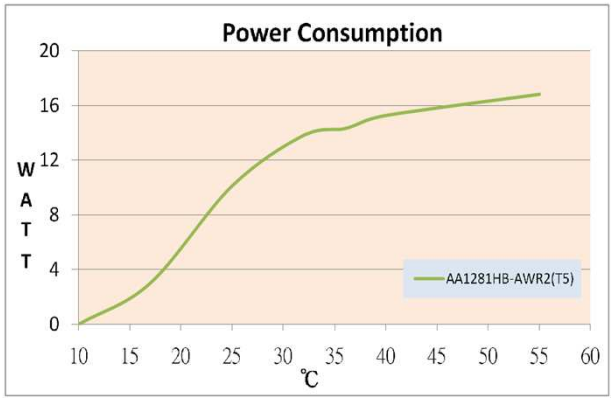
120*120*38 AA1282HB-AWR2(T5N)

Customization available
(Temp. vs Rotational speed curve)









*Safety approvals

✓	✓		✓	✓

120*120*38 AA1282HB-AWA2(T5E)

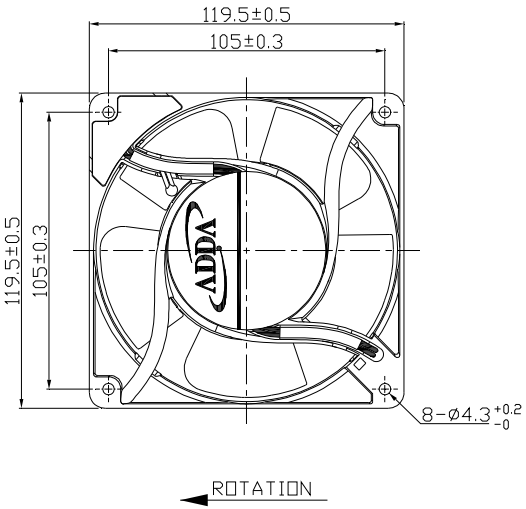
120*120*38 AA1282HB-AWA2(T5N)

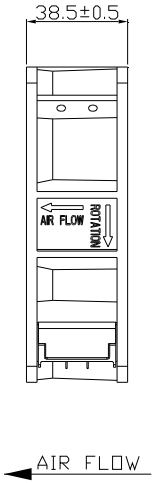
(T5N)

(T5E)

Frame: Aluminum alloy
Impeller: plastic(UL-94-V-0)
Motor structure: Shaded Pole Induction Motor.
Rotational direction CCW looking at rotor.
Lead wire UL1430 AWG24
Operating Temp. -10℃ ~ 70℃
*-10℃ ~ 60℃ for fan with sleeve/ball combination bearings

External Dimensions





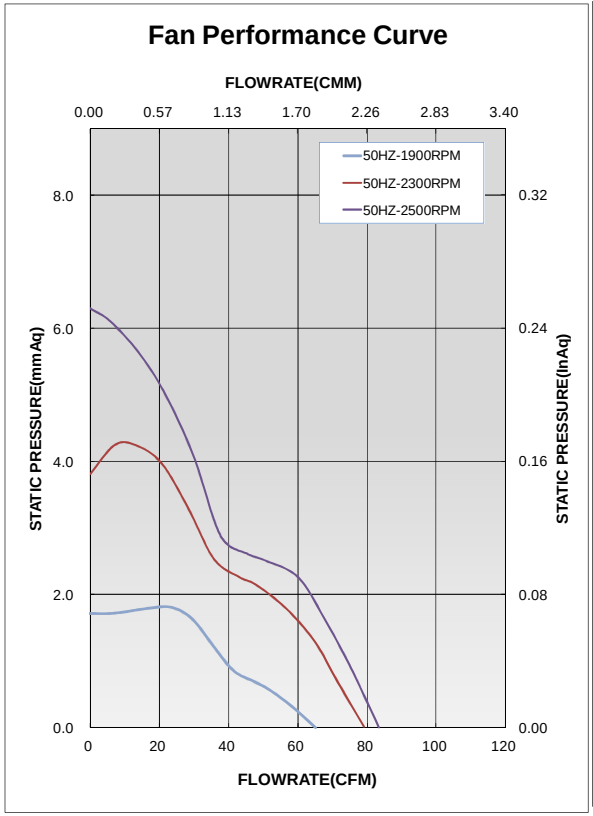
Specifications

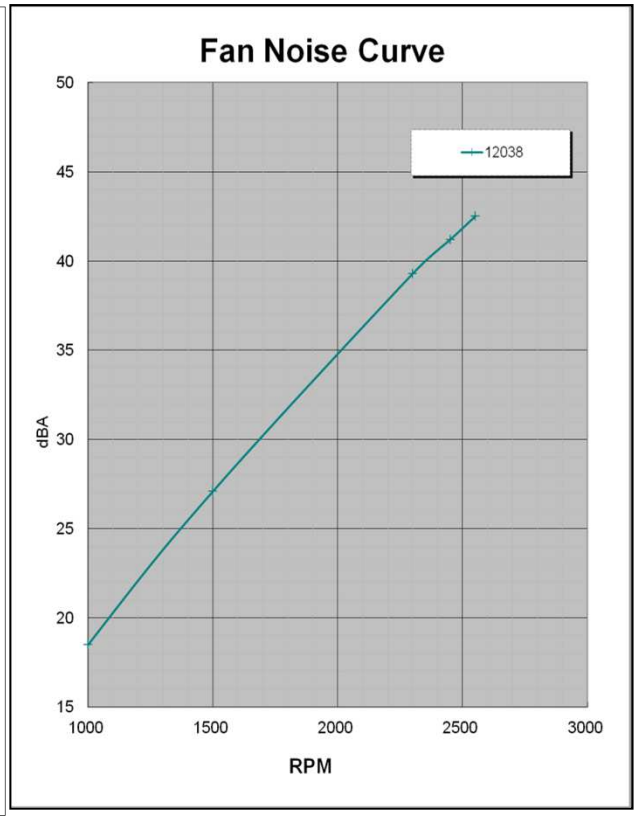
Frame Size (mm)	Model No.	BEARING System Type	Volt. (VAC)	Freq. (Hz)	Current (A) 25℃~45℃	Power (W) 25℃~45℃	Rated Speed (rpm) 25℃~45℃	Air flow @2600rpm		Pressure @2600rpm		*NOISE @2600rpm	weight (g)
								(CFM)	(CMM)	(Inch_Aq)	(mm_Aq)		
120*120*38	AA1282HB-AWA2(T5E)	Ball	230	50	0.05~0.11	6~18	1450~2600	89.49	2.53	0.31	7.9	42.8	570
120*120*38	AA1282HB-AWA2(T5N)	Ball	230	50	0.05~0.11	6~18	1450~2600	89.49	2.53	0.31	7.9	42.8	570

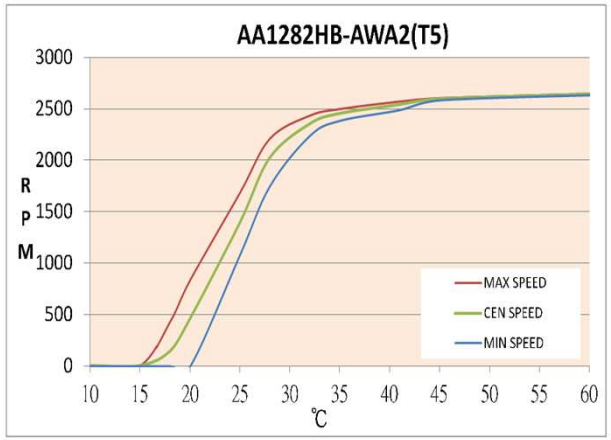
120*120*38 AA1282HB-AWA2(T5E)

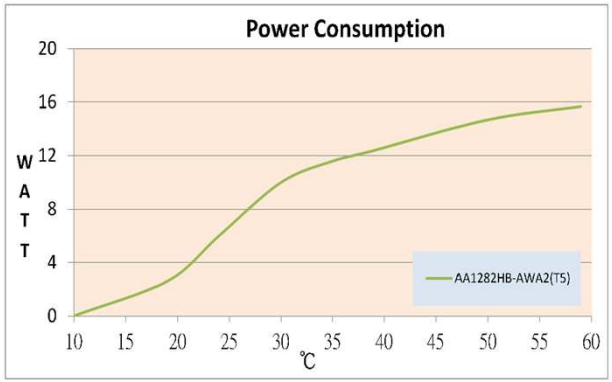
120*120*38 AA1282HB-AWA2(T5N)

Customization available
(Temp. vs Rotational speed curve)









*Safety approvals

✓	✓		✓	✓

New design-Smart AC Fan (172x150x51mm)

172x150x51mm AC AXIAL FAN

- Impedance protected against overloading.
- Rotational direction CCW looking at rotor.
- Shaded pole induction motor
- Lead wire UL1015 AWG18
- Operating temp. -10℃ ~ 70℃
- Frame: aluminum alloy
- Impeller: plastic(UL-94-V-0)

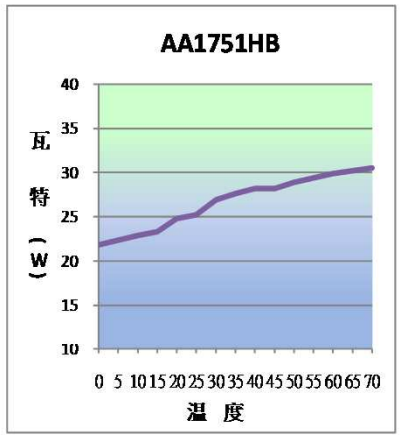
Specifications

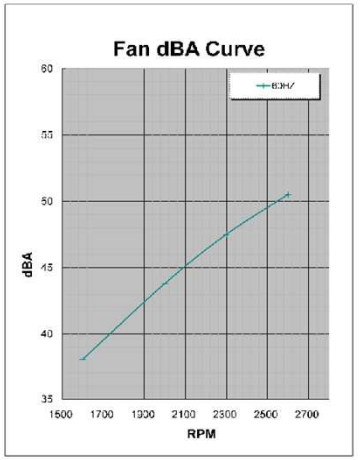
Model No.	BEARING TYPE	Volt (VAC)	Freq. (Hz)	Current (A) 0℃~70℃	Power (W) 0℃~70℃	Rated Speed (rpm) 0℃~70℃	Air flow CFM	NOISE dBA	Wgt (g)
AA1751HB -AW(T)	BALL	115	60	0.32~0.45	20~32	1600~2600	113.5~190.3	38.1~51.5	950

New design-Smart AC Fan (172x150x51mm)

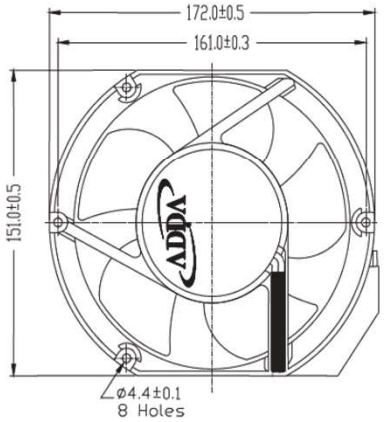
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

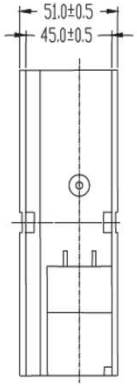
The Rpm Curve



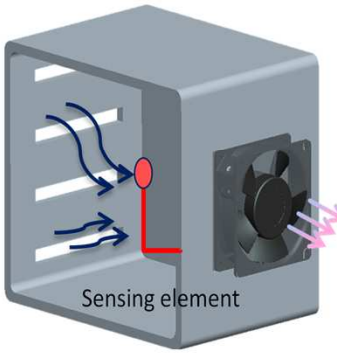


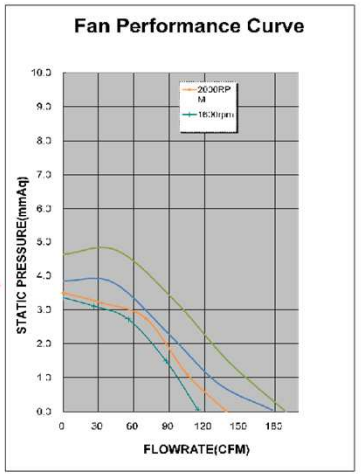
External Dimensions





Application sketch





ROTATION

AIR FLOW

Thank you

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