



# 97x33 mm

San Ace 97W 9W1BM type 

DC  
Splash Proof Blower 97 mm

## General Specifications

- Material ..... Frame: Aluminum (Black coating), Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in indoor free air at 60°C, rated voltage) Expected life at 40°C is for reference only.
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 614.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... A-weighted sound pressure level (SPL) at 1 m away from the air inlet.
- Storage temperature ..... -30 to +70°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black Sensor Yellow Control Brown
- Mass ..... 240 g
- Ingress protection ..... IP68 For more information on IP rating, refer to p. 621.

## Specifications

The models listed below **have a pulse sensor with PWM control.**

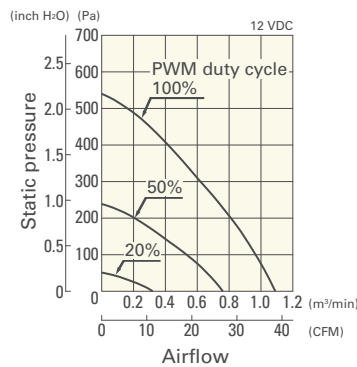
Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle [%]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9W1BM12P2H001	12	10.2 to 13.8	100	1.3	15.6	4800	1.09 38.5	540 2.17	58	-20 to +70	40000/60°C (70000/40°C)
			20	0.14	1.68	1500	0.32 11.3	51 0.2	30		
9W1BM12P2M001			100	0.9	10.8	4100	0.93 32.8	380 1.53	55		
			20	0.14	1.68	1500	0.32 11.3	51 0.2	30		
9W1BM24P2H001	24	20.4 to 27.6	100	0.65	15.6	4800	1.09 38.5	540 2.17	58		
			20	0.07	1.68	1500	0.32 11.3	51 0.2	30		
9W1BM24P2M001			100	0.45	10.8	4100	0.93 32.8	380 1.53	55		
			20	0.07	1.68	1500	0.32 11.3	51 0.2	30		

\* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

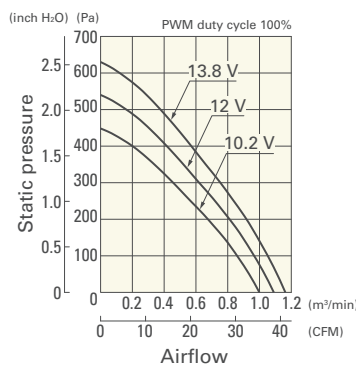
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9W1BM12P2H001** With pulse sensor with PWM control

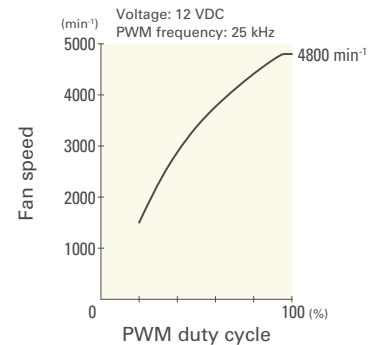
PWM duty cycle



Operating voltage range



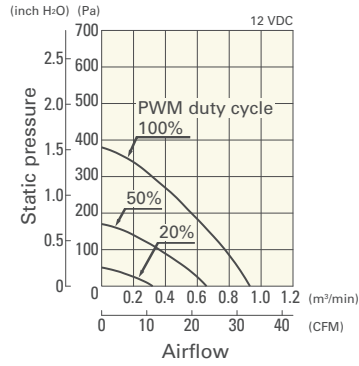
PWM duty - Speed characteristics example



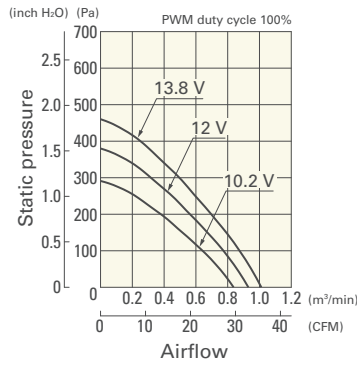
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9W1BM12P2M001** With pulse sensor with PWM control

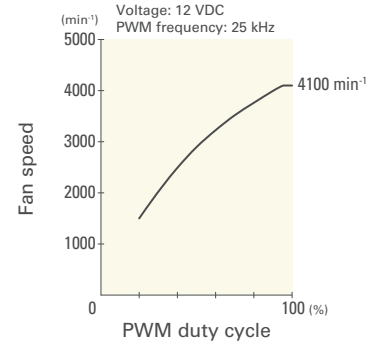
PWM duty cycle



Operating voltage range

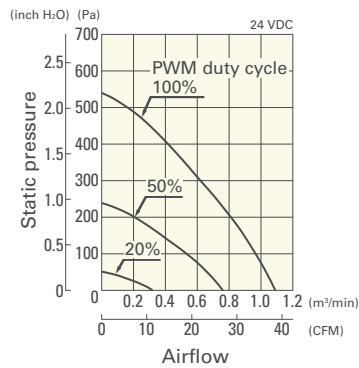


PWM duty - Speed characteristics example

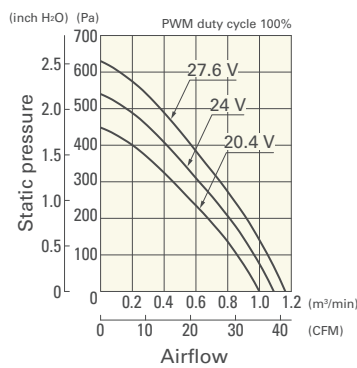


**9W1BM24P2H001** With pulse sensor with PWM control

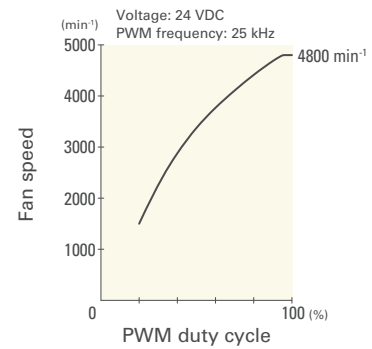
PWM duty cycle



Operating voltage range

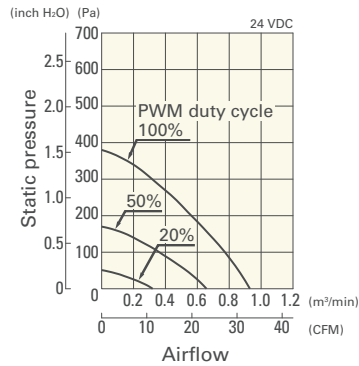


PWM duty - Speed characteristics example

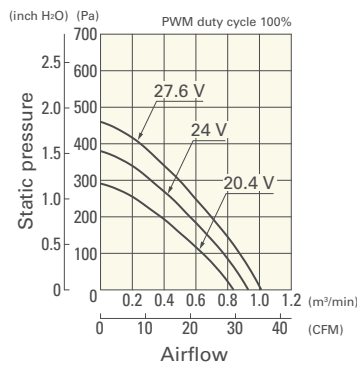


**9W1BM24P2M001** With pulse sensor with PWM control

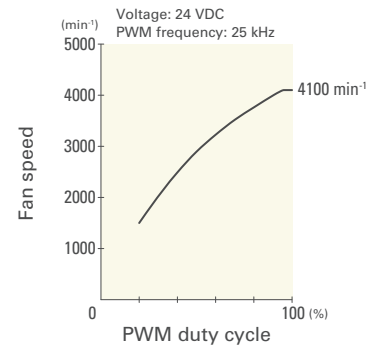
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



DC

Splash Proof Blower 97 mm

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