

97 mm

## San Ace B97

33mm thick



## General Specifications

- Material ..... Frame: Plastics (Flammability: UL94V-0),  
Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ..... Refer to specifications (L10:Survival rate: 90% at 60°C ,  
rated voltage, and continuously run in a free air state)
- Lead Wire ..... ⊕red ⊖black (Sensor) yellow (Control) (With PWM speed control  
function · With pulse sensor) brown
- Storage Temperature ..... -30°C to +70°C (Non-condensing)

97 mm × 33 mm (Mass : 190g)



## Specifications The following nos. have PWM controls and pulse sensors.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM duty cycle <sup>Note1)</sup> [%]	Rated Current [A]	Rated Input [W]	Rated Speed [min <sup>-1</sup> ]	Max. Air Flow [m <sup>3</sup> /min] [CFM]	Max. Static Pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB(A)]	Operating Temperature [°C]	Expected Life [h]
9BMB12P2K01	12	10.8 to 13.2	100	3.4	40.8	6,850	1.61 56.8	1,280 5.14	66	-20 to +70	40,000
9BMB12P2G01			100	1.8	21.6	5,750	1.34 47.3	760 3.050	61		
9BMB12P2S01		10.2 to 13.8	100	1.4	16.8	5,250	1.22 43.1	610 2.450	59		
9BMB12P2H01			100	1.1	13.2	4,850	1.11 39.2	490 1.968	57		
9BMB12P2F01			100	0.9	10.8	4,500	1.04 36.7	410 1.64	56		
9BMB24P2K01	24	21.6 to 26.4	100	1.62	38.88	6,850	1.61 56.8	1,280 5.14	66		
9BMB24P2G01			100	0.83	19.92	5,750	1.34 47.3	760 3.05	61		
9BMB24P2S01			100	0.7	16.8	5,250	1.22 43.1	610 2.450	59		
9BMB24P2H01			100	0.55	13.2	4,850	1.11 39.2	490 1.968	57		
9BMB24P2F01			100	0.45	10.8	4,500	1.04 36.7	410 1.640	56		

Note 1 : Fan does not rotate when PWM duty cycle is 0%.

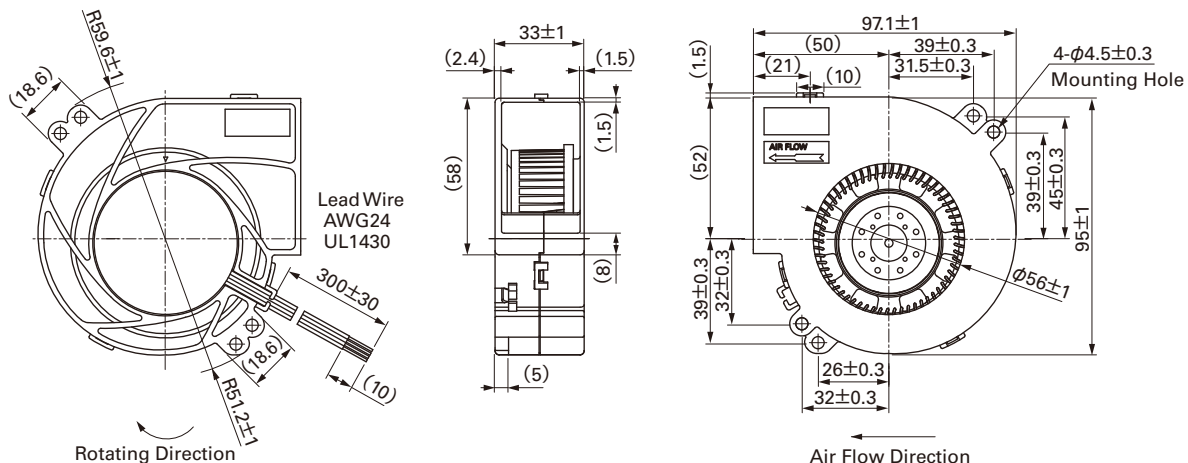
\*PWM Frequency : 25kHz

## The following nos. have pulse sensors.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min <sup>-1</sup> ]	Max. Air Flow [m <sup>3</sup> /min] [CFM]	Max. Static Pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB(A)]	Operating Temperature [°C]	Expected Life [h]
9BMB12K201	12	7 to 13.2	3.4	40.8	6,850	1.61 56.8	1,280 5.14	66	-20 to +70	40,000
9BMB12G201			1.80	21.6	5,750	1.34 47.3	760 3.052	61		
9BMB12S201			1.40	16.8	5,250	1.22 43.1	610 2.450	59		
9BMB12H201			1.10	13.2	4,850	1.11 39.2	490 1.968	57		
9BMB12F201			0.90	10.8	4,500	1.04 36.7	410 1.647	56		
9BMB24K201	24	12 to 26.4	1.62	38.88	6,850	1.61 56.8	1,280 5.14	66		
9BMB24G201			0.83	19.9	5,750	1.34 47.3	760 3.052	61		
9BMB24S201			0.70	16.8	5,250	1.22 43.1	610 2.450	59		
9BMB24H201			0.55	13.2	4,850	1.11 39.2	490 1.968	57		
9BMB24F201			0.45	10.8	4,500	1.04 36.7	410 1.647	56		

· Available options: ⇒ Without Sensor Pulse Sensor

## Dimensions (Unit : mm) (With PWM speed control function · With pulse sensor)

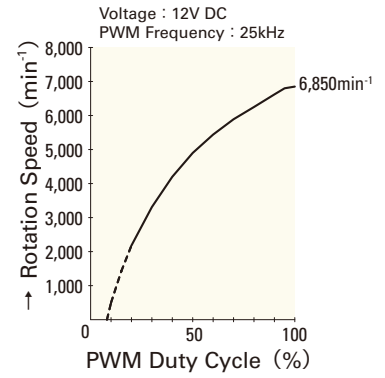
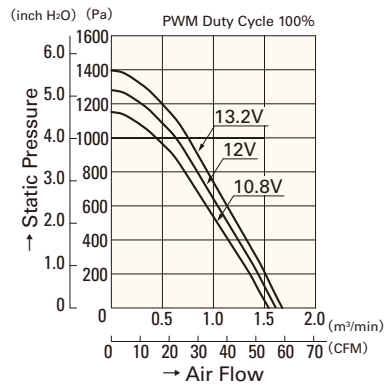
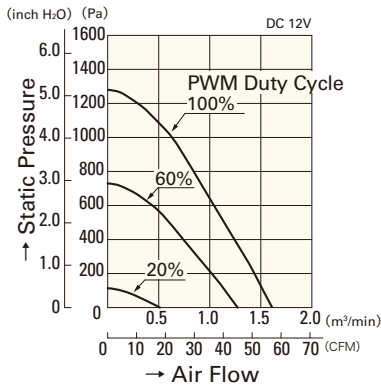


## Air Flow - Static Pressure Characteristics

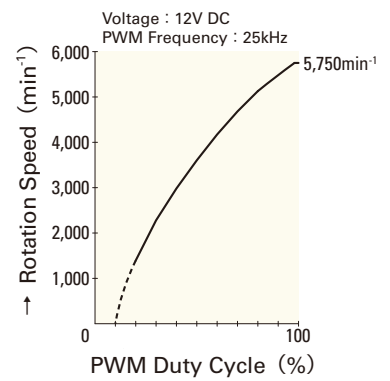
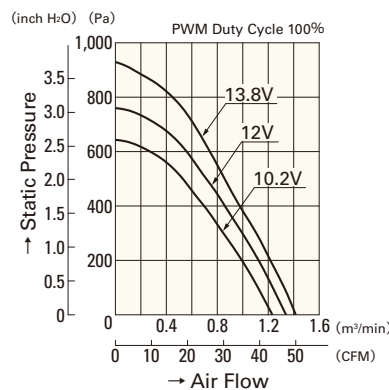
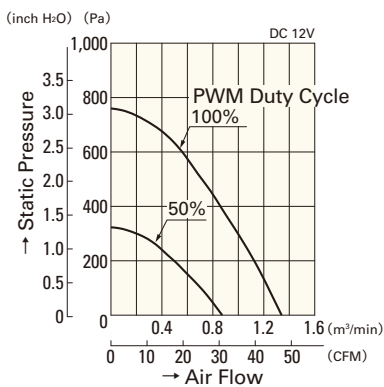
## PWM Duty - Speed Characteristics Example

### PWM Duty Cycle

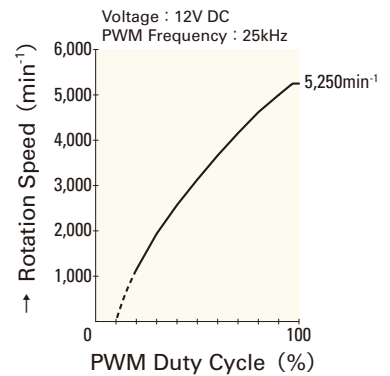
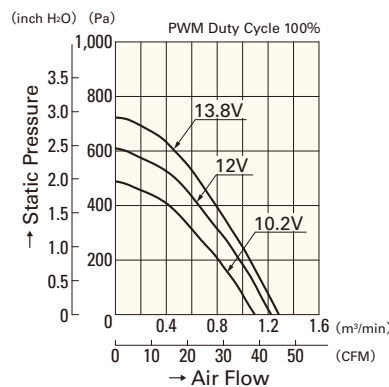
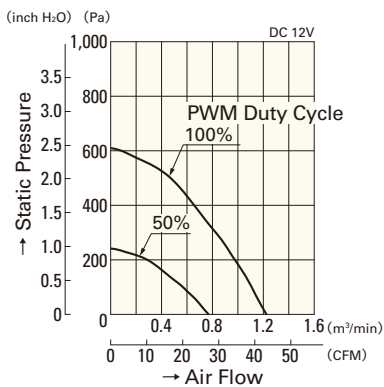
### Operating Voltage Range



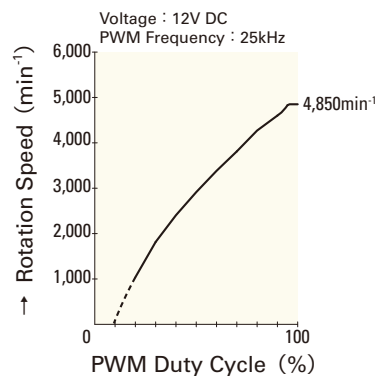
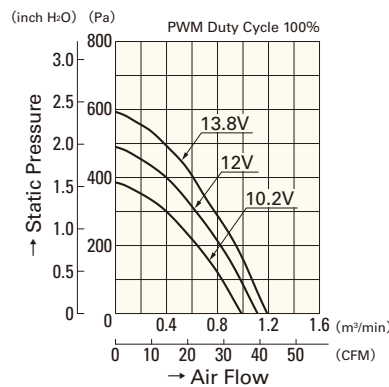
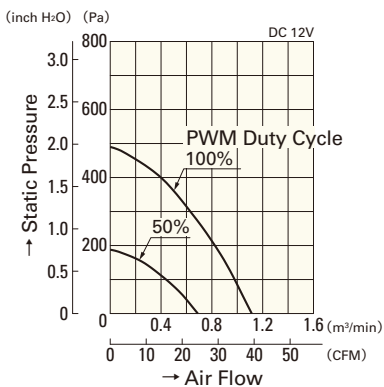
### 9BMB12P2K01



### 9BMB12P2G01



### 9BMB12P2S01



### 9BMB12P2H01

Blower 97mm

97mm

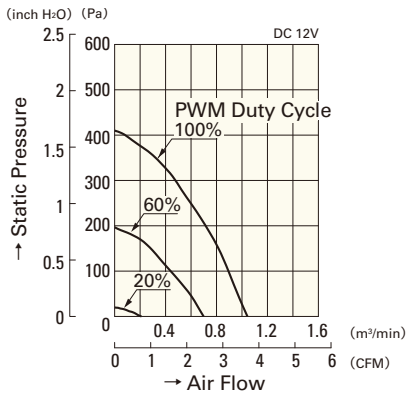
# San Ace B97

97mm × 33mm [Mass : 190g]

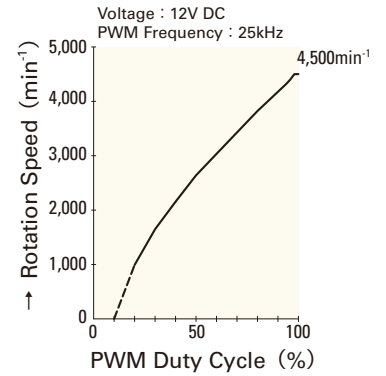
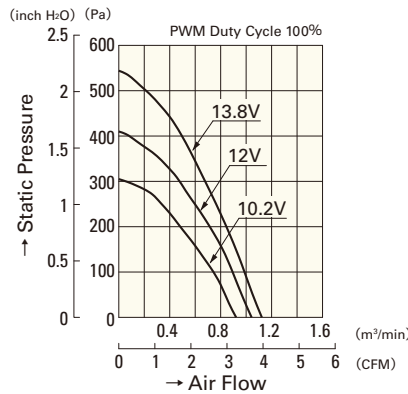
## Air Flow - Static Pressure Characteristics

## PWM Duty - Speed Characteristics Example

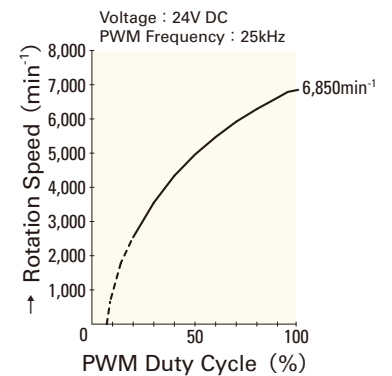
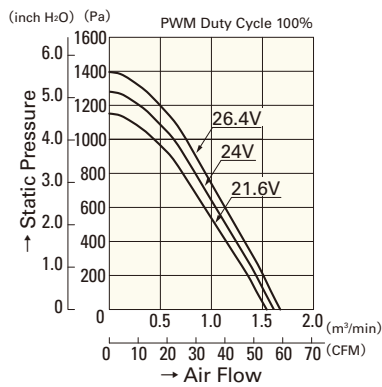
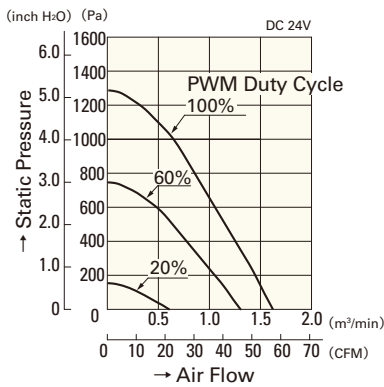
### PWM Duty Cycle



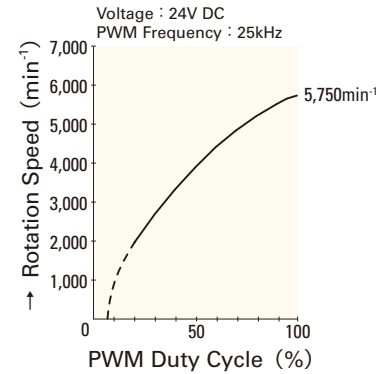
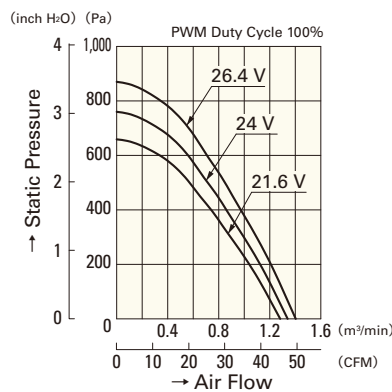
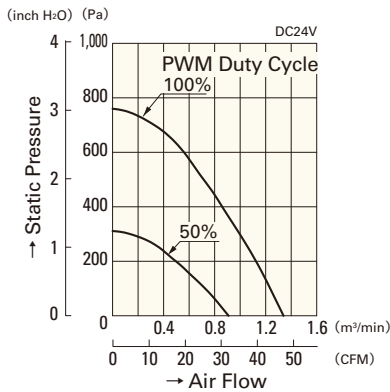
### Operating Voltage Range



## 9BMB12P2F01



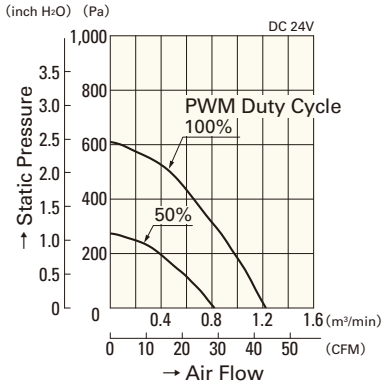
## 9BMB24P2K01



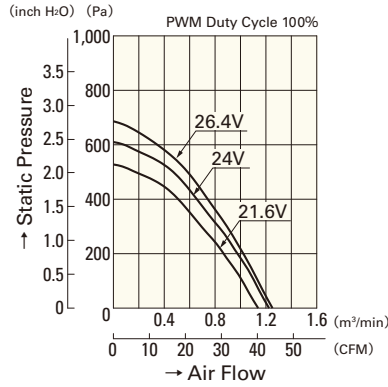
## 9BMB24P2G01

**■ Air Flow - Static Pressure Characteristics**

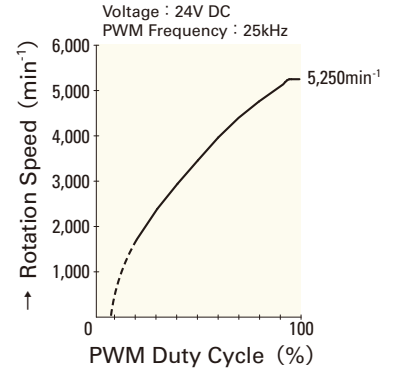
**PWM Duty Cycle**



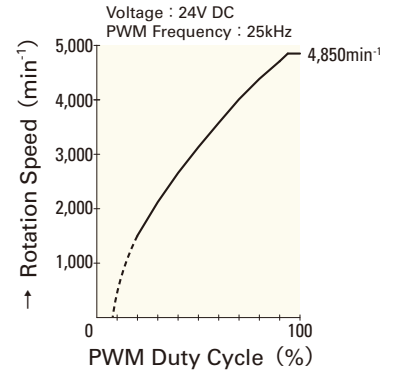
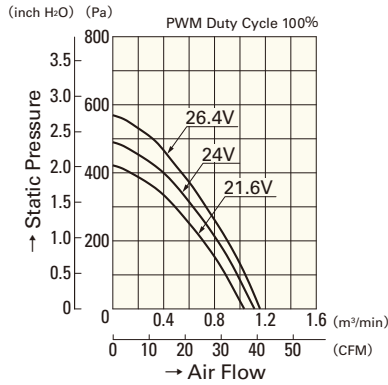
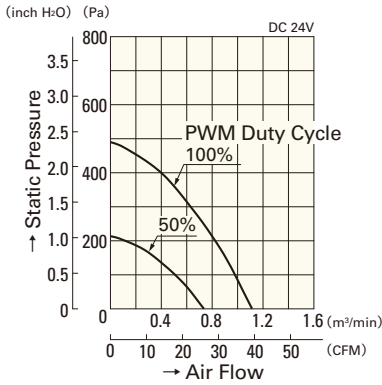
**Operating Voltage Range**



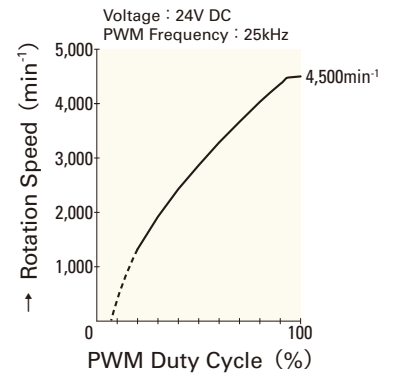
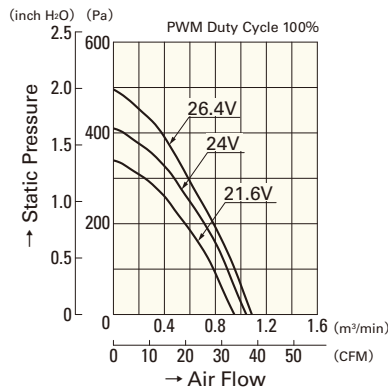
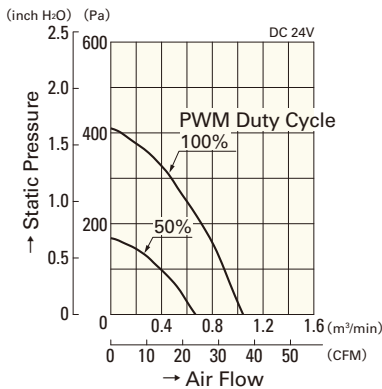
**■ PWM Duty - Speed Characteristics Example**



**9BMB24P2S01**



**9BMB24P2H01**



**9BMB24P2F01**

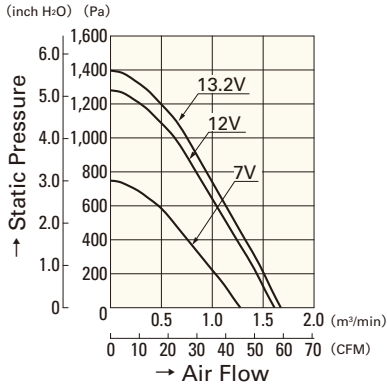
97mm

San Ace B97

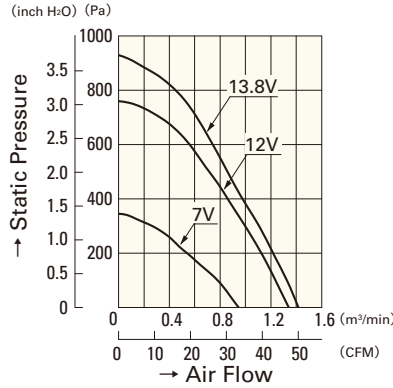
97mm × 33mm [Mass : 190g]

Air Flow - Static Pressure Characteristics

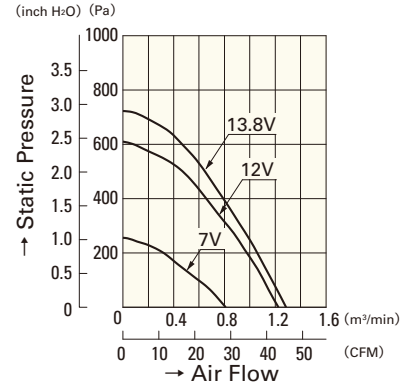
Operating Voltage Range



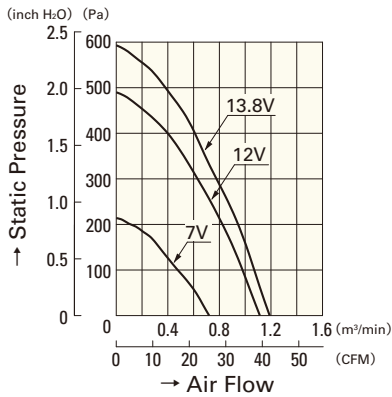
9BMB12K201



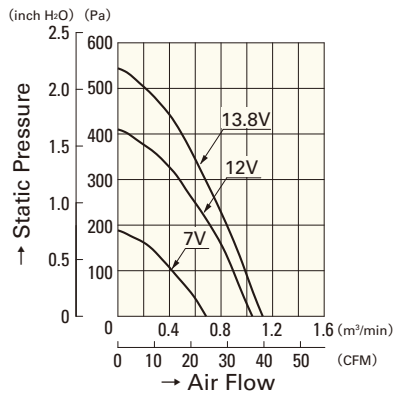
9BMB12G201



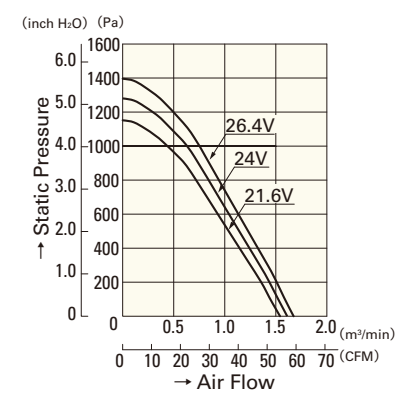
9BMB12S201



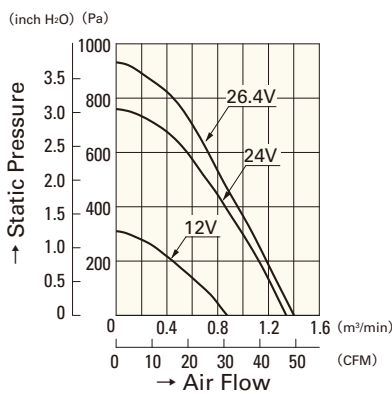
9BMB12H201



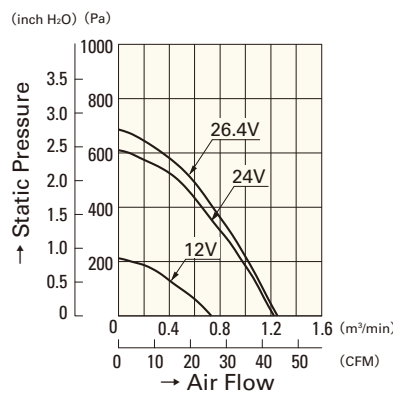
9BMB12F201



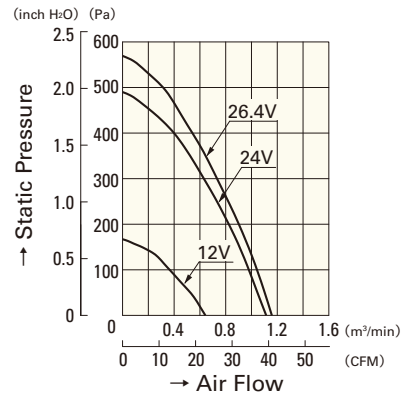
9BMB24K201



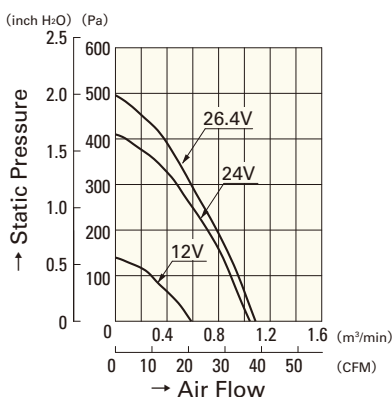
9BMB24G201



9BMB24S201



9BMB24H201



9BMB24F201