



120×120×25 mm

San Ace 120W 9WPA type 

DC
Splash Proof Fan 120 mm sq.

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 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. 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 240 g
- Ingress protection IP68 For more information on IP rating, refer to p. 625.

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 [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WPA1212P4J001	12	10.8 to 13.2	100	1.0	12.0	5400	4.20 148	210 0.84	53	-20 to +60	40000/60°C (70000/40°C)
			20	0.07	0.84	1600	1.24 43.8	24.0 0.10	25		
9WPA1212P4G001	12	10.8 to 13.2	100	0.50	6.0	4250	3.30 117	135 0.54	46	-20 to +70	
			20	0.06	0.72	1300	1.00 35.3	16.0 0.06	20		
9WPA1224P4J001	24	21.6 to 26.4	100	0.50	12.0	5400	4.20 148	210 0.84	53	-20 to +60	
			20	0.05	1.20	1600	1.24 43.8	24.0 0.10	25		
9WPA1224P4G001	24	21.6 to 26.4	100	0.25	6.0	4250	3.30 117	135 0.54	46	-20 to +70	
			20	0.04	0.96	1300	1.00 35.3	16.0 0.06	20		

* 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.

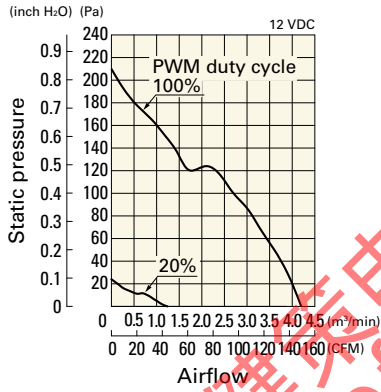
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WPA1212J4001	12	7 to 13.2	1.0	12.0	5400	4.20 148	210 0.84	53	-20 to +60	40000/60°C (70000/40°C)
9WPA1212G4001		7 to 13.8	0.50	6.00	4250	3.30 117	135 0.54	46	-20 to +70	
9WPA1212H4001		10.2 to 13.8	0.12	1.44	2400	1.85 65.0	47.0 0.19	30	-20 to +60	
9WPA1224J4001	24	14 to 26.4	0.50	12.0	5400	4.20 148	210 0.84	53	-20 to +60	
9WPA1224G4001		14 to 27.6	0.25	6.00	4250	3.30 117	135 0.54	46	-20 to +70	
9WPA1224H4001		20.4 to 27.6	0.06	1.44	2400	1.85 65.0	47.0 0.19	30	-20 to +70	

Note: Sensor and control options are available for selection. Refer to the table on p. 662 to 663.

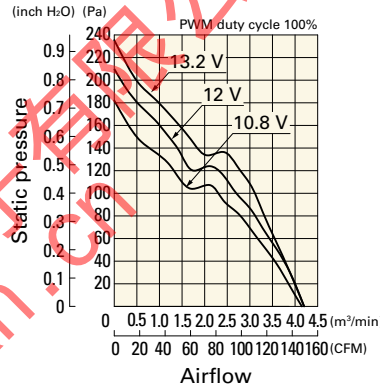
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WPA1212P4J001 With pulse sensor with PWM control

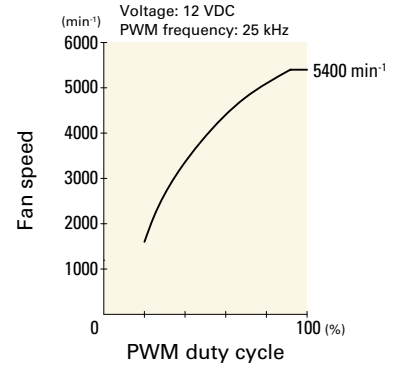
PWM duty cycle



Operating voltage range

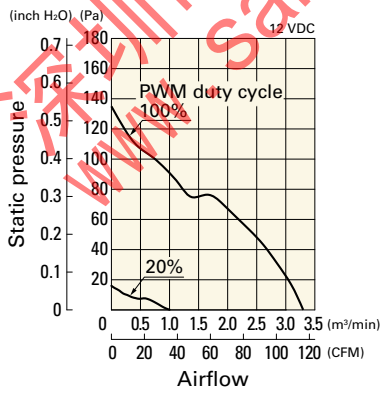


PWM duty - Speed characteristics example

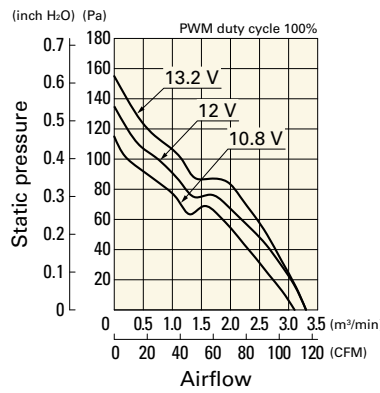


9WPA1212P4G001 With pulse sensor with PWM control

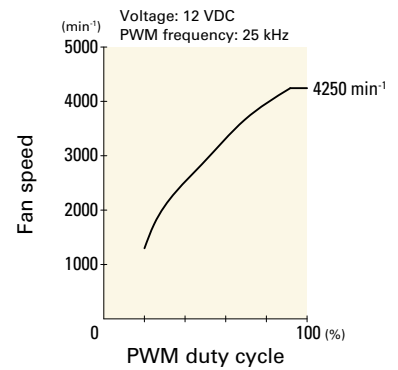
PWM duty cycle



Operating voltage range

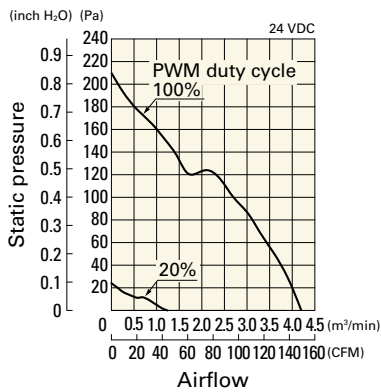


PWM duty - Speed characteristics example

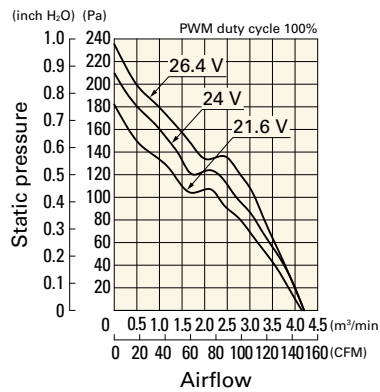


9WPA1224P4J001 With pulse sensor with PWM control

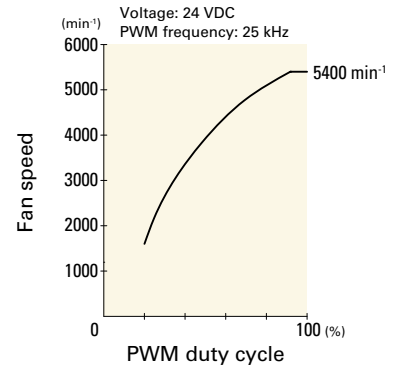
PWM duty cycle



Operating voltage range

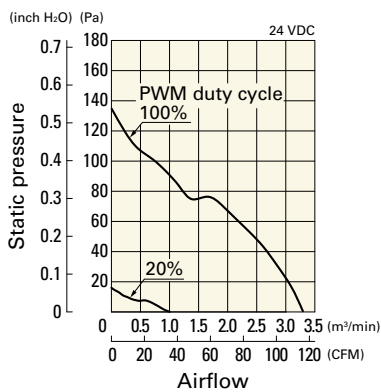


PWM duty - Speed characteristics example

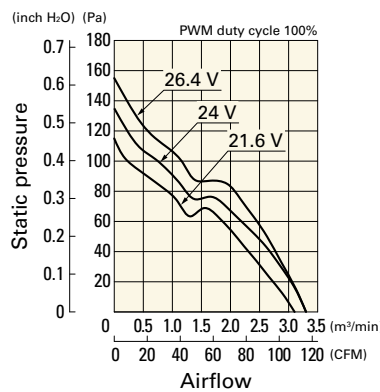


9WPA1224P4G001 With pulse sensor with PWM control

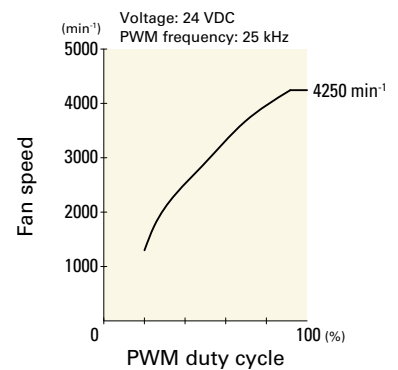
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example

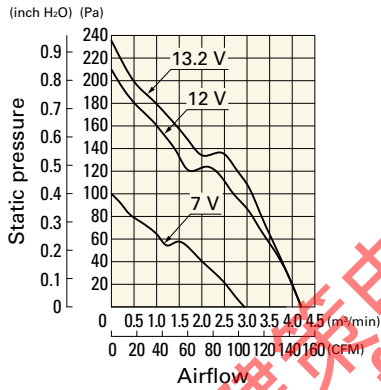


DC
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Airflow - Static Pressure Characteristics

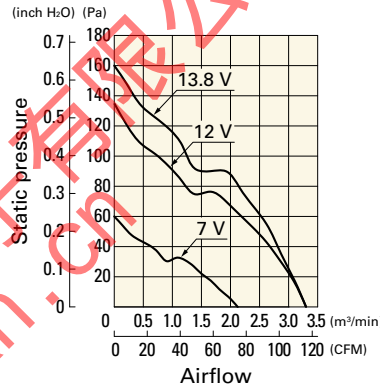
9WPA1212J4001 With pulse sensor

Operating voltage range



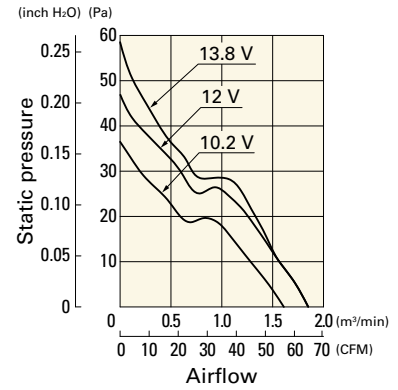
9WPA1212G4001 With pulse sensor

Operating voltage range



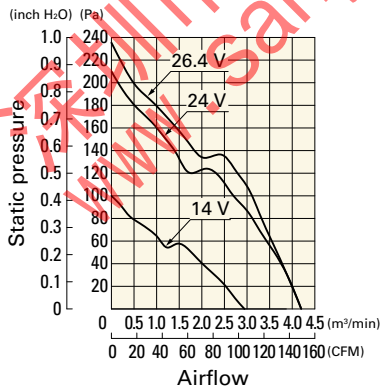
9WPA1212H4001 With pulse sensor

Operating voltage range



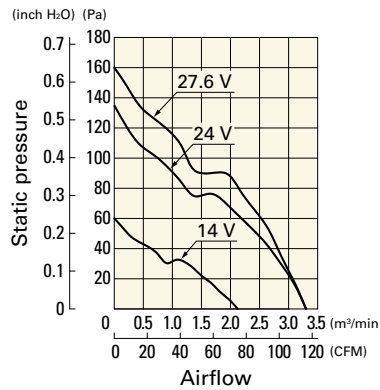
9WPA1224J4001 With pulse sensor

Operating voltage range



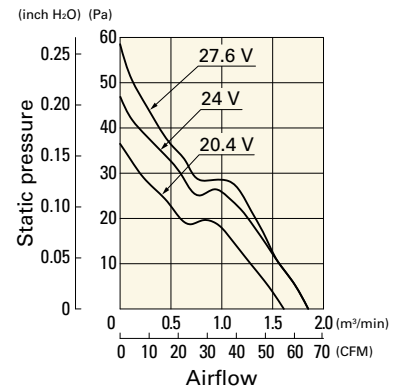
9WPA1224G4001 With pulse sensor

Operating voltage range



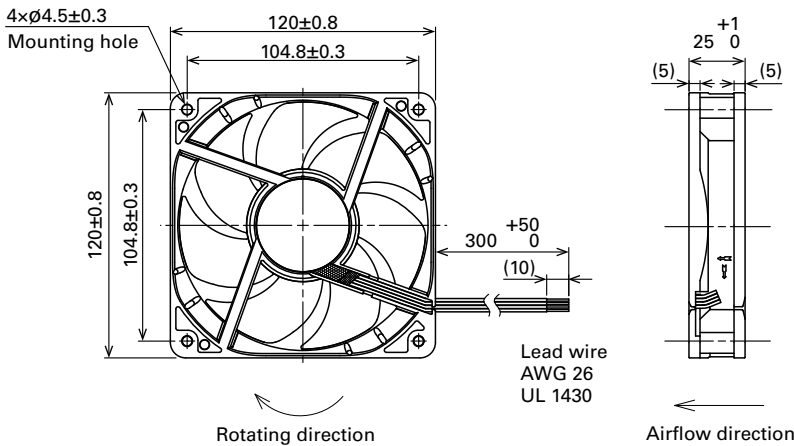
9WPA1224H4001 With pulse sensor

Operating voltage range

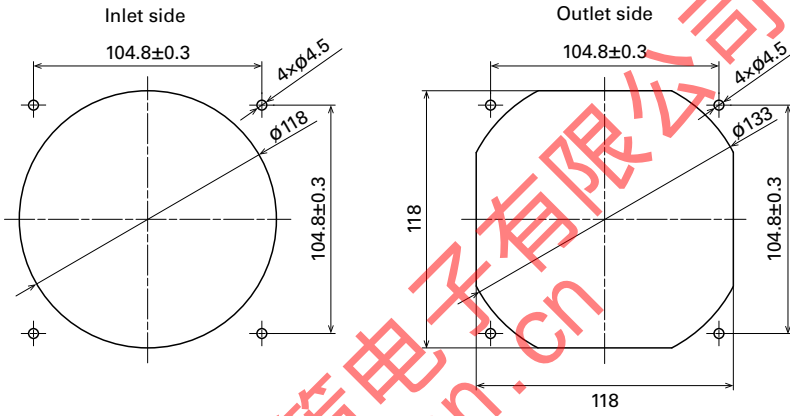


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Splash Proof Fan 120 mm sq.

Dimensions (unit: mm) (Ribbed frame with pulse sensor with PWM control)



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



■ Options

Finger guards page: p. 599
 Model no.: 109-019E, 109-019K

Resin finger guards page: p. 605
 Model no.: 109-1000G

Resin filter kits page: p. 606
 Model no.: 109-1000F13 (13PPI), 109-1000F20 (20PPI),
 109-1000F30 (30PPI), 109-1000F40 (40PPI)