



# 80×80×38 mm

San Ace 80 9GA type Low Power Consumption Fan

## General Specifications

- Material ..... Frame: 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 free air at 60°C, rated voltage)
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 529.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- 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 ..... 160 g

## Specifications

The models listed below **have ribs and pulse sensors with PWM control function.** For models without ribs, append "1" to the end of model numbers.

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]		
9GA0812P1G61	12	10.8 to 13.2	100	1.2	14.4	10500	2.85 100.6	480 1.93	60	-20 to +70	40000/60°C (70000/40°C)		
			0	0.04	0.48	2000	0.51 18.0	28.7 0.11	21				
9GA0812P1S61			100	0.94	11.28	9550	2.6 91.8	480 1.93	59				
			0	0.1	1.2	2900	0.74 26.1	60 0.24	27				
9GA0812P1H61			100	0.6	7.2	8250	2.25 79.4	380 1.53	55				
			0	0.08	0.96	2500	0.64 22.6	45 0.18	24				
9GA0824P1S61	24	20.4 to 27.6	100	0.47	11.28	9550	2.6 91.8	480 1.93	59				
			0	0.06	1.44	2900	0.74 26.1	60 0.24	27				
9GA0824P1H61			100	0.3	7.2	8250	2.25 79.4	380 1.53	55				
			0	0.05	1.2	2500	0.64 22.6	45 0.18	24				
9GA0848P1S61			48	40.8 to 55.2	100	0.25	12	9550	2.6 91.8			480 1.93	59
					0	0.04	1.92	2990	0.74 26.1			60 0.24	27

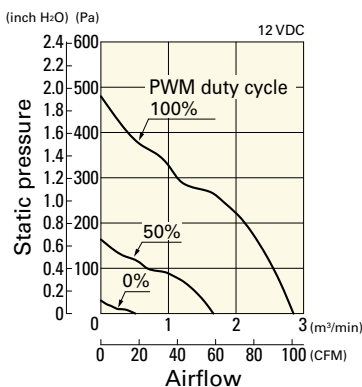
\* PWM frequency: 25 kHz

Other sensor specifications are available as options. Refer to the index (p. 552).

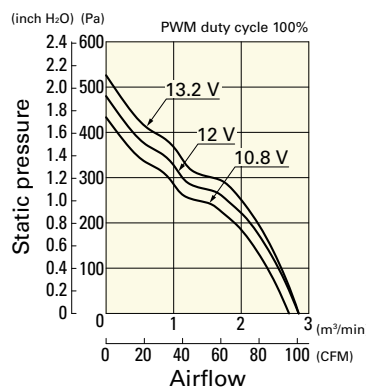
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P1G61** With pulse sensor with PWM control function

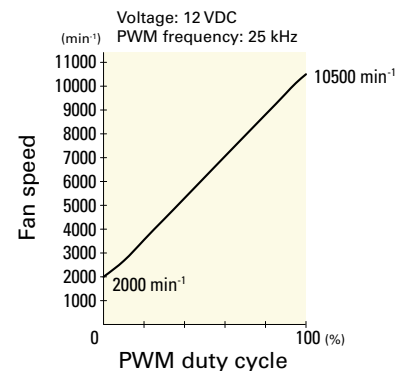
PWM duty cycle



Operating voltage range



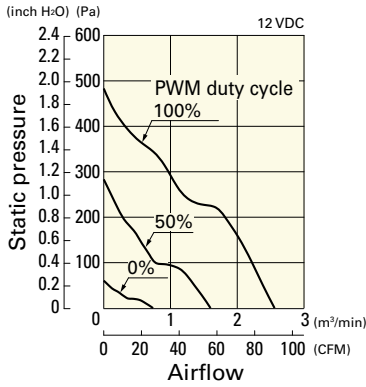
PWM duty - Speed characteristics example



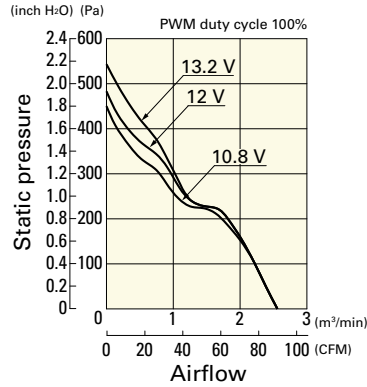
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P1S61** With pulse sensor with PWM control function

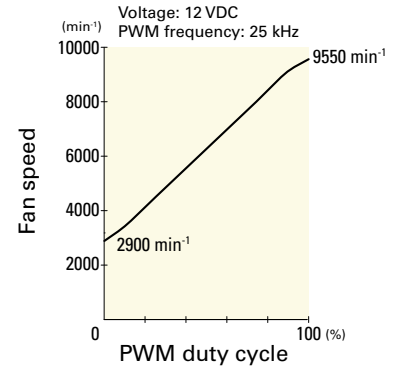
PWM duty cycle



Operating voltage range

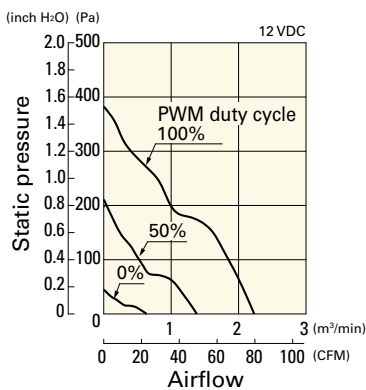


PWM duty - Speed characteristics example

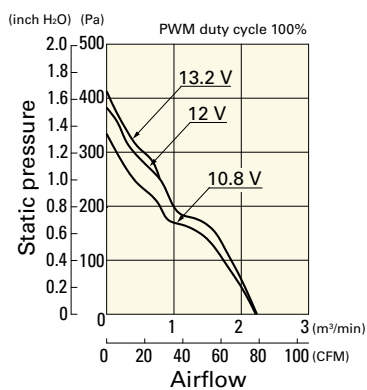


**9GA0812P1H61** With pulse sensor with PWM control function

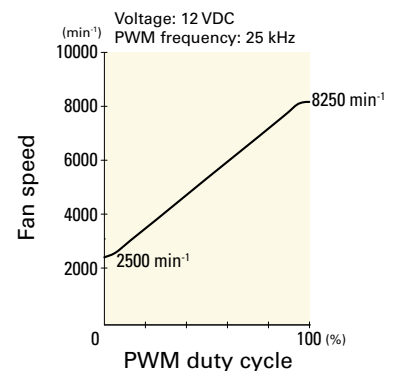
PWM duty cycle



Operating voltage range

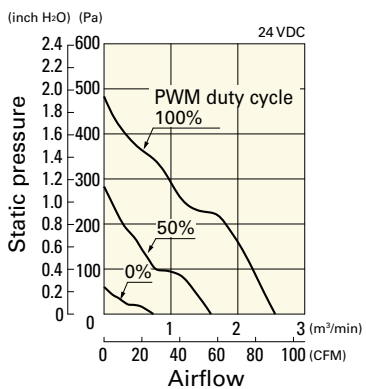


PWM duty - Speed characteristics example

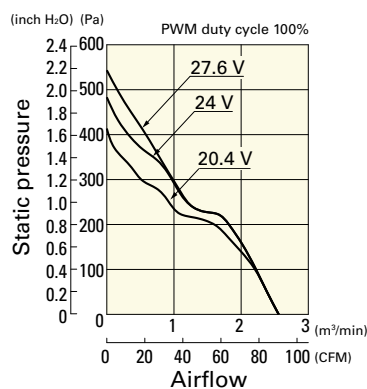


**9GA0824P1S61** With pulse sensor with PWM control function

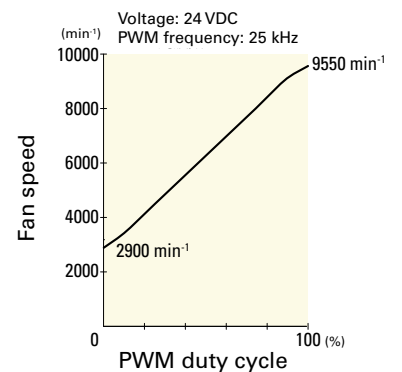
PWM duty cycle



Operating voltage range

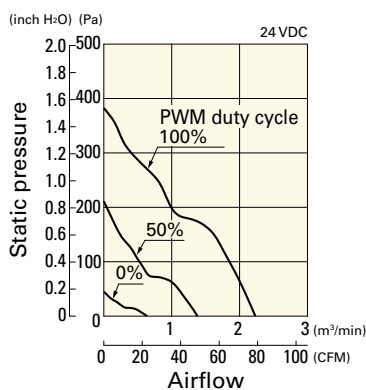


PWM duty - Speed characteristics example

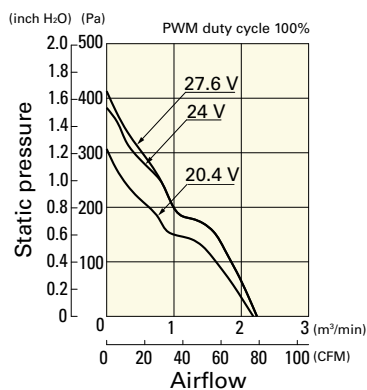


**9GA0824P1H61** With pulse sensor with PWM control function

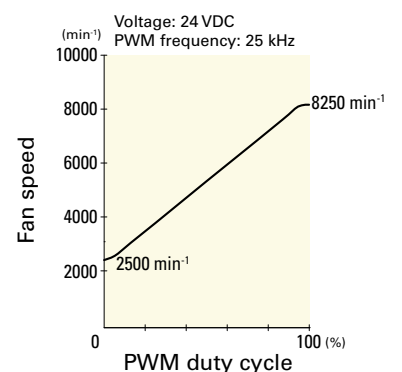
PWM duty cycle



Operating voltage range



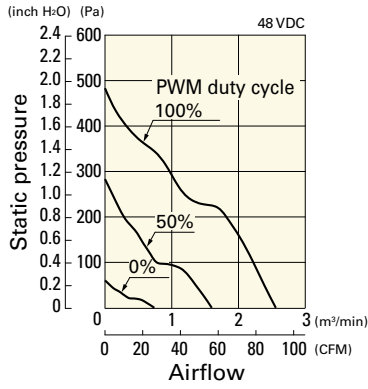
PWM duty - Speed characteristics example



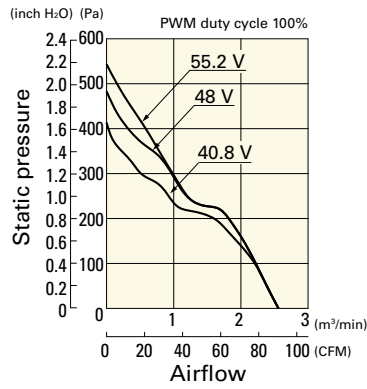
**Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example**

**9GA0848P1S61** With pulse sensor with PWM control function

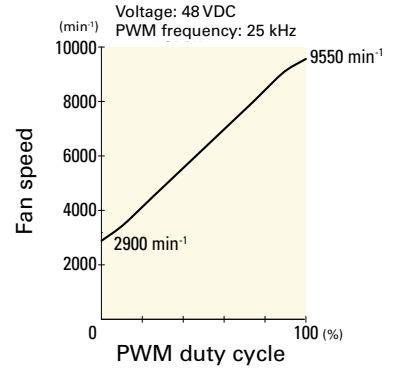
PWM duty cycle



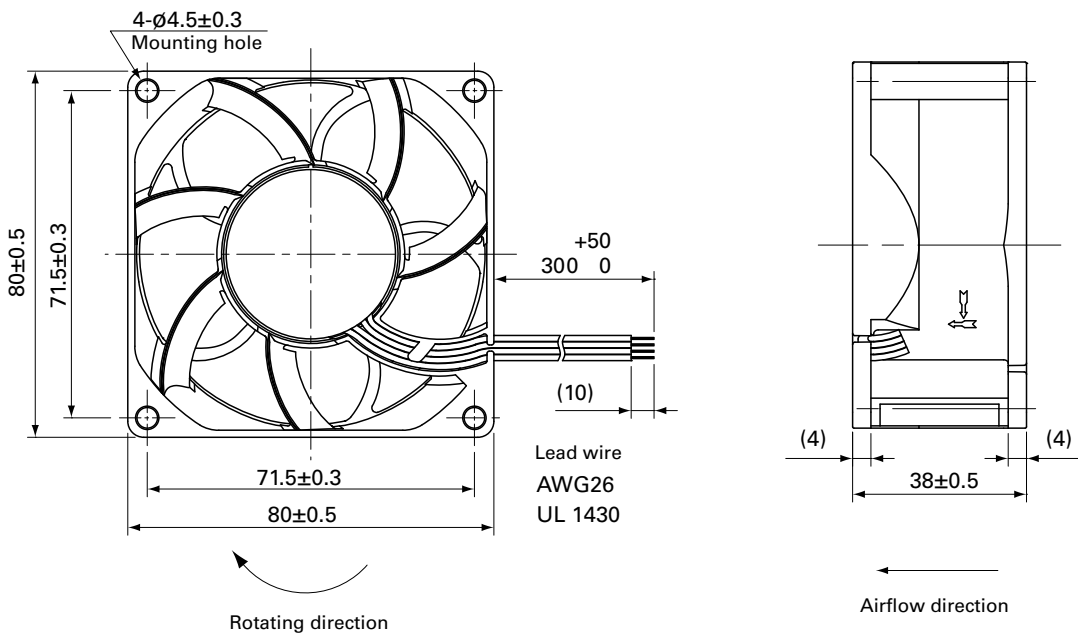
Operating voltage range



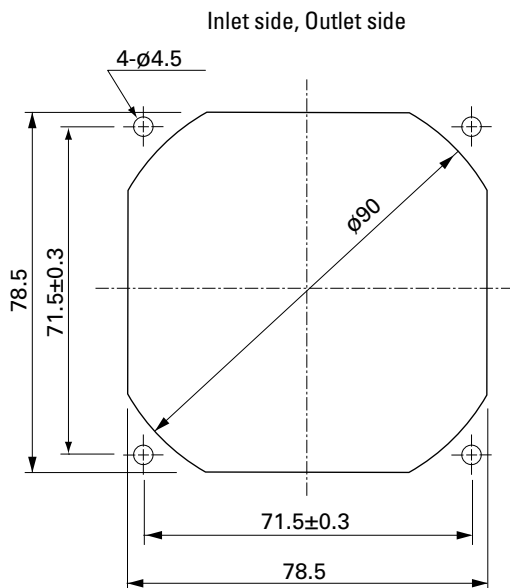
PWM duty - Speed characteristics example



**Dimensions (unit: mm) (With ribs)**



**Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)**



## Options

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### Finger guards

page: p. 513

Model no.: 109-049C, 109-049E, 109-049H

### Resin finger guards

page: p. 520

Model no.: 109-1002G

### Resin filter kits

page: p. 521

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),  
109-1002F30 (30PPI), 109-1002F40 (40PPI)

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