

San Ace 92

9RA type

DC Fan

Features

Low Noise

Compared to our current product,⁽¹⁾ noise level has been reduced by 5 dB(A).

Energy Saving

Power consumption has been reduced by approximately 13% compared to the current product.⁽²⁾

High Static Pressure

The maximum static pressure has increased by approximately 8% compared to the current product.⁽¹⁾

Rich Lineup

The lineup offers four different rotational speeds for each of 12/24/48 V rated voltages. The broad lineup of fans enables you to choose the right fan best suited to your applications.

(1) Comparison of the new product (model 9RA0948J1001) and current DC fan of the same size (model 9G0948J101).

(2) Comparison of the new product (model 9RA0912G1001) and current DC fan of the same size (model 9G0912G101).



92 × 92 × 38 mm



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 ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating temperature [°C]	Expected life [h]
9RA0912P1J001	12	10.8 to 13.2	100	1.24	14.9	6400	3.28 116	192 0.77	50	-20 to +70	40000/60°C (70000/40°C)
			20	0.07	0.8	1600	0.82 29	12.0 0.05	12		
9RA0912P1G001			100	0.96	11.5	5800	2.97 105	158 0.63	47		
			20	0.06	0.7	1400	0.72 25	9.2 0.04	10		
9RA0924P1J001	24	21.6 to 26.4	100	0.62	14.9	6400	3.28 116	192 0.77	50		
			20	0.07	1.7	2200	1.13 40	22.7 0.09	19		
9RA0924P1G001			100	0.48	11.5	5800	2.97 105	158 0.63	47		
			20	0.05	1.2	2000	1.02 36	18.8 0.08	17		
9RA0948P1J001	48	43.2 to 52.8	100	0.31	14.9	6400	3.28 116	192 0.77	50		
			20	0.03	1.4	2000	1.02 36	18.8 0.08	17		
9RA0948P1G001			100	0.25	12.0	5800	2.97 105	158 0.63	47		
			20	0.03	1.4	1700	0.87 31	13.6 0.05	13		

* 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 pulse sensors**. 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 [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating temperature [°C]	Expected life [h]
9RA0912J1001	12	7 to 13.2	1.24	14.9	6400	3.28 116	192 0.77	50	-20 to +70	40000/60°C (70000/40°C)
9RA0912G1001		7 to 13.8	0.96	11.5	5800	2.97 105	158 0.63	47		
9RA0912H1001			0.52	6.2	4650	2.36 83	102 0.41	40		
9RA0924J1001		14 to 26.4	0.62	14.9	6400	3.28 116	192 0.77	50		
9RA0924G1001	24	14 to 27.6	0.48	11.5	5800	2.97 105	158 0.63	47		
9RA0924H1001			0.26	6.2	4650	2.36 83	102 0.41	40		
9RA0948J1001		36 to 52.8	0.31	14.9	6400	3.28 116	192 0.77	50		
9RA0948G1001			0.25	12.0	5800	2.97 105	158 0.63	47		
9RA0948H1001	48	36 to 55.2	0.14	6.7	4650	2.36 83	102 0.41	40		

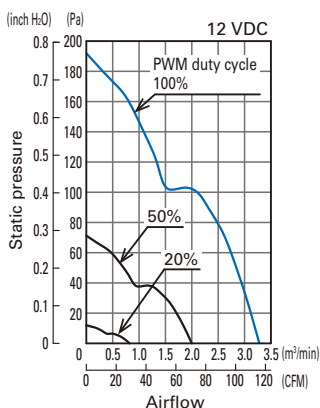
Models with the following sensor specifications are also available as options: **Lock sensor**

Common Specifications

- ☐ Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- ☐ Expected life Refer to specifications
(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
- ☐ 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.
- ☐ Operating temperature..... Refer to specifications (Non-condensing)
- ☐ Storage temperature -30 to +70°C (Non-condensing)
- ☐ Lead wire ⊕ Red ⊖ Black (Sensor) Yellow (Control) Brown
(For models without PWM control function, there is no speed control wiring.)
- ☐ Mass 210 g

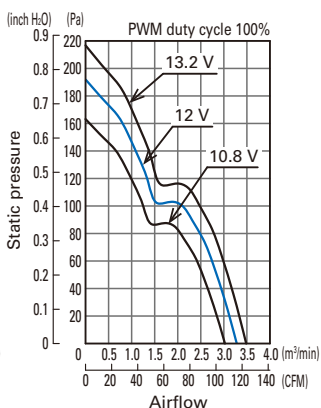
Airflow - Static Pressure Characteristics

PWM duty cycle



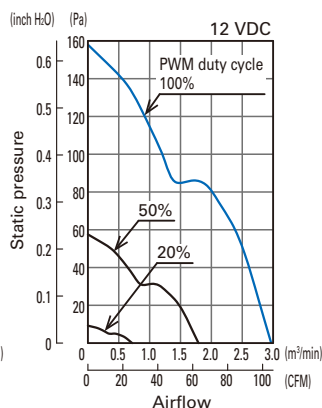
9RA0912P1J001

Operating voltage range



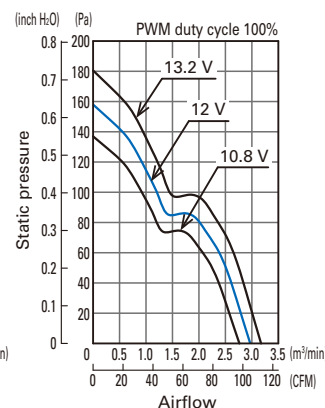
9RA0912P1J001

PWM duty cycle



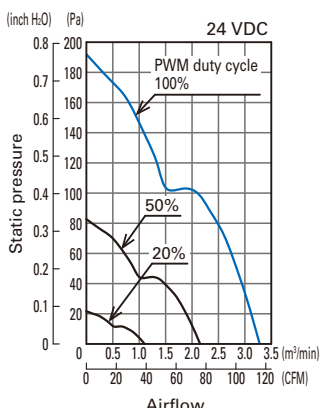
9RA0912P1G001

Operating voltage range



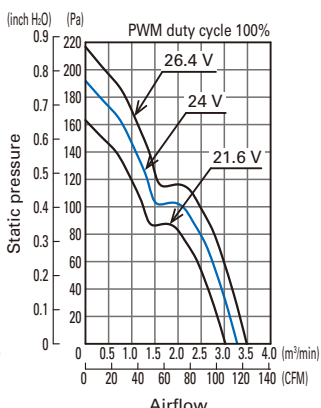
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PWM duty cycle



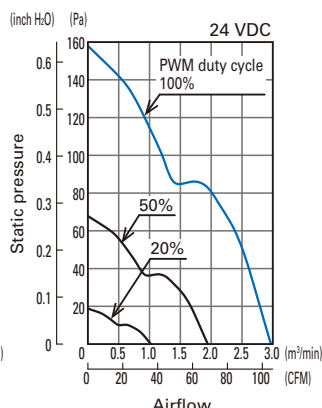
9RA0924P1J001

Operating voltage range



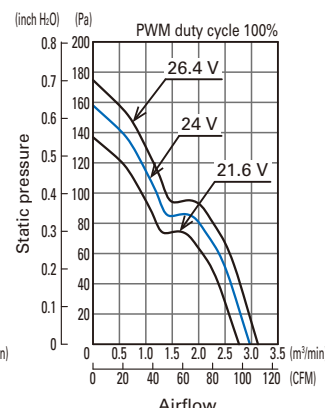
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PWM duty cycle



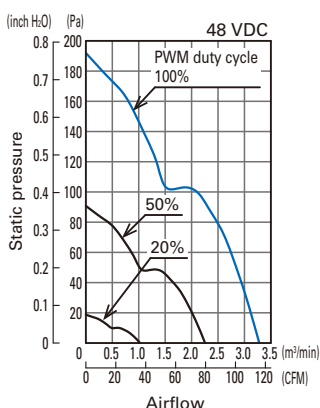
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Operating voltage range



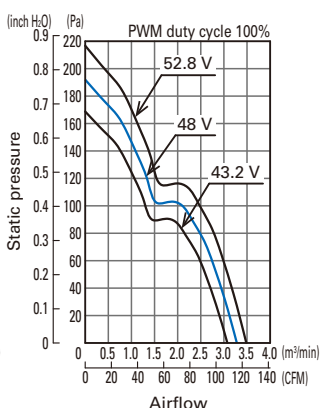
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PWM duty cycle



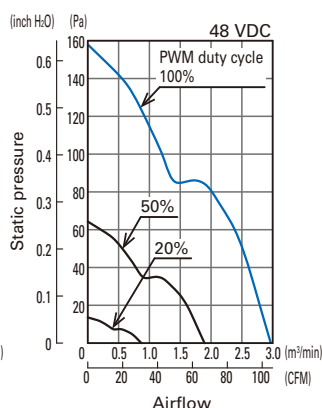
9RA0948P1J001

Operating voltage range



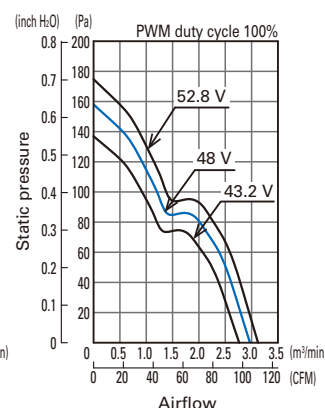
9RA0948P1J001

PWM duty cycle



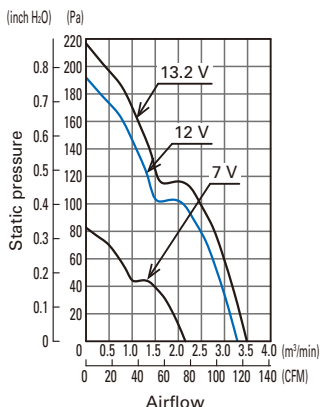
9RA0948P1G001

Operating voltage range

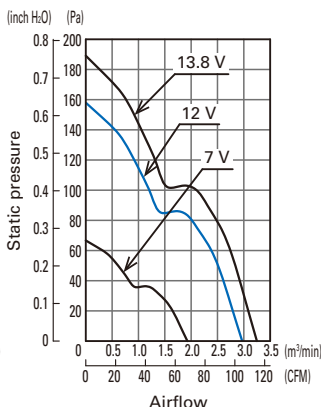


9RA0948P1G001

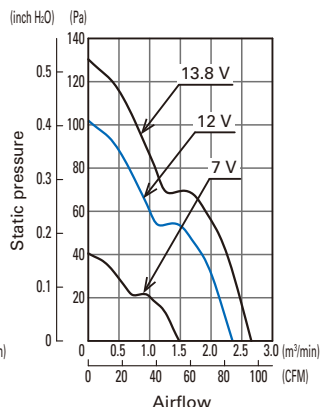
Operating voltage range



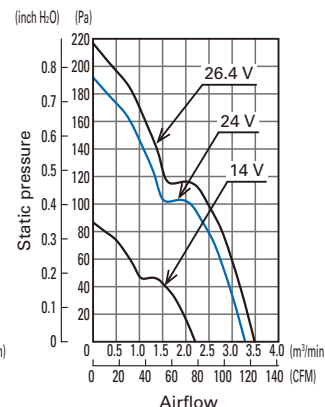
9RA0912J1001



9RA0912G1001



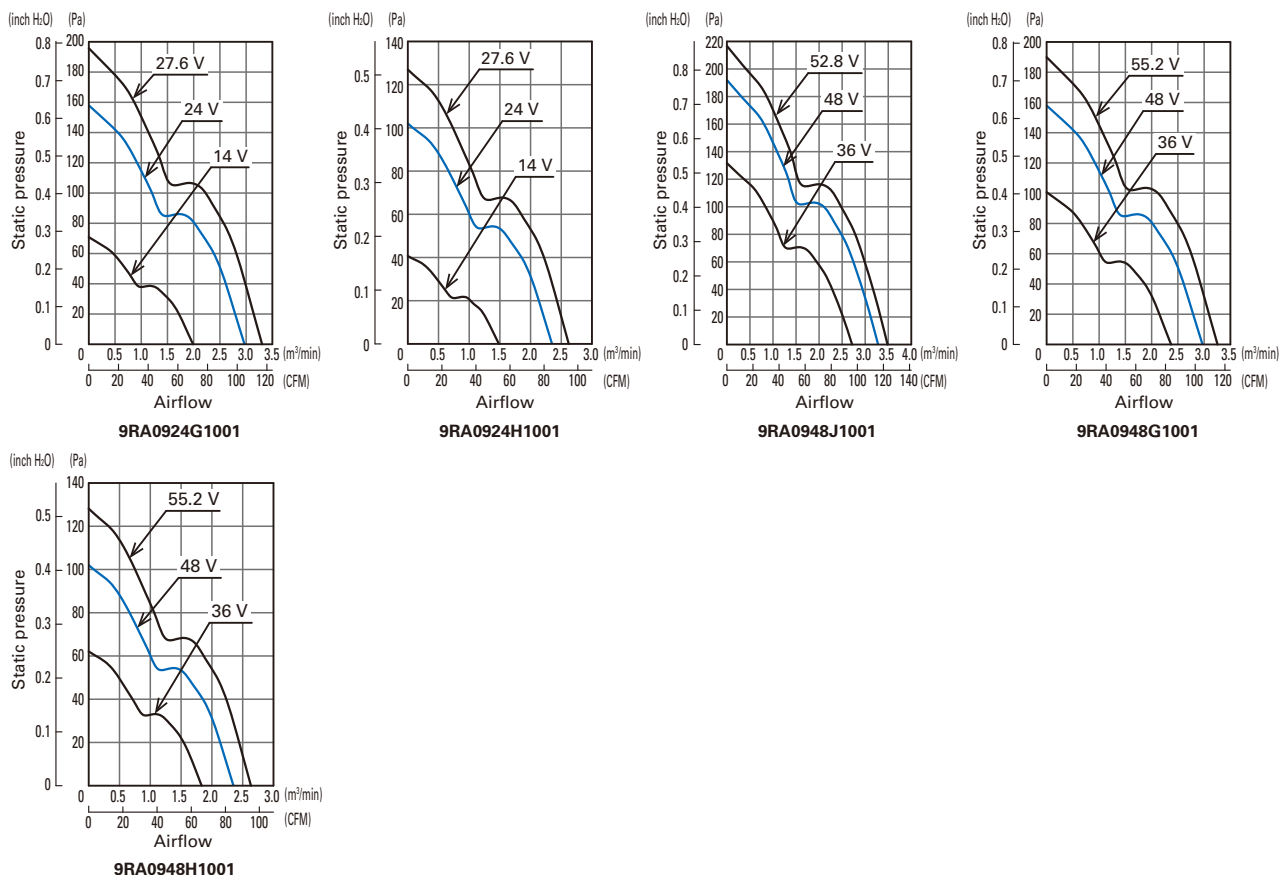
9RA0912H1001



9RA0924J1001

Airflow - Static Pressure Characteristics

Operating voltage range



PWM Duty - Speed Characteristics Example

