

# 80×80×25 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. 547.
- 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 ..... 110 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]
9GA0812P4J001	12	10.8 to 13.2	100	0.6	7.2	7400	2.07 73.0	177.6 0.7	48	-20 to +70	40000/60°C (70000/40°C)
			25	0.08	0.96	2500	0.69 24.3	20.2 0.08	21		
9GA0812P4G001			100	0.48	5.76	6800	1.91 67.4	150 0.6	45		
			25	0.06	0.72	1500	0.42 14.8	7.2 0.02	17		
9GA0812P4H001			100	0.22	2.64	5200	1.46 51.5	87.7 0.35	37		
			25	0.06	0.72	1600	0.44 15.5	8.3 0.03	17		
9GA0824P4J001	24	21.6 to 26.4	100	0.28	6.72	7400	2.07 73.0	177.6 0.7	48		
			25	0.06	1.44	2800	0.78 27.5	25.4 0.1	23		
9GA0824P4G001			100	0.21	5.04	6800	1.91 67.4	150 0.6	45		
			25	0.04	0.96	2100	0.58 20.4	14.3 0.05	19		
9GA0824P4H001			100	0.1	2.4	5200	1.46 51.5	87.7 0.35	37		
			25	0.02	0.48	1500	0.42 14.8	7.2 0.02	17		

\* PWM frequency: 25 kHz. Fan does not rotate when PWM duty cycle is 0%.

The following sensor and control options are available for selection.

Available for all models. **Without sensor** **Pulse sensor**

Differs according to the model. Refer to the table on pp. 571 to 572. **Lock sensor**

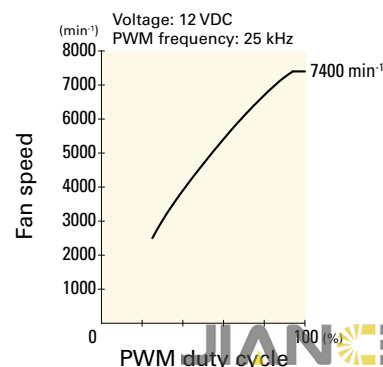
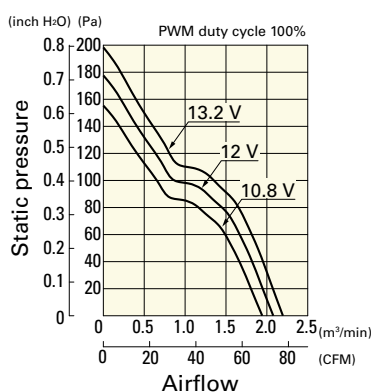
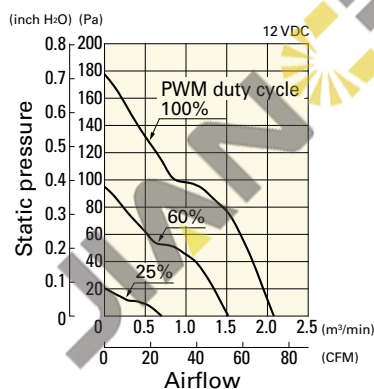
### Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P4J001** With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

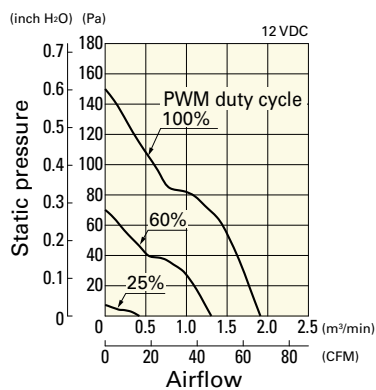
PWM duty - Speed characteristics example



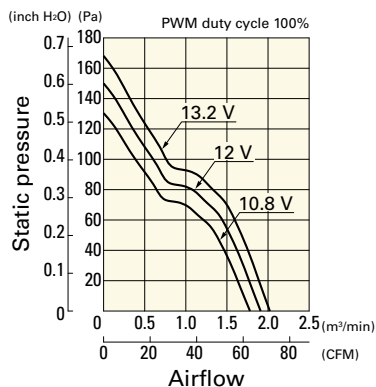
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P4G001** With pulse sensor with PWM control function

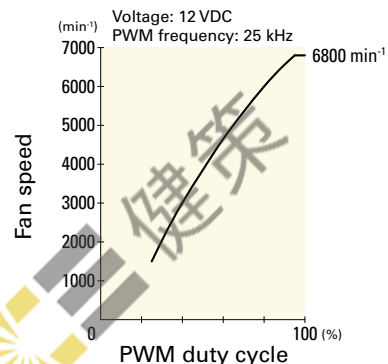
PWM duty cycle



Operating voltage range

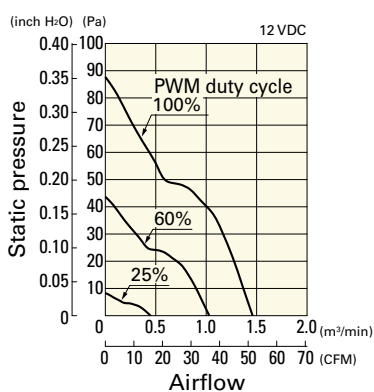


PWM duty - Speed characteristics example

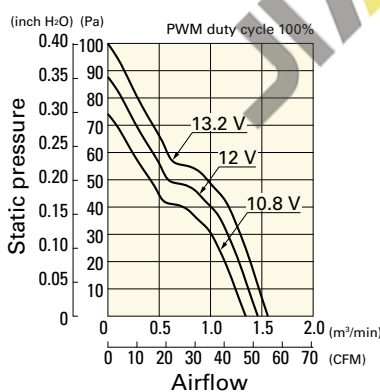


**9GA0812P4H001** With pulse sensor with PWM control function

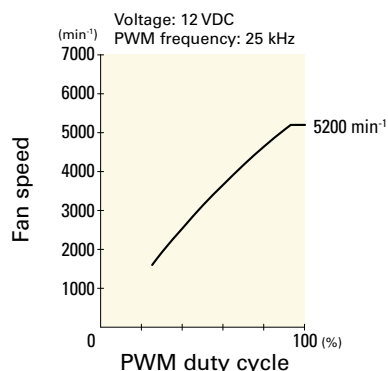
PWM duty cycle



Operating voltage range

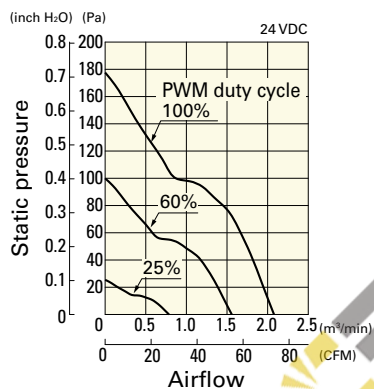


PWM duty - Speed characteristics example

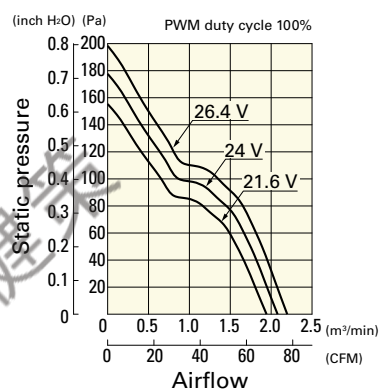


**9GA0824P4J001** With pulse sensor with PWM control function

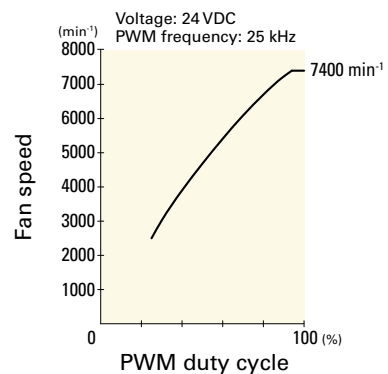
PWM duty cycle



Operating voltage range

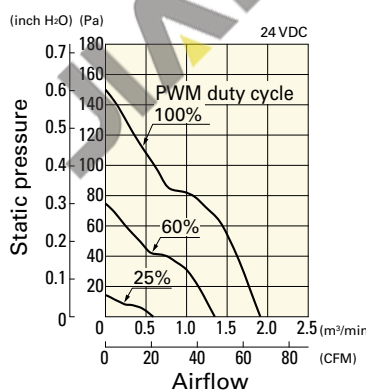


PWM duty - Speed characteristics example

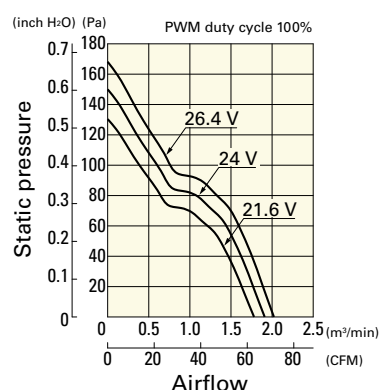


**9GA0824P4G001** With pulse sensor with PWM control function

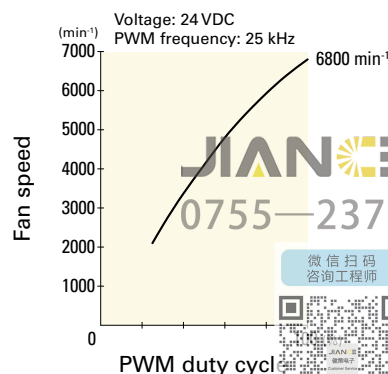
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example

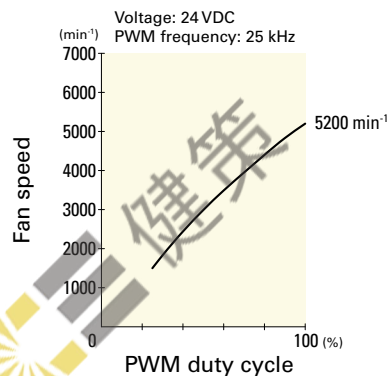


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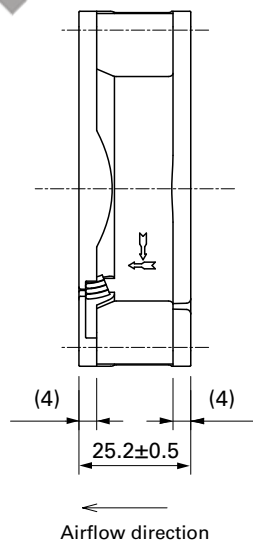
**9GA0824P4H001** With pulse sensor with PWM control function

### PWM duty - Speed characteristics example



Technical drawing of the fan assembly showing dimensions and specifications:

- Mounting hole:  $4-\phi 4.5 \pm 0.3$
- Overall width:  $80 \pm 0.5$
- Overall height:  $80 \pm 0.5$
- Internal width dimension:  $71.5 \pm 0.3$
- Internal height dimension:  $71.5 \pm 0.3$
- Lead wire: AWG26, UL 1007
- Lead wire length:  $+50$  to  $300$  mm
- Lead wire diameter:  $(10)$  mm
- Rotating direction: Indicated by a curved arrow.



Technical drawing of a square plate with rounded corners and four holes. The drawing includes the following dimensions and features:

- Overall width: 78.5
- Overall height: 78.5
- Distance between hole centers (horizontal and vertical):  $71.5 \pm 0.3$
- Hole diameter:  $4 \text{ } \phi 4.5$
- Diagonal dimension:  $\phi 90$
- Text labels: "Inlet side, Outlet side" at the top.

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## Options

### Finger guards

page: p. 532

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

### Resin filter kits

page: p. 540

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

### Resin finger guards

page: p. 539

Model no.: 109-1002G

DC

DC Fan 80 mm sq.

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