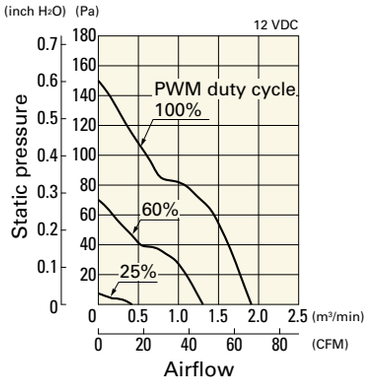
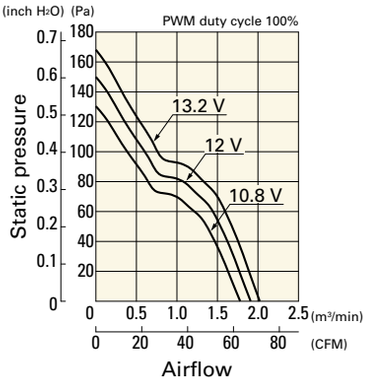
9GA0812P4G001 With pulse sensor with PWM control

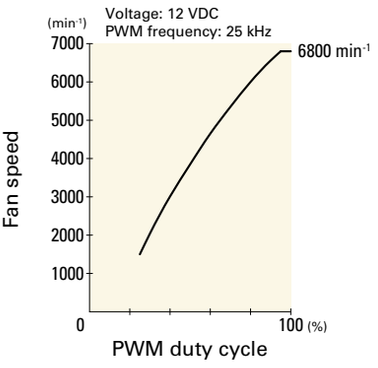
PWM duty cycle



Operating voltage range

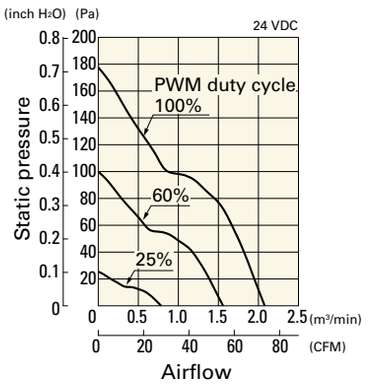


PWM duty - Speed characteristics example

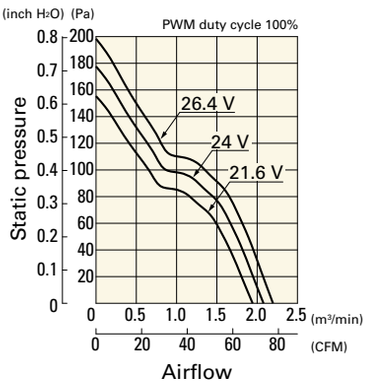


9GA0824P4J001 With pulse sensor with PWM control

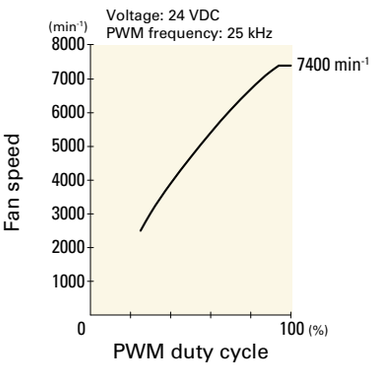
PWM duty cycle



Operating voltage range

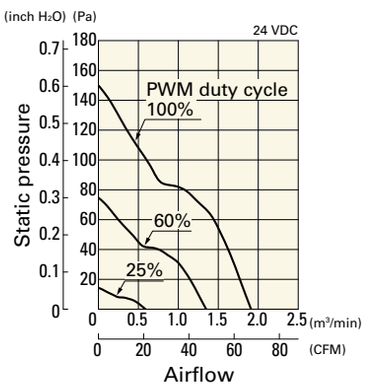


PWM duty - Speed characteristics example

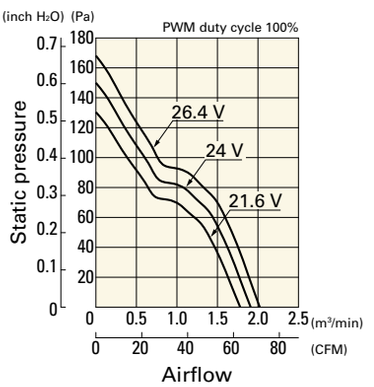


9GA0824P4G001 With pulse sensor with PWM control

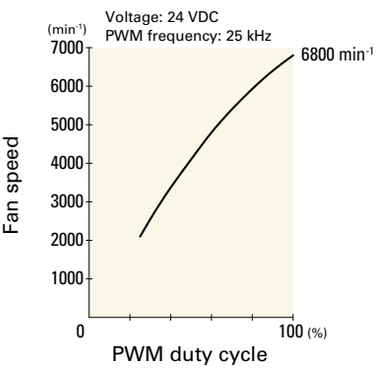
PWM duty cycle



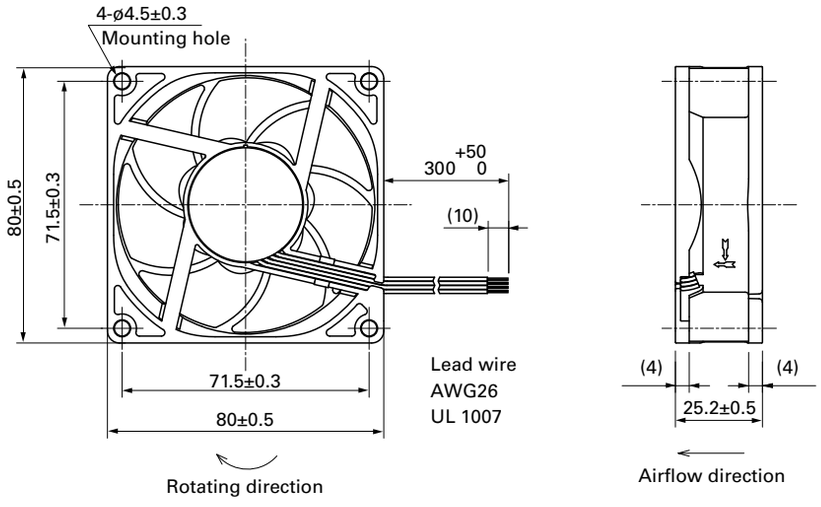
Operating voltage range



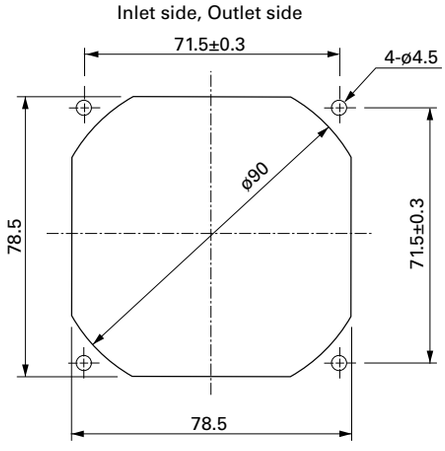
PWM duty - Speed characteristics example



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



Options

Finger guards page: p. 598

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

Resin filter kits page: p. 606

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

Resin finger guards page: p. 605

Model no.: 109-1002G

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80×80×25 mm

San Ace 80 9RA type



General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in 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. 616.
- 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 (For models without PWM control, there is no speed control wiring.)
- Mass ..... 110 g

Specifications

The models listed below **have ribs and a pulse sensor with PWM control.** 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⁻¹]	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [˚C]	Expected life [h]
9RA0812P4G001	12	10.8 to 13.2	100	0.22	2.64	5000	1.4	49.4	83	0.33	37	-20 to +70	60000/60˚C (90000/40˚C)
			30	0.03	0.36	1100	0.3	10.6	4	0.01	11		
9RA0824P4G001	24	21.6 to 26.4	100	0.11	2.64	5000	1.4	49.4	83	0.33	37		
			20	0.02	0.48	1000	0.28	9.8	3.3	0.01	10		
9RA0848P4G001	48	43.2 to 52.8	100	0.07	3.36	5000	1.4	49.4	83	0.33	37		
			20	0.02	0.96	1700	0.47	16.5	9.6	0.04	14		

* 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.

The models listed below **have ribs and a pulse sensor.** For models without ribs, append "1" to the end of model numbers.

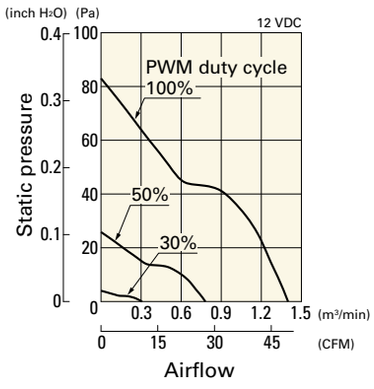
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min⁻¹]	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [˚C]	Expected life [h]
9RA0812G4001	12	7 to 13.8	0.22	2.64	5000	1.4	49.4	83	0.33	37	-20 to +70	60000/60˚C (90000/40˚C)
9RA0812S4001			0.12	1.44	3900	1.09	38.5	50	0.21	31		
9RA0812H4001			0.08	0.96	3300	0.92	32.5	36	0.14	27		
9RA0812M4001			0.06	0.72	2650	0.74	26.1	23	0.09	22		
9RA0824G4001	24	14 to 27.6	0.11	2.64	5000	1.4	49.4	83	0.33	37		
9RA0824S4001			0.06	1.44	3900	1.09	38.5	50	0.21	31		
9RA0824H4001			0.05	1.2	3300	0.92	32.5	36	0.14	27		
9RA0824M4001			0.04	0.96	2650	0.74	26.1	23	0.09	22		
9RA0848G4001	48	36 to 55.2	0.07	3.36	5000	1.4	49.4	83	0.33	37		
9RA0848S4001			0.05	2.4	3900	1.09	38.5	50	0.21	31		

Note: Sensor and control options are available for selection. Refer to the table on p. 655 to 656.

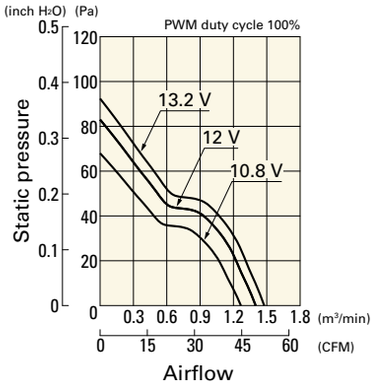
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9RA0812P4G001 With pulse sensor with PWM control

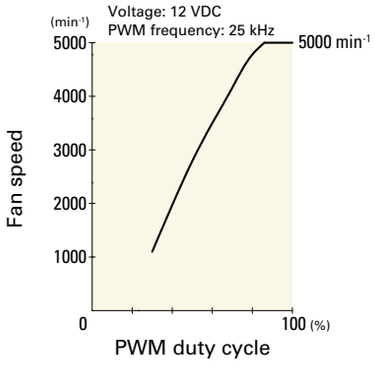
PWM duty cycle



Operating voltage range

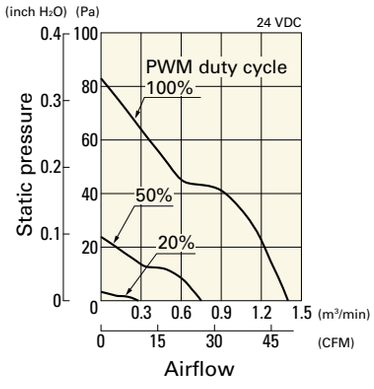


PWM duty - Speed characteristics example

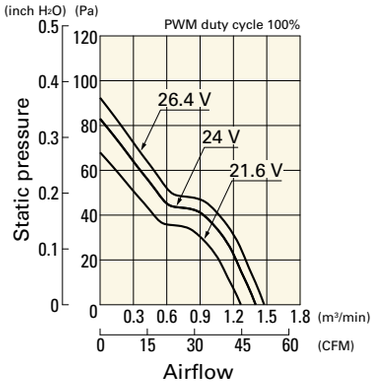


9RA0824P4G001 With pulse sensor with PWM control

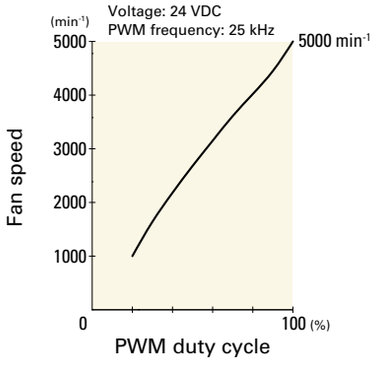
PWM duty cycle



Operating voltage range

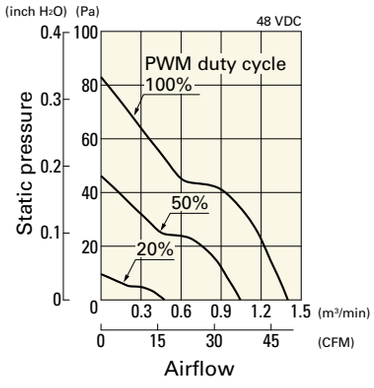


PWM duty - Speed characteristics example

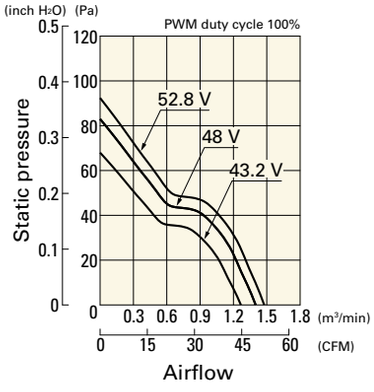


9RA0848P4G001 With pulse sensor with PWM control

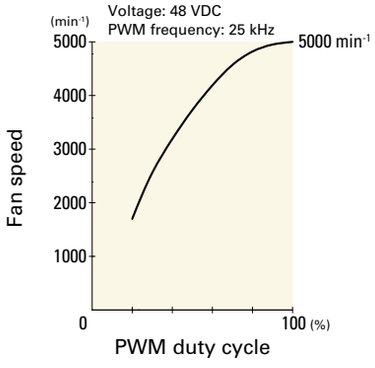
PWM duty cycle



Operating voltage range



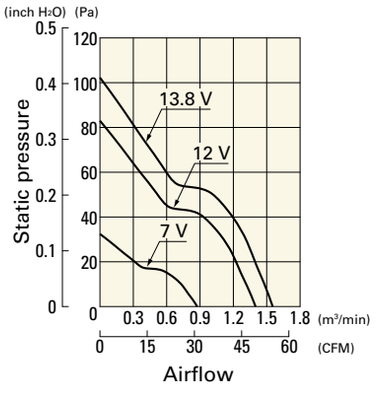
PWM duty - Speed characteristics example



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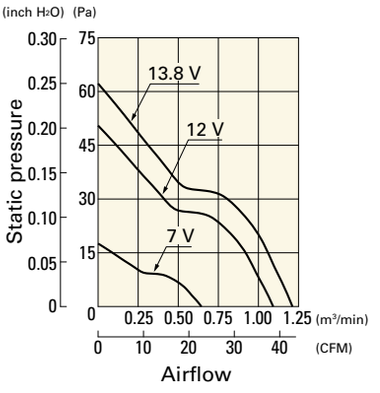
9RA0812G4001 With pulse sensor

Operating voltage range



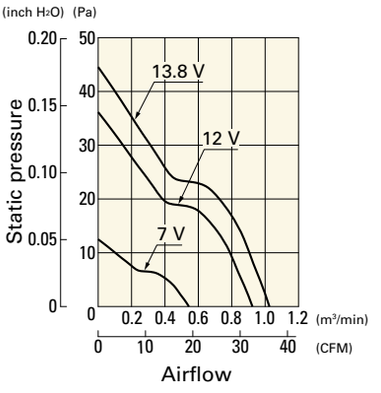
9RA0812S4001 With pulse sensor

Operating voltage range



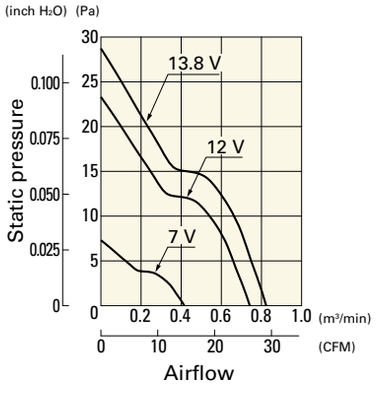
9RA0812H4001 With pulse sensor

Operating voltage range



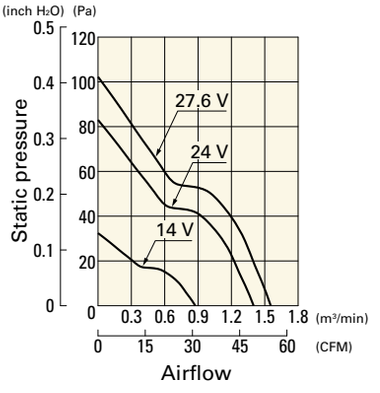
9RA0812M4001 With pulse sensor

Operating voltage range



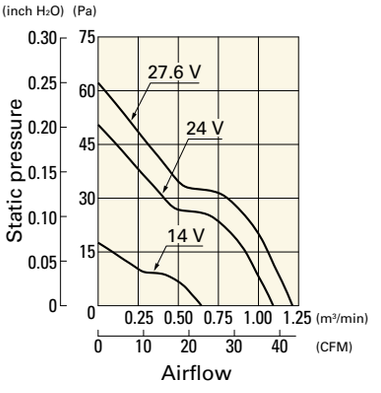
9RA0824G4001 With pulse sensor

Operating voltage range



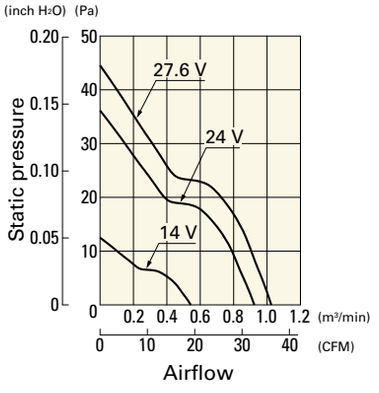
9RA0824S4001 With pulse sensor

Operating voltage range



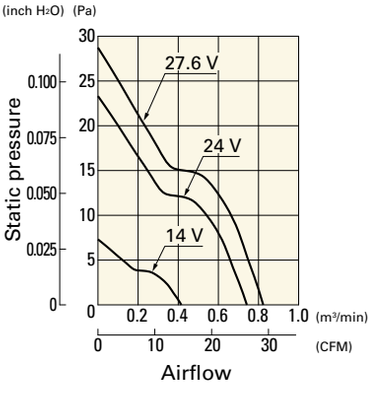
9RA0824H4001 With pulse sensor

Operating voltage range



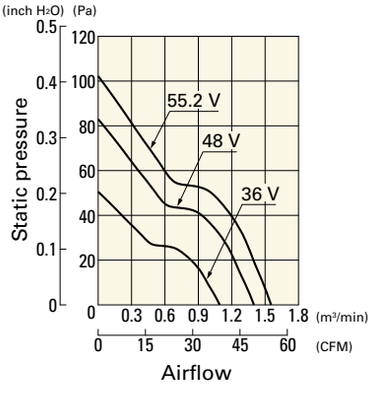
9RA0824M4001 With pulse sensor

Operating voltage range



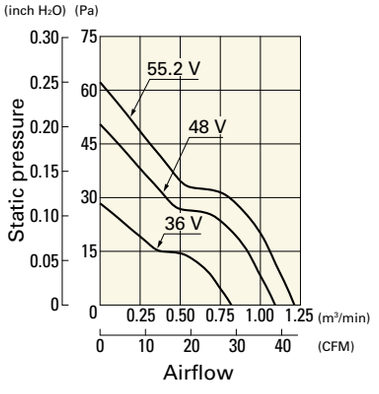
9RA0848G4001 With pulse sensor

Operating voltage range



9RA0848S4001 With pulse sensor

Operating voltage range



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